BEEWATEC

Lean Catalogue 9.4

LEAN PRODUCTION
COMPONENTS AND SOLUTIONS

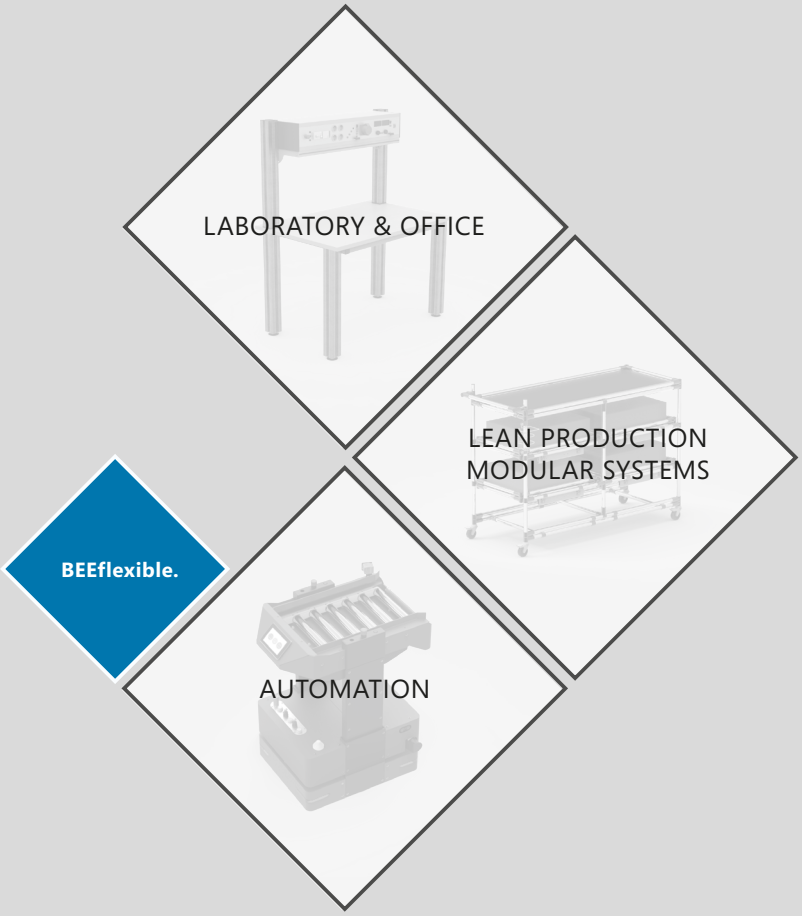
Modular system for process optimizers, workplace builders and cost reducers.

ESD included

BEEWATEC

Processes connected with flexibility

SIMPLE. FLEXIBLE. INDIVIDUAL.



To get LEAN rolling, you have to be flexible. BEEflexible.

The BeeWaTec Group, headquartered in Pfullingen, Swabia, is internationally networked with a flexible and innovative product portfolio centred around Lean Manufacturing, Agile Production and Industry 4.0 and has a decentralized presence through its own subsidiaries.

Every day, we ensure that our innovative modular system for lean manufacturing makes us one of the leading providers of lean and material flow solutions and, as a system provider, offer you both stand-alone solutions as well as complete concepts with networked solutions.

As a medium-sized company, we consistently focus on a continuously high quality standard – this applies for the production of our products as well as to the application of these systems at our customers.

BeeWaTec is your perfect partner if you are looking for solutions for a flexible and economical working and production environment.

The BeeWaTec modular system offers everything that is needed for lean production.

Round or square? Steel or aluminium? Anything else?

The lean production MODULAR SYSTEMS – short & simple

The perfect implementation of Kaizen and Lean manufacturing principles

There are good reasons to build production accessories like Kanban/flow racks, transport trolleys and supply shelves or entire workplaces on your own. The most important prerequisite for this is a stable, production-compatible and at once economical modular system.

The solution: **The BeeWaTec pipe racking system by G.S ACE with its limitless design freedom, with many additional structural components – and the professional service of BeeWaTec.**

Friendly advice, technical competence and experience and lots of personal commitment – BEEWATEC SERVICE

Speed, reliability and professionalism are essential for efficient working processes, manufacturing processes and logistics processes, but also the service we offer to you.

We accompany you as a customer consistently in the planning support, installation,commissioning, training and further development.

You want to plan independently? Use our planning tools.

Technical support
Our BeeWaTec experts will provide you with a solution that will fulfill your needs.

Training & support
With BEETrained you will be excellently prepared in theory and practice.

Planning tools
Realize exciting projects with our planning software BEEVisio & BEELopt .

The BeeWaTec modular system – easy and flexible planning, mounting, changing and re-using.

No more rigid solutions to last for eternity. Today, flexible and intelligent approaches are customary and processes can be adapted instantly - this makes the modular system the ideal solution for the continuous implementation of your improvement processes, increasing your efficiency and profitability!

BeeWaTec is well-known for its **versatile pipe racking system** by G.S. ACE. For the round pipe racking system BeeWaTec offers the **steel product range** and the **aluminum product range**.

Spoilt for choice? Not with BeeWaTec.

The aluminum round pipe racking system is the perfect complement for the steel round pipe racking system. The metal joints, mounting brackets, accessories and so on can be combined with the aluminum round pipe racking system and existing systems.

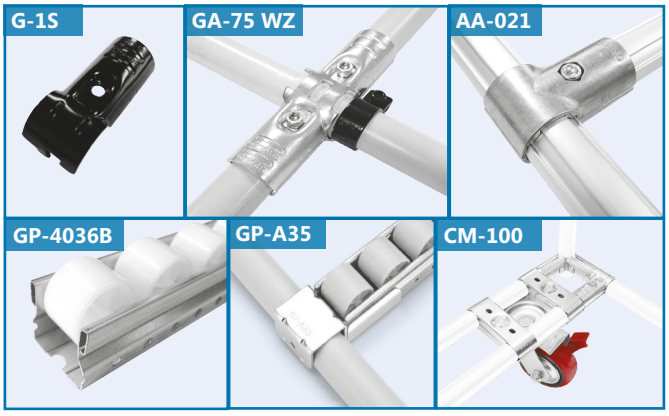
To round it off, BeeWaTec makes it square – the modular system for tugger train construction and logistics planning

For constructions with the requirements for a high load BeeWaTec offers a specially developed square system (MC-system). The modular structure for self-assembly offers flexible construction and fast adaptation possibilities.

Compatibility with pipe racking system:
Due to the numerous joints series, the square Profiles can be adapted to the round pipe Profiles. So the possibilities become even more diverse.

Your benefits at a glance

- Flexible & freely configurable
- Compatible
- Efficiency enchancement
- Fast response
- High efficiency



Lean production - solution-oriented, simple, scalable equipment construction

Efficient in-house logistics by means of flow racks, assembly workstations, Kanban, FIFO, material provision racks & Co.

Use our modular system and select the suitable delivery form for you

With the modular pipe plug-in system we offer you the hardware components you need to build equipment yourself according to the principles of lean production. Besides steel round pipes we also offer aluminium round pipes. Without welding and with little effort, all components of the pipe plug-in system offer you a simple and adaptable possibility to build equipment (e.g. shelves, workstations, material transport trolleys, Kanban, flow rack, staging rack, ergonomic workstations etc.).

Depending on the load requirements of your construction, you can choose the pipes in different wall thicknesses. All steel pipes offer a constant pipe outer diameter so that you can use our connecting elements across the entire pipe range (different colours, wall thicknesses).

Thanks to relatively low investment costs, you can already dentify enormous savings potential and optimisation potential in your production environment / logistics environment. Thus, you can also realise short-term environmental changes mostly within the scope of your limited budget yourself.

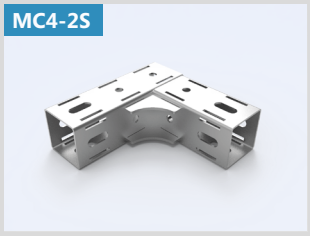
Advantages:

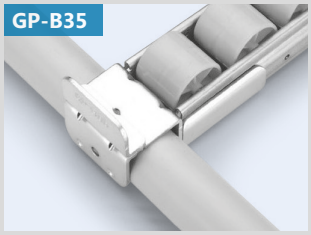
- **No standard constructions** – relatively cheap, flexible, individual solutions
- Fast **responsiveness and flexibility** for your productions and logistic environment
- Pipe racking system is **scalable**
- Ideal for **self-builderss**
- **Individual components or ready-made solutions**
- **Ergonomics** at the workstations – lifting systems

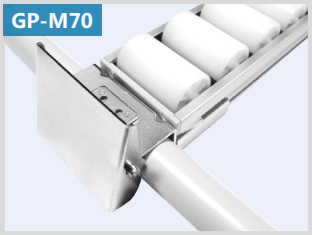
Discover our digital showroom

Hardware components for Lean Production

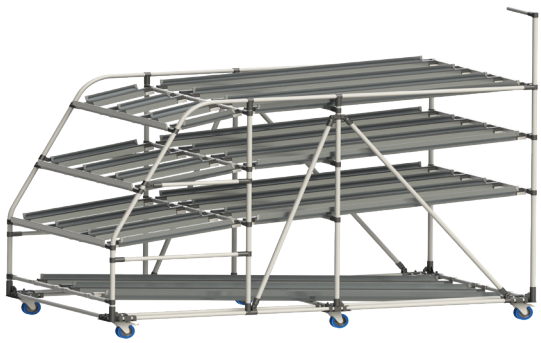
Discover our variety of components in this Lean catalogue.







Much more on the following pages...



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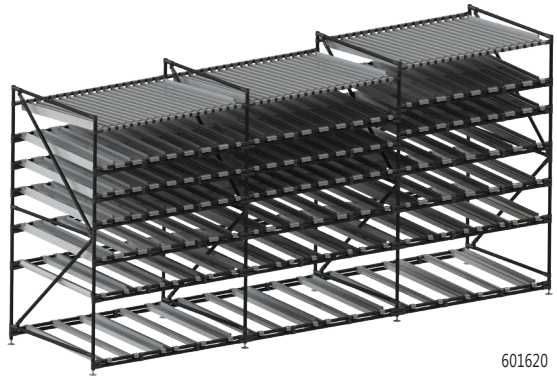

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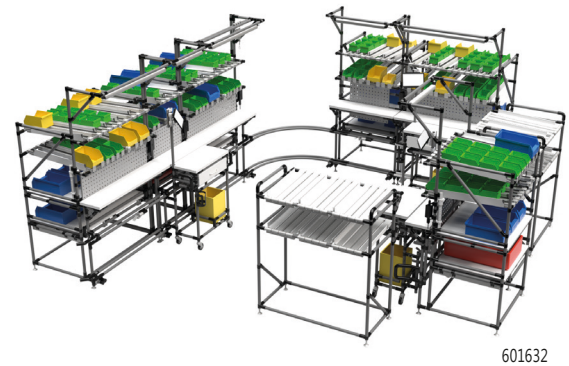
Made easy:
Material provision in flow racking/FIFO racking

A flow/supply rack is a rack that you load with goods/containers on one side of the rack. On the other side (removal side), the previously stored goods are removed.

Advantages:

- **Accessible from both sides** – storage space compaction
  A flow rack is accessible from both sides, enabling supply and removal to proceed smoothly.
- **Compact storage** – small area
  A flow rack can be individually customised in all dimensions. You define the height, width and depth according to your requirements and create as many levels as you need.
- **Flexibly expandable and scalable**
  All shelving units and trolleys can also be changed later.
- **FIFO principle** (first in first out) is provided **for efficient supply chain management**
- **Gentle gradient allows sliding of the next unit**
  Due to the roller tracks used and the gentle gradient, load carriers/ transport boxes can move up.



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The assembly islands:
More effectiveness and productivity through flow production (one-piece flow)

An assembly island describes a U-shaped cell. All the necessary work steps are combined in a small space and the material is located directly at the workstation (e.g. in the form of feed units / flow racks).

Advantages:

- **Saves space**
  All value-added work steps and materials in a small space – directly accessible at the workplace.
- **Fast reaction possibilities with high flexibility – workplace can be easily adapted to the process**
- **Ergonomic superstructures**
- **Accessories individually expandable and scalable**
  Assembly workstations can be further improved with a wide range of accessories.
- **ESD compatible design**
  All materials (pipes, joints, table tops, etc.) are also available in an electrically conductive version (ESD).
- **Can be combined with Kanban, flow and material supply racks**

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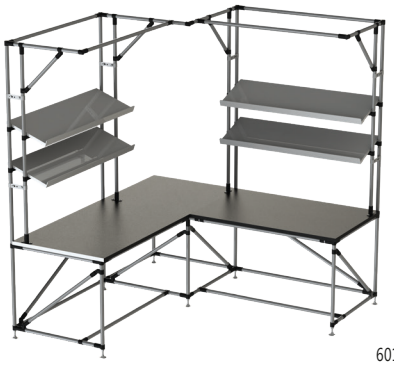

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Your assembly workstation: flexible, ergonomic, efficient and (optionally) height-adjustable

Your assembly workstation: flexible, ergonomic, efficient and (optionally) height-adjustable. Lean workstations or lean assembly workstations serve as individual assembly workstations, assembly islands or entire assembly lines. Workstations can be individually aligned to your process and workers. Standardised workstations made of pipe racking systems can be used, but their dimensions and equipment can be individually modified and adapted.

Advantages:

- **Ergonomics and healthy working posture for increased productivity**
- **Flexibility: The workplace can be easily adapted to the process**
- **Efficiency through optimized processes**
  Throughput times are minimised by optimally arranged work steps and supply of the assembly material.
- **Optional continuously adjustable working height: Linear units and height adjustment**
- **Ergonomic superstructures**
- **Accessories individually expandable and scalable**
- **ESD compatible design**
- **Can be combined with Kanban, flow and material supply racks**

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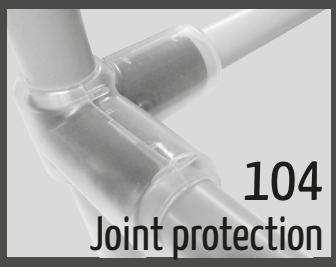
Efficient internal transport through material transport trolleys

Unnecessary transport routes are among the most common types of waste in production and logistics environments. Material handling trolleys should be constructed in such a way that they can be used in different areas. The material stays on a trolley and if possible passes through the entire production process on it (e.g. from the ESD room, cold room to quality assurance).

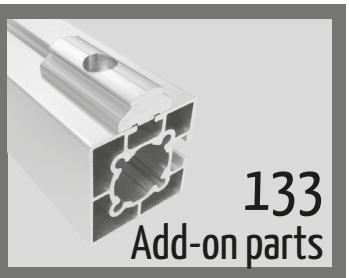
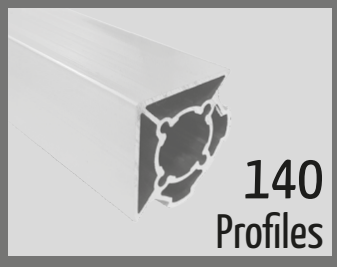
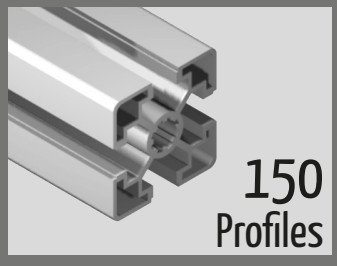
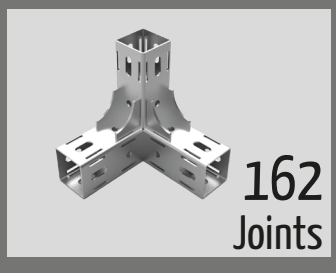
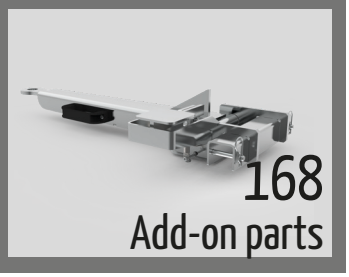
Advantages:

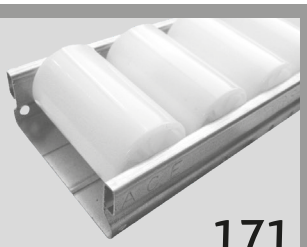
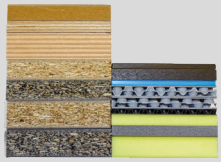
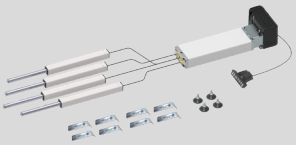
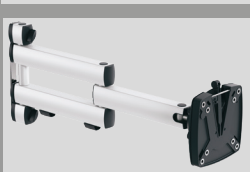
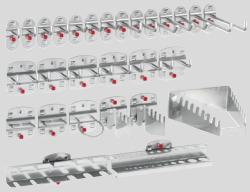
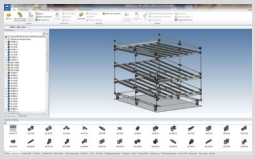
- **Reduction of stock transfers**
  Material handling trolleys are built on castors. No additional forklifts or pallet trucks are needed to move the material transport trolley.
- **Automation of material flows possible**
  Autonomous mobile robots from BeeWaTec can take over such material transports by driving under the racks/trolleys,undocking and picking them up.
- **Flexibly expandable and scalable**
  All shelving units and transport trolleys can be changed later.
- **Individually designable**
  Each material transport trolley can be configured according your needs. Special load carriers can be transported as well.

Pipe racking system

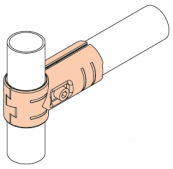
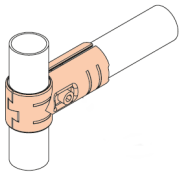
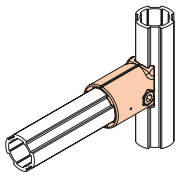
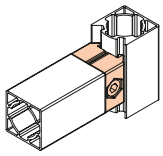
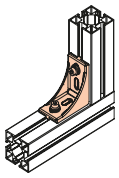
Steel Ø 28 mm from page 12	14 Pipes	19 Joints	50 Add-on parts
ALUMINIUM Ø 28 mm from page 63	64 Pipes	73 Joints	92 Add-on parts
Accessories Ø28 mm round pipe from page 99	100 Labelling	 104 Joint protection	108 Others
ALUMINIUM Ø 43 mm from page 113	116 Pipes	118 Joints	126 Add-on parts

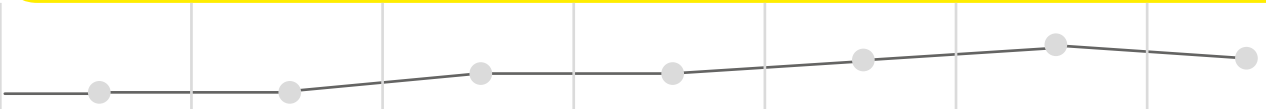
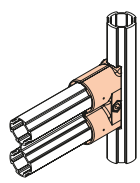
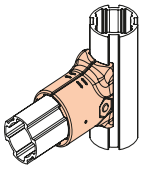
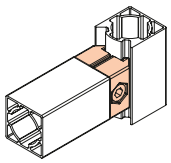
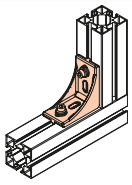
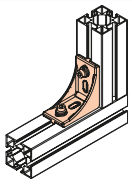
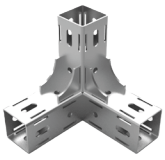
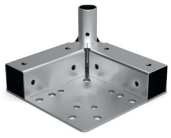
Square systems

ALUMINIUM □ 28 x 28mm from page 131	132 Profiles	133 Joints	 133 Add-on parts
ALUMINIUM □ 40 x 40mm from page 139	 140 Profiles	141 Joints	142 Add-on parts
ALUMINIUM □ 45 x 45mm from page 149	 150 Profiles	151 Joints	153 Add-on parts
Steel □ 45 x 45mm from page 161	162 Profiles	 162 Joints	 168 Add-on parts

Roller tracks	 171	Support feet	217
Castors	221	Panels	 239
Lifting technology	 249	Lighting	271
Additional accessories	 279	Workshop equipment	 289
Assembly workplaces	327	AMR	332
Application examples	334	Software	 350

Profile series overview

	Aluminium pipes Ø 28 mm	Steel pipes Ø 28 mm	Aluminium pipes Ø 28 mm	Aluminium square 28 x 28 mm	Aluminium square 28 x 28 mm
STEEL PROFILES Different designs (wall thicknesses, colours, etc.) available		28			
ALUMINIUM PROFILES Different designs (wall thicknesses, profiles, etc.) available	28		28	28	28
ESD Variants available ESD assembly possible	✓	✓	✓	✓	✓
LOAD CAPACITY Depending on the choice of wall thickness and outer profile. Flexible increase in stability of individual constructions possible through e.g. double tube technology.					
JOINING TECHNOLOGY Primary joining technology supported by a variety of individual joints for maximum flexibility and compatibility between different pipes and profiles.					
APPLICATION AREAS Different versions (wall thicknesses, profile characteristics, etc) available. (*depending on requirements)	✓ possible, recommended* (✓) possible, recommended with restrictions* ✗ not possible, not recommended*				
Shelf systems — Structure	✓	✓	✓	✓	✓
Shelf systems — Basic frame	✓	✓	✓	✓	✓
Workplace systems — Structure	✓	✓	✓	✓	✓
Workplace systems — Basic frame	✓	✓	✓	✓	✓
Tugger train trailer (high dynamic load) — Structure	✓	✓	✓	✓	✓
Tugger train trailer (high dynamic load) — Basic frame	✗	✗	✗	✗	✗
Order picking trolley (hand-pulled) — Structure	✓	✓	✓	✓	✓
Order picking trolley (hand-pulled) — Basic frame	✓	✓	✓	✓	✓
Superstructures/shelf systems for mobile robots — Structure	✓	✓	✓	✓	✓
Superstructures/shelf systems for mobile robots — Basic frame	✓	✓	✓	✓	✓
COMPARSION OF PRICES Price per metre (depending on design and material thickness)	$	$	$	$	$
CATALOGUE	from page 67	from page 14	from page 68	from page 132	from page 134

Aluminium pipes Ø 28 mm	Aluminium pipes Ø 43 mm	Aluminium square 40 x 40 mm	Aluminium square 40 x40 mm groove 8	Aluminium square 45 x 45 mm	Aluminium square 45 x 45 mm groove 10	Steel square 45 x 45 mm
						45
28 / 28	43	40 / 6,5	40 / 8	45 / 8,3	45 / 10	
✓	✓	✓	✓	✓	✓	✓
						
						
✓	✓	✓	✓	✓	(✓)	✗
✓	✓	✓	✓	✓	(✓)	(✓)
✓	✓	(✓)	(✓)	(✓)	(✓)	✗
✓	✓	✓	✓	✓	✓	✗
✓	✓	✓	✓	✓	✓	(✓)
✗	✗	✗	✗	✓	✓	✓ (especially for forklift use)
✓	✓	✓	✓	(✓)	✓	(✓)
✓	✓	✓	✓	(✓)	(✓)	(✓)
✓	✓	✓	✓	✓	✓	✗
✓	✓	✓	✓	✓	✓	✓
$	$	$	$	$	$	$
from page 67	from page 116	from page 140	own brochure	from page 150	from page 153	from page 162

PIPE RACKING SYSTEMS by G.S. ACE

With the BeeWaTec round pipe racking system you can realize your ideas for your individual production environment quickly and easily.

Implementation:

The pipe racking system by G.S. ACE offers everything for professional use: **Stability** and **lightness**, a **wide range of versions** (also electronically conductive) and a growing product range of joints and accessories. In addition, the pipe racking system is very easy to handle and with little tools.

The joints provide optimal stability and can be mounted easily and quickly. Moreover, they are reusable, just as the pipe elements.

Please have a look at our **user manual** where you can find lots of practical tips for the design and realization of pipework.

Steel or Aluminium?

For the round pipe racking system BeeWaTec offers the **steel product range** and the **aluminum product range.**

Choose the solutions that fits your application from our comprehensive product range or use the **compatibility** between the steel round pipe racking system and the aluminum round pipe racking system.

Little manpower and tools needed

Stability and easy

Wide variety

STEEL PIPE RACKING SYSTEMS by G.S. ACE

BeeWaTec offers the **steel round pipe** in three different versions:

- D-COAT pipe
- SUS pipe
- ECCO★pipe (ECCO-Star)

The pipes and profiles have one thing in common: the 28 mm basic diameter. Occasionally 32 mm diameter is available.

Due to the numerous wall thicknesses and colours there are numerous possibilities expending on the application and the customer requirements there are numerous possibilities of wall thicknesses and colours.

Easy to assemble, easy to convert:

Just cut the pipes to the desired length and supplement them with the corresponding joint elements. Change work processes or workpieces the tubes can be shortened in no time and reassembled.

An economical solution for the requirements of the modern production.

Electrical conductivity (ELF)

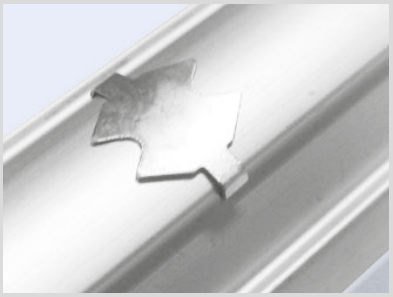
ELF is the abbreviation for „electrically conductive“ and limits the electrical leakage resistance range of a body.

For electrically conductive design, all essential parts of a construction, including the rollers, must be electrically conductive. In principle, our electrically conductive components/structures have an electrical resistance of < 10^9 Ω. You as the customer must check whether the components/structures meet your requirements for electrostatic discharges.

If it is not possible for all components to have a desired resistance value and/or the floor is not conductive, the construction or only the electrically conductive tabletop can be dissipated via an earthing plug.

For the steel joints, the WZ version (white galvanised) should be selected. The BK joints do not have sufficient conductivity.

Note:
With the aluminium round pipe system, these are initially not conductive due to the anodised coating on the surface. Only when the matching aluminium joints or also the steel joints from the round steel pipe system are screwed onto the aluminium pipes with clamping, the joints penetrate the thin anodised layer and thus establish conductivity. If the resistance value is still too high, this can be reduced with the matching ESD plate (LP2800, 117718).



These contact plates are installed on the outer contour of the aluminium tube and the aluminium joint to be clamped. In the case of roller rail holders, it may be necessary to fix them with self-drilling screws to ensure safe conductivity.

When using aluminium square profiles, please note the following:

The bar material also has a surface resistance of greater than 10^9 Ω due to the anodised coating. With correct assembly of the joining elements, a resistance value from joining element to joining element of < 10^6 Ω can be achieved. The basis for the design of a system is the standard according to DIN EN 61340-5-1.

STEEL Ø 28 mm

PIPES

D-Coat pipes 14
Sliding pipes 14
Ecco-Star pipes 15
SUS pipes 15
Cover caps 16

JOINTS

Basic joints 20
Swivel joints 24
Angle joints 26
Joints for panel fastening 29
Swivel and sliding joints 33
Attachment joints 36
Parallel joints 37
Joints for holding round and sliding pipes 40
Holders 41
Joining elements 42
Wheel mounting elements 43
Drive-in sleeves 46

ADD-ON PARTS

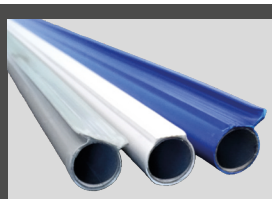
Deflection joints 50
Shooter 53
C-rail 54
Fixations 55
Further add-on parts 56
Stoppers 58
Hook with adaption to the pipe 60
Band holder 61

STEEL pipes Ø 28 mm

D-Coat pipes

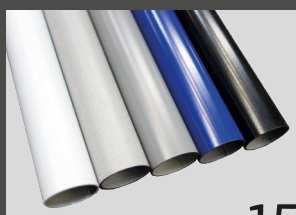
14

Sliding pipes



14

Ecco-Star pipes



15

SUS pipes

15

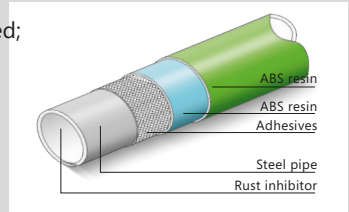
Cover caps

16

Steel pipes overview

D-Coat pipe

- **ABS coating**
  Steel pipe is coated with ABS plastic with an additional coating of the new PA-ABS material
- **Best chemical resistance**
  Compared to the conventional ABS coating pipe, D-COAT pipe is outstanding in oil resistance and chemical resistance; in particular, salinity, rust preventative oil or cutting oil does not cause cracks or discolouration of the pipe
- **Colourful**
  Comes in a variety of colours for use in various items or per company's image
- **Excellent durability**
  With outstanding durability, this pipe is easily processed; rustproof coating inside the pipe provides superior corrosion resistance



ORDERING INFORMATION

- ***Legend:***

  Article number | Name
  100231 | DP2810-N

- ***Standard pipes Ø28x0.7mm*** *means 28 mm outer diameter and 0.7 mm wall thickness of steel pipe.*
- *Reference is made in the following pages to a simplified Ø 28 mm; the exact diameter is 27.6 +0.15/–0.10 mm.*
- ***Warehouse status***

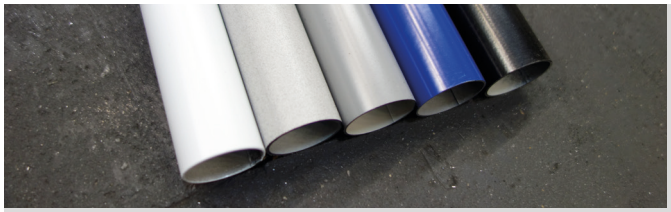
  Priority | available on request

  „Priority goods" can be supplied immediately; in the case of "on request" product delivery times of around 8 weeks should be reckoned with.
- ***Standard pipe length:***
  4 m; shorter pipe lengths on application.
- *The colours shown may vary from the actual ones due to printing limitations*

Standard pipes	Colour similar RAL	D-Coat Pipe Ø28x0.7mm	Ø28x0,9mm	Ø28x1.0mm (on run-out)	Ø28x2.0mm	Ø32x0.7mm	Slide Pipe Ø28x1.0mm	Slide Pipe Ø28x2.0mm	L-Slide Ø28x1.0mm	Flat Slide Pipe Ø28x1.0mm
Inner diameter		24.0 mm	23,6 mm	23.4 mm	21.8 mm	28.0 mm	23.4 mm	23.4 mm	23.4 mm	23.4 mm
Green (-N)	6018		609198 | DP2809-N	100174 | DP2810-N	100181 | DP2820-N					
Sky blue (-S)	5012		609203 | DP2809-S	100188 | DP2810-S	100203 | DP2820-S					
Dark blue (-K)	5010	100168 | DP2807-K	609199 | DP2809-K	100175 | DP2810-K	100182 | DP2820-K	116361 | DP3207-K	100555 | CS2810-K			100272 | CF2810-K
Red (-R)	3002		609201 | DP2809-R	100179 | DP2810-R	100186 | DP2820-R					
Orange (-O)	2009		609206 | DP2809-O	100199 | DP2810-O						
Yellow (-YE)	1021		609205 | DP2809-YE	100196 | DP2810-YE	100197 | DP2820-YE					
Ivory (-i)	1013	100173 | DP2807-i	609202 | DP2809-i	100180 | DP2810-i	100187 | DP2820-i					
Grey (-G)	7035	100169 | DP2807-G	609200 | DP2809-G	100176 | DP2810-G	100183 | DP2820-G		100556 | CS-2810-G		100281 | LS2810-G	
Metallic grey (-VG)	9022	109999 | DP2807-VG	609208 | DP2809-VG	110000 | DP2810-VG	109747 | DP2820-VG	121094 | DP3207-VG		114561 | CS 2820-VG		
Stone grey (-HG)	7037									100278 | CF2810-HG
White (-W)	9003	100191 | DP2807-W	609204 | DP2809-W	100192 | DP2810-W	100193 | DP2820-W					
Spiral shaped yellow/black	1021/9005		113741 | SP2809							

ESD version

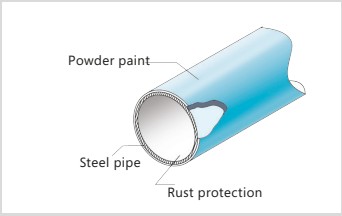
Black (-B)	9005	100231 | EP2807-B	609209 | EP2809-B	100232 | EP2810-B	100233 | EP2820-B		100238 | ES2810-B			100230 | EF2810-B
Grey (-G)	7035									
Polished steel (-E)										
Weight (kg/per metre)		0.505 kg	0.630 kg	0.700 kg	1.130 kg	0.620 kg	0.767 kg	1.170 kg	0.750 kg	0.790 kg



ECCO ★ Pipe (ECCO-Star)

- **Environmentally friendly**
  100% reusable
- **Colourful**
  Comes in a variety of colours
- **Chemical resistant**
  High resistance to oil, UV light and corrosion
- **Non-flammable**
  No emission of toxic fumes in fire
- **Electrolytic corrosion free**
  Free of electrolytic corrosion
- **Robust and scratch-resistant surface**

Powder-coated pipe



SUS Pipe

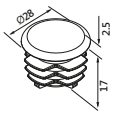
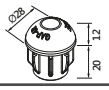
- **Environmentally friendly**
  100% reusable
- **High stability and durability**
  Surface resistant to fading or contact with metal tools
- **Best chemical resistance**
  Absolutely resistant to oils, solvents, bleaches, etc.
- **Non-flammable**
  Naturally non-combustible
- **Conductive (hard conductivity)**

ECCO-Star pipe				SUS pipe		
Ø28x0.7mm	**Ø28x0.9mm**	**Ø28x1.2mm**	**Ø28x2.0mm**	**Ø28x0.7mm**	**Ø28x1.2mm**	**Ø32x1.2mm**
26.1 mm	25.7 mm	25.1 mm	23.9 mm	26.2 mm	25.2 mm	29.6 mm
	401566 | G2809-K	**100223 | G2812-K**	**131833 | G2820-K**			
	402776 | G2809-G	**402777 | G2812-G**	**402778 | G2820-G**			
	401565 | G2809-VG	**112884 | G2812-VG**	**130562 | G2820-VG**			
	401567 | G2809-W	**100228 | G2812-W**	**131832 | G2820-W**			
402629 | EG2807-B	**401573 | EG2809-B**	**100212 | EG2812-B**	**402630 | EG2820-B**			
100208 | EG2807-G		**100211 | EG2812-G**	**402631 | EG2820-G**			
				100572 | S2807-PF	**100573 | S2812-PF**	112627 | S3212-PF
0.475kg	0.600 kg	0.800 kg	1.100 kg	0.448 kg	0.760 kg	0.770 kg

Cover caps

- A pipe end without a visibly opening does not only look better, it also reduces the risk of accident and the risk of pollution
- Available in different versions, colours and diameters
- The cover caps are also available with electrical conductivity

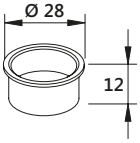
GAP-4... Cover caps internal, made of plastic

	Art. No.	Name	Pipe	Ø Pipe	Colour	Material	
	126215	GAP-4-P-B	For all steel pipes	28 mm	Black	Plastic	
	126269	GAP-4-P-BE			Black		
	126270	GAP-4-P-G			Grey		
	126290	GAP-4R B	For all D-coat pipe	28 mm	Black	Plastic	
	126278	GAP-4R G			Grey		

GAM-07S Cover caps internal, made of steel

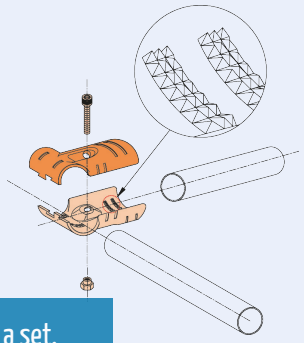
	Art. No.	Name	Pipe	Ø Pipe	Colour	Material	
	120541	GAM-07S	For ECCO-Star pipe and SUS pipe	28x0.7mm	WZ	Steel	

GAS-... Steel caps for insertion in the pipe

	Art. No.	Name	Pipe	Ø Pipe	Material	
	100033	GAS-07A	For D-coat pipe	28x0.7mm	Steel galvanised	
	100034	GAS-10A		28x1.0mm		
	100031	GAS-07S	For ECCO-Star pipe and SUS pipe	28x0.7mm	Steel galvanised	
	100032	GAS-12S		28x1.2mm		

SPACE FOR NOTES

Versatile, flexible and easy to grip.
STEEL-Joints.



Individual or as a set.

Joining technology made easy

The steel joints of the pipe racking system by G.S.ACE have a special design with a **pyramid-shaped grip structure** at the contact surfaces (at the right) and show therefore **excellent adhesive properties**.

Cut-off tolerances and angle errors are also compensated by the joint elements without affecting the holding force. Another advantage are the markings at the joint shells to indicate the minimum/maximum plug-in depth which makes it easier to work with the joints.

Joint as a set

The **G-1S** joint is a **half shell** without accessories.

The **half shells** are highlighted in blue.

The **GA-1S** comprises the complete **Set** that is necessary for assembly.

2 half shells + screw and nut.
This example is valid for all joints.

The **sets** are highlighted in anthracite.

Surfaces

GA-5S-BK

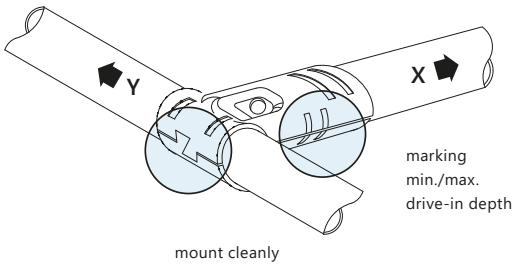
BK:
Black coating,
chrome-free

GA-5S-WZ

WZ:
White zinc plating,
for ESD use

GA-5S-Ni

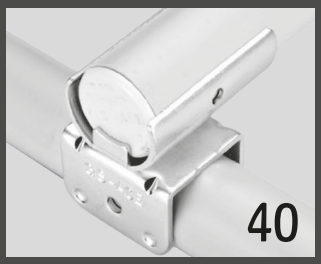
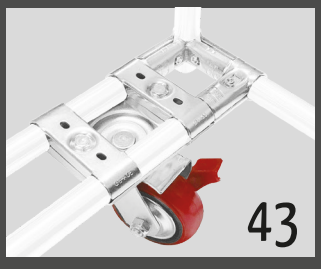
Ni:
Nickel plating, chrome-free,
for ESD use
(fittet with galvanized screws/
nuts)



Ordering information

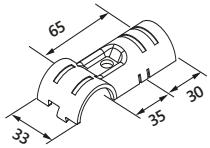
- Standard packing units supplied with the number of pieces given in each instance. All joints can also be ordered in other piece numbers.
- Kits of joints are supplied as individual parts (e.g. G**A**-1S: 2x base element G-1S and 1x screw set M0625/TN06)

STEEL joints Ø 28 mm

Basic joints	20	Swivel joints	24
Angle joints	26	Joint for panel fastening	29
Swivel and sliding joints	33	Attachment joints	36
Parallel joints	37	Joining elements	42
Joint for holding round and sliding pipes	 40	Holders	41
Wheel mounting elements	 43	Drive-in sleeves	46

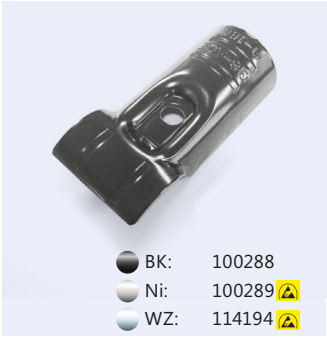
G-1S Basic joint, one-sided

BK: 100286
Ni: 100287
WZ: 114193

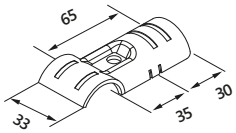


Weight: 68 g
Packaging unit: 240 pcs

G-1BS Basic joint, one-sided



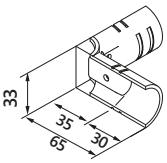
BK: 100288
Ni: 100289
WZ: 114194



Weight: 61 g
Packaging unit: 240 pcs

G-2S Basic joint as an angle shape

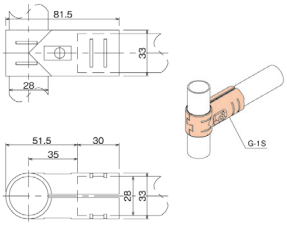
BK: 100290
Ni: 100291
WZ: 114195



Weight: 95 g
Packaging unit: 150 pcs

GA-1S Set of basic joints

BK: 100349
Ni: 100350
WZ: 114321

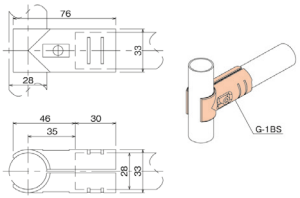


The set consists of following parts:

- 2 x G-1S
- 1 x Set M0625/TN06

GA-1BS Set of basic joints

BK: 100351
Ni: 100352
WZ: 114323

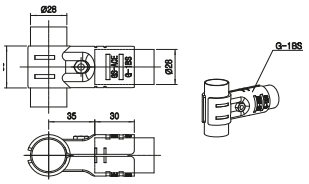


The set consists of following parts:

- 2 x G-1BS
- 1 x Set M0625/TN06

GA-1BS KH Set of basic joints

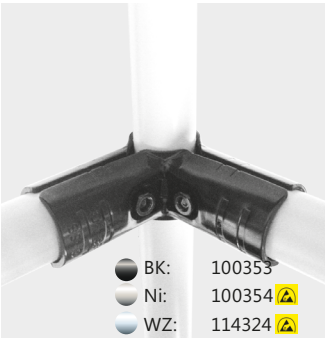
BK: 119014
Ni: 119015
WZ: 119016



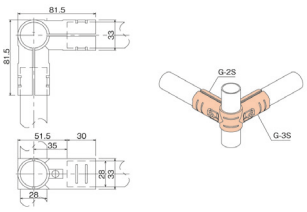
The set consists of following parts:

- 2 x G-1BS
- 1 x TN06
- 1 x SB4816
- 1 x KH0630
- 1 x D-143H-10

GA-2S Set of basic joints



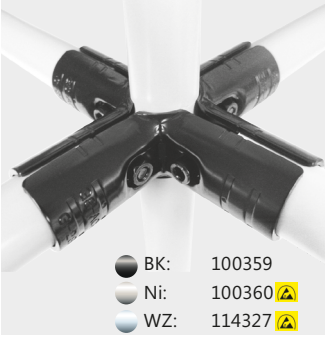
BK: 100353
Ni: 100354
WZ: 114324



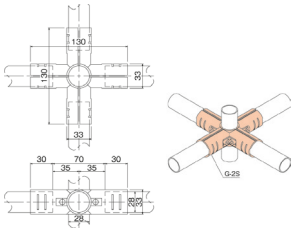
The set consists of following parts:

- 1 x G-2S
- 1 x G-3S
- 2 x Set M0625/TN06

GA-5S Set of basic joints



BK: 100359
Ni: 100360
WZ: 114327

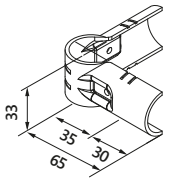


The set consists of following parts:

- 4 x G-2S
- 4 x Set M0625/TN06

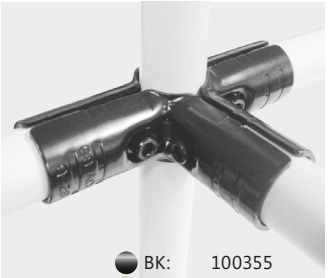
G-3S Basic joint as an angle shape

BK: 100292
Ni: 100293
WZ: 114196

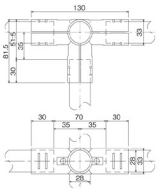


Weight: 120 g
Packaging unit: 70 pcs

GA-3S Set of basic joints



BK: 100355
Ni: 100356
WZ: 114325

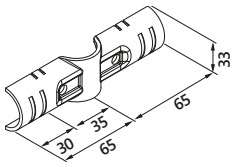


The set consists of following parts:

- 2 x G-2S
- 1 x G-4S
- 3 x Set M0625/TN06

G-4S Basic joint, two-sided

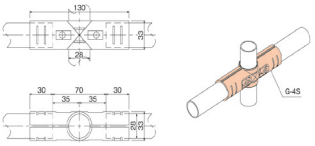
BK: 100294
Ni: 100295
WZ: 114197



Weight: 107 g
Packaging unit: 180 pcs

GA-4S Set of basic joints, two-sided

BK: 100357
Ni: 100358
WZ: 114326

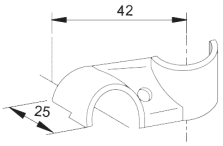


The set consists of following parts:

- 2 x G-4S
- 2 x Set M0625/TN06

G-6S Basic joint as a strut

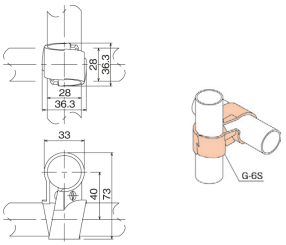
BK: 100296
Ni: 100297
WZ: 114198



Weight: 48 g
Packaging unit: 180 pcs

GA-6S Set of basic joints as a strut

BK: 100361
Ni: 100362
WZ: 114328

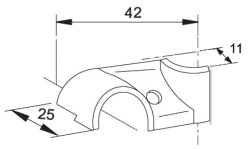


The set consists of following parts:

- 2 x G-6S
- 1 x Set M0625/TN06

G-66 Basic aluminium joint as a strut

BK: 113575
Ni: 113574

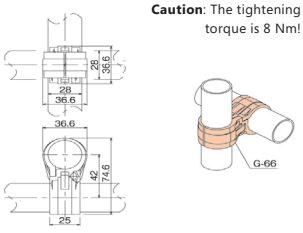


Weight: 42 g
Packaging unit: 160 pcs
Material: Aluminium

GA-66 Set of basic aluminium joints

BK: 113845
Ni: 113849

Caution: The tightening torque is 8 Nm!

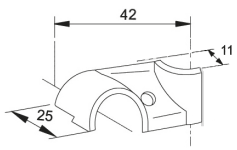


The set consists of following parts:

- 2 x G-66
- 1 x Set M0625/TN06

G-6BS Basic joint as a strut

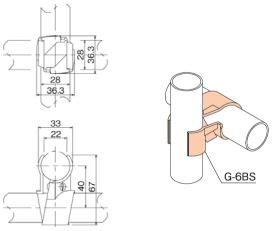
BK: 100298
Ni: 100299
WZ: 114199



Weight: 42 g
Packaging unit: 420 pcs

GA-6BS Set of basic joints as a strut

BK: 100363
Ni: 100364
WZ: 114329

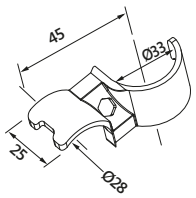


The set consists of following parts:

- 2 x G-6BS
- 1 x Set M0625/TN06

G-6B-33 Basic joint as a strut

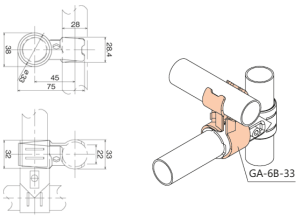
BK: 126188
Ni: 126194
WZ: 126272



Weight: 46 g
Packaging unit: 180 pcs

GA-6B-33 Set of basic joint as a strut

BK: 126190
Ni: 126287
WZ: 126274

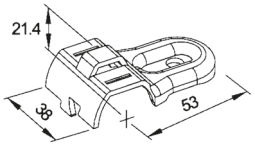


The set consists of following parts:

- 2 x G-6B-33
- 1 x Set M0625/TN06

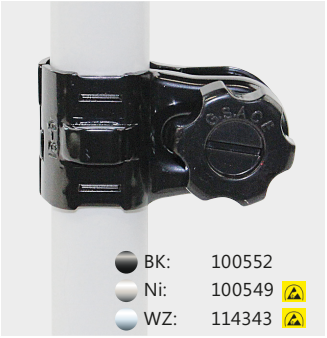
G-21A Basic joint as quick adjustment

BK: 100550
Ni: 100546
WZ: 114223

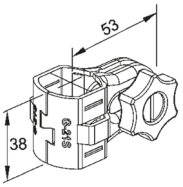


Weight: 54 g
Packaging unit: 210 pcs

GA-21A Set of basic joints with quick adjustment



BK: 100552
Ni: 100549
WZ: 114343



The set consists of following parts:

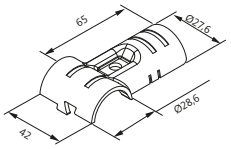
- 2 x G-21A
- 1 x Set HM0620/TN06

G-101S Hybrid joint

Adaption

BK: 100339
Ni: 100341
WZ: 114218

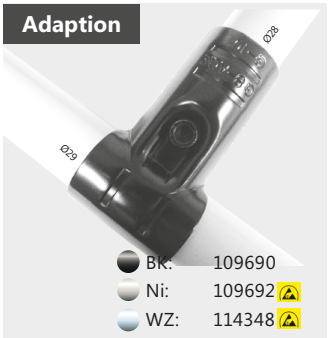
- For placing on the pipe (T system)



Weight: 74 g
Packaging unit: 180 pcs

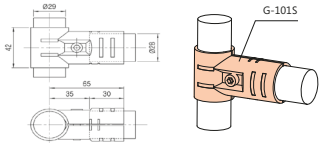
GA-101S Set of hybrid joints

Adaption



BK: 109690
Ni: 109692
WZ: 114348

- For placing on the pipe



The set consists of following parts:

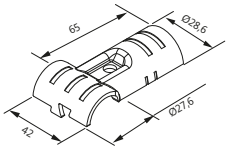
- 2 x G-101S
- 1 x Set M0625/TN06

G-102S Hybrid joint

Adaption

BK: 100340
Ni: 100342
WZ: 114219

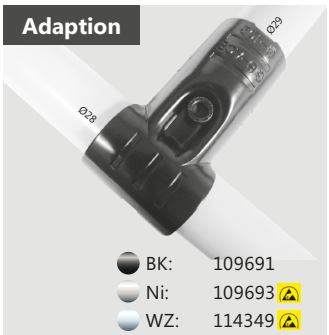
- For placing on the pipe (T system)



Weight: 74 g
Packaging unit: 200 pcs

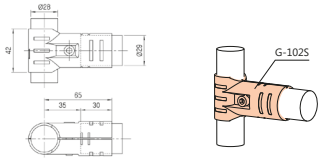
GA-102S Set of hybrid joints

Adaption



BK: 109691
Ni: 109693
WZ: 114349

- For placing on the pipe



The set consists of following parts:

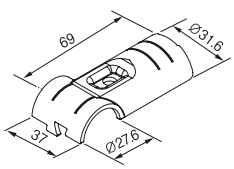
- 2 x G-102S
- 1 x Set M0625/TN06

G-105S Hybrid joint

Adaption

BK: 116359
Ni: 116358
WZ: 116360

- For placing on the pipe (C system)



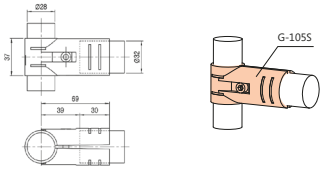
Weight: 80 g
Packaging unit: 200 pcs

GA-105S Set of hybrid joints

Adaption

BK: 116388
Ni: 116389
WZ: 116391

- For placing on the pipe



The set consists of following parts:

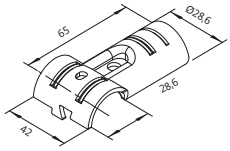
- 2 x G-105S
- 1 x Set M0625/TN06

G-106S Hybrid joint

Adaption

BK: 125038
Ni: 125039
WZ: 125040

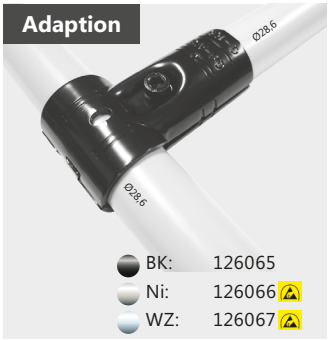
- For placing on the pipe (T system)



Weight: 80 g
Packaging unit: 200 pcs

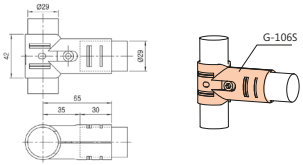
GA-106S Set of hybrid joints

Adaption



BK: 126065
Ni: 126066
WZ: 126067

- For placing on the pipe



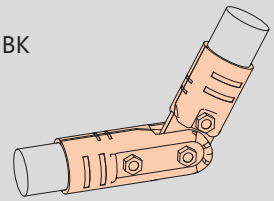
The set consists of following parts:

- 2 x G-106S
- 1 x Set M0625/TN06

Application example for the joint sets

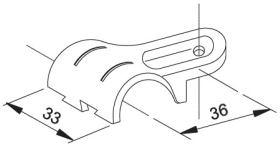
Swivel joints

- Pivoted and flexible to the limit
- With the swivel joint pipes can be connected together at any angle
- Available in WZ / Ni / BK



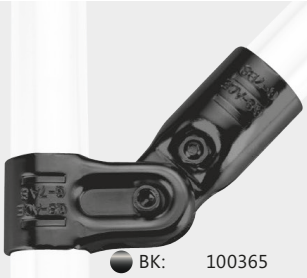
G-7AS Swivel joint, one-sided

BK: 100300
Ni: 100301
WZ: 114200



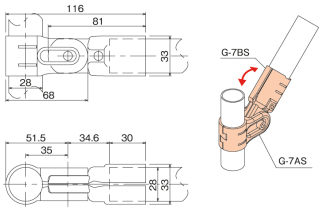
Weight: 44 g
Packaging unit: 300 pcs

GA-7S Set of swivel joints, one-sided



BK: 100365
Ni: 100366
WZ: 114330

Note: After screw connection with 12 Nm, the swivel joints are fixed.

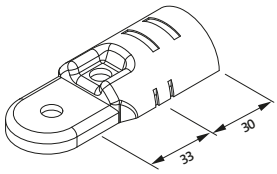


The set consists of following parts:

- 2 x G-7AS
- 2 x G-7BS
- 2 x Set M0625/TN06

G-7BS Swivel joint, one-sided

BK: 100302
Ni: 100303
WZ: 114201

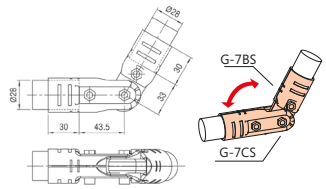


Weight: 52 g
Packaging unit: 300 pcs

GA-27S Set of swivel joints, one-sided

BK: 113022
Ni: 113023
WZ: 114355

Note: After screw connection with 12 Nm, the swivel joints are fixed.

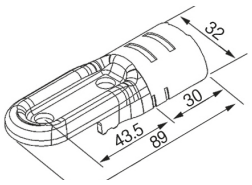


The set consists of following parts:

- 2 x G-7CS
- 2 x G-7BS
- 3 x Set M0625/TN06

G-7CS Swivel joint, one-sided

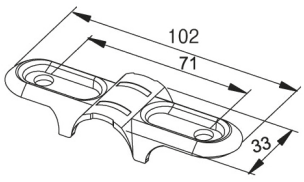
BK: 112768
Ni: 112769
WZ: 114226



Weight: 62 g
Packaging unit: 160 pcs

G-14S Swivel joint, two-sided

BK: 100314
Ni: 100315
WZ: 114207

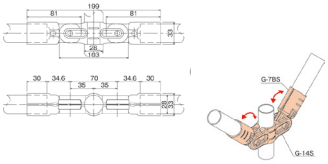


Weight: 52 g
Packaging unit: 270 pcs

GA-14S Set of swivel joints, two-sided

BK: 100374
Ni: 100375
WZ: 114335

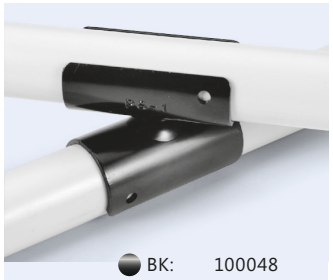
Note: After screw connection with 12 Nm, the swivel joints are fixed.



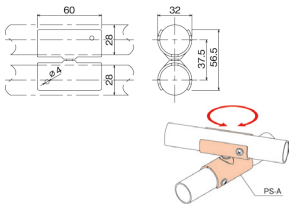
The set consists of following parts:

- 2 x G-14S
- 4 x G-7BS
- 4 x Set M0625/TN06

PS-A Swivel joint as a cross element



- Closed rotary element
- Mounting plate on both sides closed

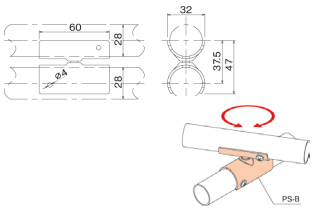


BK: 100048
Ni: 100056
WZ: 115285

Weight: 128 g
Packaging unit: 96 pcs

PS-B Swivel joint as an open cross element

- Open rotary element
- Mounting plate open on one side and closed

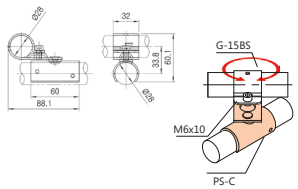


BK: 100049
WZ: 115284

Weight: 104 g
Packaging unit: 95 pcs

PS-C Swivel joint as a closed cross element

- Closed rotary element
- Closed mounting plate

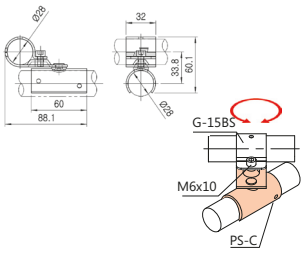


BK: 118723
WZ: 118724

Weight: 105 g
Packaging unit: 70 pcs

PS-C Set Set of swivel joints

BK: 133012
WZ: 133026



The set consists of following parts:

- 1 x G-15BS
- 1 x PS-C
- 1 x M0610

PS-D Swivel joint, roller track mounting

NEW

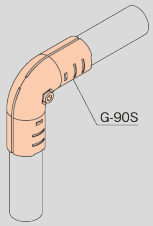
- for Series 40 roller tracks
- Mounting on Ø28 mm round pipe
- swivelling
- Set up vertically, a roller track can be used as a lateral guide

WZ: 610843

Weight: 128 g
Packaging unit: 126 pcs

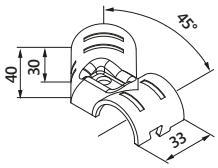
Fixed angle joints

- For diagonal pipes with a fixed angle or ergonomically rounded angular joints
- Available in WZ / Ni / BK



G-13AS Angle joint 45°, one-sided

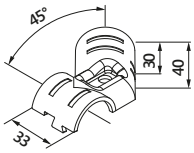
BK: 100310
Ni: 100311
WZ: 114205



Weight: 62 g
Packaging unit: 160 pcs

G-13BS Angle joint 45°, one-sided

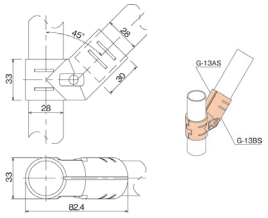
BK: 100312
Ni: 100313
WZ: 114206



Weight: 62 g
Packaging unit: 160 pcs

GA-13S Set of angle joints 45°, one-sided

BK: 100372
Ni: 100373
WZ: 114334

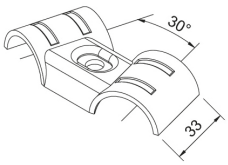


The set consists of following parts:

- 1 x G-13AS
- 1 x G-13BS
- 1 x Set M0625/TN06

G-30S Angle joint 30°, two-sided

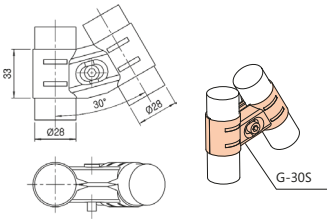
BK: 100343
Ni: 100344
WZ: 114220



Weight: 60 g
Packaging unit: 240 pcs

GA-30S Set of angle joints 30°, two-sided

BK: 109694
Ni: 109695
WZ: 114350

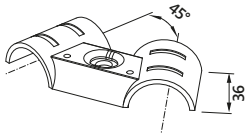


The set consists of following parts:

- 2 x G-30S
- 1 x Set M0625/TN06

G-45S Angle joint 45°, two-sided

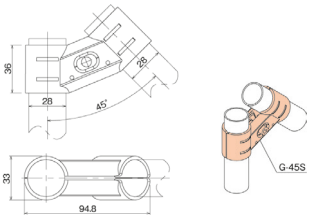
BK: 119204
Ni: 119205
WZ: 119203



Weight: 71 g
Packaging unit: 200 pcs

GA-45S Set of angle joints 45°, two-sided

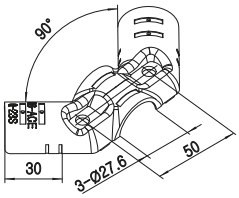
BK: 120299
Ni: 120300
WZ: 120301



The set consists of following parts:

- 2 x G-45S
- 1 x Set M0625/TN06

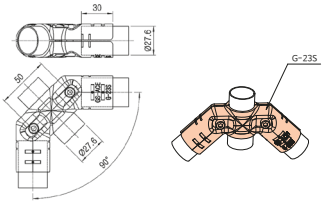
G-23S Angle joint 45°, two-sided



BK: 401220
Ni: 401221
WZ: 401219

Weight: 10 g
Packaging unit: 130 pcs

GA-23S Set of angle joints 45°, two-sided

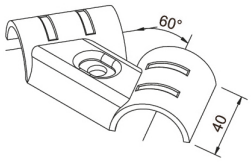


BK: 501002
Ni: 501003
WZ: 501004

The set consists of following parts:

2 x G-23S
2 x M0625, 2 x TN06

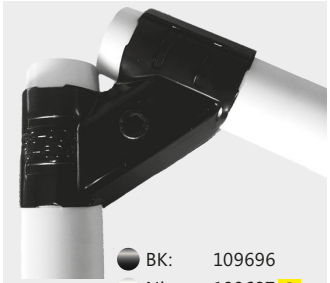
G-60S Angle joint 60°, two-sided

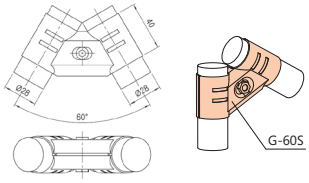


BK: 100345
Ni: 100346
WZ: 114221

Weight: 76 g
Packaging unit: 200 pcs

GA-60S Set of angle joints 60°, two-sided



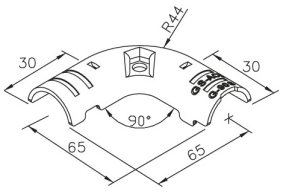


BK: 109696
Ni: 109697
WZ: 114351

The set consists of following parts:

- 2 x G-60S
- 1 x Set M0625/TN06

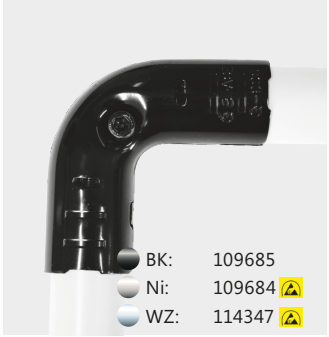
G-90S Angle joint 90°

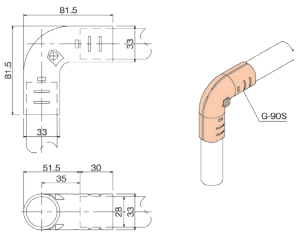


BK: 100334
Ni: 100333
WZ: 114215

Weight: 96 g
Packaging unit: 100 pcs

GA-90S Set of angle joints 90°



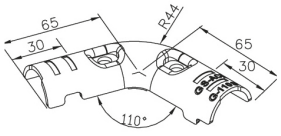


BK: 109685
Ni: 109684
WZ: 114347

The set consists of following parts:

- 2 x G-90S
- 1 x Set M0625/TN06

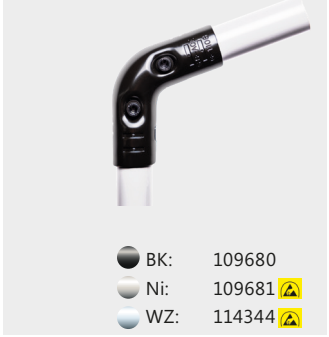
G-110S Angle joint 110°

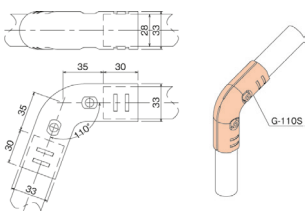


BK: 100329
Ni: 100330
WZ: 114213

Weight: 103 g
Packaging unit: 100 pcs

GA-110S Set of angle joints 110°



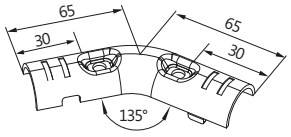


BK: 109680
Ni: 109681
WZ: 114344

The set consists of following parts:

- 2 x G-110S
- 2 x Set M0625/TN06

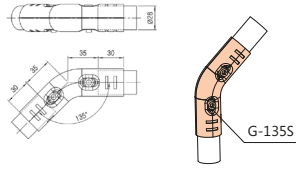
G-135S Angle joint 135°



BK: 123462
Ni: 123467
WZ: 123466

Weight: 102 g
Packaging unit: 100 pcs

GA-135S Set of angle joints 135°



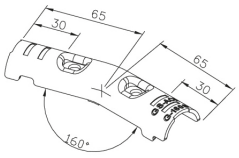
BK: 124265
Ni: 124266
WZ: 124267

The set consists of following parts:

- 2 x G-135S
- 2 x Set M0625/TN06

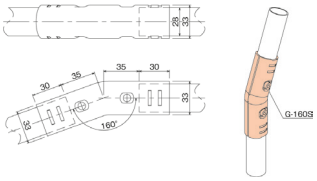
G-160S Angle joint 160°

BK: 100331
Ni: 100332
WZ: 114214



Weight: 106 g
Packaging unit: 100 pcs

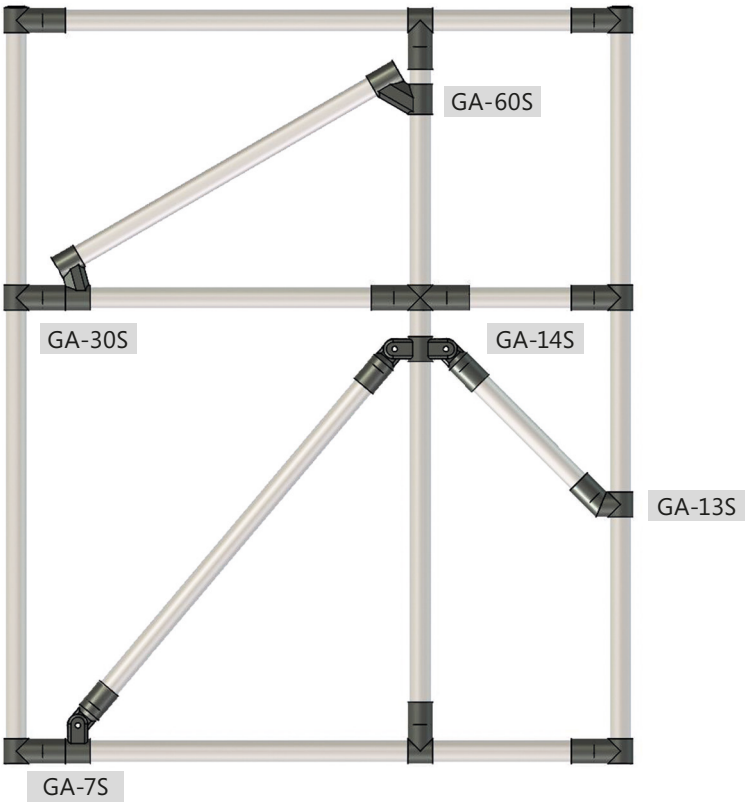
GA-160S Set of angle joints 160°

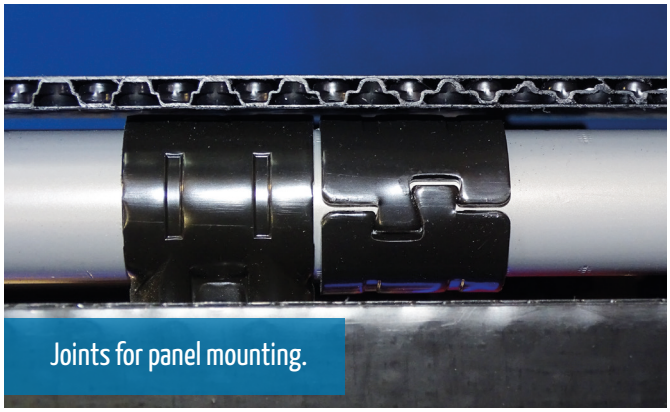


The set consists of following parts:

- 2 x G-160S
- 2 x Set M0625/TN06

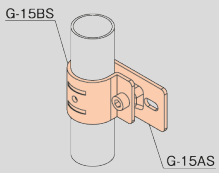
Application example for the joint sets




Joints for panel mounting.

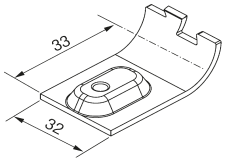
Joints for panel mounting

- With our thin-walled and the same time very strong joints you can mount all types of panels without additional height compensation
- Available in WZ / Ni / BK



G-15AC Joint for panel mounting

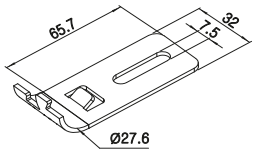
WZ: 116742



Weight: 32 g
Packaging unit: 480 pcs

G-15DL Joint for panel mounting

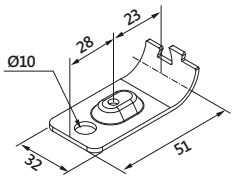
BK: 131733
Ni: 131734
WZ: 131732



Weight: 45 g
Packaging unit: 300 pcs

G-15AH Joint for panel mounting

BK: 126607
Ni: 126609
WZ: 126608

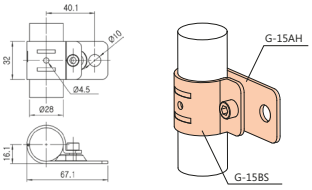


Weight: 46 g
Packaging unit: 300 pcs

GA-15AH Set of joints

BK: 126613
Ni: 126615
WZ: 126614

- For panel mounting and attachments

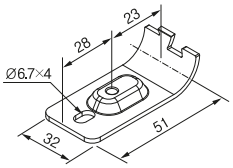


The set consists of following parts:

- 1 x G-15AH
- 1 x G-15BS
- M0610

G-15AS Joint for panel mounting

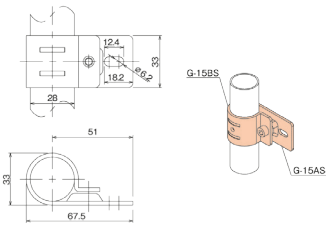
BK: 100316
Ni: 100317
WZ: 114208



Weight: 40 g
Packaging unit: 480 pcs

GA-15S Set of joints for panel mounting

BK: 100376
Ni: 100377
WZ: 114336

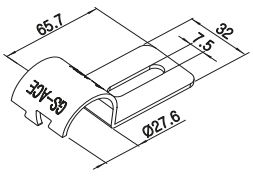


The set consists of following parts:

- 1 x G-15AS
- 1 x G-15BS
- 1 x M0610

G-15BL Joint for panel mounting

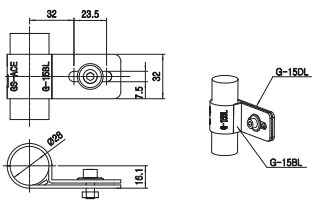
BK: 131730
Ni: 131731
WZ: 131729



Weight: 55 g
Packaging unit: 300 pcs

GA-15BDL Set of joints for panel mounting

BK: 108808
Ni: 108807
WZ: 108806

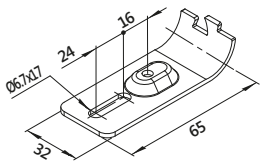


The set consists of following parts:

- 1 x G-15BL
- 1 x G-15DL

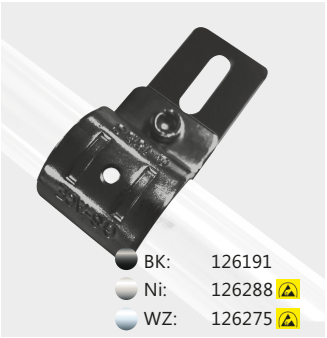
G-15D Joint for panel mounting

BK: 125271
Ni: 125293
WZ: 125292

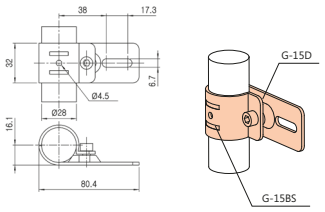


Weight: 48 g
Packaging unit: 300 pcs

GA-15D Set of joints for panel mounting



BK: 126191
Ni: 126288
WZ: 126275

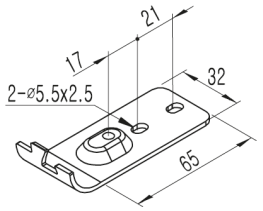


The set consists of following parts:

- 1 x G-15D
- 1 x G-15BS
- 1 x M0610

G-15G Joint for mounting hydraulic lifting sets or panels

BK: 401128
WZ: 401127

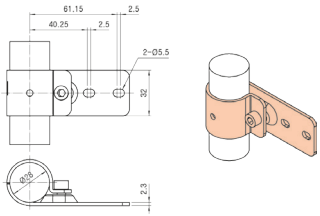


Weight: 48 g
Packaging unit: 300 pcs

GA-15G Set of joints for mounting

Adaption

BK: 501016
WZ: 501014

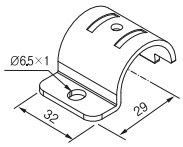


The set consists of following parts:

- 1 x G-15G
- 1 x G-15BS
- 1 x M0610

G-15BS Joint for panel mounting

BK: 100318
Ni: 100319
WZ: 114209



Weight: 37 g
Packaging unit: 480 pcs

G-16D WZ Joint for panel mounting

WZ: 402669

Weight: 44 g
Packaging unit: 300 pcs
Panel thickness: 5 mm

GA-16D WZ Set of joints for panel mounting

WZ: 501024

The set consists of following parts:

- 2 x G-16D WZ
- 1 x M0620 WZ
- 1 x M06

G-16E WZ Joint for panel mounting

WZ: 402670

Weight: 42 g
Packaging unit: 300 pcs
Panel thickness: 10 mm

GA-16E WZ Set of joints for panel mounting

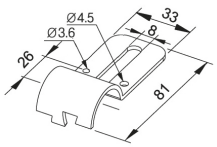
WZ: 501025

The set consists of following parts:

- 2 x G-16E WZ
- 1 x M0620 WZ
- 1 x M06

G-16S Joint for panel mounting

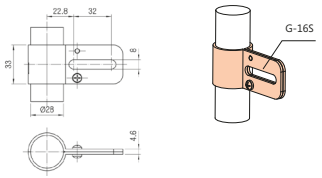
BK: 100326
Ni: 100325
WZ: 114212



Weight: 49 g
Packaging unit: 300 pcs

GA-16S Set of joints for panel mounting

BK: 100378
Ni: 100379
WZ: 114338



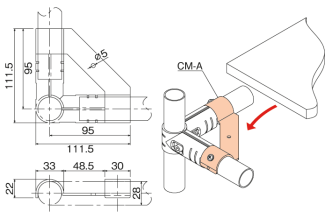
Screws for mounting must be ordered separately

The set consists of following parts:

- 2 x G-16S

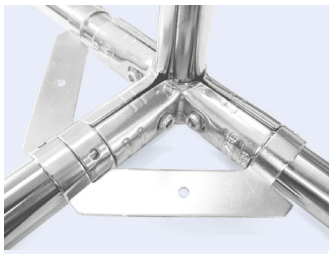
CM-A Panel holder, corner

WZ: 100015

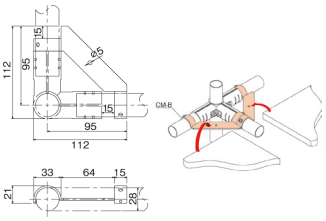


Weight: 100 g
Packaging unit: 60 pcs

CM-B Panel holder, corner

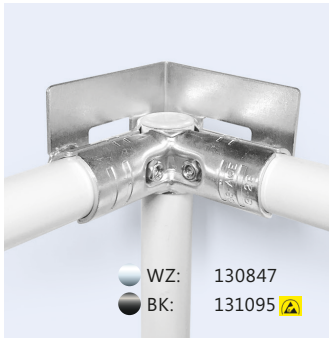


WZ: 116476

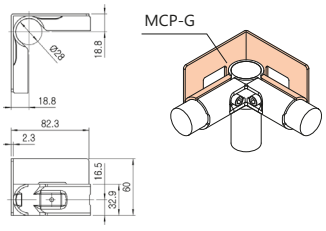


Weight: 71 g
Packaging unit: 60 pcs

MCP-G Panel holder

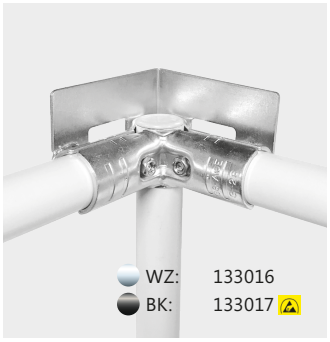


WZ: 130847
BK: 131095

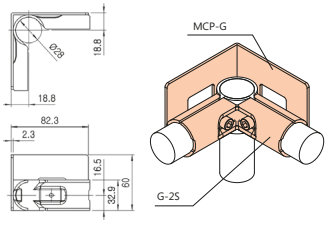


Weight: 26 g
Packaging unit: 30 pcs

MCP-G Set Set of panel holder or edge protection



WZ: 133016
BK: 133017

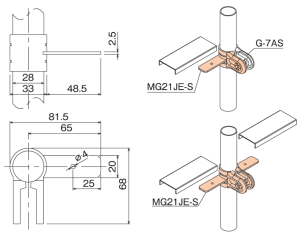


The set consists of following parts:

- 1 x MCP-G
- 1 x G-2S
- 2 x M0625
- 2 x TN06

MG21JE-S Half shell for attachment of partitions

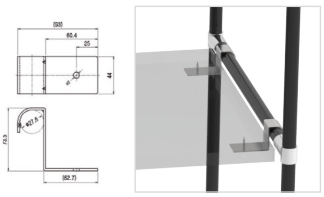
WZ: 401132



Weight: 85 g
Packaging unit: 100 pcs

GP-DNB Joint for panel mounting

WZ: 402636

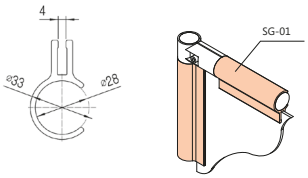


Weight: 130 g

SG-01 Clamping strip for panel material 5 mm, web centre

Grey: 403055

- Can only be used for round pipes
- with Ø28 mm

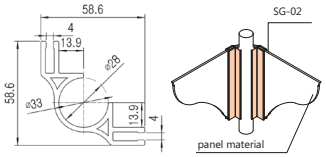


Material:	PVC
Length:	3 m
Weight:	0.45 kg/m

SG-02 Clamping strip for panel material 5 mm, web off-centre

Grey: 115554

- Can only be used for round pipes
- with Ø28 mm

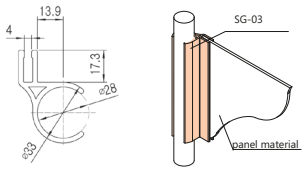


Material:	PVC
Length:	3 m
Weight:	0.74 kg/m

SG-03 Clamping strip for panel material 5 mm, web off-centre

Grey: 115928

- Can only be used for round pipes
- with Ø28 mm



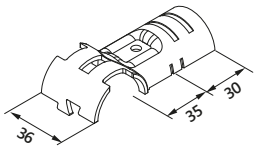
Material:	PVC
Length:	3 m
Weight:	0.49 kg/m

Rotary and sliding joints

- Enables rotary motion resp. longitudinal motion
- Foldable levels, lengthwise movable flaps or small-load-carrier rockers can be realized easily
- Available in WZ / Ni with black slide bush and electrically conductive (ESD)
- Available in BK with white slide bush and not electrically conductive

G-12S Rotary joint, one-sided

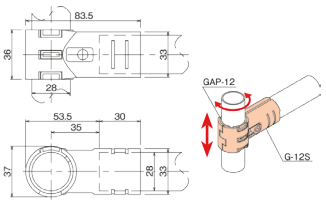
BK: 100308
Ni: 100309
WZ: 114204



Weight: 60 g
Packaging unit: 210 pcs

GA-12S Set of rotary joints

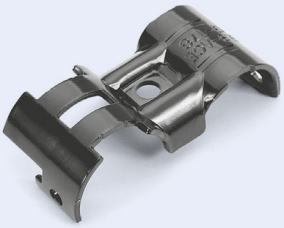
BK: 100371
Ni: 100384
WZ: 114333



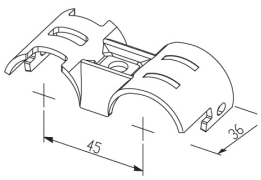
The set consists of following parts:

- 2 x G-12S
- 1 x GAP-12
- 1 x Set M0625/TN06

G-17S Rotary cross joint, one-sided

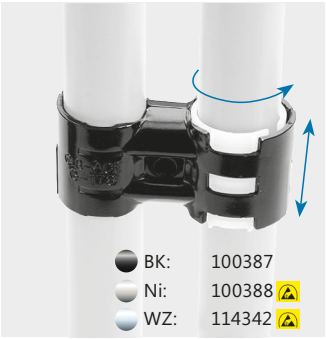


BK: 100335
Ni: 100336
WZ: 114216

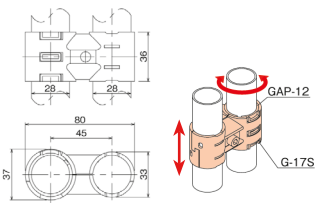


Weight: 57 g
Packaging unit: 200 pcs

GA-17S Set of rotary circulation joints, one-sided



BK: 100387
Ni: 100388
WZ: 114342

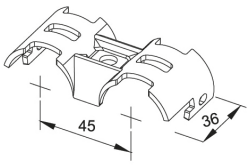


The set consists of following parts:

- 2 x G-17S
- 1 x GAP-12
- 1 x Set M0625/TN06

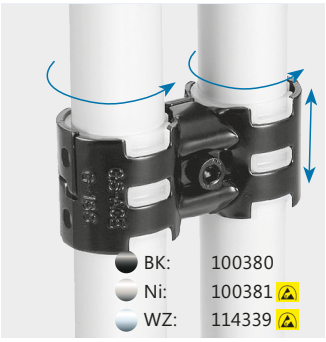
G-18S Rotary cross joint, one-sided

BK: 100321
Ni: 100322
WZ: 114210

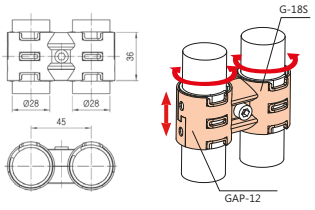


Weight: 57 g
Packaging unit: 180 pcs

GA-18S Set of rotary circulation joints, two-sided



BK: 100380
Ni: 100381
WZ: 114339

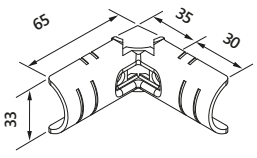


The set consists of following parts:

- 2 x G-18S
- 2 x GAP-12
- 1 x Set M0625/TN06

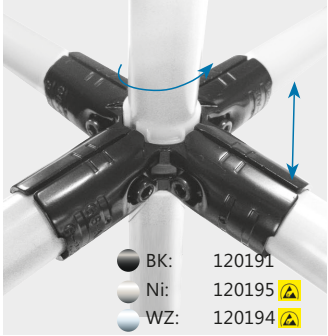
G-22S Rotary joint, one-sided

BK: 120185
Ni: 120187
WZ: 120186

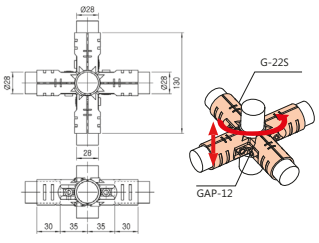


Weight: 85 g
Packaging unit: 150 pcs

GA-55S Set of rotary joints



BK: 120191
Ni: 120195
WZ: 120194

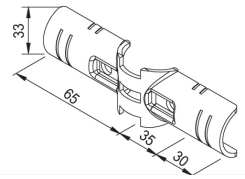


The set consists of following parts:

- 4 x G-22S
- 1 x GAP-12
- 4 x Set M0625/TN06

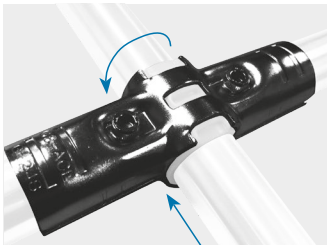
G-24S Rotary joint

BK: 100348
Ni: 100347
WZ: 114222

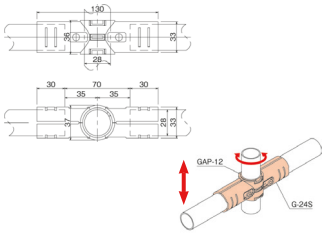


Weight: 92 g
Packaging unit: 150 pcs

GA-24S Set of rotary joints, two-sided



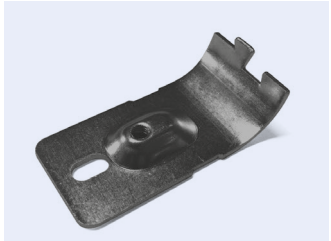
BK: 109698
Ni: 109699
WZ: 114352



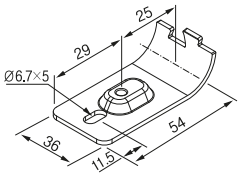
The set consists of following parts:

- 2 x G-24S
- 1 x GAP-12
- 2 x Set M0625/TN06

G-25AS Rotary circulation joint



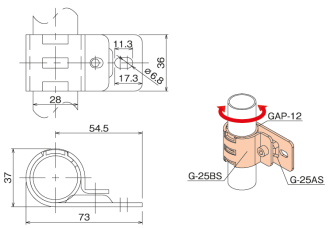
BK: 114077
Ni: 114075
WZ: 114229



Weight: 50 g
Packaging unit: 360 pcs

G-25S Set of rotary joints

BK: 114766
Ni: 114767
WZ: 115060

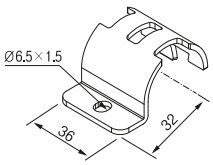


The set consists of following parts:

- 1 x G-25AS
- 1 x G-25BS
- 1 x GAP-12
- 1 x M0610

G-25BS Rotary circulation joint

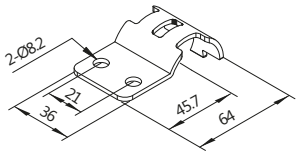
BK: 114078
Ni: 114076
WZ: 114230



Weight: 43 g
Packaging unit: 360 pcs

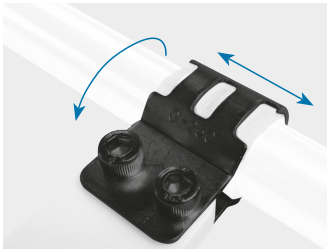
G-25C Rotary circulation joint

BK: 126189
Ni: 126286
WZ: 126273

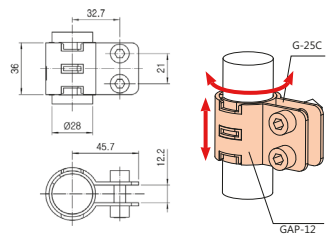


Weight: 42 g
Packaging unit: 300 pcs

GA-25C Set of rotary circulation joints



BK: 126192
Ni: 126268
WZ: 126276

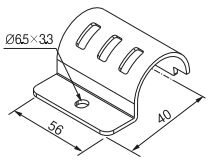


The set consists of following parts:

- 2 x G-25C
- 1 x GAP-12
- 2 x Set M0825/TN08

G-35BS Rotary circulation joint

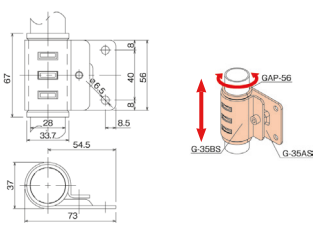
BK: 116747
Ni: 116748
WZ: 116746



Weight: 75 g
Packaging unit: 240 pcs

GA-35S Set of rotary circulation joints

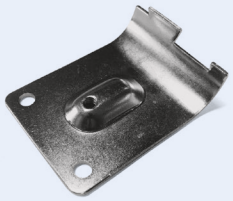
BK: 120188
Ni: 120190
WZ: 120189



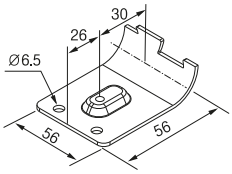
The set consists of following parts:

- 1 x G-35AS
- 1 x G-35BS
- 1 x GAP-56
- 1 x M0610

G-35AS Rotary circulation joint



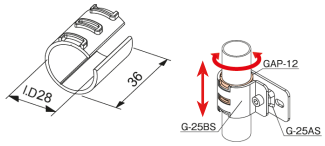
BK: 116744
Ni: 116745
WZ: 116743



Weight: 80 g
Packaging unit: 240 pcs

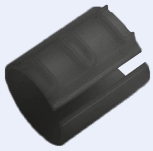
GAP-12 Slide bush

White: 100447

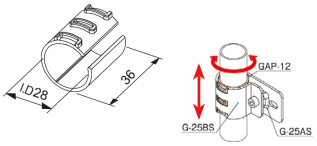


Weight: 7 g
Packaging unit: 600 pcs

GAP-12-E Slide bush (electrically conductive)



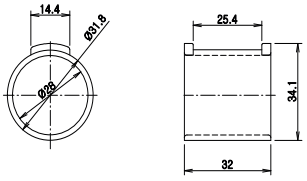
BK 100448



Weight: 7 g
Packaging unit: 600 pcs

BUSH-12 Slide bush made of metal

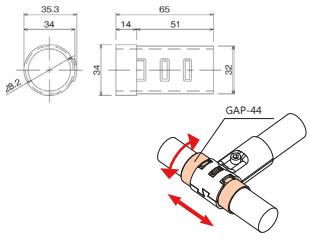
Ni: 115540



Weight: 35 g
Packaging unit: 180 pcs

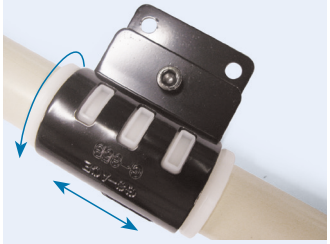
GAP-44 Pivoting joint

White: 116301

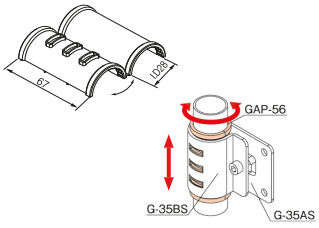


Weight: 12 g
Packaging unit: 200 pcs

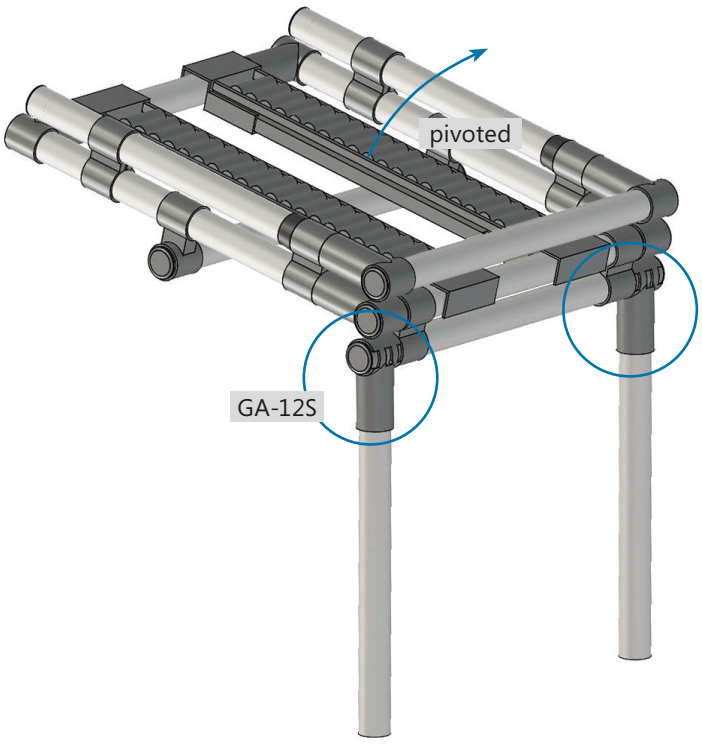
GAP-56 Pivoting joint



White: 116749

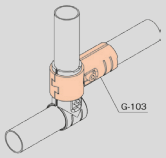


Weight: 10 g
Packaging unit: 300 pcs



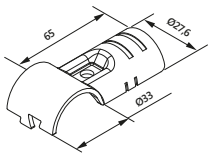
Attachment joints

- Space-saving and flexible
- Enables direct connection on the shaft of the basic joint with Ø33mm
- Available in WZ / Ni / BK



G-103 Attachment joint, one-sided

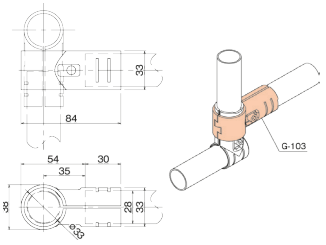
BK: 100337
Ni: 100338
WZ: 114217



Weight: 70 g
Packaging unit: 240 pcs

GA-103 Set of attachment joints, one-sided

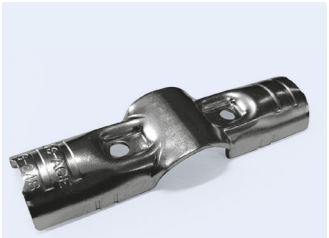
BK: 100385
Ni: 100386
WZ: 114341



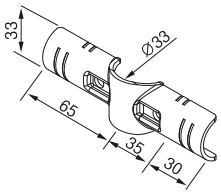
The set consists of following parts:

- 2 x G-103
- 1 x Set M0625/TN06

G-34S Attachment joint, two-sided



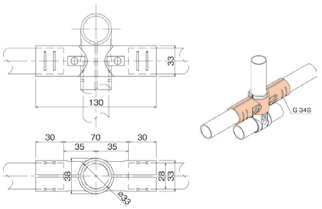
BK: 114079
Ni: 114080
WZ: 114231



Weight: 106 g
Packaging unit: 180 pcs

GA-34S Set of attachment joints, two-sided

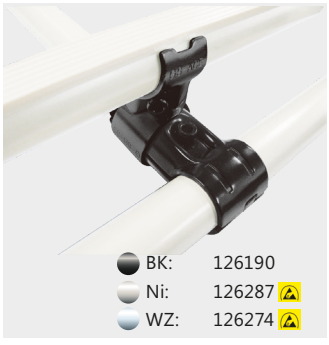
BK: 114307
Ni: 114308
WZ: 114358



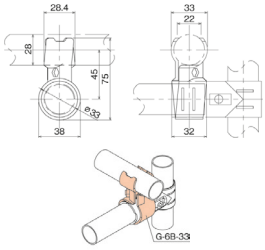
The set consists of following parts:

- 2 x G-34S
- 2 x Set M0625/TN06

GA-6B-33 Set of basic joints as a strut



BK: 126190
Ni: 126287
WZ: 126274

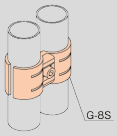


The set consists of following parts:

- 2 x G-6B-33
- 1 x Set M0625/TN06

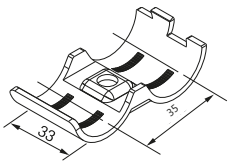
Parallel joints

- For load capacity increase or as additional attachment for labelling fields
- Available in WZ / NI / BK and with different distances



G-8S Parallel joint

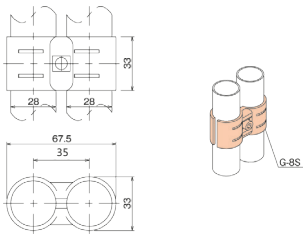
BK: 100304
Ni: 100305
WZ: 114202



Weight: 49 g
Packaging unit: 300 pcs

GA-8S Set of parallel joints

BK: 100367
Ni: 100368
WZ: 114331

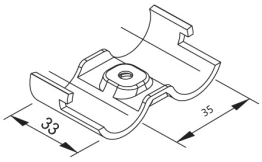


The set consists of following parts:

- 2 x G-8S
- 1 x Set M0625/TN06

G-28 Parallel joint

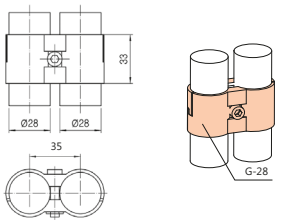
BK: 112772
Ni: 112773
WZ: 114227



Weight: 50 g
Packaging unit: 240 pcs

GA-28 Set of parallel joints

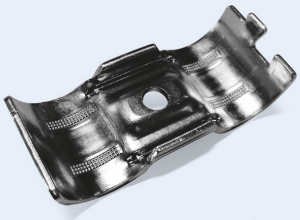
BK: 113030
Ni: 113031
WZ: 114356



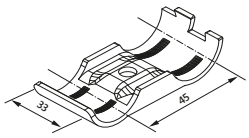
The set consists of following parts:

- 2 x G-28
- 1 x Set M0625/TN06

G-38 Parallel joint



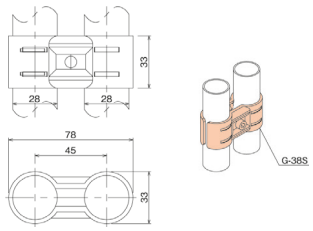
BK: 117295
Ni: 117298
WZ: 117297



Weight: 57 g
Packaging unit: 300 pcs

GA-38 Set of parallel joints

BK: 117498
Ni: 117500
WZ: 117499

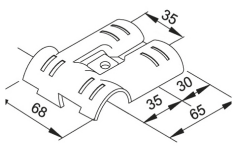


The set consists of following parts:

- 2 x G-38S
- 1 x Set M0625/TN06

G-9S Parallel joint with double connection

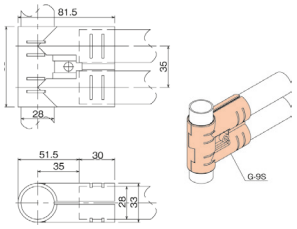
BK: 100306
Ni: 100307
WZ: 114203



Weight: 120 g
Packaging unit: 100 pcs

GA-9S Set of parallel joints with double connection

BK: 100369
Ni: 100370
WZ: 114332

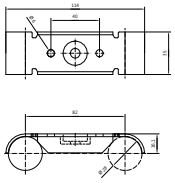


The set consists of following parts:

- 2 x G-9S
- 1 x Set M0625/TN06

CM-100 Parallel joint

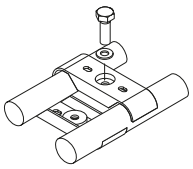
WZ: 100000



Weight: 102 g
Packaging unit: 150 pcs

BS-CM100 Set of parallel joints

WZ: 109978

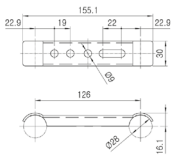


The set consists of following parts:

- 2 x CM-100
- 1 x SA0830 8.8
- 1 x US08
- 1 x MS08

CM-200 Parallel joint

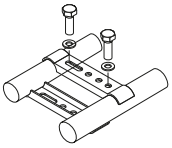
WZ: 100001



Weight: 107 g
Packaging unit: 120 pcs

BS-CM200 Set of parallel joints

WZ: 109989

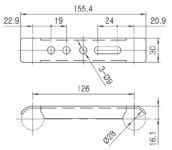


The set consists of following parts:

- 2 x CM-200
- 2 x SA0840 8.8
- 4 x US08
- 2 x MS08

CM-200K Parallel joint

WZ: 108798



Weight: 107 g
Packaging unit: 120 pcs

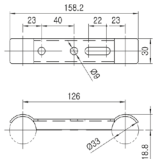
BS-CM200K Set of parallel joints

WZ: 602149

- 2 x CM-200K
- 2 x SA0845 8.8
- 4 x US08
- 2 x MS08

CM-230 Attachment joint

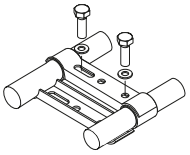
WZ: 113620



Weight: 111 g
Packaging unit: 100 pcs

BS-CM230 Set of attachment joints

WZ: 115131

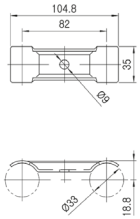


The set consists of following parts:

- 2 x CM-230
- 2 x SLI0840 10.9
- 2 x US08
- 2 x MS08

CM-300 Attachment joint

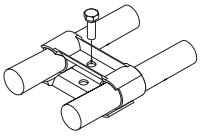
WZ: 100071



Weight: 78 g
Packaging unit: 300 pcs

BS-CM300 Set of attachment joints

WZ: 110182

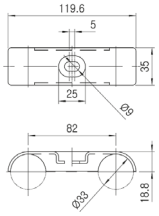


The set consists of following parts:

- 2 x CM-300
- 2 x SA0830 8.8
- 1 x US08
- 1 x MS08

CM-330 Attachment joint

WZ: 113621

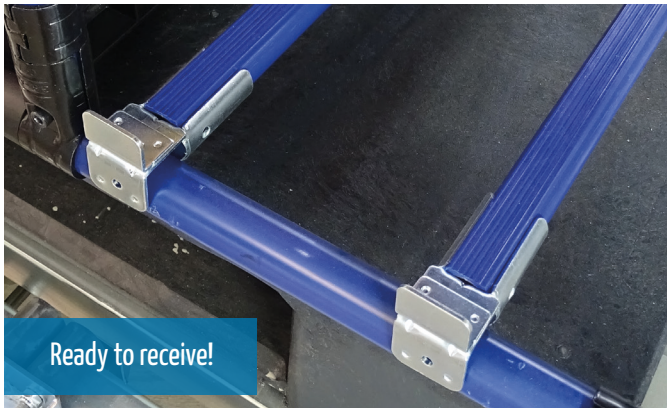


Weight: 113 g
Packaging unit: 120 pcs

BS-CM330 Set of attachment joints

WZ: 602153

- 2 x CM-330
- 1 x SA0835 8.8
- 1 x US08
- 1 x MS08

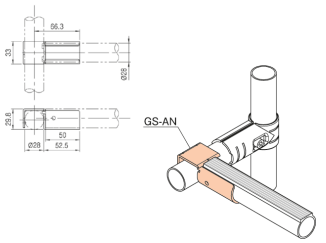


Joints for receiving round and slide pipe

- The **GS-A** guide pipe mount is mounted directly onto the **round pipe**
- The 33 variant of the GS-A, the **GS-A-33**, is mounted onto **another joint**
- Please note: The 33 variant can only be mounted onto standard pipe joints.
- Available in WZ

GS-AN Slide pipe bracket

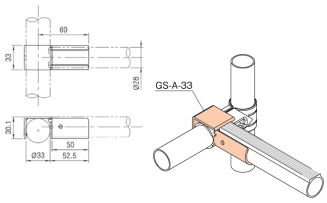
WZ: 100563



Weight: 106 g
Packaging unit: 100 pcs

GS-A-33 Slide pipe bracket

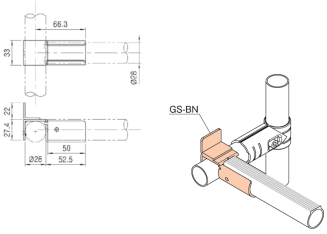
WZ: 100569



Weight: 106 g
Packaging unit: 80 pcs

GS-BN Slide pipe bracket with flat stop

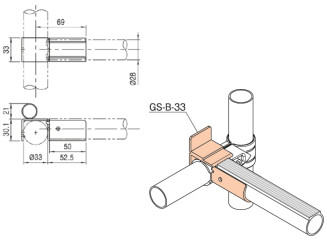
WZ: 100564



Weight: 130 g
Packaging unit: 70 pcs

GS-B-33 Slide pipe bracket with flat stop

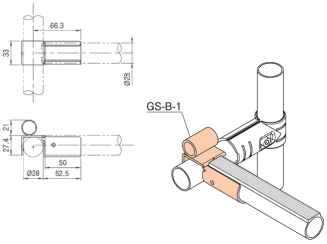
WZ: 100570



Weight: 130 g
Packaging unit: 70 pcs

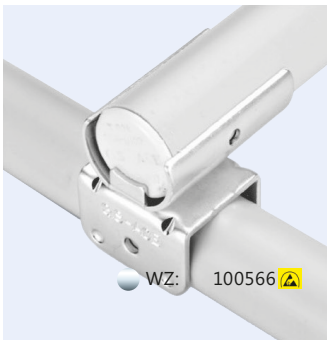
GS-B-1 Slide pipe bracket with round stop

WZ: 100565

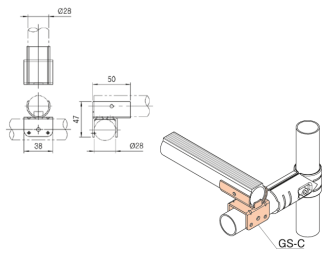


Weight: 116 g
Packaging unit: 70 pcs

GS-C Slide pipe bracket



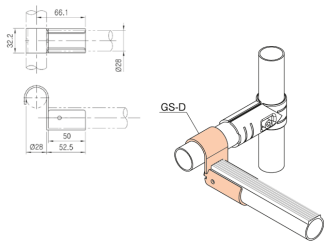
WZ: 100566



Weight: 85 g
Packaging unit: 80 pcs

GS-D Slide pipe bracket with high stop

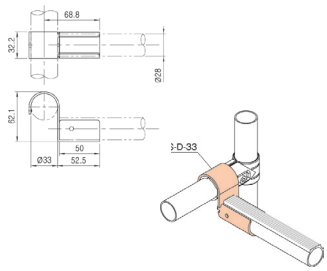
WZ: 100567



Weight: 116 g
Packaging unit: 80 pcs

GS-D-33 Slide pipe bracket with high stop

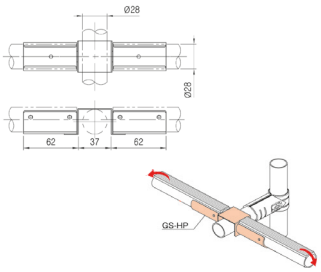
WZ: 100571



Weight: 160 g
Packaging unit: 80 pcs

GS-HP Slide pipe bracket, two-sided

WZ: 119213



Weight: 155 g
Packaging unit: 50 pcs

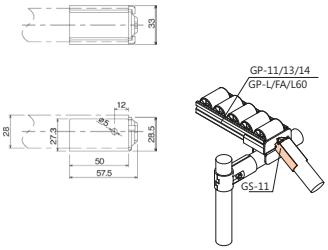
GS-HN Slide pipe bracket, two-sided

WZ: 402657

Weight: 177 g
Packaging unit: 40 pcs

GS-11 Adjustable slide pipe union

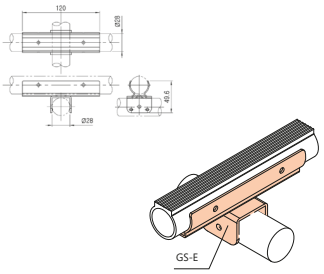
WZ: 100568



Weight: 73 g
Packaging unit: 150 pcs

GS-E Slide pipe bracket with guide bracket

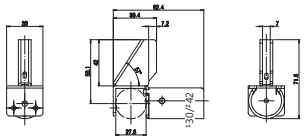
WZ: 129453



Weight: 160 g
Packaging unit: 30 pcs

GS-F Slide pipe bracket for ASG-28C

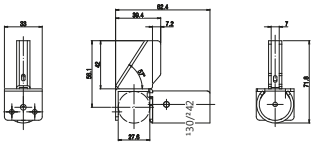
WZ: 131104



Weight: 150 g
Packaging unit: 36 pcs

GS-F40 Slide pipe bracket for ASG-28B

WZ: 131841



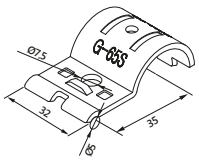
Weight: 180 g
Packaging unit: 36 pcs

Mounting brackets

- For fixing wire mesh with 5 or 10mm diameter, monitors and other items
- Available in WZ / Ni / BK

G-65S Mounting bracket for fence Ø5 mm

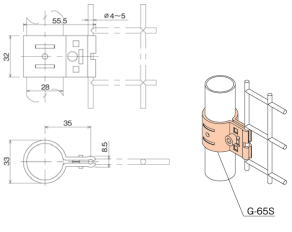
BK: 122411
WZ: 122410



Weight: 38 g
Packaging unit: 480 pcs

GA-65S Set of mounting brackets for fence Ø5 mm

BK: 122414
WZ: 122413

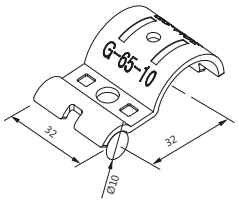


The set consists of following parts:

- 2 x G-65S
- 1 x Set M0610/TN06

G-65S-10 Mounting bracket for fence Ø10 mm

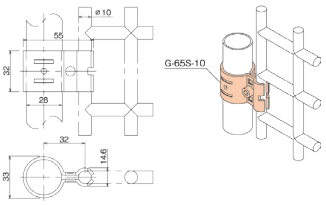
BK: 123494
Ni: 123498
WZ: 123496



Weight: 38 g
Packaging unit: 480 pcs

GA-65S-10 Set of mounting brackets for fence Ø10 mm

BK: 123505
Ni: 123507
WZ: 123506

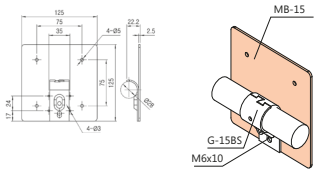


The set consists of following parts:

- 2 x G-65S-10
- 1 x Set M0610/TN06

MB-15 Monitor bracket (VESA 75x75

WZ: 126203



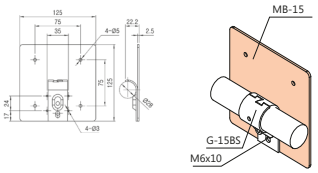
Attachment with:

- 4 x M4x10

Weight: 350 g
Packaging unit: 20 pcs

MB-15 Set Set of monitor brackets (VESA 75x75)

WZ: 133013



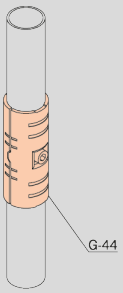
The set consists of following parts:

- 1 x MB-15
- 1 x G-15BS
- 1 x M0610
- 4 x SLK0410

Like with like. Your connecting elements for pipes.

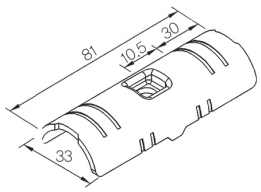
Connecting elements

- As internal and external joint
- Available in WZ / Ni / BK



G-44 Linking piece

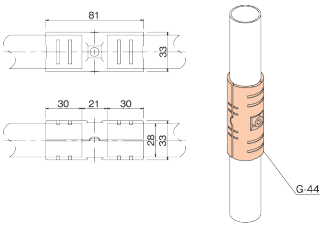
BK: 112135
Ni: 112136
WZ: 114225



Weight: 70 g
Packaging unit: 270 pcs

GA-44 Set of linking pieces

BK: 112525
Ni: 112526
WZ: 114354

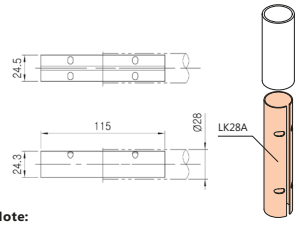


The set consists of following parts:

- 2 x G-44
- 1 x Set M0625/TN06

LK28A Pipe connection for coated pipe

WZ: 100013



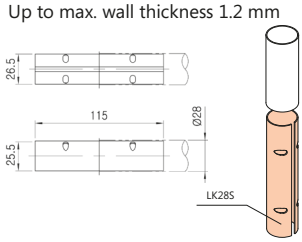
Note:
LK28A is suitable for pipes with max. 1 mm wall thickness.

Weight: 46 g
Packaging unit: 120 pcs

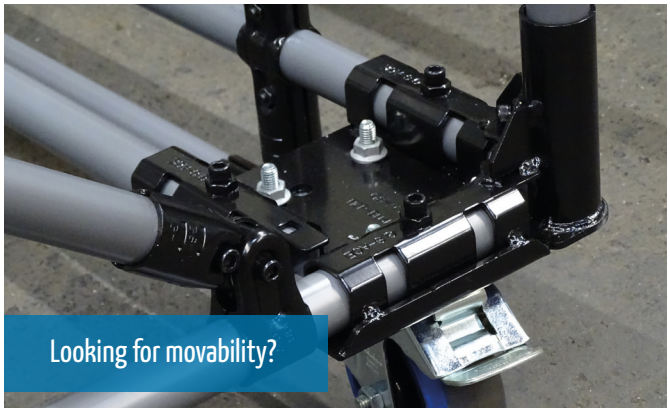
LK28S Pipe connection for SUS and ECCO-Star pipe

- Up to max. wall thickness 1.2 mm

WZ: 100014

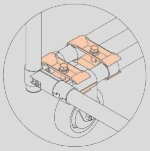


Weight: 46 g
Packaging unit: 120 pcs

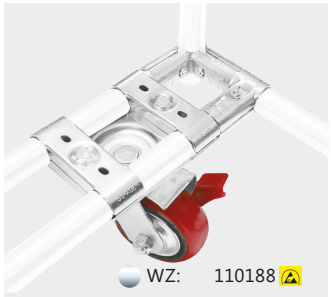


Castor mounting

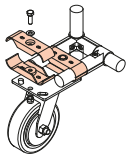
- Castor mounts for different pallet sizes and installation sites
- Available in WZ and BK
- Can be installed in two different variants depending on the application



BSR-CM100 Castor mounting set



WZ: 110188

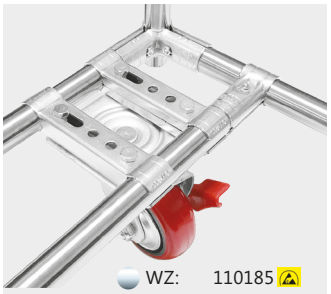


can be used for low-cost castors P503... and P504... if the clamp diameter is D28 mm for both clamps.

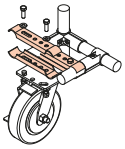
The set consists of following parts:

- 4 x CM-100
- 2 x SA0840 8.8
- 2x US08
- 2x MS08

BSR-CM200 Castor mounting set



WZ: 110185

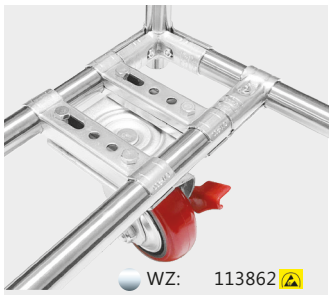


can be used for plate wheels with plate dimensions 95 x 64 mm, 114 x 102 mm and 100 x 85 mm if the clamping diameter for both clamps is D28 mm

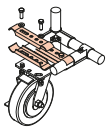
The set consists of following parts:

- 4 x CM-200
- 4 x SLI840 10.9
- 4x MS08
- 4x US08
- 4x MR08

BSR-CM200-D4 Castor mounting set



WZ: 113862

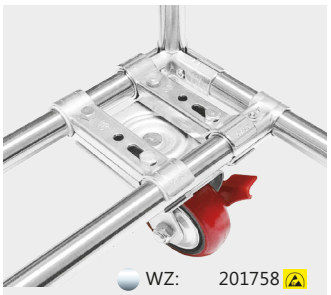


especially usable for the panel size 140 x 110 mm but also as an elevation for the middle roller in a 6-wheel solution or in combination with MCP corners. Alternative for large panels is the BSR-CM200K article (602150).

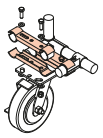
The set consists of following parts:

- 4 x CM-200
- 4 x SLI845 10.9
- 4x US08
- 4x MS08

BSR-CM200-230 Castor mounting set



WZ: 201758

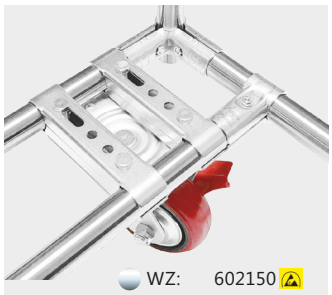


Can be used for plate wheels with plate dimensions 95 x 64 mm, 114 x 102 mm and 100 x 85 mm, if the clamp diameter is D28 mm for one clamp and D33 mm for the second clamp

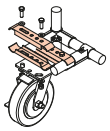
The set consists of following parts:

- 2 x CM-200
- 2 x CM-230
- 4 x SLI0840 10.9
- 4 x US08
- 4 x MS08

BSR-CM200K Castor mounting set



WZ: 602150



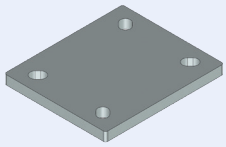
Can be used for plate wheels with plate dimensions 95 x 64 mm, 114 x 102 mm, 100 x 85 mm and 140 x 110 mm, if the clamping diameter of both clamps is D28 mm.

The set consists of following parts:

- 4 x CM-200K
- 4 x SA0850 8.8
- 4x US08
- 4x MS08

*see category "Installation supports and Castors" - "Castor variants and nomenclature"

MC-DP4M Spacing plate



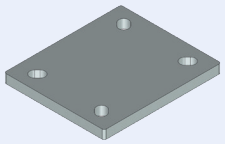
WZ: 112956

Spacing plate (4 mm) for castor AP-... with rollers mounting plate 100x85 mm.

Spacer plates are used to adjust the distance between wheel and frame accurately.

Dimensions: 100x85mm
Thickness: 4 mm

MC-DP4L Spacing plate



WZ: 122866

Spacing plate (4 mm) for castor AP-... with rollers mounting plate 140x110 mm.

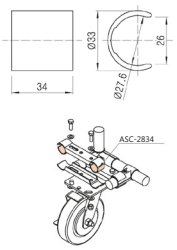
Spacer plates are used to adjust the distance between wheel and frame accurately.

Dimensions: 140x98mm
Thickness: 4 mm

ASC-2834 Adapter sleeve for castor mounting

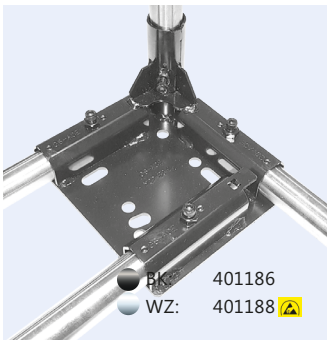
WZ: 402008

Suitable for:
- CM-230
- CM-300
- CM-330



Weight: 14 g
Packaging unit: 200 pcs

MCP-B3-L Mount corner plate, left version

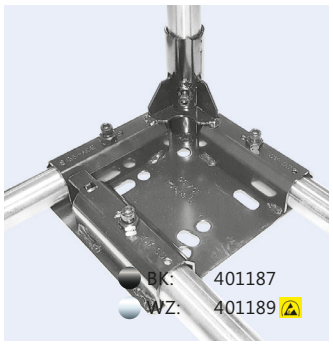


BK: 401186
WZ: 401188

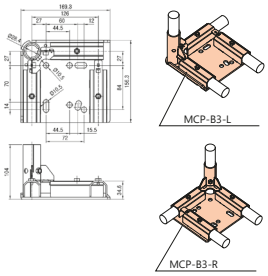
- Please note that that only castors with spacing plates up to max. 100 x 85 mm can be mounted.
- The tightening torque is max. 8Nm.

Weight: 1478 g
Packaging unit: 12 pcs

MCP-B3-R Mount corner plate, right version

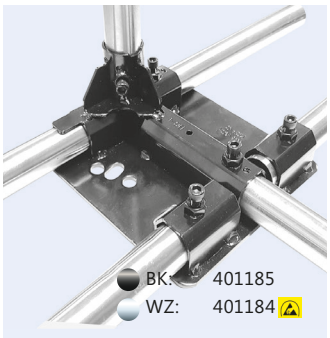


BK: 401187
WZ: 401189

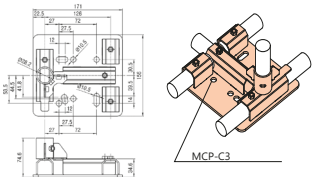


Weight: 1478 g
Packaging unit: 12 pcs

MCP-C3 Middle section

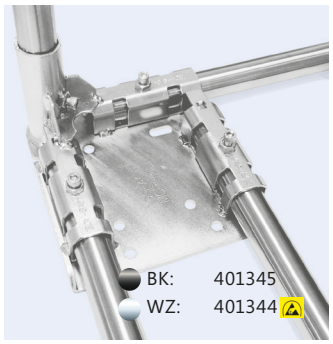


BK: 401185
WZ: 401184



Weight: 1280 g
Packaging unit: 12 pcs

MCP-HN-L Corner plate, left version

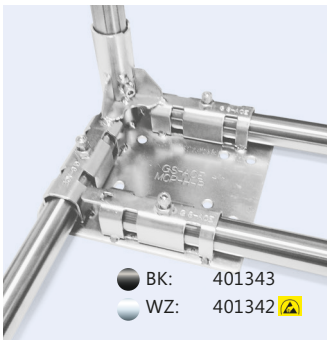


BK: 401345
WZ: 401344

- Castor-fixing corner piece for round pipe 28 mm left
- For castors with fixing plate 100x85mm and 140x110mm
- Castor mounting holes M8 bolts
- Rounded outer edge
- Vertical pipe mounting outside 33 mm

Weight: 1550 g
Packaging unit: 12 pcs

MCP-HN-R Corner plate, right version

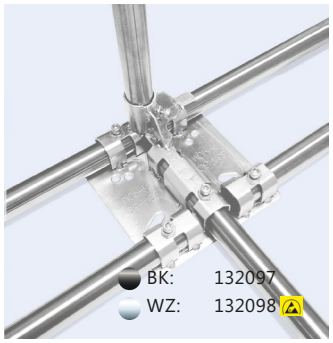


BK: 401343
WZ: 401342

- Castor-fixing middle piece for round pipe 28 mm right
- For castors with fixing plate 100x85mm and 140x110mm
- Castor mounting holes M8 bolts
- Rounded outer edge
- Vertical pipe mounting outside 33 mm

Weight: 1550 g
Packaging unit: 12 pcs

MCP-K Middle section



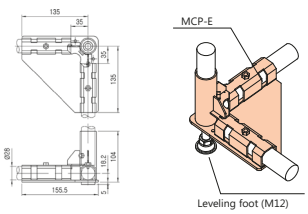
BK: 132097
WZ: 132098

- Castor-fixing corner piece for round pipe 28 mm
- For castors with fixing plate 100x85mm and 140x110mm
- Castor mounting holes M8 bolts
- Vertical pipe mounting outside 33 mm

Weight: 1550 g
Packaging unit: 12 pcs

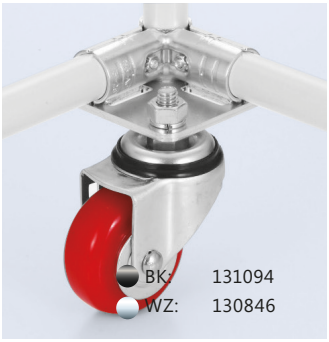
MCP-E Edge for feet

BK: 123195
WZ: 123196

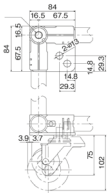


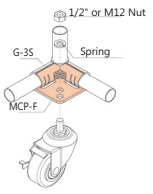
Weight: 1110 g
Packaging unit: 12 pcs

MCP-F-B Edge



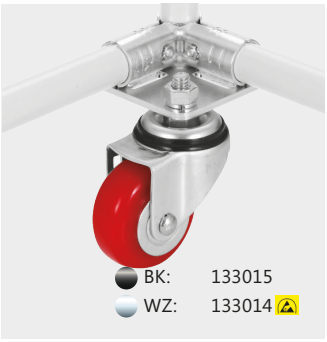
BK: 131094
WZ: 130846



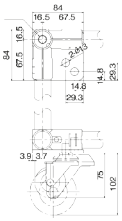


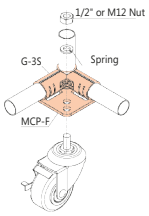
Weight: 326 g
Packaging unit: 30 pcs

MCP-F-B-Set Set of edge



BK: 133015
WZ: 133014





The set consists of following parts:

- 1 x MCP-F-B
- 1 x G-3S
- 2 x M0625
- 2 x TN06

MC-RJB Castor adjustment fixed castor

WZ: 118494

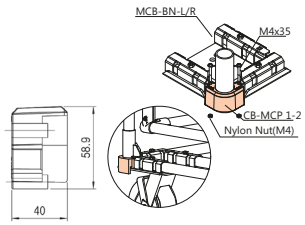
- Adjusting plate for intermediate mounting a fixed castor with bolt hole directly to the tube frame.

Weight: 41 g
Packaging unit: 1 pcs

CB-MCP 1-2 Corner bumper

Grey white: 401647

- For all MCP-B3 and -HN corner pieces

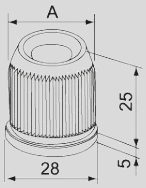


Weight: 34 g
Packaging unit: 150 pcs

Hold firm!

Drive-in sleeves

- Attachment for feet, castor and all add-ons that shall be mounted to the pipes at the front face
- Available for different pipe types and pipe inside diameters

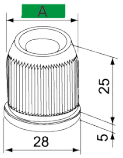


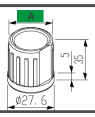
Overview - Drive-in sleeves and steel pipe

			Type	DRIVE-IN SLEEVES WITH INTERNAL THREAD					
			Name	BC2807A/B/D	BC2809A/B/D	BC2810A/B/D	BC2820A/B/D	BS07A/B/D	AS2807A/B
			Image						
			Use	Standard	Standard	Standard	Standard	Standard	Lightweight construction
			Material	Galvanised steel	Galvanised steel	Galvanised steel	Steel	Galvanised steel	Aluminium
			Internal thread	1/2" / M12 / M10	1/2" /M12 / M10	1/2" /M12 / M10	1/2" / M12 / M10	1/2" / M12 / M10	1/2" / M12
			Art. No.	100104 100105 101663	609451 609452 609453	100101 100102 100114	100107 100108 101664	100109 100110 *109723*	126211 126212
		Name	approx. wall thickness	OD* / ID*	Ø 24.1 mm	Ø 23.7 mm	Ø 23.5 mm	Ø 21.9 mm	Ø 26.4 - 26.8 mm	Ø 26.5 mm
Ø28mm | Ø32mm steel round pipe	D-Coat round and profile pipe	DP/EP2807-xx	0.7 mm	24.0 mm	X					
		DP/EP2809-xx	0.9 mm	23.6 mm		X				
		DP/EP2810-xx	1.0 mm	23.4 mm			X			
		DP/EP2820-xx	2.0 mm	21.8 mm				X		
		CS/ES2810-xx	1.0 mm	2.4 mm			X			
		LS2810-xx					X			
		CF/EF2810-xx					X			
	ECCO pipe	G/EG2807-xx	0.7 mm	26.1 mm					X	X
		G/EG2809-xx	0.9 mm	25.7 mm						
		G/EG2812-xx	1.2 mm	25.1 mm						
		G/EG2820-xx	2.0 mm	23.9 mm						
	SUS pipe	S2807-PF	0.7 mm	26.2 mm					X	X
		S2812-PF	1.2 mm	25.2 mm						

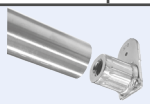
*** ID = Inner diameter pipe | OD = Outer diameter of drive-in sleeve**

Drive-in sleeves	Art. No.	Name	Pipe	Ø Pipe	inner Ø pipe	Thread	Material	Ø drive-in sleeve (A)
	402672	BS20A	D-coat pipe	28 x 0.7 mm	24.0 mm	1/2"-12N	Steel	Ø24.1 mm
	402673	BS20A				M12 x 1,75		
	402745	BS20D				M10 x 1,5		
	609451	BC2809A		28 x 0.9 mm	23.6 mm	1/2"-12N		Ø23.7 mm
	609452	BC2809B				M12 x 1,75		
	609453	BC2809D				M10 x 1,5		
	100101	BC2810A*		28 x 1.0 mm	23.4 mm	1/2"-12N		Ø23.5 mm
	100102	BC2810B*				M12 x 1,75		
	100114	BC2810D*				M10 x 1,5		
	100107	BC2820A		28 x 2,0 mm	21.8 mm	1/2"-12N		Ø21.9 mm
	100108	BC2820B				M12 x 1,75		
	101664	BC2820D				M10 x 1,5		
	100109	BS07A	ECCO-Star pipe | SUS pipe	28 x 0.7 mm	26.1 mm	1/2"-12N		Ø26.8 mm
	100110	BS07B				M12 x 1,75		
	109723	BS07D				M10 x 1,5		Ø26.3 mm
	126382	BS10A	ECCO-Star pipe	28 x 0.9 mm	25.7 mm	1/2"-12N		Ø26.1 mm
	402271	BS10B				M12 x 1,75		
	402744	BS10D				M10 x 1,5		
	100111	BS12A	ECCO-Star pipe | SUS pipe	28 x 1.2 mm	25.1 mm	1/2"-12N		Ø25.5 mm
	100112	BS12B				M12 x 1,75		
	100113	BS12D				M10 x 1,5		Ø25.3 mm
	402672	BS20A	ECCO-Star pipe	28 x 2.0 mm	23.9 mm	1/2"-12N		Ø24.1 mm
	402673	BS20B				M12 x 1,75		
	402745	BS20D				M10 x 1,5		
	126211	AS2807A	ECCO-Star pipe | SUS pipe	28 x 0.7 mm	26.1 mm	1/2"-12N	Aluminium	Ø26.5 mm
	126212	AS2807B				M12 x 1.75		
	126213	AC2809A	D-coat pipe	28 x 1.0 mm	23.4 mm	1/2"-12N		Ø23.8 mm
	126214	AC2809B				M12 x 1.75		



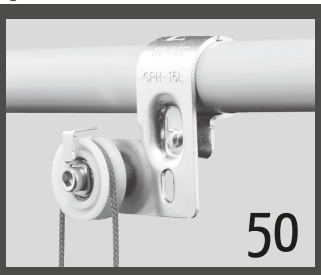


*Suitable also for aluminium pipe AL2820

DRIVE-IN SLEEVES WITH INTERNAL THREAD			DRIVE-IN SLEEVES WITH STOP					
BS10A/B/D	BS12A/B/D	BS20A/B/D	GS-2070C 0,7	GS-2070C 0,9	GS-2070C 1,0	GS-2070C 2,0	GS-2070C ES0,7	GS-2070C ES1,2
								
Standard	Standard	Standard	Special					
Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel					
1/2" / M12 / M10	1/2" / M12 / M10	1/2" / M12 / M10	-					
126382 402271 402744	100111 100112 100113	402672 402673 402745	100053	617880	100067	100068	100070	100069
Ø 26.1 mm	Ø 25.5 mm	Ø 24.1 mm	Ø 24.1 mm	Ø 23.7 mm	Ø 23.5 mm	Ø 21.9 mm	Ø 26.3 mm	Ø 25.3 mm
		X	X					
				X				
					X			
						X		
							X	
X								
	X							X
		X						
							X	
	X							X

SPACE FOR NOTES

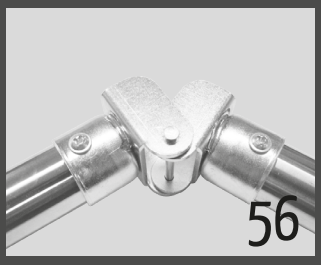
STEEL Add-on parts Ø 28 mm

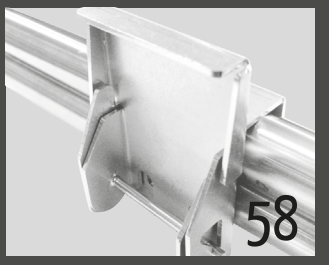
Deflection joints  50

Shooter 53

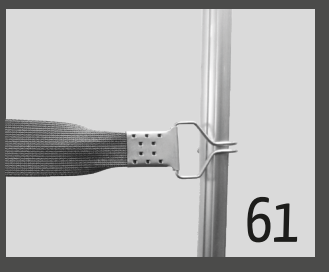
C-rail 54

Fixations 55

Further add-on parts  56

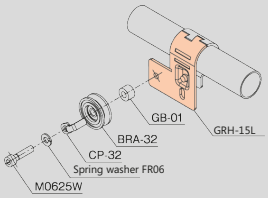
Stoppers  58

Hook with adaptation to the pipe 60

Band holder  61

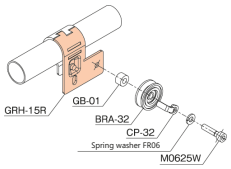
Deflection joints

- For rockers and linear lifters the rope deflection is extremely helpful
- Available in WZ



GRH-15R Deflection joint, horizontal 180°

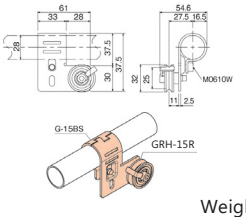
WZ: 120224



Weight: 55 g
Packaging unit: 270 pcs

GRH-15R Set Set of deflection joints

WZ: 120231



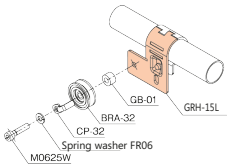
Weight: 129 g

The set consists of following parts:

- 1 x M6x10
- 1 x G-15BS
- 1 x GRH-15R
- 1 x GB-01
- 1 x BRA-32
- 1 x M6x25
- 1 x FR-06
- 1 x CP-32

GRH-15L Deflection joint, horizontal 180°

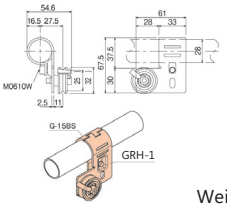
WZ: 120222



Weight: 55 g
Packaging unit: 270 pcs

GRH-15L Set Set of deflection joints

WZ: 118837



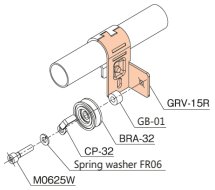
Weight: 129 g

The set consists of following parts:

- 1 x M6x10
- 1 x G-15BS
- 1 x GRH-15L
- 1 x GB-01
- 1 x BRA-32
- 1 x M6x25
- 1 x FR-06
- 1 x CP-32

GRV-15R Deflection joint

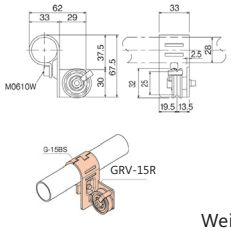
WZ: 120227



Weight: 55 g
Packaging unit: 240 pcs

GRV-15R Set Set of deflection joints

WZ: 120235



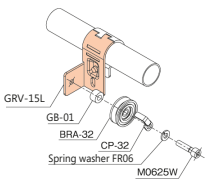
Weight: 122 g

The set consists of following parts:

- 1 x M6x10
- 1 x G-15BS
- 1 x GRV-15R
- 1 x GB-01
- 1 x BRA-32
- 1 x M6x25
- 1 x FR-06
- 1 x CP-32

GRV-15L Deflection joint

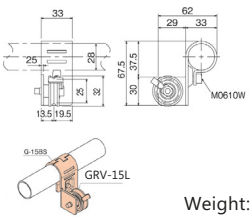
WZ: 120225



Weight: 55 g
Packaging unit: 240 pcs

GRV-15L Set Set of deflection joints

WZ: 118838



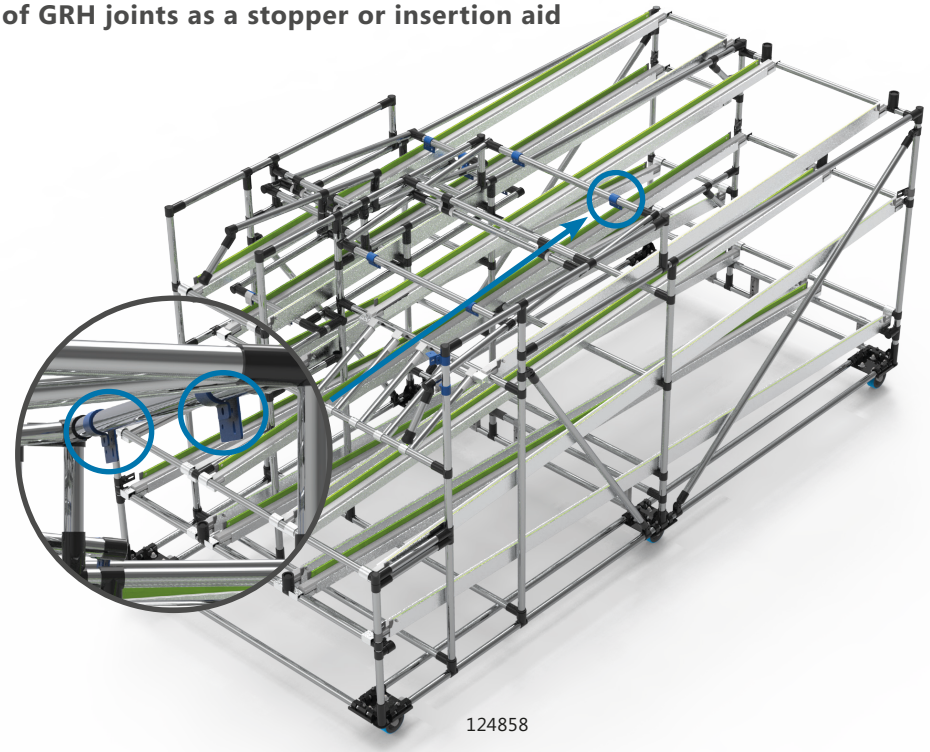
Weight: 122 g

The set consists of following parts:

- 1 x M6x10
- 1 x G-15BS
- 1 x GRV-15L
- 1 x GB-01
- 1 x BRA-32
- 1 x M6x25
- 1 x FR-06
- 1 x CP-32

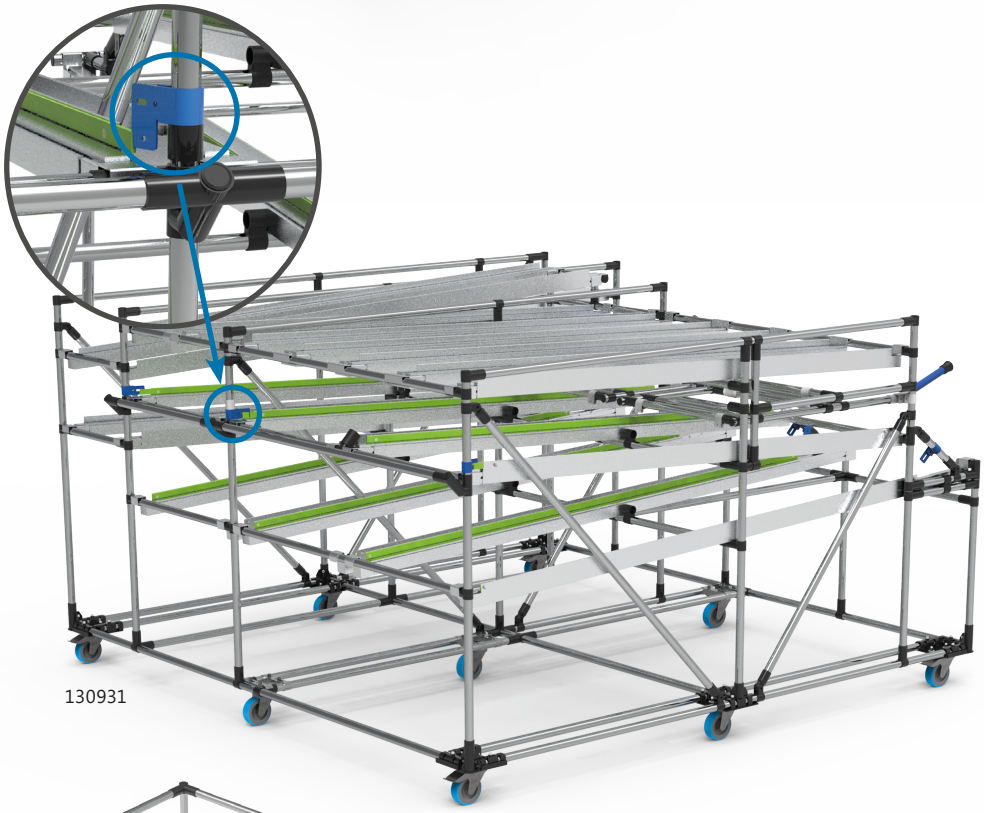
Application examples of GRH joints as a stopper or insertion aid

Here a GRH joint serves as stop to prevent the containers that follow from sliding.



124858

In this example a panel is directly attached and screwed onto the GHR joint.
No additional mounting elements are needed which saves money.



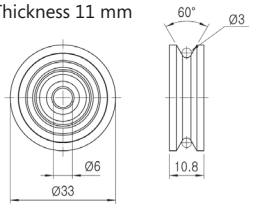
130931

In this example GHR joints serve as a lateral insertion funnel, so the insertion of the containers is facilitated.

BRA-32 Cord roller made of plastic

611553

- with ball bearing
- Diameter 32 mm
- Thickness 11 mm



Weight: 12 g
Packaging unit: 1000 pcs

ABRA-32 Cord roller made of steel

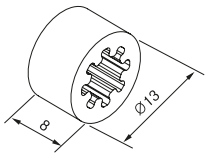
WZ: 402000

- Diameter 32 mm
- Thickness 11 mm

Weight: 21 g
Packaging unit: 500 pcs

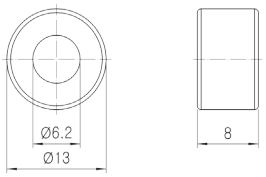
GB-01 Bushing made of plastic

White: 116445



GB-02 Bushing made of galvanised steel

118504

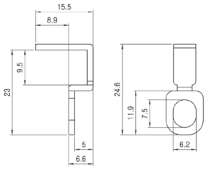


Weight: 61 g
Packaging unit: 2000 pcs

CP-32 Wire holder

118189

- Material: galvanised steel



Weight: 4 g
Packaging unit: 3000 pcs

DSSK-3 Rope thimble

118518

- Rope thimble 3 mm - DIN 6899
- Material: galvanised steel

Weight: 4 g

DSK-4 Wire rope clip

Stainless steel: 118521

- M4 wire rope clip, 3 mm Duplex
- Material: stainless steel

Weight: 61 g
Packaging unit: 2000 pcs

DSK-3 Wire rope clip

118522

- Wire rope clip, 3 mm - DIN 741
- Material: galvanised steel

Weight: 4 g
Packaging unit: 3000 pcs

DS2-5 Wire rope

118523

- Wire rope 2.5 mm
- Please specify length in metres
- Material: galvanised steel

Weight: 26 g

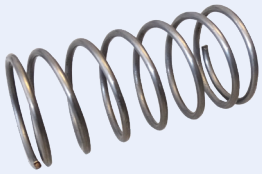
Turnbuckle M6

130652

- Turnbuckle M6
- DIN 1480 with loops
- Galvanised steel, blue passivated (A2K)
- Thread type x nominal diameter: M6
- Length: 110 mm

Weight: 10 g
Packaging unit: 200 pcs

Pressure spring



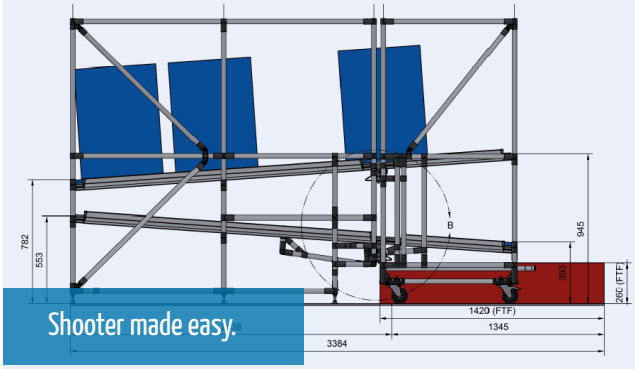
- Pressure spring for pipes

Art. no.	Length (untensioned)	Max. mandrel diameter	Spring force
117390	71.5 mm	29.3 mm	113.03 N
117523	170 mm	29.3 mm	202.87 N
117524	245 mm	29.3 mm	200.51 N

Rope drum Nylon cord 3 mm

Blue: 108760

Length: 100 mm

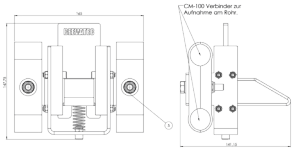


Shooter

- Shooters are constructions that mutually dock at each other (automatically or manually)
- The containers on a roller track roll independently from one rack to another

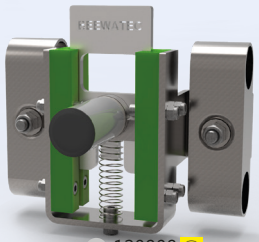
MC-SHV Front shooter

123901

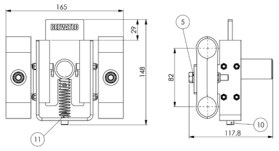


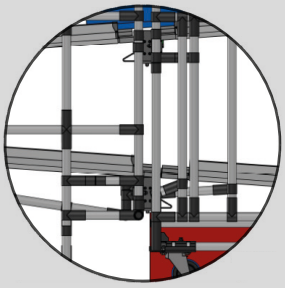
- Max. impact energy 100 N.
- Attachment to the pipe racking system with 2 pieces of CM-100
- Optional with magnets to hold the shooter position on request.

MC-SFS Lateral shooter

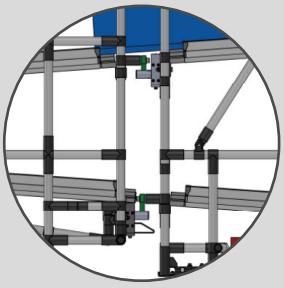


120808



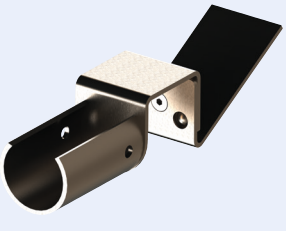


The MC-SHV is triggered by lateral drive-up to the rack. After docking the bolt is pushed down and the containers are released and move independently.

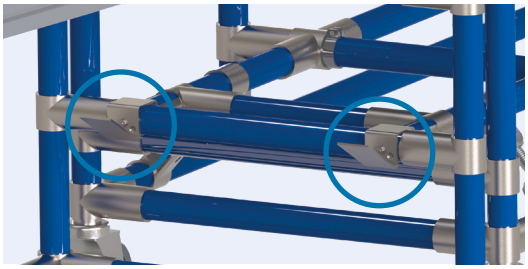


The MC-SFS is triggered by frontal drive-up to the rack. After docking the bolt is pushed down and the containers are released and move independently.

MC-SHA Shooter locking



115584



Locking via attachment joints and MC -SHA

- Prevents a trolley from rolling away during shooter operations.
- Fixing the pipe with drilling screw SB3916 possible.

BS-28 WZ Shooter locking

403332

- Single half shell
- Foldable
- For round pipe Ø28 mm
- For automatic fixing of shooter trolleys to flow racks

C-rail

Easy transportation of special parts –and all without special carriers!

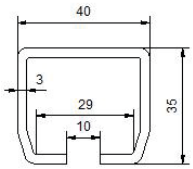
Technical data - carriage: load 50 N per carriage
Technical data - rail: load capacity for rail per metre: 625 N

Number of clamps:

- For rail length up to 1000 mm, 2 piece (filling and removal or rail locking)
- For rail length as of 1000 mm, 3 piece (filling, clamp and removal or rail locking)
- Afterwards, every 1000 mm a clamp

CS-CS 6 Running rail type D

113840



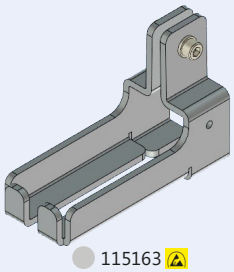
Standard length 6000 mm

CS-LW Trolley C-track

- Trolley assembled for C-track system

115160

CS-KL Fill/ removal clamp



115163

- One filling and removal clamp for C-track system.

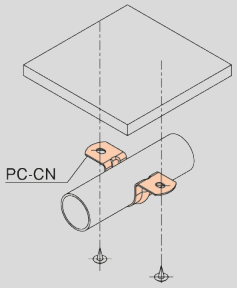
CS-KS Clamp set

- Clamp-kit for C-track system

114136

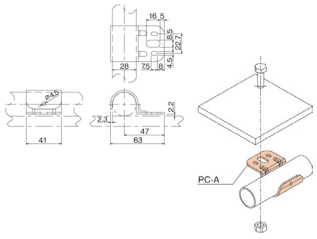
Fixations

- Available in WZ / Ni / BK



PC-A Pipe clamp, single fixing

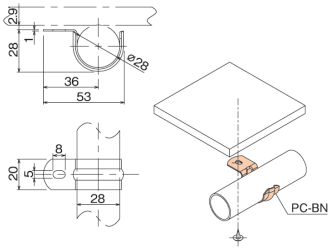
WZ: 100002



Weight: 63 g
Packaging unit: 150 pcs

PC-BN Pipe clamp, single fixing

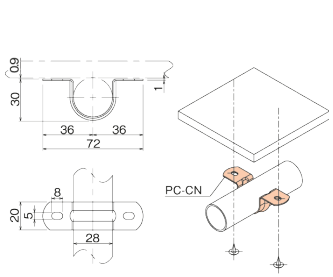
WZ: 100003



Weight: 20 g
Packaging unit: 300 pcs

PC-CN Pipe clamp, double fixing

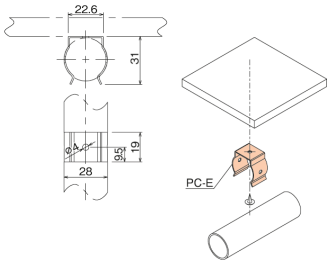
WZ: 100004



Weight: 26 g
Packaging unit: 400 pcs

PC-E Pipe clamp, double fixing possible

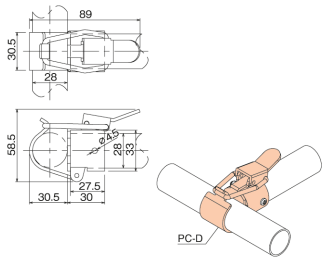
WZ: 116752



Weight: 12 g
Packaging unit: 600 pcs

PC-D Pipe lock (metal)

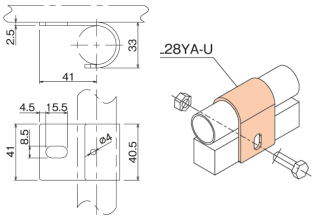
WZ: 100005



Weight: 157 g
Packaging unit: 50 pcs

BL28YA-U Suspension hook

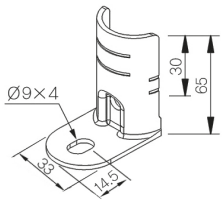
WZ: 109991



Weight: 76 g
Packaging unit: 150 pcs

G-104 Connection to flat surfaces

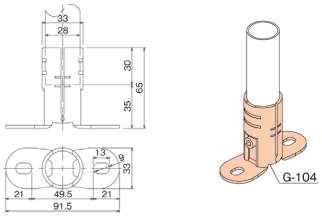
BK: 111547
Ni: 111548
WZ: 114224



Weight: 70 g
Packaging unit: 240 pcs

GA-104 Set of joints to flat surfaces

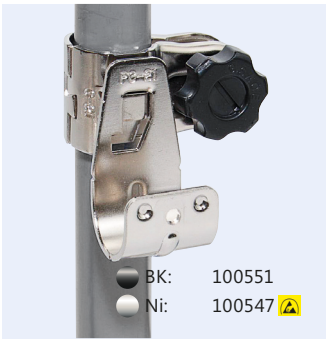
BK: 111847
Ni: 111848
WZ: 114353



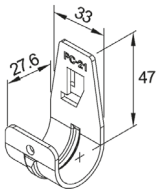
The set consists of following parts:

- 2 x G-104
- 1 x Set M0625/TN06

PC-21 Pipe hanger for GA-21A

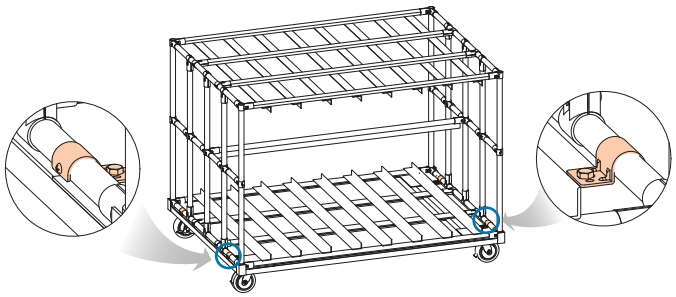


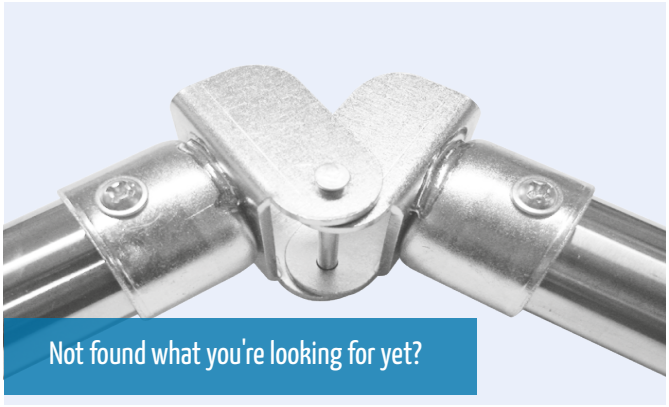
BK: 100551
Ni: 100547



Weight: 57 g
Packaging unit: 150 pcs

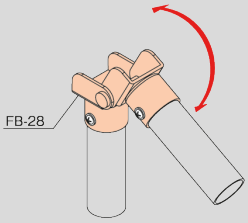
Application example PC-A





Additional add-ons

- Swivelling railings or retractable pipe supports can be created with swivel joints
- Available in WZ



Holder For attachments with M12 thread

NEW

WZ: 403409

- Holder for all attachments with M12 thread, e.g. castors and adjustable feet
- Fastening to Ø28 mm pipe with one M6 through bolt or two M8 clamping screws

Weight: 240 g

Holder For attachments with M10 thread

NEW

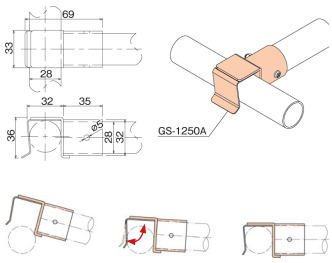
WZ: 403410

- Holder for all attachments with M10 thread, e.g. castors and adjustable feet
- Fastening to Ø28 mm pipe with one M6 through bolt or two M8 clamping screws

Weight: 230 g

GS-1250A Spring clip end piece

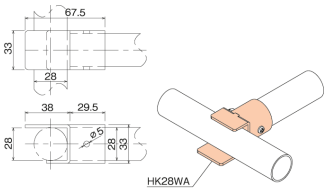
WZ: 100080



Weight: 100 g
Packaging unit: 90 pcs

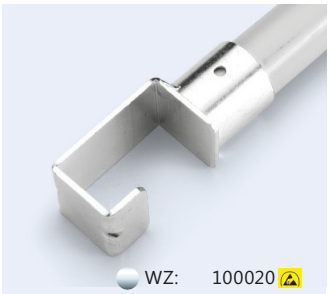
HK28WA Pipe support

WZ: 100019

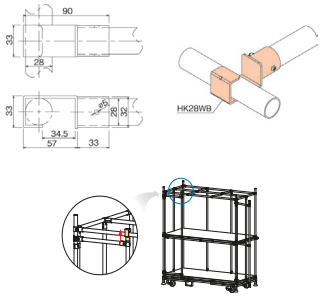


Weight: 94 g
Packaging unit: 90 pcs

HK28WB Pipe holder for mounting

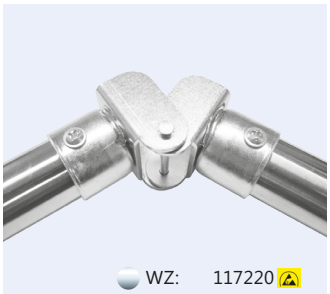


WZ: 100020

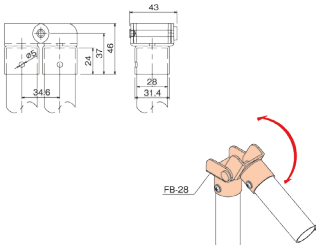


Weight: 124 g
Packaging unit: 70 pcs

FB-28 Folding clamp



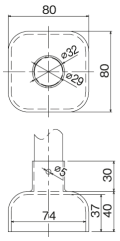
WZ: 117220

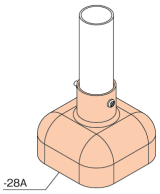


Weight: 155 g
Packaging unit: 48 pcs

HC28A Stack shoe

WZ: 100081

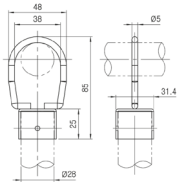


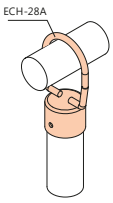


Weight: 300 g
Packaging unit: 20 pcs

ECH-28A End cap hanger

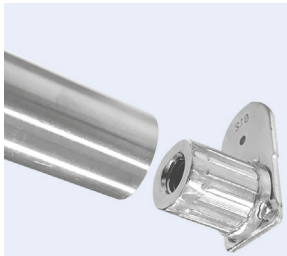
WZ: 125270

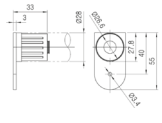




Weight: 60 g
Packaging unit: 70 pcs

GS-2070C End piece mount for round, slide and flat pipes

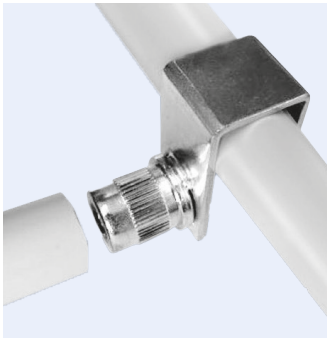


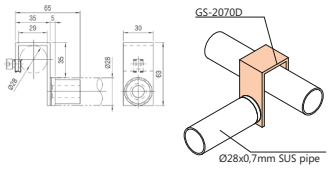


100053	GS-2070C 0,7	For pipes Ø28x0.7mm
100067	GS-2070C 1,0	For pipes Ø28x1.0mm
100068	GS-2070C 2,0	For pipes Ø28x2.0mm
100070	GS-2070C ES0,7	For SUS/ECCO-Star pipes Ø28x0.7mm
100069	GS-2070C ES1,2	For SUS/ECCO Star-pipes Ø28x1.2mm

Weight: 120 g
Packaging unit: 100 pcs

GS-2070D End piece mount for round, slide and flat pipes



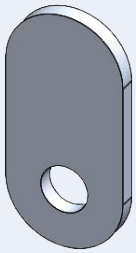


100054	GS-2070D	For pipes Ø28x0.7mm
100078	GS-2070D 1,0	For pipes Ø28x1.0mm
100086	GS-2070D ES0,7	For SUS/ECCO-Star pipes Ø28x0.7mm
100079	GS-2070D ES1,2	For SUS/ECCO-Star pipes Ø28x1.2mm

Weight: 200 g
Packaging unit: 90 pcs

Mounting end piece

NEW



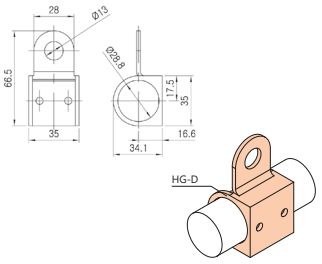
WZ: 617569

- Dimensions: 55.6 x 27.6 x 4 mm
- Material: anodised aluminium
- Suitable for: drive-in sleeve M10
- Alternative to: GS-2070C
- Required for mounting: suitable screw and threadlocker

Weight: 35 g

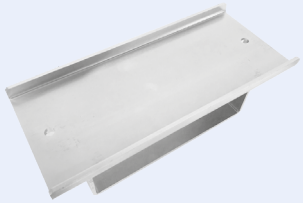
HG-D Metal hinge

WZ: 100021

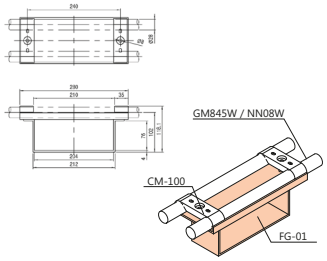


Weight: 52 g
Packaging unit: 100 pcs

FG-01 Fork guide for CM-100

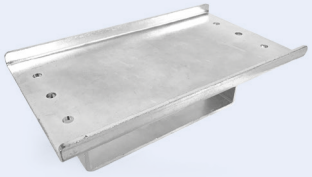


WZ: 117294

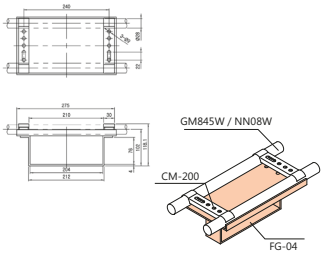


Weight: 244 g
Packaging unit: 2 pcs

FG-04 Fork guide for CM-200

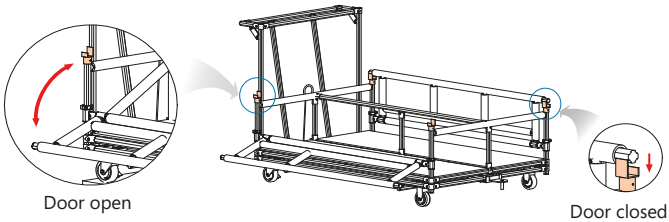


WZ: 119215

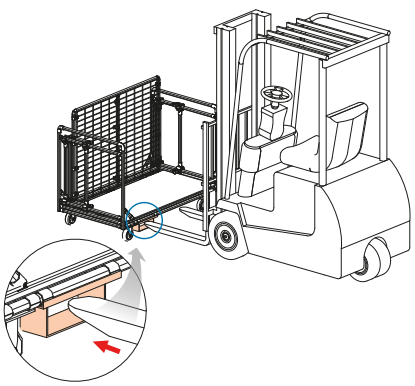


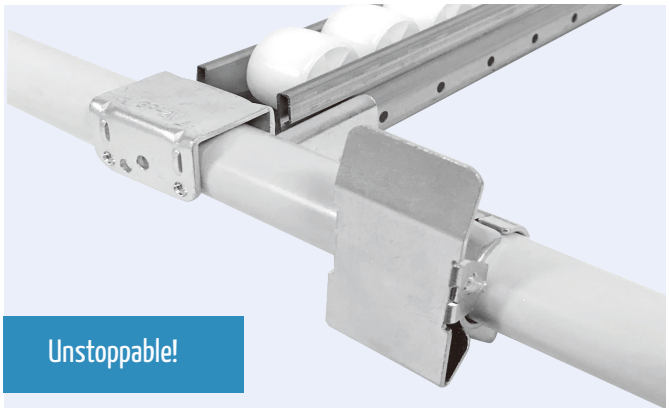
Weight: 230 g
Packaging unit: 2 pcs

Application example for pipe support HK28WA



Application example fork guide FG-04

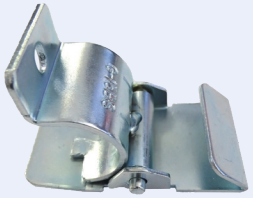




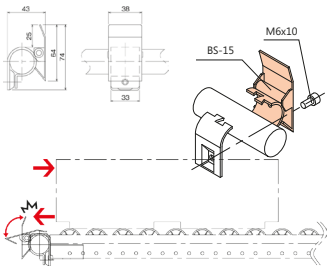
Stopper

- The various stopper versions prevent the small load carriers from rolling too far back whilst making it possible to insert them from the front
- Available in WZ

BS-15 Stopper clamp

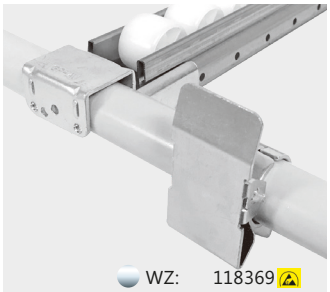


WZ: 116741

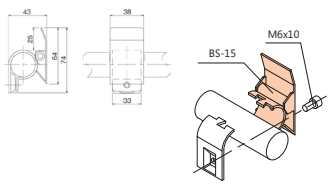


Weight: 105 g
Packaging unit: 60 pcs

GA-BS-15 Set of stopper clamp



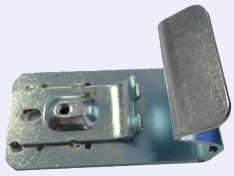
WZ: 118369



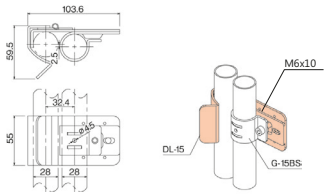
The set consists of following parts:

- 1 x BS-15
- 1 x M0610
- 1 x G-15AC

DL-15 Door bolt



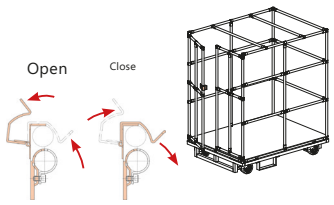
WZ: 116739



Weight: 307 g

GA-DL-15 Set of door bolt

WZ: 118368



The set consists of following parts:

- 1 x DL-15
- 1 x M0610
- 1 x G-15BS

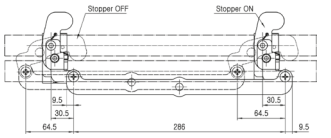
MCY-B301 One touch stopper link

WZ: 108800

Weight: 155 g
Packaging unit: 160 pcs

MCY-AB301 Set of one touch stopper

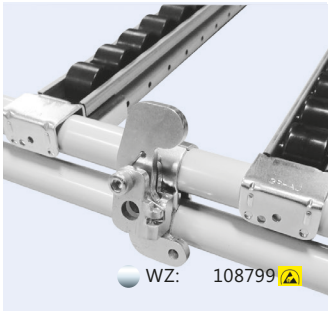
WZ: 108805



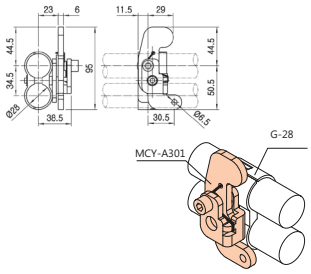
The set consists of following parts:

- 2 x MCY-A301
- 2 x BL10W
- 1 x MCY-B301
- 1 x TR0616W LP

MCY-A301 One touch stopper



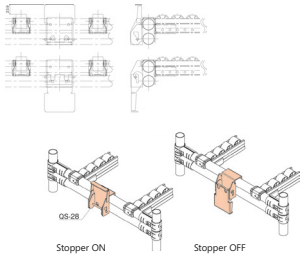
WZ: 108799



Weight: 270 g
Packaging unit: 40 pcs

QS-28 Foldable stopper by 180° for pipe 28 mm

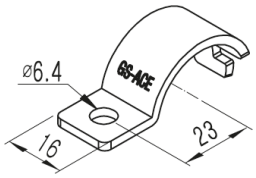
WZ: 126204



Weight: 370 g
Packaging unit: 18 pcs

G-75 A Stopper for joint, half shell above

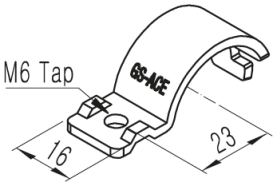
WZ: 401513



Weight: 17 g
Packaging unit: 400 pcs

G-75 B Stopper for joint, half shell below

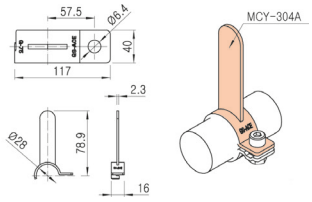
WZ: 401514



Weight: 17 g
Packaging unit: 400 pcs

MCY-304A Half shell with stopper

WZ: 401515

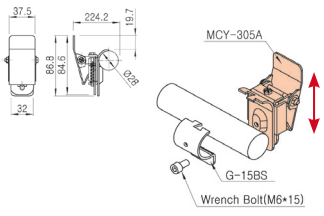


Weight: 38 g
Packaging unit: 150 pcs

MCA-305A Stopper clamp for pipe Ø28mm

WZ: 402526

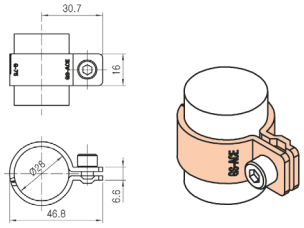
- Remote unlockable stopper e.g. with rope



Weight: 213 g
Packaging unit: 30 pcs

GA-75 WZ Set clamping ring

WZ: 501026

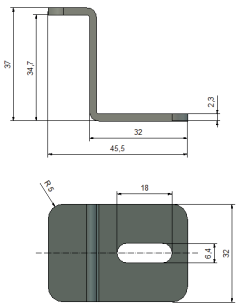


The set consists of following parts:

- 1 x G-75 A
- 1 x G-75 B
- 1 x M0610 WZ

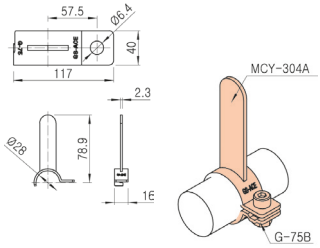
LFB-001 Mounting bracket

WZ: 133901
BK: 401009



GA-MCY-304A Set half shell with stopper

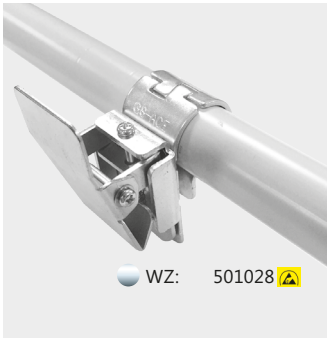
WZ: 501027



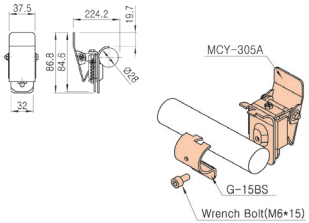
The set consists of following parts:

- 1 x MCY-304A
- 1 x G-75B WZ
- 1 x M0610 WZ

MCA-305B Set stopper clamp



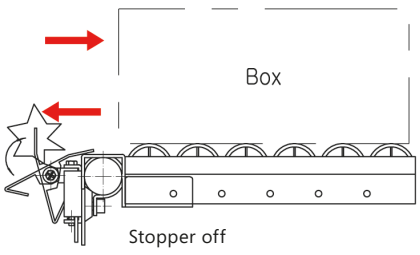
WZ: 501028

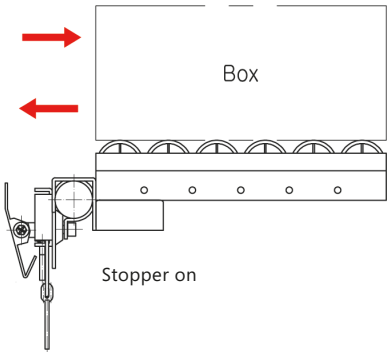


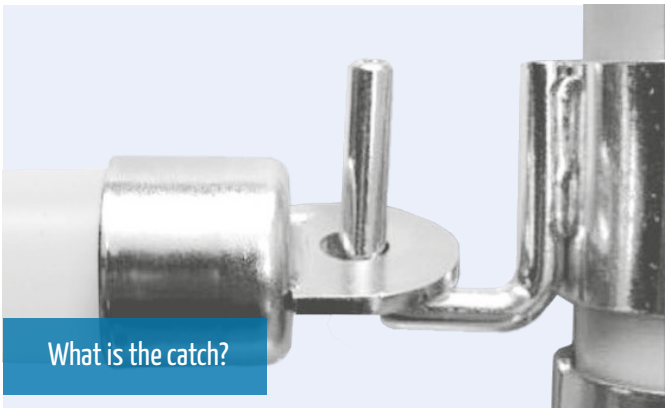
The set consists of following parts:

- 1 x MCA-305A
- 1 x G-15BS WZ
- 1 x M0610 WZ

Application example MCA-305A/B

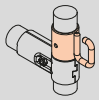






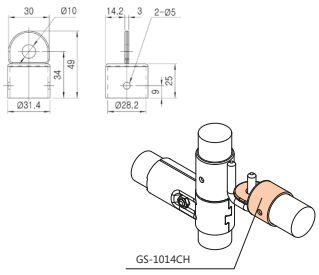
Hook with adaption to the pipe

- Hooks for fastening loops and other parts to the round pipe
- This component makes it possible to design removable assemblies, for instance
- Available in WZ / Ni / BK



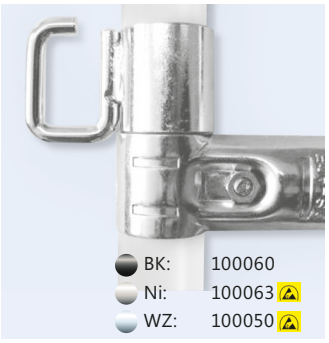
GS-1014CH End piece for mounting

WZ: 401134

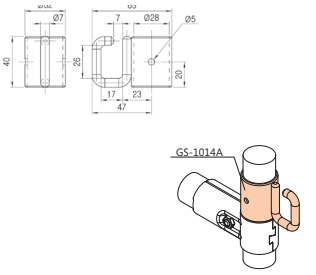


Weight: 50 g
Packaging unit: 200 pcs

GS-1014AN Hook with adaption to the pipe



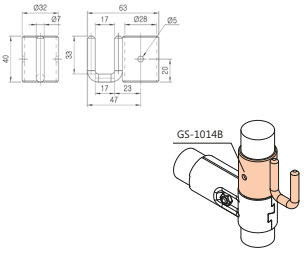
BK: 100060
Ni: 100063
WZ: 100050



Weight: 130 g
Packaging unit: 70 pcs

GS-1014BN Hook with adaption to the pipe

WZ: 401193



Weight: 130 g
Packaging unit: 170 pcs

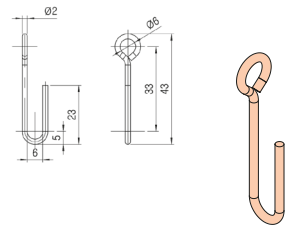
GS-1014E WZ Hook with adaption to the pipe

WZ: 402659

Weight: 100 g
Packaging unit: 70 pcs

BH-A Hook

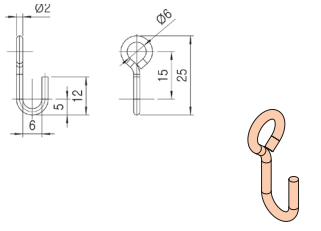
WZ: 100024



Weight: 1 g
Packaging unit: 1000 pcs

BH-B Hook

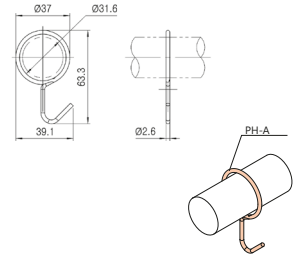
WZ: 100025



Weight: 1 g
Packaging unit: 2000 pcs

PH-A Suspension hook

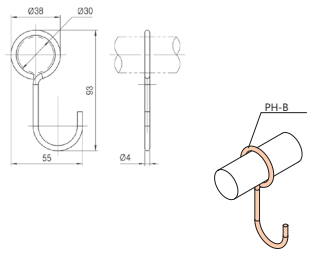
WZ: 100023



Weight: 1 g
Packaging unit: 500 pcs

PH-B Suspension hook

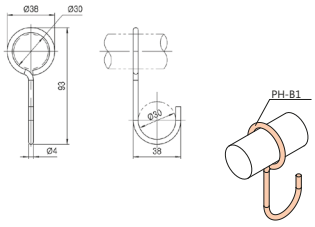
WZ: 111392



Weight: 1 g
Packaging unit: 300 pcs

PH-B1 Suspension hook

WZ: 115528

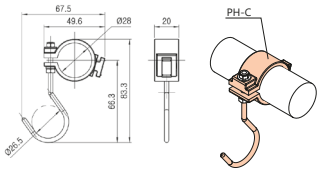


Weight: 1 g
Packaging unit: 300 pcs

PH-C Suspension hook

130848

Article consists of:
- Plastic clip grey and
- curved stainless steel pin

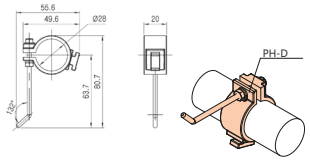


Weight: 19 g
Packaging unit: 90 pcs

PH-D Suspension hook for tool

130849

Article consists of:
- Plastic clip grey and
- straight stainless steel pin

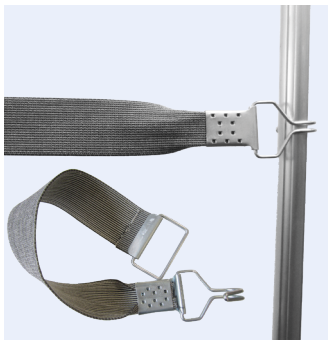


Weight: 17 g
Packaging unit: 100 pcs

Strap holders

- Belt straps and brackets for fixing parts
- Straps can also be used as simple gripping solutions
- Steel components available in WZ

Rubber band Anthracite



Art. No.	Name	Colour
115581	**Rubber band 58mm anthracite (sold by the metre)**/ „lightly" stretchable	Anthracite
115582	**Eyelet for rubber band anthracite**	WZ
115583	**Clap for rubber band anthracite**	WZ
402045	**Wire hook 35mm**	WZ

FSB Rubber belt strap

Art. No.	Name | Description
402044	**Rubber strap 35mm (sold by the metre)** for simple load securing/ „heavy" stretchable
402045	**Wire hook 35mm** for easy attachment to rubber strap
402046	**Eylet 35mm** for easy attachment to rubber strap

SPACE FOR NOTES

ALUMINIUM Ø 28 mm

PIPES

Round pipes 67
Double pipes 67
Profile pipes 68
Sliding pipes 70
Cover caps 71

JOINTS

Basic joints 74
Swivel joints 77
Angle joints 80
Joints for panel fastening 83
Swivel and sliding joints 84
Parallel joints 85
Joining elements 86
Wheel mounting elemetns 87
Drive-in sleeves 89

ADD-ON PARTS

Profiles for panel attachment 92
Profil tracks 93
Stopper 93
Profile covers 94
Further add-on parts 95

Even easier on target. Aluminium pipe racking system by G.S. ACE.

The appropriate pipe for every application. Aluminium pipes Ø28 mm by G.S. ACE.

Aluminium pipe racking system

The aluminium round pipe profile represents an ideal complement to the steel pipe racking system. The pipes are available with 28 mm diameter and thus compatible with the steel pipe racking system. You can choose from internal and external clamping joints for your joint technology.

Existing metal joint series, mounting brackets and accessories can be combined with the aluminium round pipe profiles and also be adapted with the corresponding joints to the new square profile.

Your benefits at a glance

Compatibility with the steel pipe racking system as well as adaptation to the square system possible.

Inner type aluminium joint end flush with the aluminium pipe, which is a direct lie-on possibility for panels.

High quality and beautiful surface, without glare.

Good relation of strength to weight.

Aluminum is environmentally friendly and recyclable.

With the new aluminum joint series, the possibilities are even more diverse.

Aluminium pipe racking system

BeeWaTec provides you with four different designs for aluminium pipes and profiles:

- ROUND PIPES
- SLIDE PIPES
- PROFILE PIPES
- DOUBLE PIPES

The pipes and profiles have one thing in common: a basic diameter of 28mm.

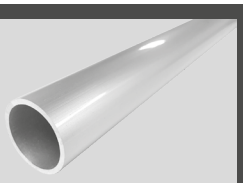
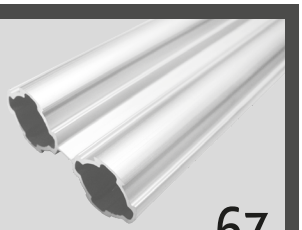
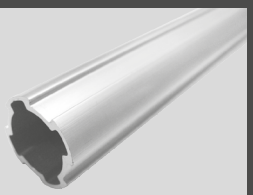
Thanks to a wide range of wall strengths and load capacities, there are numerous opportunities, depending on application and customer requirements.

Easy to construct, universally adaptable:

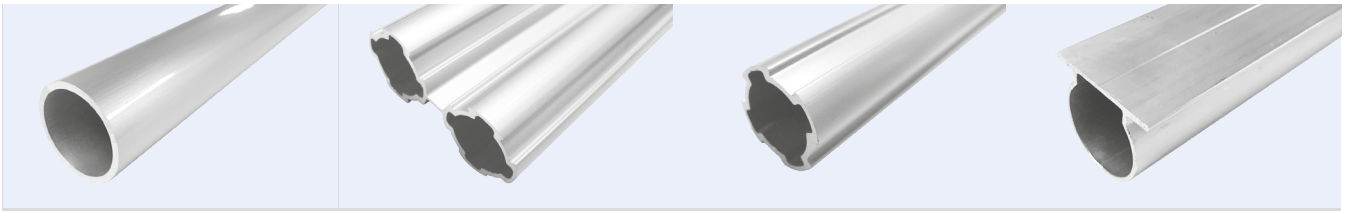
Simply saw the pipes to the required length and add the corresponding joint. The pipes can quickly be shortened and re-assembled should workflows or parts change.

Economic solutions for state-of-the-art production requirements can thus be created in no time

ALUMINIUM pipes Ø 28 mm

Round pipes	 67	Double pipes	 67
Profile pipes	 68	Sliding pipes	70
Cover caps	71		

Overview aluminium pipes



Round pipes

- Aluminium round pipe for lightweight constructions and live assemblies
- Appealing looks
- Available with various wall strengths and load capacities
- Adaption to all steel pipes possible.

Double pipes

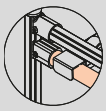
- Aluminium double pipes for wide spans and great loads
- Available with various wall strengths and load capacities
- Mountable with:
  Steel joint: G(A)-9S
  Aluminium joint: A(A)-009

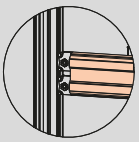
Profile pipes

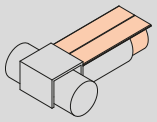
- Aluminium profile pipe for creating simple angled constructions
- Available with various wall strengths and load capacities
- Also available as a heavy load version

Slide pipes

- Slide pipes made of aluminium, for holding components







Round pipes		Double pipes		Profile pipes		Slide pipes	
		Standard	Heavy double	Standard	Heavy double		
125274 | AL2818	124797 | AR2812	126929 | AD2812	128273 | AD2812H	126927 | AP2812	130804 | AP2812H	119039 | ALS2812	119041 | ACF2812
403447 | AL2812			126018 | AD2829	126928 | AP2820			117691 | AFS2812
	126021 | AR2829			125253 | AP2829			
				126022 | AT2829			
				130801 | AGP-28A			
				401497 | AGP-28B			
				401678 | ASGP-08			
				126930 | ATF2812			
				126020 | ALF2812			
				401069 | AQ2812			
				403194 | AP2812R			

ORDERING INFORMATION

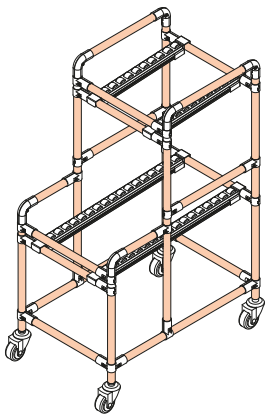
- ***Legend:***

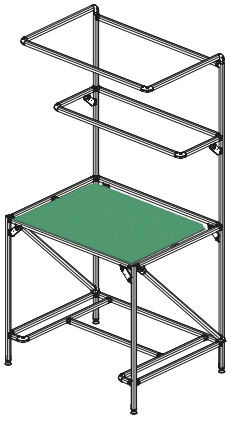
Article number | Name
125274 | AL2818

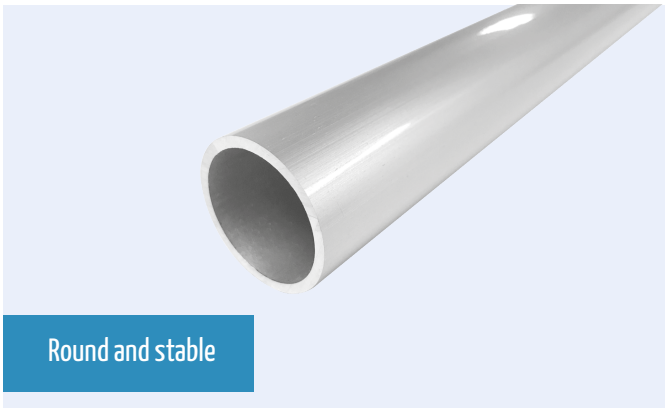
- **Standard pipes Ø28 x 1.8 mm** *means 28 mm pipe diameter and 1.8 mm wall thickness.*
- *Reference is made in the following pages to a simplified Ø 28 mm; the exact diameter is 27.6 +0.15/–0.10 mm.*
- ***Warehouse status***

Priority	available on request

  „Priority goods" can be supplied immediately; in the case of "on request" product delivery times of around 6 – 8 weeks should be reckoned with.
- ***Standard pipe length:***
  4 m; shorter pipe lengths on application.
- *The colours shown may vary from the actual ones due to printing limitations*





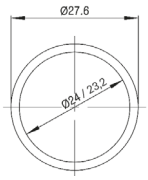


Round and stable

Round pipes

- Various aluminium round pipes
- Surface natural anodised

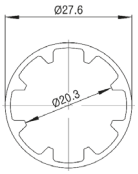
AL2818 Round pipe



Aluminium: 125274

Wall thickness: 1,8 mm
Weight: 0,394 kg/m
Length: 4 m

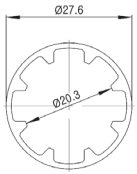
AR2812 Round pipe



Aluminium: 124797

Wall thickness: 1,2 mm
Weight: 0,379 kg/m
Length: 4 m

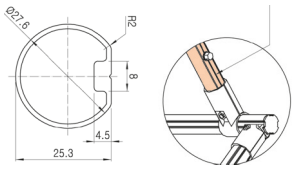
AR2829 Round pipe, heavy double



Aluminium: 126021

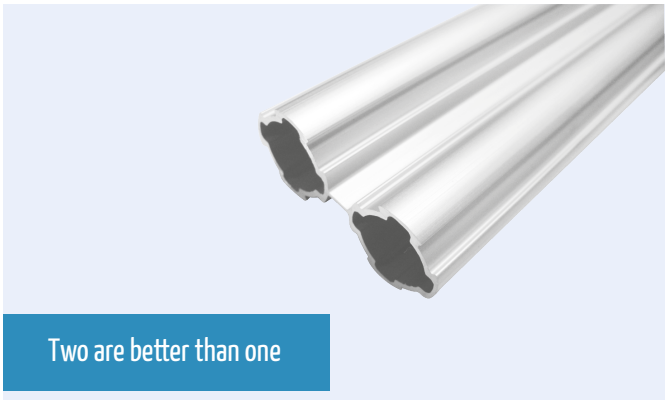
Wall thickness: 2,0 mm
Weight: 0,496 kg/m
Length: 4 m

AL2812 Round pipe



Aluminium: 403447

Weight: 0,327 kg/m
Length: 4 m

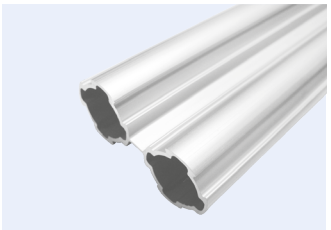


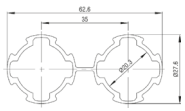
Two are better than one

Double pipes

- Double pipes made of aluminium for high loads
- Surface natural anodised

AD2812 Double pipe

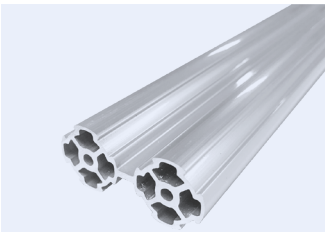


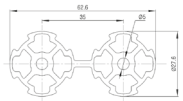


Aluminium: 126929

Wall thickness: 1,0 mm
Weight: 0,761 kg/m
Length: 4 m

AD2812H Double pipe, heavy double

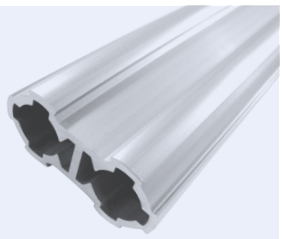


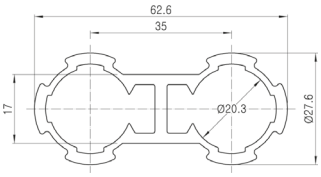


Aluminium: 128273

Wall thickness: 1,2 mm
Weight: 1,372 kg/m
Length: 4 m

AD2829 Double pipe, heavy double





Aluminium: 126018

Weight: 1,148 kg/m
Length: 4 m

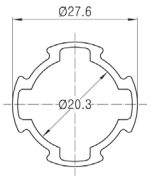
Pipes with profile

Profile pipes

- Aluminium profile pipes, extremely flexible and versatile

AP2812 Profile pipe

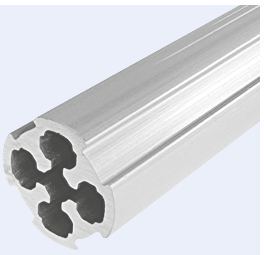
- Load capacity: light



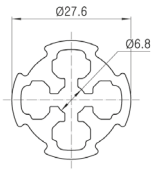
Aluminium: 126927

Wall thickness: 1,2 mm
Weight: 0,380 kg/m
Length: 4 m

AP2812H Profile pipe, heavy double



- Load capacity: heavy

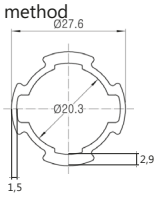


Aluminium: 130804

Wall thickness: 2,2 mm
Weight: 0,741 kg/m
Length: 4 m

AP2820 Profile pipe

- Load capacity: light/medium
- Wall thicknesses vary, the load-bearing capacity is different epending on the installation method

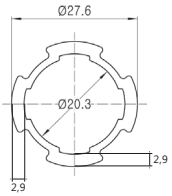


Aluminium: 126928

Wall thickness: 1,5/2,9 mm
Weight: 0,450 g/m
Length: 4 m

AP2829 Profile pipe

- Load capacity: medium

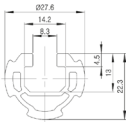


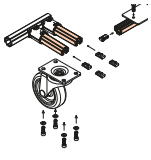
Aluminium: 125253

Wall thickness: 2,9 mm
Weight: 0,500 kg/m
Length: 4 m

AT2829 One slot pipe

Aluminium: 126022

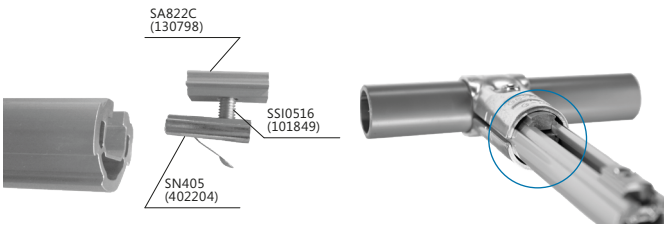




T-slot nuts (with thread) can be fitted in the groove to connect different components.
Slots simplify the creation of linear connections/ movements

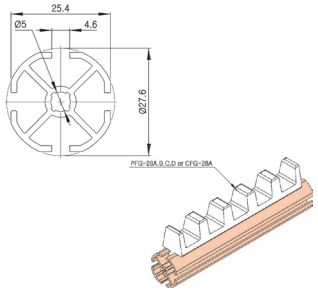
Weight: 0,605 kg/m
Length: 4 m

The following structure can be used to ensure secure clamping in a steel joint:



AGP-28A Four slot pipe

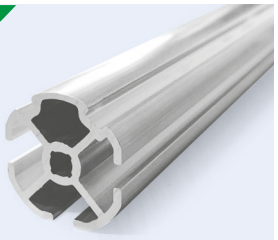
Aluminium: 130801



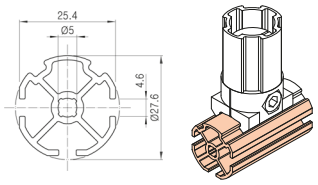
Weight: 0,479 kg/m
Length: 4 m

AGP-28B Three slot pipe

NEW



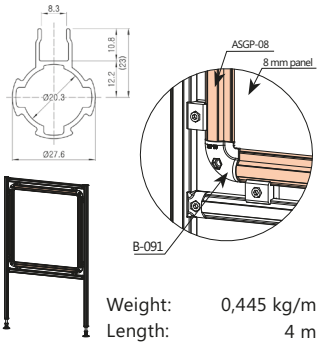
Aluminium: 401497



Weight: 0,499 g/m
Length: 4 m

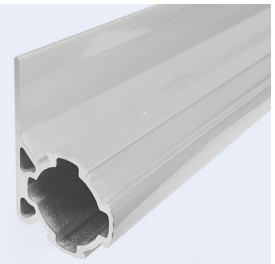
ASGP-08 Panel profile pipe (up to 8 mm)

Aluminium: 401678

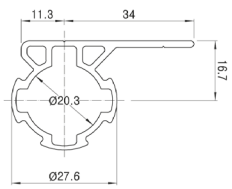


Weight: 0,445 kg/m
Length: 4 m

ALF2812 Profile pipe



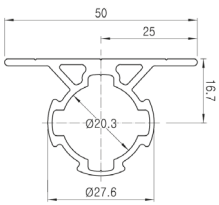
Aluminium: 126020



Weight: 0,638 kg/m
Length: 4 m

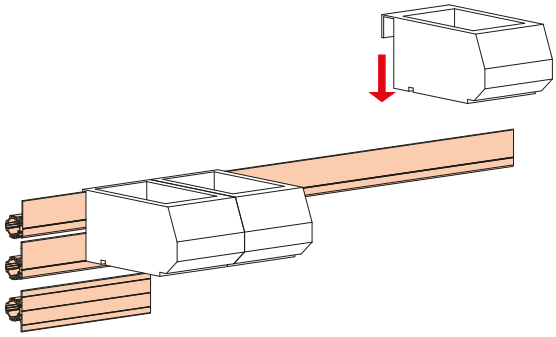
ATF2812 Profile pipe

Aluminium: 126930



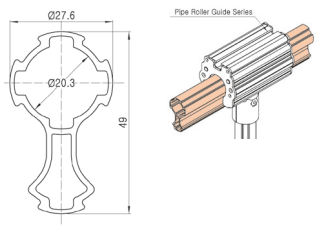
Weight: 0,681 kg/m
Length: 4 m

Application examples ATF2812/ ALF2812



AP2812R Profile pipe

Aluminium: 403194

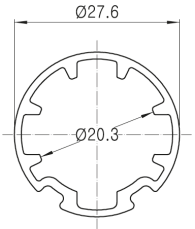


To hold a hanging trolley

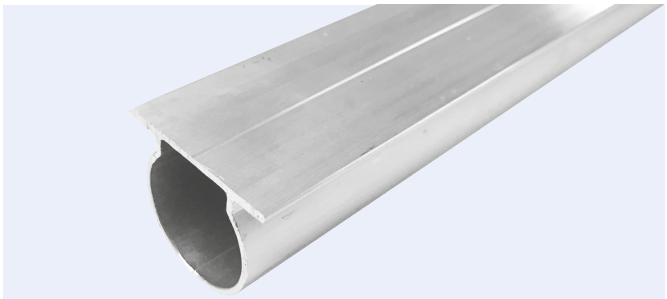
Weight: 0,608 kg/m
Length: 4 m

AQ2812 Profile pipe

Aluminium: 401069



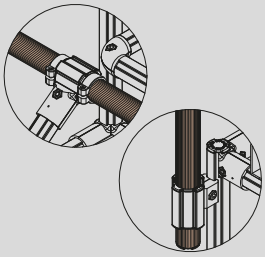
Weight: 0,374 kg/m
Length: 4 m



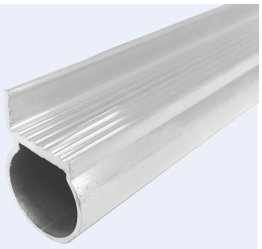
Move easily and evenly.

Slide pipes

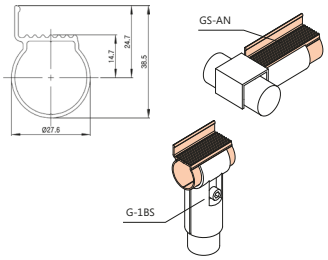
- Aluminium slide pipes for receiving all kinds of components
- Natural surface



ALS2812 Slide pipe (L-Slide)



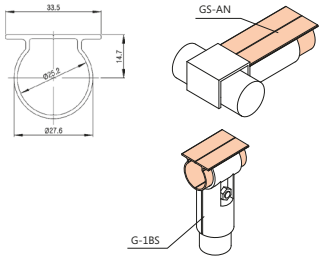
Aluminium: 119039



Weight: 0,375 kg/m
Length: 4 m

ACF2812 Slide pipe (Flat Pipe)

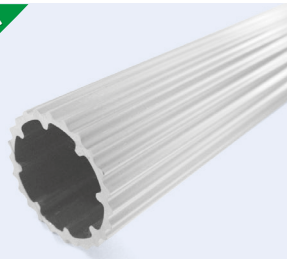
Aluminium: 119041



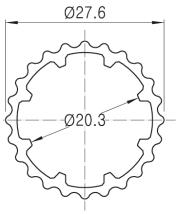
Weight: 0,373 kg/m
Length: 4 m

AFS2812 Slide pipe (Full Slide)

NEW



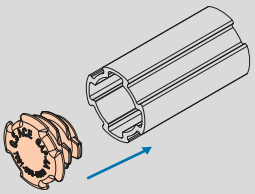
Aluminium: 117691



Weight: 0,379kg/m
Length: 4 m

Cover caps

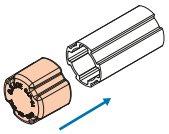
- Protective caps for sealing profile pipes to reduce contamination/injuries



GAP-3 Cover caps in grey

Grey: 403446

Plastic cover cap on the outer side

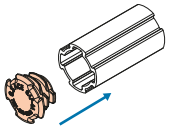


Weight: 8 g
Packaging unit: 900 pcs

GAP-4 Cover caps in grey and ESD (black)

Grey: 117716 A
Black: 402002 E

Plastic cover cap on the inner side



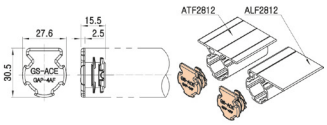
Weight: 3 g
Packaging unit: 1500 pcs

GAP-4AF Cover cap for ATF, ALF or ACF2812

NEW

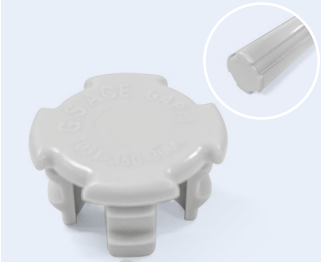
Grey: 607426

- Internal plastic cover cap
- for ATF2812, ALF2812 or ACF2812



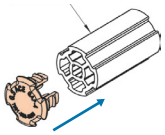
Weight: 3 g
Packaging unit: 1500 pcs

GAP-4AH Cover caps in grey



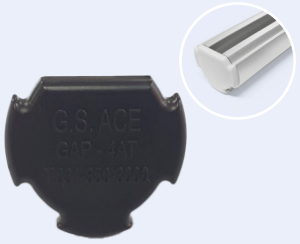
Grey: 403342

Plastic cover cap on the inner side



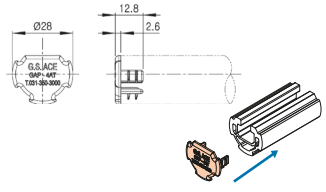
Weight: 2 g
Packaging unit: 1500 pcs

GAP-4AT Cover caps for 1 slot pipe



Grey: 117717
Black: 403445 E

Plastic cover cap on the inner side



Weight: 2 g
Packaging unit: 3000 pcs

SPACE FOR NOTES

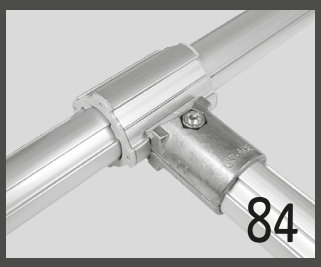
ALUMINIUM joints Ø 28 mm

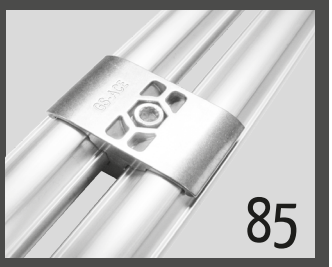
Basic joints 74

Swivel joints 77

Angle joints 80

Joint for panel fastening 83

Swivel and sliding joints  84

Parallel joints  85

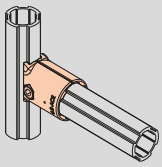
Joining elements 86

Wheel mounting elements 87

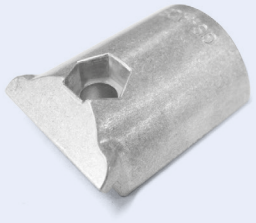
Drive-in sleeves 89

Basic external clamping joints

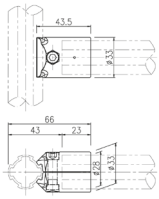
- Die-cast aluminium external clamping joints which permit tolerances when processing the pipes
- Profile and round pipes can be partially inserted



A-001 Basic external clamping joint for profile pipe



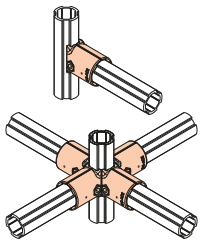
Aluminium: 117693



Weight: 23 g
Packaging unit: 200 pcs

AA-001 Set of basic joints for profile pipe

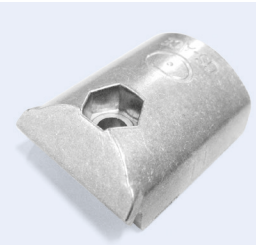
Aluminium: 117734



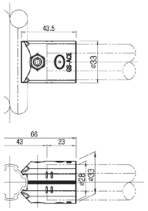
The set consists of following parts:

- 2 x A-001
- 1 x M0625
- 1 x N06-55 W

A-001C Basic external clamping joint for profile or round pipe

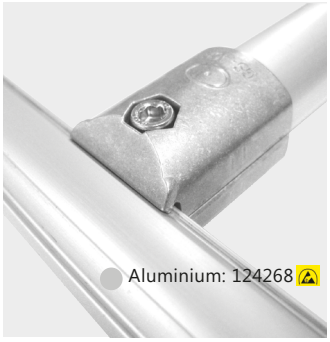


Aluminium: 123463

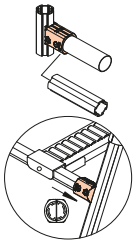


Weight: 25 g
Packaging unit: 200 pcs

AA-001C Set of basic joints for round pipe



Aluminium: 124268

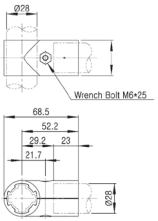


The set consists of following parts:

- 2 x A-001C
- 1 x M0625
- 1 x N06-55 W

A-021 Basic external clamping joint

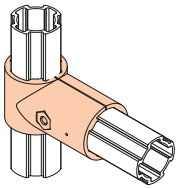
Aluminium: 130774



Weight: 33 g
Packaging unit: 120 pcs

AA-021 Set of basic joints, one-sided

Aluminium: 130785

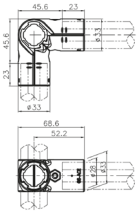


The set consists of following parts:

- 2 x A-021
- 1 x M0625
- 1 x N06-55 W

A-003 Basic external clamping joint for corner

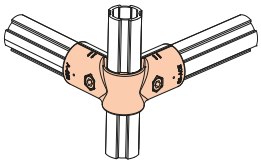
Aluminium: 121231



Weight: 59 g
Packaging unit: 90 pcs

AA-002 Set of basic joints for corner

Aluminium: 121230

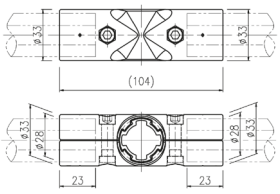


The set consists of following parts:

- 1 x A-003
- 2 x A-001
- 2 x M0625
- 2 x N06-55 W

A-004 Basic external clamping joint, two-sided

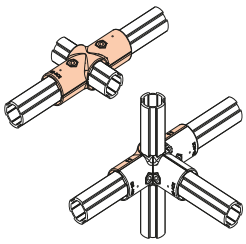
Aluminium: 119383



Weight: 54 g
Packaging unit: 80 pcs

AA-004 Set of basic joints, two-sided

Aluminium: 119850

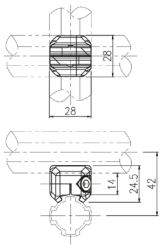


The set consists of following parts:

- 2 x A-004
- 2 x M0625
- 2 x N06-55 W

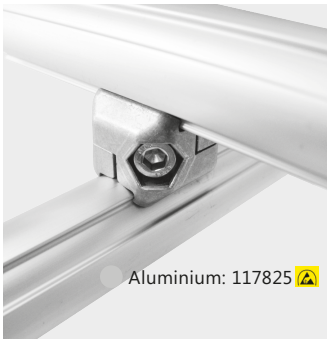
B-006 Angle clamping joint, 90°

Aluminium: 117703

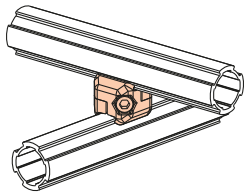


Weight: 12 g
Packaging unit: 400 pcs

BA-006 Set of angle joints, 90°



Aluminium: 117825

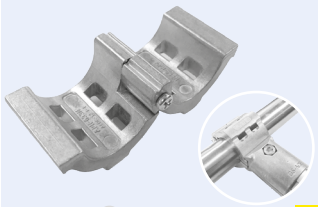


The set consists of following parts:

- 2 x B-006
- 1 x M0625 WZ
- 1 x N06-55 W

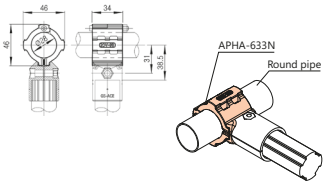
APHA-633N Hybrid joint (round pipe)

Adaption



Aluminium: 401123

- To combine aluminium profile pipe with round pipe



Weight: 111 g
Packaging unit: 80 pcs

External clamping hybrid joints

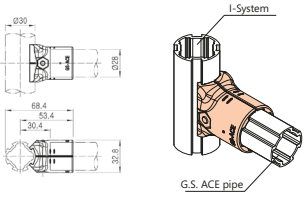
- Ø28 mm to Ø30 mm (I-System)
- Ø28 mm to Ø28 mm (S system)

A-201 Hybrid joint

Adaption

Aluminium: 401529

- Adaption to G.S. ACE AP28xx to 30 mm pipe and aluminium round profile pipe (I system)



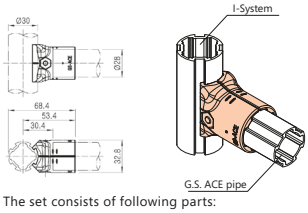
Weight: 26 g
Packaging unit: 200 pcs

AA-201 Set of hybrid joints

NEW **Adaption**

Aluminium: 610618

- Adaption to G.S. ACE AP28xx to 30 mm pipe and aluminium round profile pipe (I system)



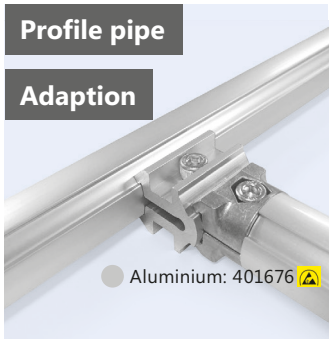
The set consists of following parts:

- 2 x A-201
- 1 x M0625 WZ
- 1 x N06-55W

ACY-318A Hybrid joint

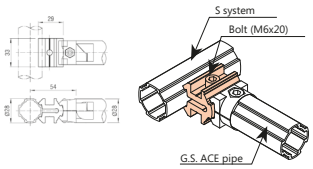
Profile pipe

Adaption



Aluminium: 401676

- For adaption to aluminium round profile pipe (S system)

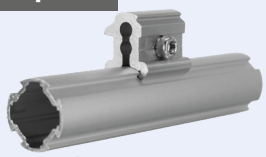


Weight: 34 g
Packaging unit: 150 pcs

ACY-318B Hybrid joint

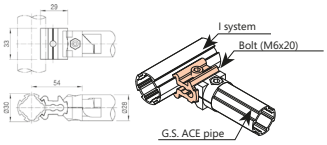
Profile pipe

Adaption



Aluminium: 401677

- For adaption to aluminium round profile pipe (I system)



Weight: 27 g
Packaging unit: 150 pcs

ACY-318B-Set Hybrid joint set

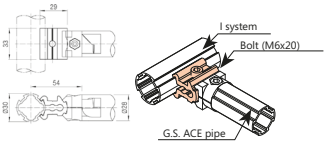
NEW

Profile pipe

Adaption

Aluminium: 610619

- For adapting various aluminium profiles round and square 28 mm with the corresponding joints (I-system)



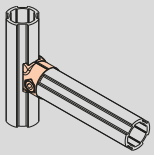
The set consists of following parts:

- 1 x ACY-318B
- 1 x N06-55W
- 1 x M0620 WZ

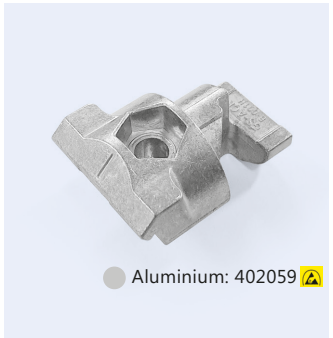
The right basic internal clamping joint for every pipe.

Basic internal clamping joints

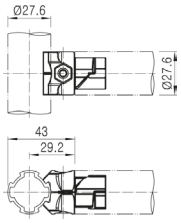
- Die-cast aluminium internal clamping joints do not create any protrusions on the joints and facilitate consistent levels
- Saw cuts have to be more precise
- Profile and round pipes can be partially inserted



B-001H Basic internal clamping joint and heavy duty



Aluminium: 402059

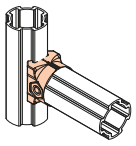


Weight: 18 g
Packaging unit: 300 pcs

BA-001H Set of basic internal clamping joints

Aluminium: 501018

- The aluminium AP.... profile pipe has to be fitted and clamped onto the internal joint at 90° increments around the rotational axis.

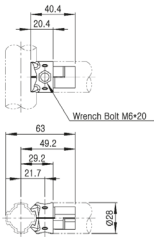


The set consists of following parts:

- 2 x B-001H
- 1 x M0620
- 1 x N06-55 W

B-001C Basic internal clamping joint, fully rotatable

Aluminium: 130808

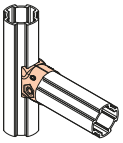


Weight: 18 g
Packaging unit: 300 pcs

BA-001C Set of basic internal clamping joints

Aluminium: 130850

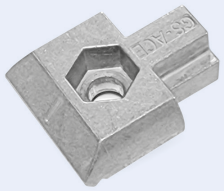
- The aluminium AP.... profile pipe can be fitted onto the internal joint in the rotational axis without needing to be fixed and clamped afterwards.



The set consists of following parts:

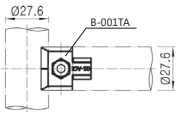
- 2 x B-001C
- 1 x M0620
- 2 x N06-55 W

B-001TA T-form joint



Aluminium: 403173

- For connecting AT2829 pipe with round/square pipe Ø 28 mm

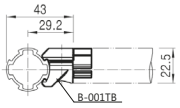


Weight: 13 g
Packaging unit: 400 pcs

B-001TB T-form joint

Aluminium: 403174

- For connecting AT2829 pipe with round/square pipe Ø 28 mm

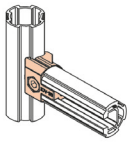


Weight: 13 g
Packaging unit: 400 pcs

BA-001T Set of T-form joints

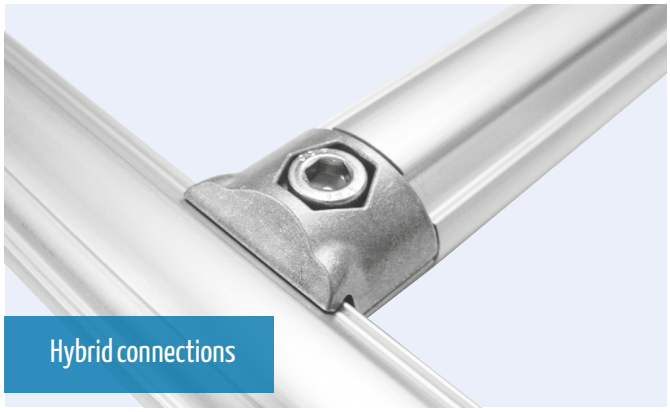
Aluminium: 501046

- For connecting AT2829 pipe with round/square pipe Ø 28 mm



The set consists of following parts:

- 1 x B-001TA
- 1 x M0615 WZ
- 1 x B-001TB
- 1 x N06-55 W



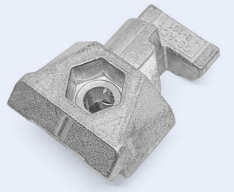
Hybrid connections

Internal clamping hybrid joints

- Ø28 mm to Ø28 mm (S system)

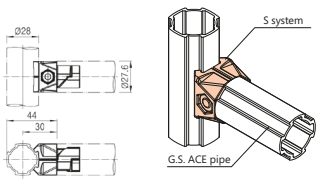
B-101 Hybrid joint

Adaption



Aluminium: 401104

- Adaption to G.S. ACE AP28xx to 28 mm pipe and aluminium round profile pipe (S System)



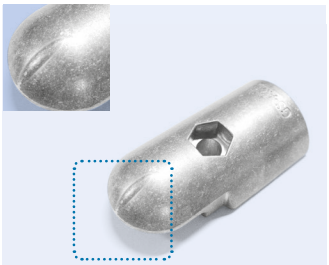
Weight: 20 g
Packaging unit: 200 pcs

Keep mobile with external clamping, movable angle joints.

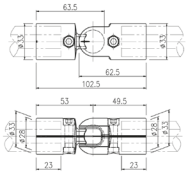
External Clamping and movable angle joints

- Join profiles and pipes at any angle
- Die-cast aluminium, movable external angle joints which permit tolerances when processing the pipes
- Profile and round pipes can be inserted

A-007B Angle external clamping joint



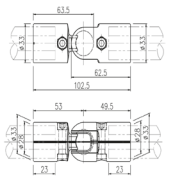
Aluminium: 117694



Weight: 31 g
Packaging unit: 200 pcs

A-007C Angle external clamping joint

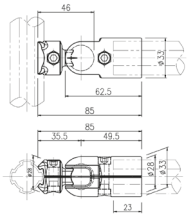
Aluminium: 117695



Weight: 27 g
Packaging unit: 200 pcs

A-007D Angle external clamping joint

Aluminium: 117696

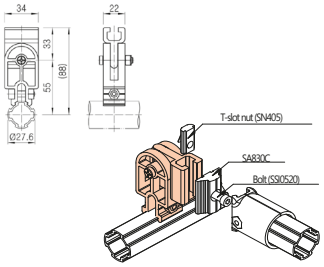


Weight: 31 g
Packaging unit: 200 pcs

ACA-319A Aluminium hinge

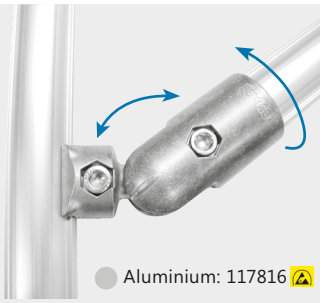
Profile pipe

Aluminium: 402001



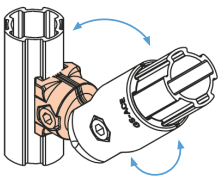
Weight: 83 g
Packaging unit: 60 pcs

AA-007F Set of angle external clamping joint



Aluminium: 117816

- The angle joint is **fixed** in the tightened state



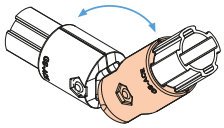
The set consists of following parts:

- 2 x A-007B
- 2 x B-007A
- 1 x M0625
- 1 x N06-55 W
- 1 x M0620
- 1 x N06-55 W

AA-027F Set of angle external clamping joints

Aluminium: 117817

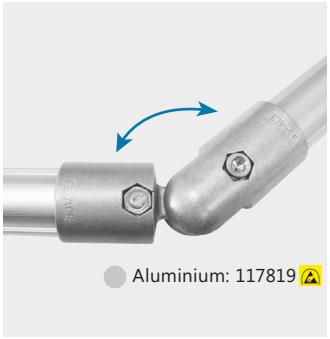
- The angle joint is **fixed** in the tightened state



The set consists of following parts:

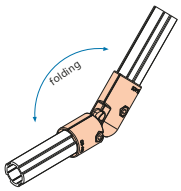
- 2 x A-007B
- 2 x A-007C
- 2 x M0625
- 2 x N06-55 W

AA-027M Set of angle external clamping joints



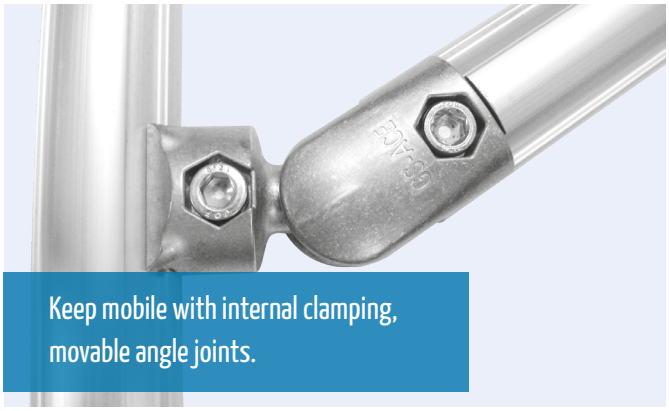
Aluminium: 117819

- The angle joint is **movable** in the tightened state



The set consists of following parts:

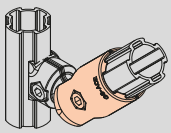
- 2 x A-007C
- 2 x A-007D
- 2 x M0625
- 2 x N06-55 W



Keep mobile with internal clamping, movable angle joints.

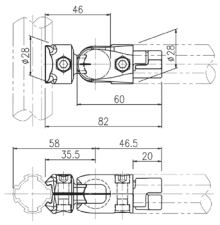
Movable internal clamping angle joints

- Join profiles and pipes at any angle
- Die-cast aluminium, movable internal clamping angle joints
- Profile pipes can be inserted
- Easy, angled assembly on profile grooves



B-007A Angle internal clamping joint, 45°

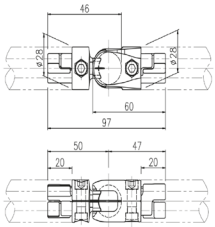
Aluminium: 117704



Weight: 17 g
Packaging unit: 400 pcs

B-007B Angle joint, counter part to B-007A

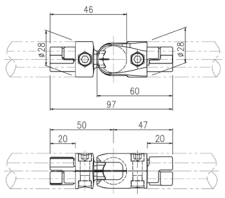
Aluminium: 117705



Weight: 25 g
Packaging unit: 250 pcs

B-007C Angle internal clamping joint

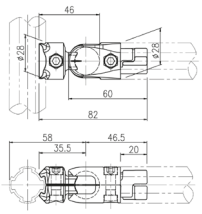
Aluminium: 117706



Weight: 23 g
Packaging unit: 250 pcs

B-007D Angle joint, counter part to B-007C

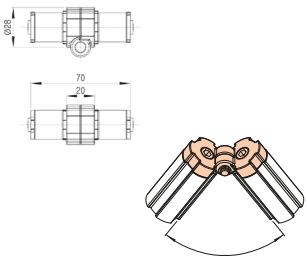
Aluminium: 117707



Weight: 24 g
Packaging unit: 250 pcs

AFU-28A Angle clamping folding joint

Aluminium: 130799

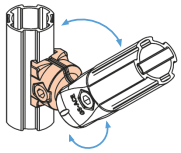


Weight: 8 g
Packaging unit: 80 pcs

BA-007F Set of angle internal clamping joints

Aluminium: 117826

- The angle joint is **fixed** in the tightened state



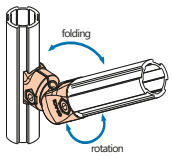
The set consists of following parts:

- 2 x B-007A
- 2 x B-007B
- 2 x M0620
- 2 x N06-55 W

BA-007R Set of angle internal clamping joints

Aluminium: 117829

- The angle joint is **movable** and **rotatable** in the tightened state



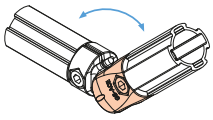
The set consists of following parts:

- 2 x B-007A
- 2 x B-007D
- 2 x M0620
- 2 x N06-55 W

BA-027F Set of angle internal clamping joints

Aluminium: 117827

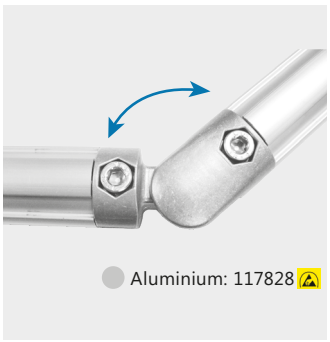
- The angle joint is **fixed** in the tightened state



The set consists of following parts:

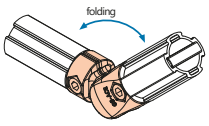
- 2 x B-007B
- 2 x B-007C
- 2 x M0620
- 2 x N06-55 W

BA-027M Set of angle internal clamping joints



Aluminium: 117828

- The angle joint is **movable** in the tightened state

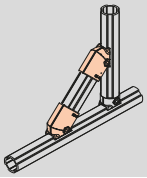


The set consists of following parts:

- 2 x B-007C
- 2 x B-007D
- 2 x M0620
- 2 x N06-55 W

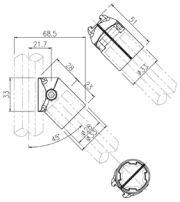
Fixed external clamping angle joints

- Die-cast aluminium, fixed external clamping angle joints which permit tolerances when processing the pipes
- Only profile pipes can be inserted



A-013L Angle external clamping joint, 45° left

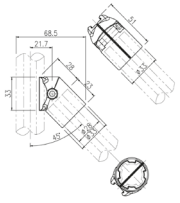
Aluminium: 117698



Weight: 23 g
Packaging unit: 200 pcs

A-013R Angle external clamping joint, 45° right

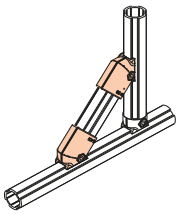
Aluminium: 117699



Weight: 23 g
Packaging unit: 200 pcs

AA-013 Set of angle clamping joints, 45°

Aluminium: 117821

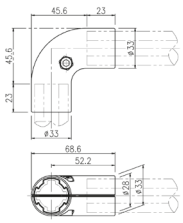


The set consists of following parts:

- 1 x A-013L
- 1 x A-013R
- 1 x M0625
- 1 x N06-55 W

A-090 Angle clamping joint, 90°

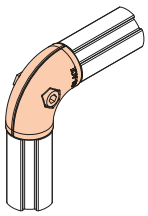
Aluminium: 117701



Weight: 50 g
Packaging unit: 80 pcs

AA-090 Set of angle clamping joints, 90°

Aluminium: 117823



The set consists of following parts:

- 2 x A-090
- 1 x M0625
- 1 x N06-55 W

A-120 Angle clamping joint, 120°

Aluminium: 402486

Weight: 32 g
Packaging unit: 80 pcs

AA-120 Set of angle clamping joints, 120°

Aluminium: 501021

The set consists of following parts:

- 2 x A-120
- 1 x M0625 WZ
- 1 x N06-55 W

A-135 Angle clamping joint, 135°

Aluminium: 402489

Weight: 32 g
Packaging unit: 80 pcs

AA-135 Set of angle clamping joints, 135°

Aluminium: 501022

The set consists of following parts:

- 2 x A-135
- 1 x M0625 WZ
- 1 x N06-55 W

A-150 Angle clamping joint, 150°

Aluminium: 402490

Weight: 32 g
Packaging unit: 80 pcs

AA-150 Set of angle clamping joints, 150°

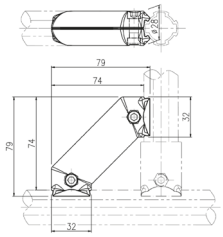
Aluminium: 501023

The set consists of following parts:

- 2 x A-150
- 1 x M0625 WZ
- 1 x N06-55 W

B-045 Angle clamping joint for corner

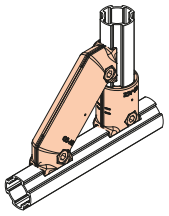
Aluminium: 117712



Weight: 48 g
Packaging unit: 100 pcs

BA-045 Set of angle joint for corner

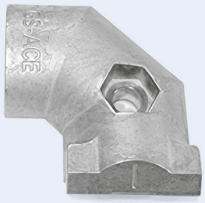
Aluminium: 117833



The set consists of following parts:

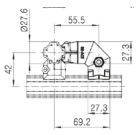
- 2 x B-045
- 2 x M0620
- 2 x N06-55 W

B-015L Angle clamping joint, 90°, left



Aluminium: 403449

- Joint half-shell left, angle 90°
- One side as socket with guide for e.g. BA-001H, BA001C
- Flexible and space-saving strut

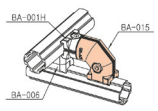


Weight: 24 g
Packaging unit: 200 pcs

BA-015 Set of angle joints, 90°

Aluminium: 501061

- One side as socket with guide for e.g. BA-001H, BA001C
- Flexible and space-saving strut



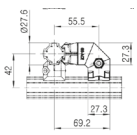
The set consists of following parts:

- 1 x B-015L
- 1 x B-015R
- 1 x M0620 WZ
- 1 x N06-55 W

B-015R Angle clamping joint, 90°, right

Aluminium: 403450

- Joint half-shell right, angle 90°
- One side as socket with guide for e.g. BA-001H, BA001C
- Flexible and space-saving strut

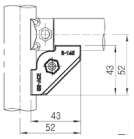


Weight: 24 g
Packaging unit: 200 pcs

B-145 Corner joint, 90°

Aluminium: 403444

- For aluminum profile pipe Ø28 mm and aluminum square pipe 28x28 mm
- With profile connection
- Space-saving corner strut

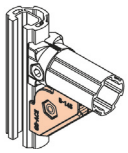


Weight: 20 g
Packaging unit: 400 pcs

BA-145 Set of corner joints, 90°

Aluminium: 501060

- For aluminum profile pipe Ø28 mm and aluminum square pipe 28x28 mm
- With profile connection
- Space-saving corner strut

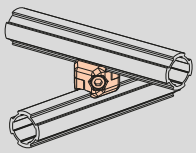


The set consists of following parts:

- 2 x B-145
- 1 x M0610 WZ
- 1 x N06-55 W

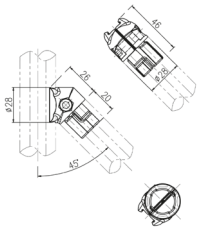
Fixed internal clamping angle joints

- Die-cast aluminium, fixed internal clamping angle joints
- Profile pipes can be inserted
- Easy, angled assembly on profile grooves



B-013L Angle internal clamping joint, 45° left

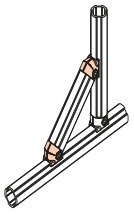
Aluminium: 117710



Weight: 18 g
Packaging unit: 300 pcs

BA-013 Set of angle joints, 45°

Aluminium: 117832

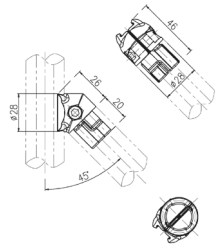


The set consists of following parts:

- 1 x B-013L
- 1 x B-013R
- 1 x M0620
- 1 x N06-55 W

B-013R Angle internal clamping joint, 45° right

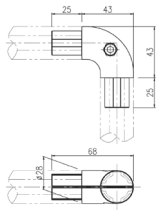
Aluminium: 117711



Weight: 18 g
Packaging unit: 300 pcs

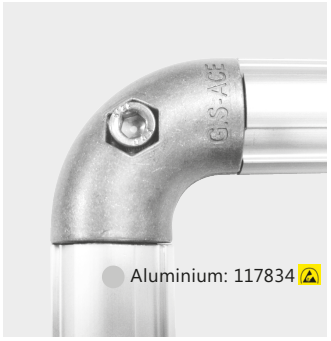
B-090 Angle internal clamping joint, 90°

Aluminium: 117713

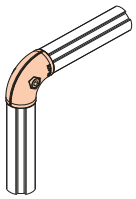


Weight: 38 g
Packaging unit: 120 pcs

BA-090 Set of angle joints, 90°



Aluminium: 117834

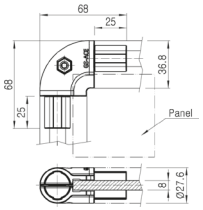


The set consists of following parts:

- 2 x B-090
- 1 x M0620
- 1 x N06-55 W

B-091 Angle joint 90° (8 mm panel)

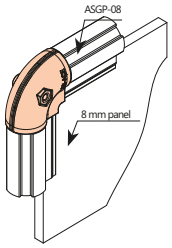
Aluminium: 401682



Weight: 29 g
Packaging unit: 120 pcs

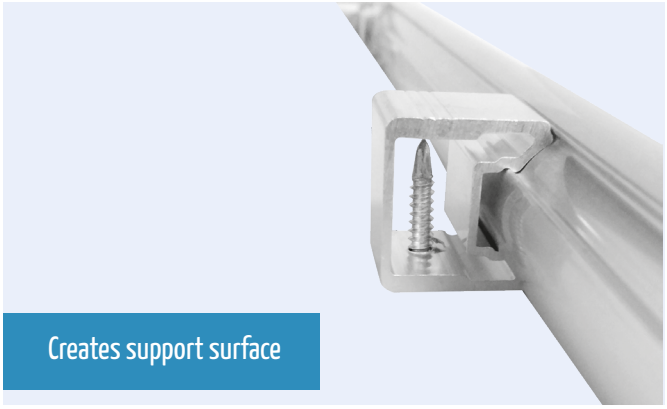
BA-091 Set of angle joints, 90° (8 mm panel)

Aluminium: 501030



The set consists of following parts:

- 2 x B-091
- 1 x M0620
- 1 x N06-55 W



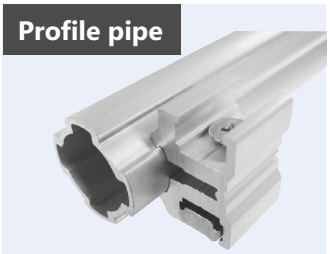
Creates support surface

Aluminium joints for panel fastenig

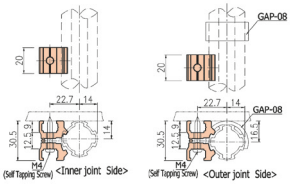
- Versatile joints for fastening all types of panels to aluminium profile pipes

ABS-620 Joint for panel fastening

Profile pipe



Aluminium: 119179

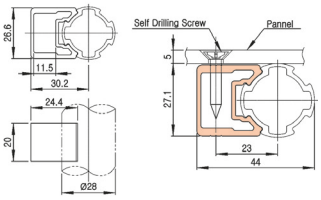


Weight: 17 g
Packaging unit: 300 pcs
Length: 20 mm

A28-N302 Joint for panel fastening

Profile pipe

Aluminium: 401288

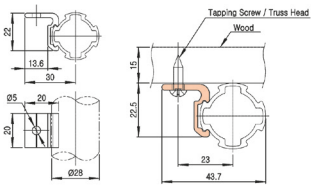


Weight: 11 g
Packaging unit: 300 pcs

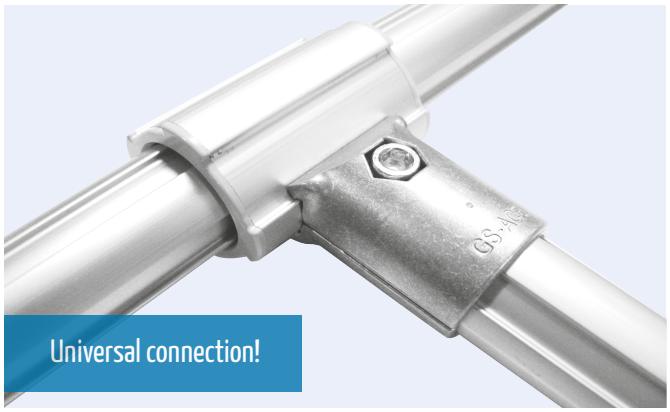
A28-N303 Panel mounting joint

Profile pipe

Aluminium: 401217

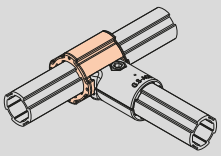


Weight: 5 g
Packaging unit: 800 pcs

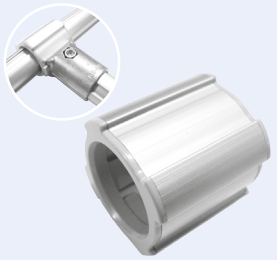


Swivel and sliding joints

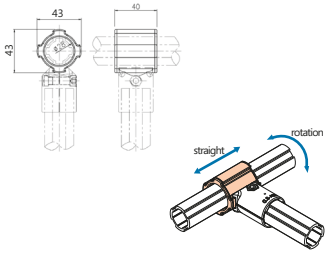
- Die-cast aluminium attachment joint for realising sliding or expandable structures
- Designs that are guided and unguided are available
- Easy, angled assembly on profile grooves



AH-540 Slide bush rotatable, short type



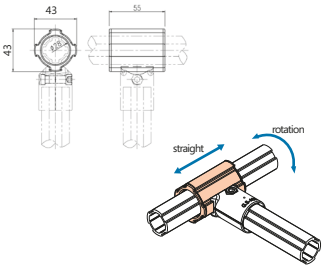
Aluminium: 117719



Weight: 34 g
Packaging unit: 100 pcs

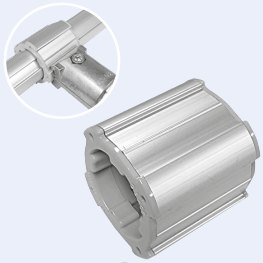
AH-555 Slide bush rotatable, long type

Aluminium: 117720

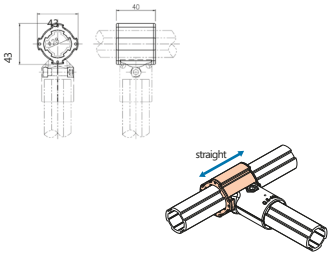


Weight: 46 g
Packaging unit: 100 pcs

AH-640 Slide bush, short type

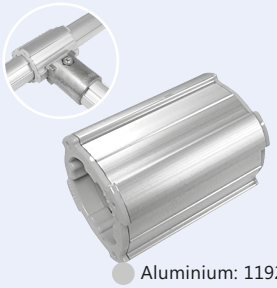


Aluminium: 119225

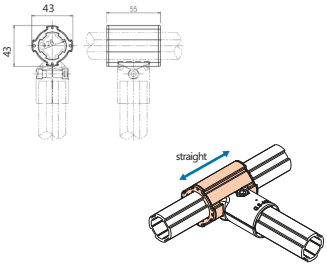


Weight: 35 g
Packaging unit: 100 pcs

AH-655 Slide bush, long type



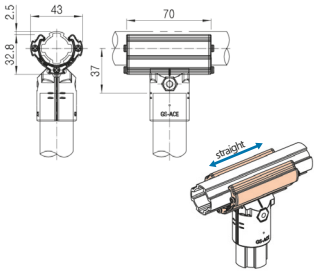
Aluminium: 119226



Weight: 47 g
Packaging unit: 100 pcs

AH-770 Slide bush

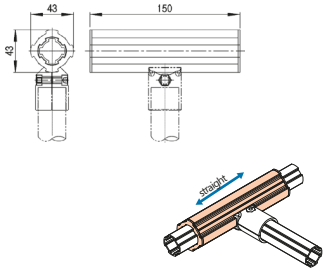
Aluminium: 403195



Weight: 48 g
Packaging unit: 100 pcs

AH-800 Slide bush

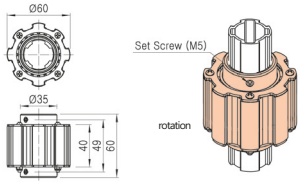
Aluminium: 130802



Weight: 58 g
Packaging unit: 80 pcs

ARU-28A Slide bush with rotating unit

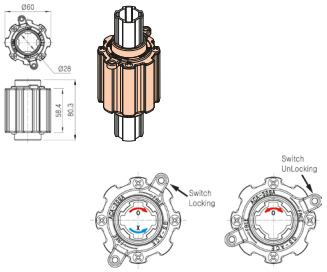
Aluminium: 128677



Weight: 240 g
Packaging unit: 40 pcs

ACA-309A Slide bush with rotation unit

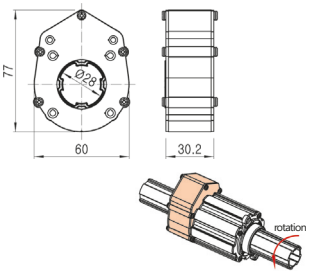
Aluminium: 401493



Weight: 42 g
Packaging unit: 160 pcs

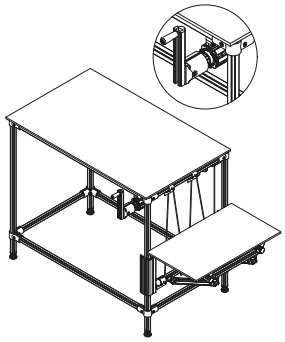
ACA-321A Rotation damper

Aluminium: 402479



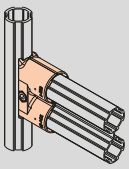
Weight: 141 g
Packaging unit: 45 pcs

Application examples ACA-309A



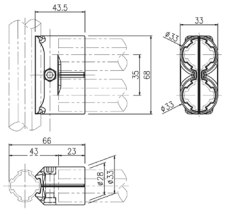
Parallel joints

- Join parallel profiles and pipes
- Die-cast aluminium external clamping parallel joints to increase load-bearing capacity
- Easy, angled assembly on profile grooves



A-009 Parallel joint

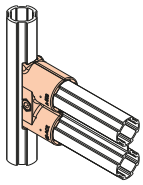
Aluminium: 117697



Weight: 50 g
Packaging unit: 100 pcs

AA-009 Set of parallel joints

Aluminium: 117820

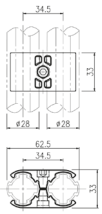


The set consists of following parts:

- 2 x A-009
- 1 x M0625
- 1 x N06-55 W

A-028 Parallel joint

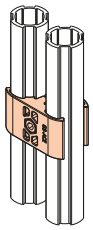
Aluminium: 117700



Weight: 24 g
Packaging unit: 200 pcs

AA-028 Set of parallel joints

Aluminium: 117822

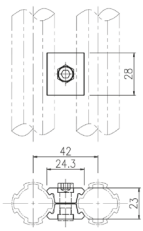


The set consists of following parts:

- 2 x A-028
- 1 x M0625
- 1 x N06-55 W

B-008 Parallel joint

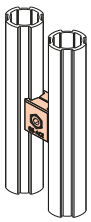
Aluminium: 117708



Weight: 9 g
Packaging unit: 400 pcs

BA-008 Set of parallel joints

Aluminium: 117830

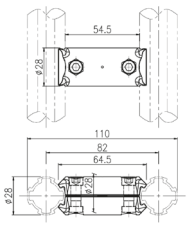


The set consists of following parts:

- 2 x B-008
- 1 x M0620
- 1 x N06-55 W

B-011 Parallel joint

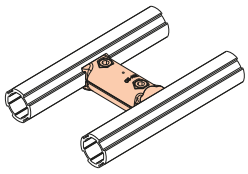
Aluminium: 117709



Weight: 30 g
Packaging unit: 200 pcs

BA-011 Set of parallel joints

Aluminium: 117831

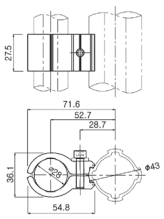


The set consists of following parts:

- 2 x B-011
- 2 x M0625
- 2 x N06-55 W

APH-3027A Attachment joint

Aluminium: 401673

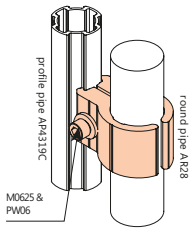


Can be used with handle
(black: Art. No. 126942, grey: Art. No. 126979)

Weight: 31 g
Packaging unit: 200 pcs

APHA-3027 Set of attachment joints (profile pipe Ø43 mm)

Aluminium: 501020

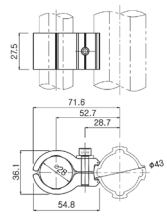


The set consists of following parts:

- 1 x APH-3027A
- 1 x APH-3027B
- 1 x M0625
- 1 x US06

APH-3027B Attachment joint

Aluminium: 401674



Can be used with handle
(black: Art. No. 126942, grey: Art. No. 126979)

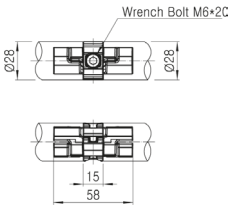
Weight: 31 g
Packaging unit: 200 pcs

Joining elements

- Internally clamping joining element for profile tube Ø28 mm

B-044B Basic internal clamping joint, two-sided

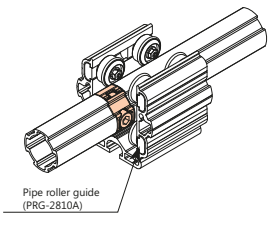
Aluminium: 401533



Weight: 24 g
Packaging unit: 1000 pcs

BA-044B Set of basic joints, two-sided

Aluminium: 501019



The set consists of following parts:

- 2 x B-044B
- 1 x M0620
- 1 x N06-55 W

Application examples B-044B

The B-044B is used to connect two profile pipes. It thus makes it possible to use it as a guide rail for trolleys.

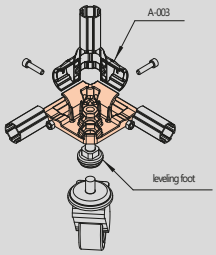
Attached to the SUS pipe is the GA-15S joint set which connects the basic joint B-044B by a screw M6.

The profile pipe is held in the middle by the B-044B, on which the flexible pipe guide rail PRG-2810A is mounted.

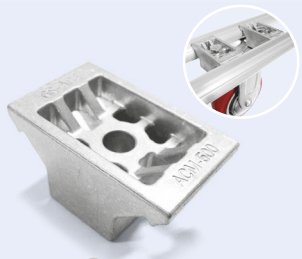
Under the pipe guide rail there is the end piece GS-1014CH located on which loads can be attached.

Castor mounting

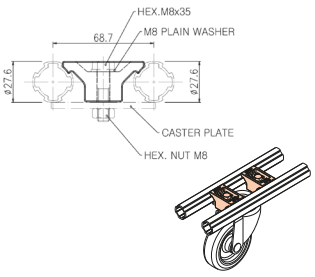
- Die-cast aluminium castor mount for attaching wheels
- Easy, angled assembly on profile grooves



ACM-500 Aluminium mounting for castors with 6 holes

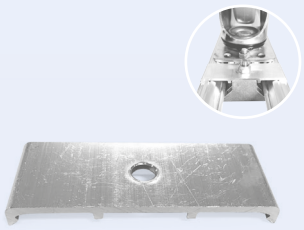


Aluminium: 117721



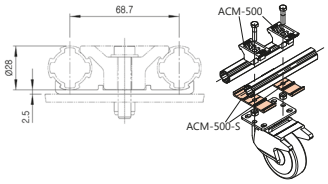
Weight: 54 g
Packaging unit: 100 pcs

ACM-500-S Support panel for castor mounting



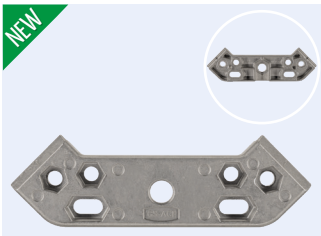
Aluminium: 403448

- Support plate, in combination with ACM-500
- Application for smaller plates



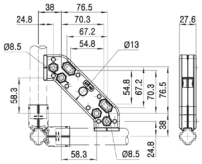
Weight: 47 g
Packaging unit: 60 pcs

ACM-400 Corner connector for roller mounting



Aluminium: 607962

- for aluminium profile pipe
- for roller mounting
- suitable rollers: AG, AR and certain AP rollers

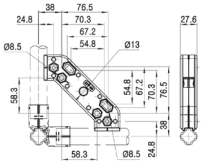


Weight: 142 g
Packaging unit: 40 Stk

ACMA-400 Corner joint set for roller mounting

Aluminium: 607964

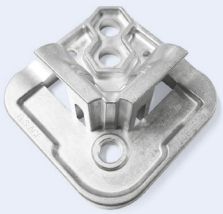
- for aluminium profile pipe
- for roller mounting
- suitable rollers: AG, AR and certain AP rollers



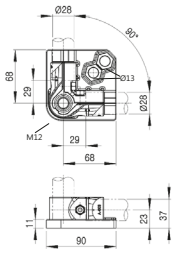
The set consists of following parts:

- 2 x ACM-400
- 2 x SI0820 8.8
- 2 x M08

ACB-B28B Corner joint for mounting of castors/feet

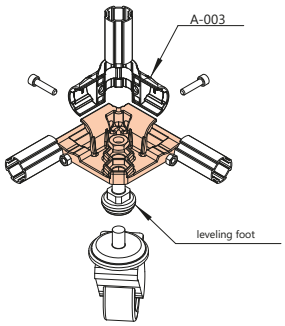


ACB-B28B: **130795**
1x thread M12
(outer corner)
2x bore D13



Weight: 208 g
Packaging unit: 24 pcs

Set of corner joints for mounting of castors/feet



ACB-B28B: **13083**
1x thread M12 (outer corner)
2x bore D13

The set consists of following parts:

- 1 x ACB-B28B
- 1 x A-003
- 2 x M0625
- 2 x N06-55

ACB-G28A

Corner joint, 90°

Aluminium: 603945

ACBA-G28A

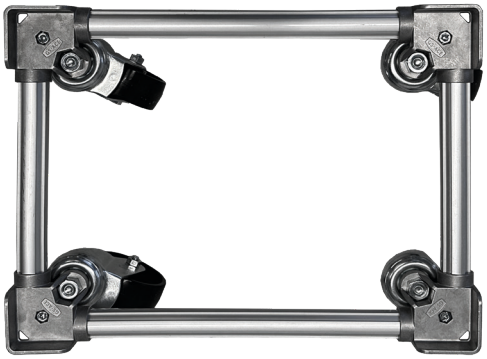
Corner joint set, 90°

- for aluminium profile pipe 28 mm
- for easy production of a transport trolley

Aluminium: 603976

The set consists of following parts:

- 1 x ACB-G28A
- 1 x A-090
- 1 x M0625 WZ
- 1 x N06-55 W



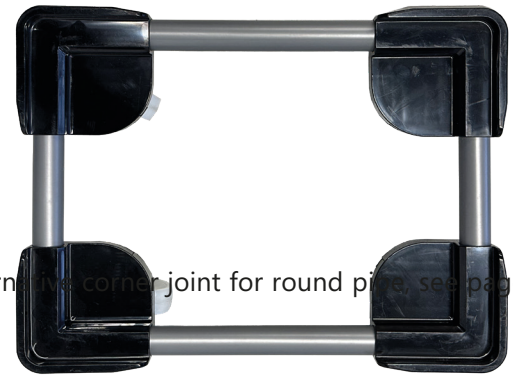
Corner joint set with swivel castor

- Corner joint set with swivel castor and stop nut for aluminium profile pipe 28 mm
- for easy production of a transport trolley

Aluminium: 605153

The set consists of following parts:

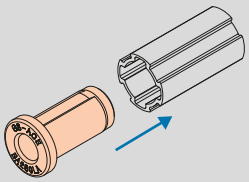
- 1 x ACB-G28A
- 1 x A-090
- 1 x M0625 WZ
- 1 x AR-13-80-L-M-POA-G-O
- 1 x N06-55 W
- 1 x SI1235 8.8
- 1 x MS12



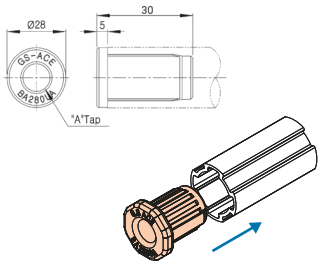
Alternative corner joint for round pipe, see page 324

Drive-in sleeves

- M12 and M10 drive-in sleeves with 1/2" thread for screwing in wheels or mounting brackets
- The aluminium and steel drive-in sleeves have a great retention force in the pipe and conduct electricity



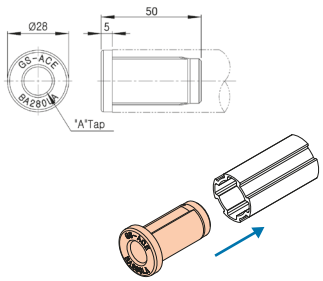
BA2800A/B Aluminium drive-in sleeve



Weight: 94 g
Packaging unit: 160 pcs

Art. No.	Name	Pipe	Ø Pipe	Threads	Material
117714	BA2800A	Aluminium profile pipe	28 mm	1/2"-12N	Aluminium
117715	BA2800B			M12 x 1,75	

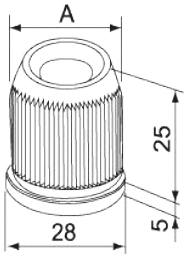
BA280LA/LB/LD/LE Steel drive-in sleeve



Weight: 94 g
Packaging unit: 160 pcs

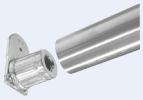
Art. No.	Name	Pipe	Ø Pipe	Threads	Material
402039	BA280LA	Aluminium profile pipe	28 mm	1/2"-12N	Steel
402040	BA280LB			M12 x 1,75	
402041	BA280LD			M10	
401512	BA280LE			M8	

BC2807A/B/D Steel drive-in sleeve



Art. No.	Name	Pipe	Ø Pipe	Threads	Material
100104	BC2807A	For pipe AL2818	28 x 1.8 mm	1/2"-12N	Steel
100105	BC2807B			M12 x 1,75	
101663	BC2807D			M10 x 1,5	

Overview - Drive-in sleeves and aluminium pipe

		Type	DRIVE-IN SLEEVES WITH INTERNAL THREAD					DRIVE-IN SLEEVES WITH STOP	
		Name	BA280LA/LB/LD/LE	BA2800A/B	BP2800H Set 1/2"/M12	BC2807A/B/D	BS12A/B/D	GS-2070C 0.7	GS-2070C ES1.2
		Image							
		Use	Heavy load	Standard	Lightweight construction	Standard	Standard	Special	
		Material	Galvanised steel	Aluminium	Plastic with steel nut	Steel	Galvanised steel	Galvanised steel	
		Internal thread	1/2"/M12/M10/M8	1/2"/ M12	1/2" / M12	1/2"/M12/M10	1/2" /M12/M10	-	
		Art. No.	402039 402040 402041 401512	117714 117715	126887 126889	100104 100105 101663	100111 100112 100113	100053	100069
	Image	Name	AD* / ID*	20.5 mm	20.4 mm	20.7 mm	24.1 mm	25.5 mm	24.1 mm	25.3 mm
Ø28mm Aluminium round pipe		AL2818	24.0 mm				X		X	
		AP2812	20.3 mm	X	X	X				
		AP2820	20.3 mm	X	X	X				
		AP2829	20.3 mm	X	X	X				
		AP2812H	-							
		AD2812	20.3 mm	X	X	X				
		AD2812H	-							
		AR2812	20.3 mm	X		X				
		AR2829	20.3 mm	X		X				
		AT2829	-							
		AGP-28A	-							
		AGP-28B	-							
		ALS2812	25.2 mm					X		X
		ACF2812	25.2 mm					X		X
		ALF2812	20.3 mm	X	X	X				
		ATF2812	20.3 mm	X	X	X				
		ASGP-08	20.3 mm	X	X	X				
		AFS2812	20.3 mm	X	X	X				
		AL2812	-							
		AP2812R	20.3 mm	X	X	X				
		AQ2812	20.3 mm	X	X	X				

* ID = Inner diameter pipe | OD = Outer diameter of drive-in sleeve

ALUMINIUM Add-on parts Ø 28 mm

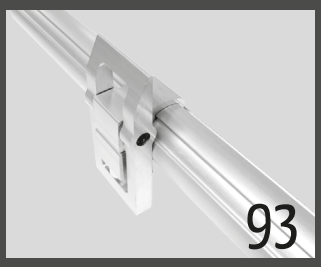
Profiles for panel attachment

92

Profil tracks

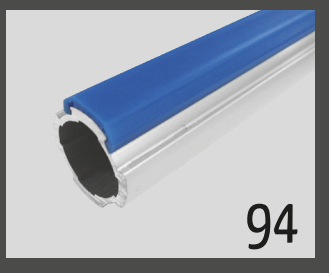
93

Stopper



93

Profile covers



94

Further add-on parts

95

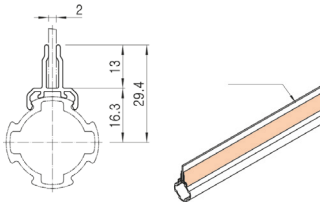
Profiles for panel fastening

- Various profiles for fastening panels in different thicknesses

ASG-02-SA Plate holder cendred (2 mm tickness)

Aluminium: 402176

- Connection to profile pipe
- For panel thickness 2 mm
- Surface anodized

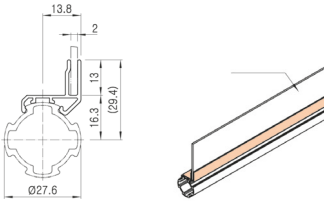


Weight: 168 g
Length: 4 m

ASG-02B-SA Plate holder one sided (2 mm tickness)

Aluminium: 402177

- Connection to profile pipe
- For panel thickness 2 mm
- Surface anodized

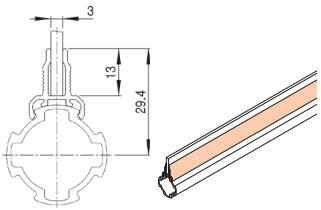


Weight: 207 g
Length: 4 m

ASG-03-SA Plate holder cendred (3 mm tickness)

Aluminium: 401223

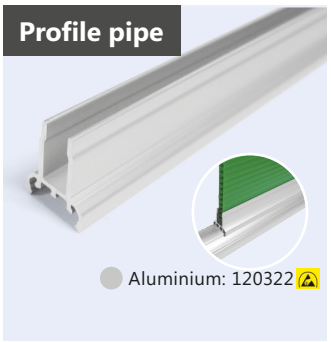
- Connection to profile pipe
- For panel thickness 3 mm
- Surface anodized



Weight: 225 g
Length: 4 m

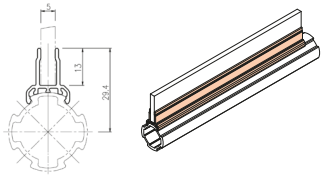
ASG-05SA Plate holder (5 mm thickness)

Profile pipe



Aluminium: 120322

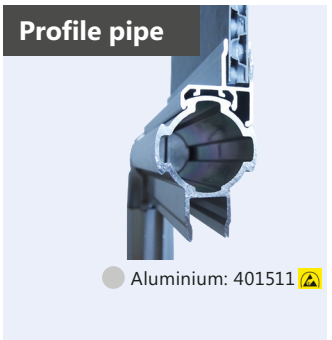
- Connection to profile pipe
- For panel thickness 5 mm
- Surface anodized



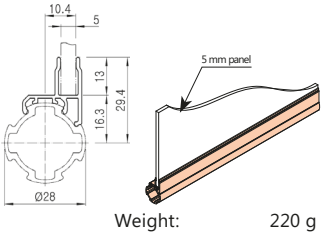
Weight: 172 g
Length: 4 m

ASG-05BSA Plate holder (5 mm thickness)

Profile pipe



Aluminium: 401511



Weight: 220 g
Length: 4 m

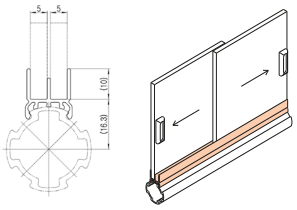
Profile tracks

- as wall and surface mount
- for door tracks

ADR-05-SA Door rail

Profile pipe

Aluminium: 123280



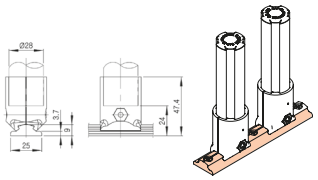
Weight: 166 g
Length: 4 m

ACY-06A SA Wall and surface mount

Profile pipe

Aluminium: 402025

- For pipe Ø28mm and Ø43mm in connection with aluminium joints (e. g.: AA-001, AA-401).

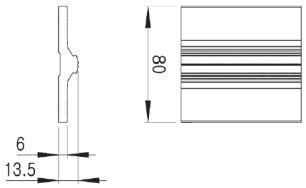


Weight: 547 g
Length: 4 m

AMB-0600 Wall and surface mount

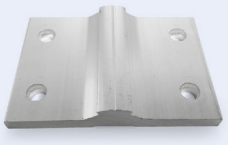
Profile pipe

Aluminium: 128404

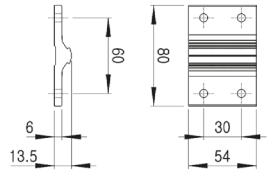


Weight: 1543 g
Length: 4 m

AMB-0654 Wall and surface mount

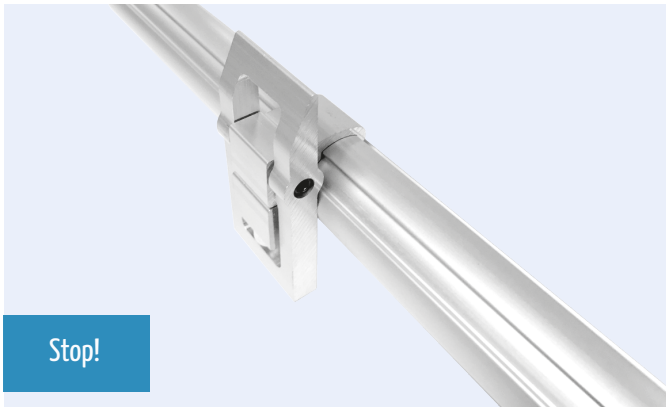


Aluminium: 403048



- In combination with aluminium joints
- Material: Aluminium
- Size: 54 x 80 mm

Weight: 83 g
Packaging unit: 100 pcs

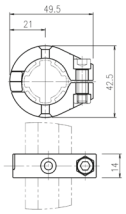


Aluminium stopper

- Attachment joint as stopper
- Stopper, must be lifted and repositioned by hand

A-023 Attachment joint as stopper

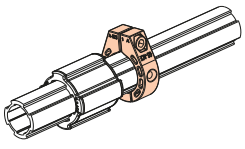
Aluminium: 119042



Weight: 17 g
Packaging unit: 300 pcs

AA-023 Set of attachment joints as stopper

Aluminium: 120172



The set consists of following parts:

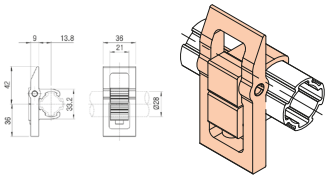
- 2 x A-023
- 1 x M0620
- 1 x N06-55 W

AOS-28A Stopper made of Aluminium

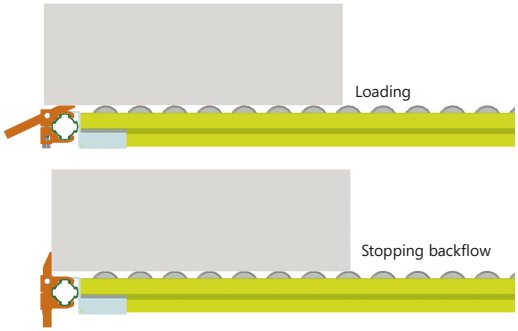
Profile pipe

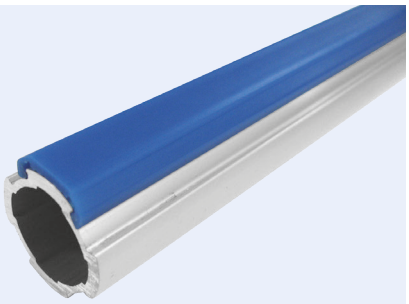
Aluminium: 130803

- Must by hand raised and be transferred.



Weight: 75 g
Packaging unit: 60 pcs





Cover up?!

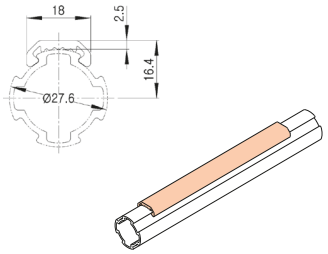
Profile covers

- Covers for profiles in various designs
- Protection against injuries

APC-01 Pipe cover 3 m

Profile pipe

Blue: 123331



Weight: 50 g
Packaging unit: 50 pcs

APC-02 Pipe cover for profile pipe AP28...

BK: 403513

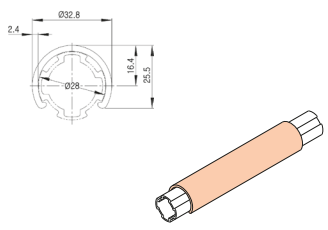
- Protective profile made of TPE
- for profile pipe AP2812 ...

Weight: 0,12 kg/m
Length: 3 m

APC-03 Pipe cover 3 m

Profile pipe

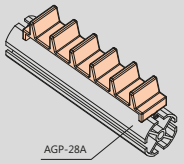
Blue: 123279



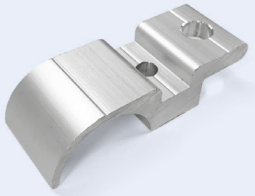
Weight: 151 g
Packaging unit: 20 pcs

Add-ons

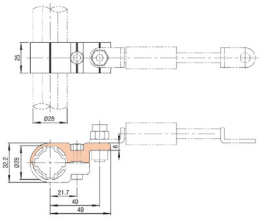
- Various add-ons for joining panels to the profile pipe. Material: Aluminium
- The lift locking mechanism engages on one side and can be released by hand. Material: Steel



A28-A301A Attachment for gas spring



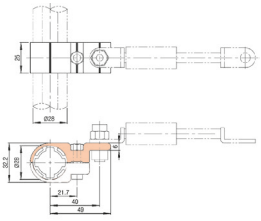
Aluminium: 130882



Weight: 27 g
Packaging unit: 80 pcs

A28-A301 Set of attachment joints for gas spring

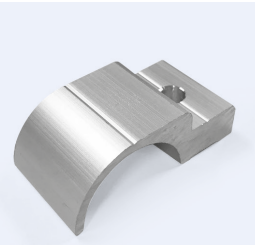
Aluminium: 130784



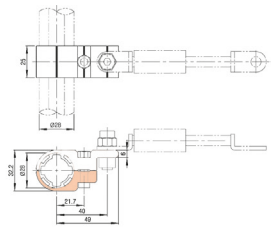
The set consists of following parts:

- 1 x A28-A301A
- 1 x A28-A301B
- 1 x M0625
- 1 x N06-55 W

A28-A301B Attachment for gas spring



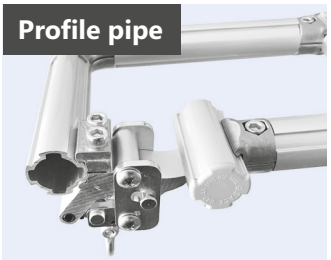
Aluminium: 130883



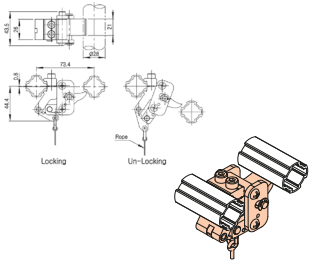
Weight: 19 g
Packaging unit: 80 pcs

LAD-A Hub locking, single direction, detachable

Profile pipe



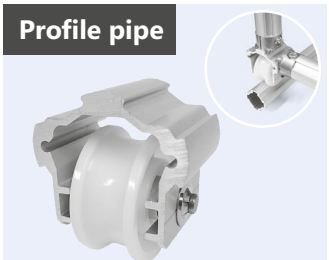
Aluminium: 130843



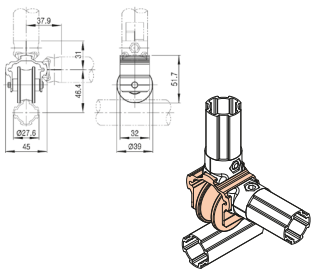
Weight: 118 g
Packaging unit: 20 pcs

ACY-A306 Role for roller guides

Profile pipe



401709

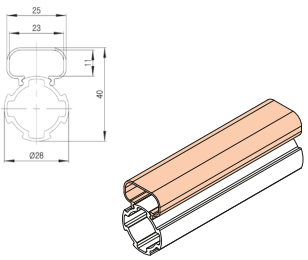


Weight: 83 g
Packaging unit: 60 pcs

ACD-B SA Aluminium cable duct

Profile pipe

Aluminium: 401490

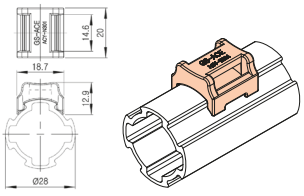


Weight: 177 g
Packaging unit: 12 pcs
Length: 4 m

ACY-N301 G Plastic cable holder in grey

Profile pipe

Grey: 130541



Weight: 2 g
Packaging unit: 1500 pcs

PRG-2810L Slide guide element, left, without castors

Aluminium: 602865

Weight: 79 g
Packaging unit: 24 pcs
Length: 100 mm

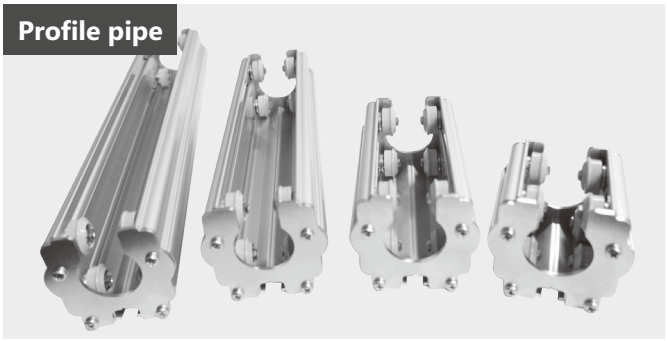
PRG-2810R Slide guide element, right, without castors

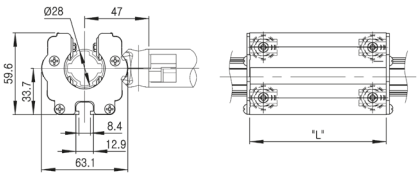
Aluminium: 602868

Weight: 79 g
Packaging unit: 24 pcs
Length: 100 mm

PRG-28..B Pipe roller guide (with cover plate)

Profile pipe



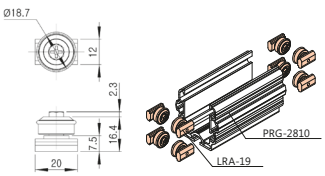


Art. No.	Name	Length	Weight	Packaging unit
401525	PRG-2805B	50 mm	290 g	20 pcs
401526	PRG-2810B	100 mm	370 g	10 pcs
401527	PRG-2820B	200 mm	530 g	5 pcs
401528	PRG-2830B	300 mm	680 g	4 pcs

LRA-19(NMB Bearing) Linear roller

Profile pipe

Aluminium: 125252

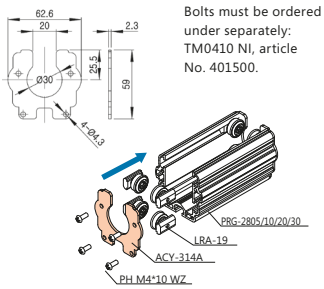


Weight: 17 g
Packaging unit: 300 pcs

ACY-314A Cover plate for PRG-28xxA

Profile pipe

WZ: 401507



Bolts must be ordered under separately: TM0410 NI, article No. 401500.

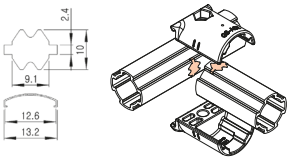
Weight: 94 g
Packaging unit: 160 pcs

LP2800 ESD plate

Profile pipe

Steel bright: 117718

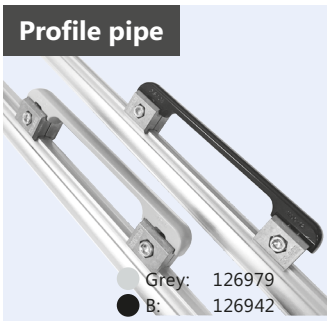
- The ELF panel is not necessary for the ELF function of the aluminium profile system, but it can reduce the resistance value.



Weight: 0.2 g
Packaging unit: 10000 pcs

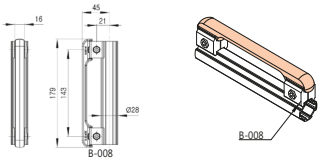
HG-143 Handle

Profile pipe



Grey: 126979
B: 126942

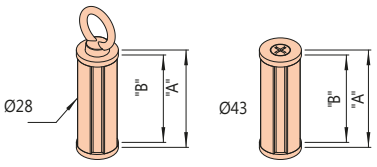
- With attachment joint APHA-3027... (Art. No. 401673 and 401674) is an adaptation to the aluminium or round steel pipe possible.



Weight: 68 g
Packaging unit: 150 pcs

WT-... Weight for easy automation

Profile pipe

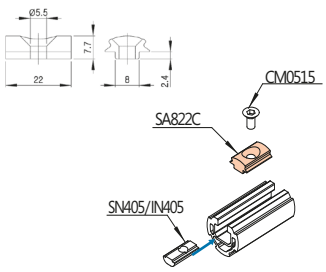


Art. No.	Name	"A" full length	"B" pipe length	Weight
126465	WT-2802	79 mm	70.0 mm	0.25kg±0.01kg
126466	WT-4305	64 mm	55.8 mm	0.5kg±0.01kg
126467	WT-4310	134 mm	125.9 mm	1.0kg±0.01kg
126468	WT-4320	276 mm	267.3 mm	2.0kg±0.01kg

SA822C Slot adapter

1-slot pipe

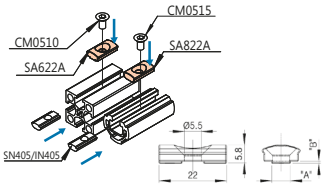
Aluminium: 130798



Weight: 4 g
Packaging unit: 1000 pcs

SA622A/SA822A Slot adapter

1-slot pipe



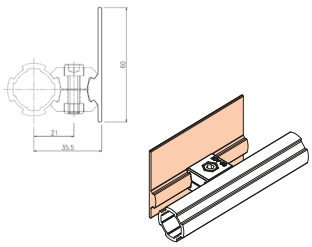
Art. No.	Name	„A"	„B"
130797	SA622A	6.1 mm	0,7 mm
127413	SA822A	7,9 mm	

Weight: 4 g
Packaging unit: 1000 pcs

ANP-01-150 Name plate 150 mm

Profile pipe

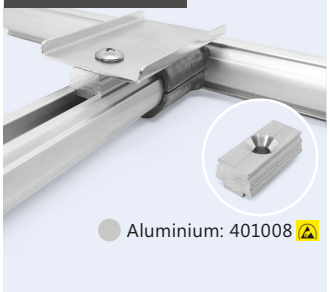
Aluminium: 119175



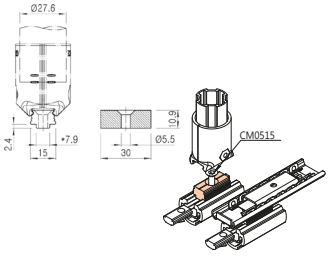
Weight: 71 g
Packaging unit: 150 pcs

SA830C Slot adapter

1-slot pipe



Aluminium: 401008

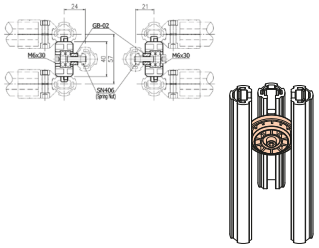


Weight: 10 g
Packaging unit: 150 pcs

ASR-52 Slot castors for 1-slot pipe

1-slot pipe

Aluminium: 119223

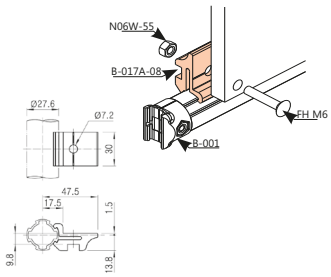


Weight: 34 g
Packaging unit: 450 pcs

B-017A-08 Sign holder

1-slot pipe

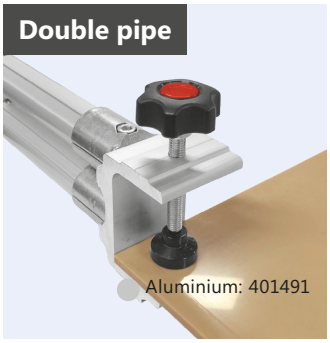
Aluminium: 123460



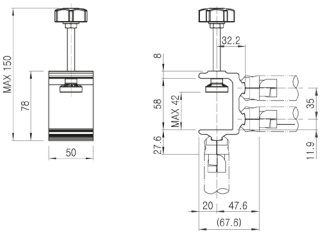
Weight: 30 g
Packaging unit: 200 pcs

ACA-315A Clamping joint with star grip screw

Double pipe



Aluminium: 401491

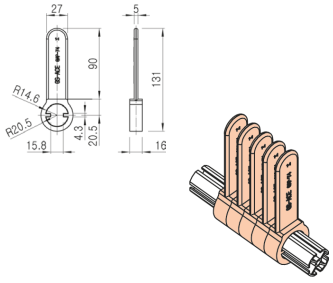


Weight: 210 g
Packaging unit: 24 pcs

GAP-74B Plastic seperator

3-/4-slot pipe

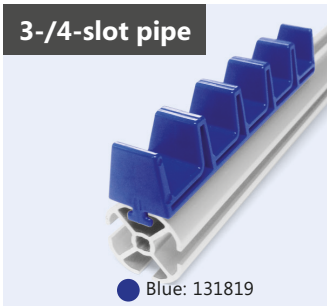
Yellow: 401214



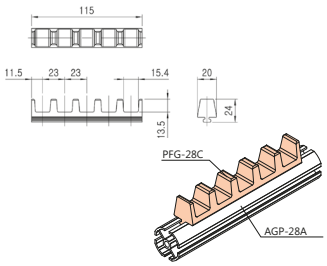
Weight: 29 g
Packaging unit: 300 pcs

PFG-28C Pipe frame guide

3-/4-slot pipe



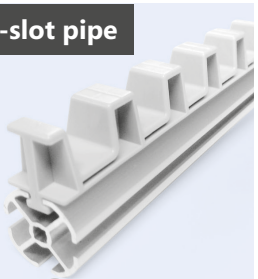
Blue: 131819



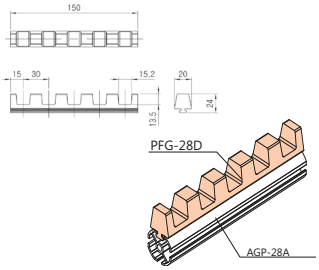
Weight: 29 g
Packaging unit: 450 pcs
Length: 115 mm

PFG-28D Pipe frame guide

3-/4-slot pipe



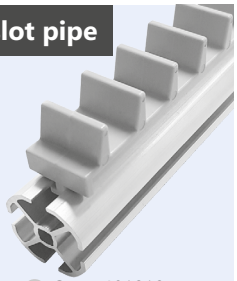
Grey: 130865



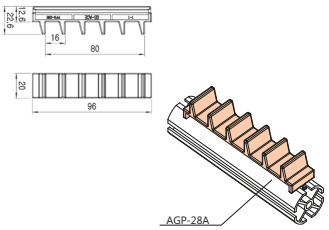
Weight: 64 g
Packaging unit: 200 pcs
Length: 150 mm

PFG-28E Pipe frame guide

3-/4-slot pipe



Grey: 401218

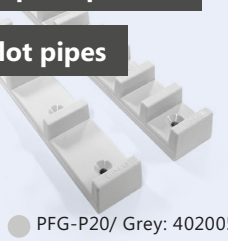


Weight: 18 g
Packaging unit: 450 pcs
Length: 96 mm

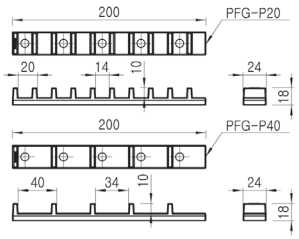
PFG-P20/40 Pipe frame guide

Alu square profile

All slot pipes



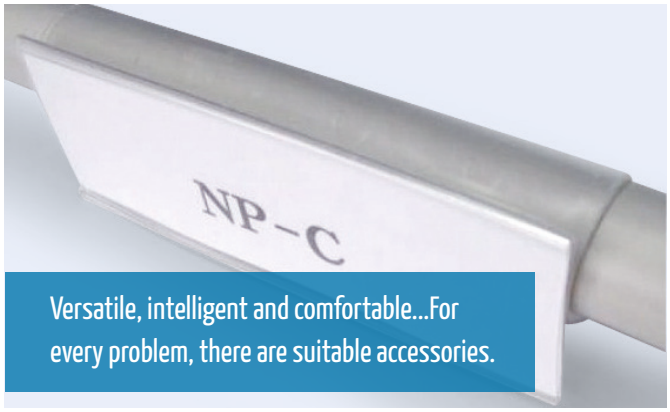
PFG-P20/ Grey: 402005
PFG-P40/ Grey: 402006
Division: 20 or 40 mm



Weight: 36 g
Packaging unit: 200 pcs
Length: 200 mm

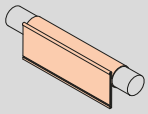
ACCESSORIES Ø28 mm round pipe

Labelling panels 100
Plastic joints 103
Pipe protection 104
Joint protection 104
Further add-on parts 108

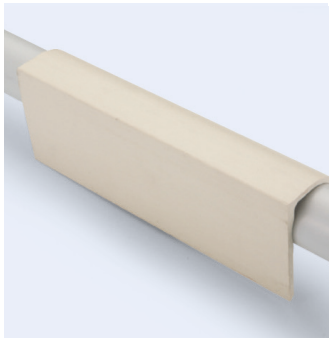


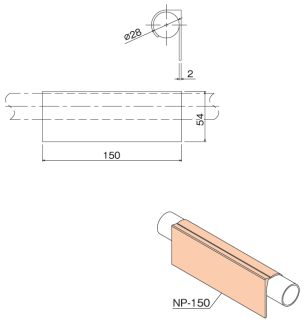
Accessories for Ø28 mm round pipe

- BeeWaTec provides various accessories for the 28mm round pipe racking system
- The label cases can be placed directly on the pipe or stuck on brackets, depending on the type of application
- Standard lengths or bulk goods are available that can be cut to size



NP-A-... Name panels, round

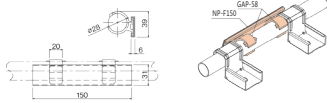




Art. No.	Name	Colour	Length
100037	NP-A-150-i	Ivory	150 mm
113417	NP-A-150-G	Grey	
100039	NP-A-300-i	Ivory	300 mm
100040	NP-A-1000-i	Ivory	1000 mm
113416	NP-A-1000-G	Grey	
113579	NP-A-3000-G	Grey	3000 mm

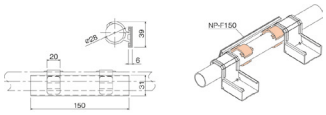
NP-F Transparent runners

- May be shortened if required
- Insertion height: 28 mm
- To be attached directly to the pipe with **GAP-58**



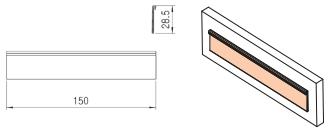
Art. No.	Name	Colour	Length
100085	NP-F-150	Transparent	150 mm
119848	NP-F-1000		1000 mm
122727	NP-F-1500		1500 mm

GAP-58 Holder for NP-F name panel



Weight: 8 g
Packaging unit: 900 pcs

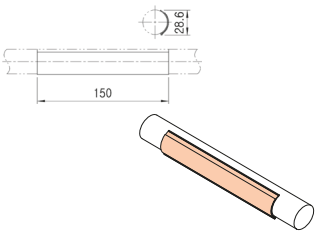
NP-H Nameplate holder



Art. No.	Name	Colour	Length
126031	NP-H150	Transparent	150 mm
126032	NP-H1000		1000 mm
125702	NP-H1500		1500 mm

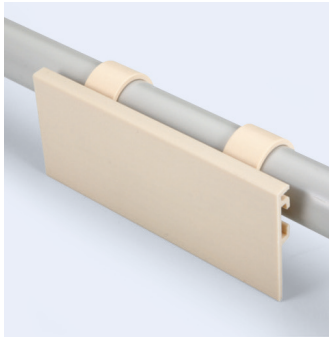
Weight: 80 g/m

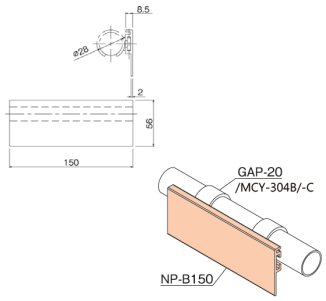
NP-R Self-adhesive name badge holder, round



Weight: 11 g
Packaging unit: 1000 pcs
Length: 150 mm

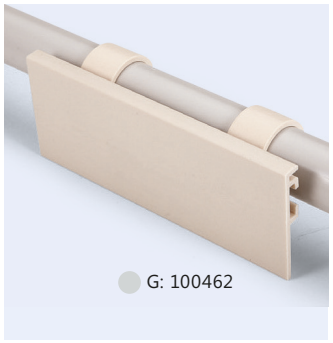
NP-B Name panels, angular



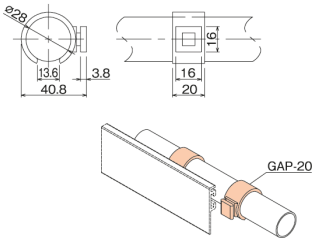


Art. No.	Name	Colour	Length
123470	NP-B-50- i	Ivory	50 mm
123471	NP-B-50-G	Grey	
113581	NP-B-100-G	Grey	100 mm
100042	NP-B-150-i	Ivory	150 mm
113420	NP-B-150-G	Grey	
100066	NP-B-1000-i	Ivory	1000 mm
112406	NP-B-1000-G	Grey	
113421	NP-B-3000-i	Ivory	3000 mm
112250	NP-B-3000-G	Grey	

GAP-20 Holder for NP-B name panel



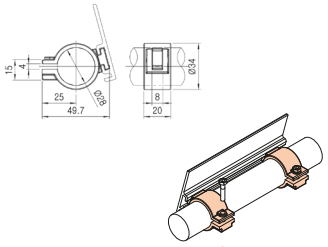
G: 100462



Weight: 6 g
Packaging unit: 1200 pcs

GAP-55-G Holder for nameplate NP-B

G: 123473



Weight: 9 g
Packaging unit: 750 pcs

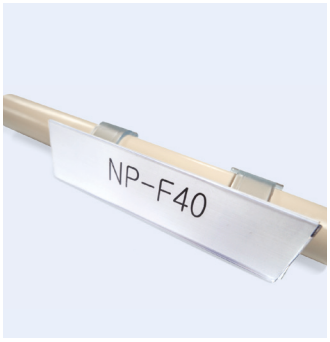
VST-Label... Nameplate for round pipe Ø26-32mm

- Transparent profile, side and top open for quick change of the separately available cardboard inserts

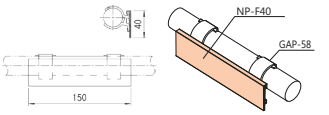
Art. No.	Name	Colour	Length
120036	VST-Label-100	Transparent	100 mm
120037	VST-Label-200		200 mm

Packaging unit: 50 pcs

NP-F40 Nameplate, height 40 mm

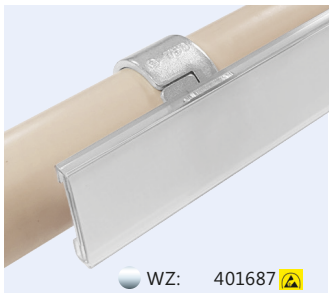


Art. No.	Name	Colour	Length
401523	NP-F40-150	Transparent	150 mm
401524	NP-F40-1000		1000 mm



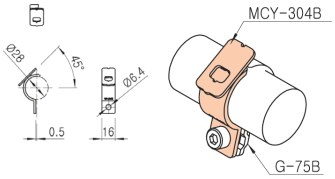
Weight: 19 g
Packaging unit: 1000 pcs

MCY-304B Nameplate holder



WZ: 401687

- for NP-F
- Material: steel, galvanised

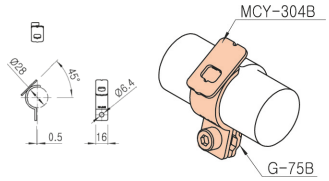


Weight: 21 g
Packaging unit: 250 pcs

GA-MCY-304B WZ Set name plate holder

WZ: 501029

- For NP-F
- Material: steel, galvanised



The set consists of following parts:

- 1 x MCY-304B
- 1 x G-75B WZ
- 1 x M0610 WZ

MCY-304B Mounting bracket

NEW

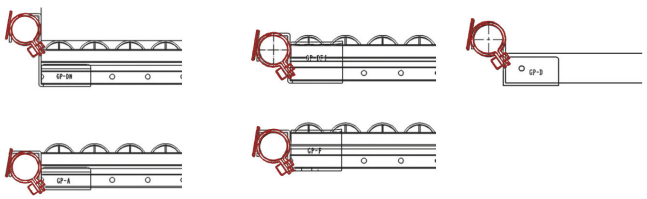
WZ: 605131

- for labelling plate NP-F
- for pipe Ø 28 mm
- Material: steel, galvanised

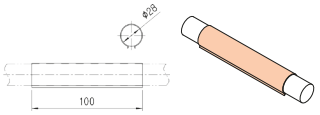
The following are required for mounting:
- 1 x G-75B WZ
- 1 x M0610 WZ

Weight: 21 g
Packaging unit: 250 pcs

Application examples MCY-304B on different roller train mounting types



NP-K Nameplate holder, round

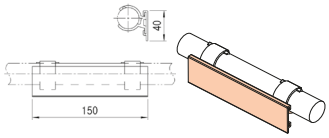


Art. No.	Name	Colour	Length
129644	NP-K100	Transparent	100 mm
129645	NP-K1000		1000 mm

Weight: 13 g
Packaging unit: 300 / 320 pcs

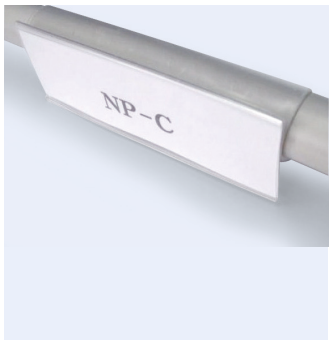
NP-G-150 Nameplate holder, angular

G: 130845

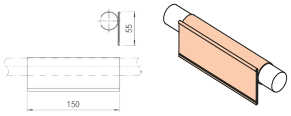


Weight: 26 g
Packaging unit: 360 pcs

NP-C Transparent runners

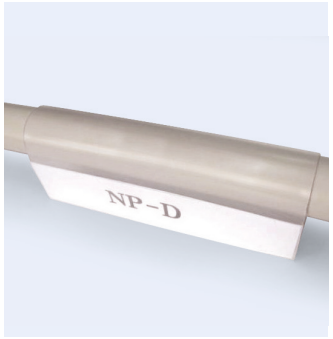


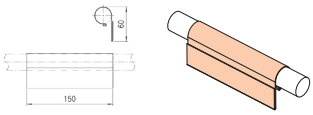
- Are attached directly to the pipe without holder



Art. No.	Name	Height	Length
113608	NP-C-100	50 mm	100 mm
109775	NP-C-150		150 mm
113609	NP-C-250		250 mm
113610	NP-C-350		350 mm

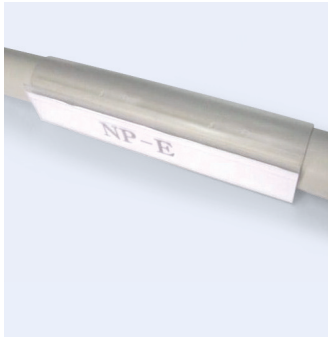
NP-D

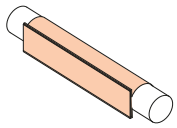




Art. No.	Name	Height	Length
113611	NP-D-100	33 mm	100 mm
109776	NP-D-150		150 mm
109779	NP-D-1000		1000 mm

NP-E





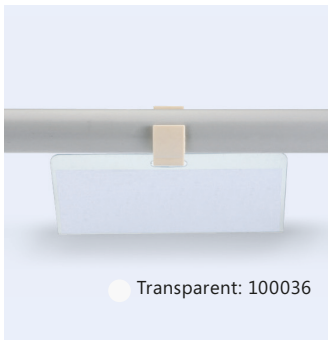
Art. No.	Name	Height	Length
113616	NP-E-100	23 mm	100 mm
109777	NP-E-150		150 mm
113617	NP-E-250		250 mm
113618	NP-E-350		350 mm
109780	NP-E-1000		1000 mm

LA-B/C Transparent plastic pockets

- Are attached to the pipe with holder GAP-06

Art. No.	Name	Format	Weight	Packaging unit
100035	LA-B	300x120mm	50 g	100 pcs
112991	LA-CA3	430x320mm	180 g	200 pcs
100059	LA-CA4	300x220mm	88 g	100 pcs
109982	LA-CA4-E	300x220mm	75 g	100 pcs
109983	LA-CA6-E	150x115mm	32 g	100 pcs

LA-D Transparent plastic pockets

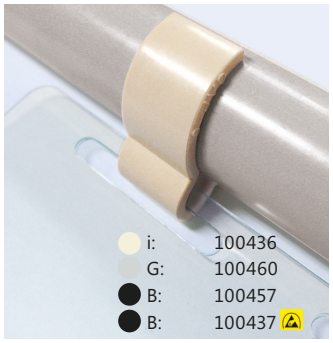


Transparent: 100036

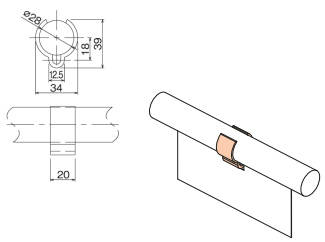
- **Format**: 150x60mm

Weight: 12 g
Packaging unit: 300 pcs

GAP-06 Holder for LA-B/LA-CA

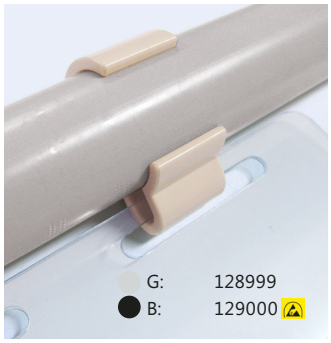


i: 100436
G: 100460
B: 100457
B: 100437

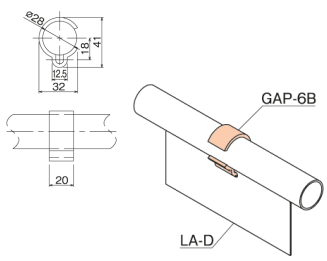


Weight: 5 g
Packaging unit: 1200 pcs

GAP-6B Holder for LA-D

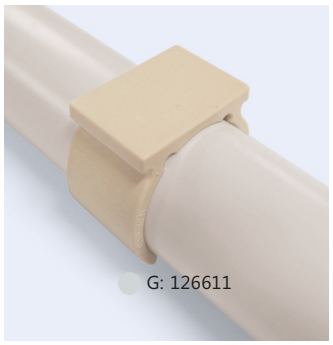


G: 128999
B: 129000

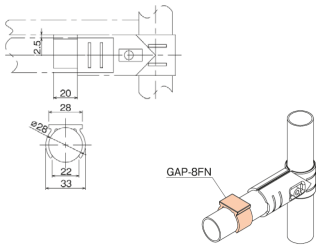


Weight: 5 g
Packaging unit: 1200 pcs

GAP-08FN Pipe clipe, plastic

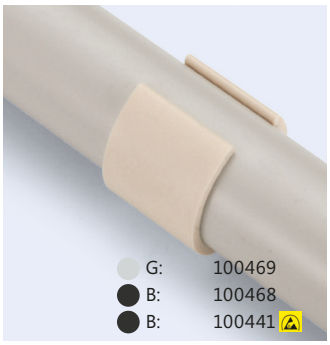


G: 126611

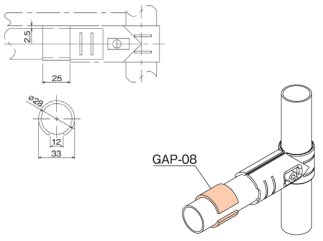


Weight: 5 g
Packaging unit: 1200 pcs

GAP-08 Pipe clip

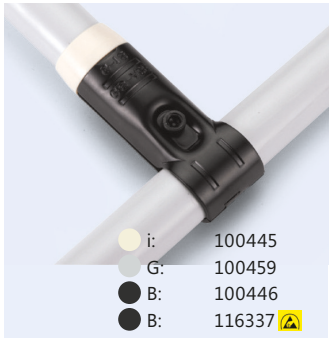


G: 100469
B: 100468
B: 100441



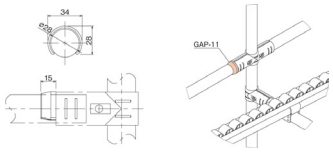
Weight: 5 g
Packaging unit: 1200 pcs

GAP-11 Taper edge



i: 100445
G: 100459
B: 100446
B: 116337

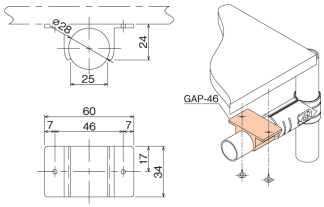
- Facilitates the transition to slideways



Weight: 2 g
Packaging unit: 250 pcs

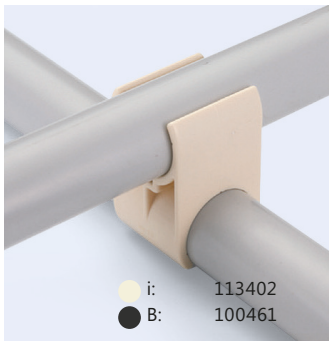
GAP-46 Pipe holder for clipping

B: 100470

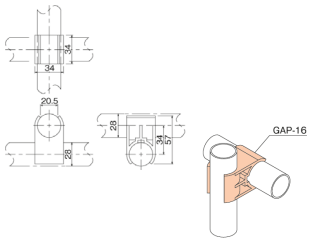


Weight: 13 g
Packaging unit: 450 pcs

GAP-16 Pipe joint clip

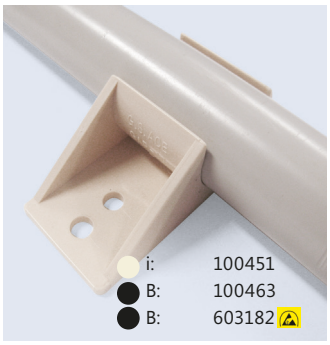


i: 113402
B: 100461

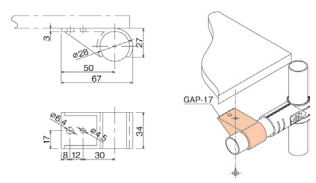


Weight: 18 g
Packaging unit: 300 pcs

GAP-17 Pipe holder for clipping

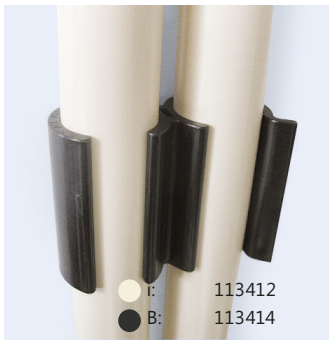


i: 100451
B: 100463
B: 603182

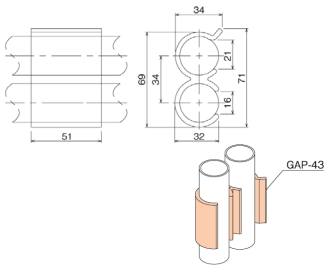


Weight: 14 g
Packaging unit: 400 pcs

GAP-43 Parallel joint

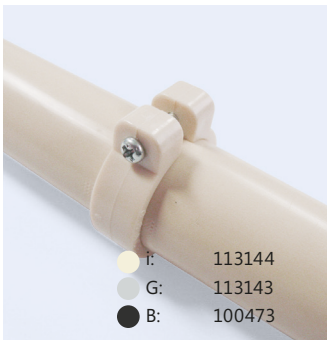


i: 113412
B: 113414

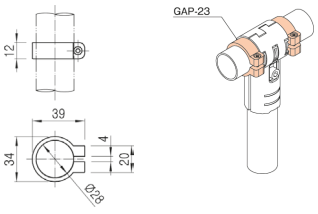


Weight: 28 g
Packaging unit: 150 pcs

GAP-23 Plastic holder



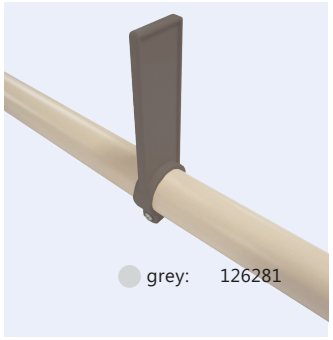
i: 113144
G: 113143
B: 100473



Please order mounting materical bolt SLK0320 and nut 03 separately.

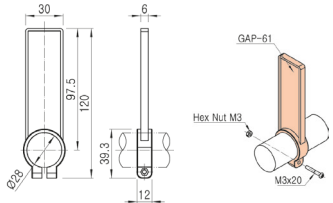
Weight: 20 g
Packaging unit: 300 pcs

GAP-61 G Pipe clip



grey: 126281

- for screw mounting
- Material plastic



Fastening material: SLK0320 4.8 (111311) and nut M03 (110140) must be ordered separately

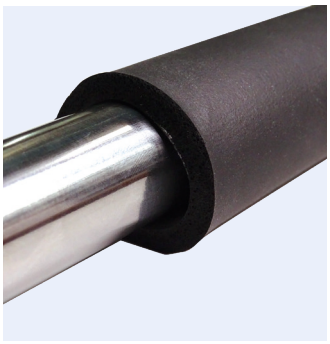
Weight: 15 g
Packaging unit: 400 pcs

PC-LDPE Pipe wrapper of LDPE-foam, grey

- Length (Tolerance 1±4%): 1000 mm

Art. No.	Name	Wall thickness	Ø Internal
104098	PC-LDPE-5	5 mm	31 mm
607737	PC-LDPE-9	9 mm	29 mm
104100	PC-LDPE-13	13 mm	29 mm

FG-436 Pipe protection cover

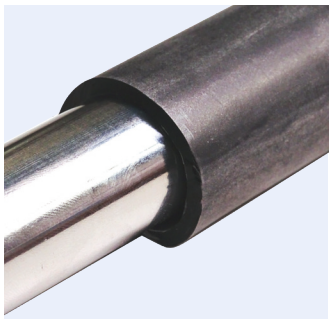


- Material: closed-pore EPDM
- Colour: black, talc-powdered
- Density 0.5 mm
- Ø Internal: approx. 31 mm
- wall thickness: approx. 6 mm

Art.-No.	Lenght
129636	20000 mm
NEW 615750	1000 mm

Weight: 350 g/m

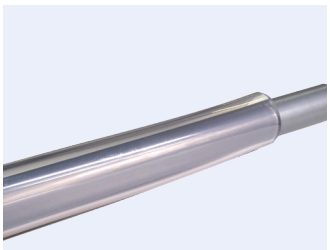
FG-3735 Pipe protection cover made of EPDM



- EPDM tube (closed) 50° Shore A
- Black antistatic < 10^8 Ohm
- Tolerance DIN ISO 3302-1 E2
- Ø Internal: approx. 30 mm
- Ø Outer: approx. 37 mm
- wall thickness: approx. 3,5 mm

Art.-No.	Lenght
128244	20000 mm
NEW 615779	1000 mm

FG-3535 PVC hose without insert



- Dimensions (LxD): 35 x 3.5 mm
- For pressure-less use

Transparent: 120260

Art.-No.	Lenght
120260	25000 mm
NEW 615766	1000 mm

FG-384 PVC hose without insert

- Dimensions (LxD): 30 x 4 mm
- For pressure-less use

Transparent: 117352

Art.-No.	Lenght
117352	max. 25 m
NEW 615739	1000 mm

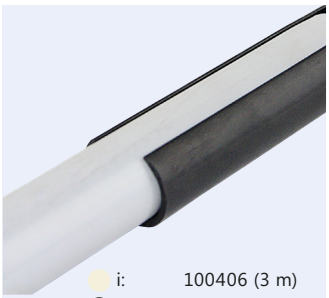
FG-469 Pipe protection with signal colours

- A half shell
- Outer Ø: 46 mm
- Material: Polyurethane foam Shore A 35-40
- Fixation through integrated adhesive surface

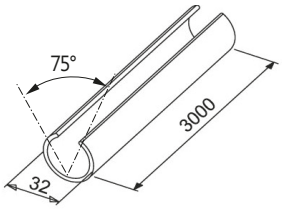
White: 401705

Material thickness: 10 mm
Length: 1000 mm
Weight: 30 g

PC-01 Pipe cover 75° diameter



i: 100406 (3 m)
B: 100424 (4 m)

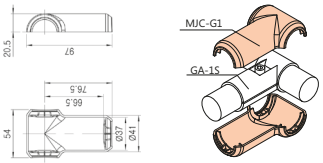


Material thickness: 2.5 mm
Material: PVC
Length: 3 or 4 m
Weight: 0.32 kg/m

MJC-G1 Joint protection

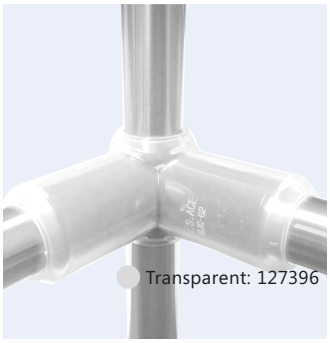
Transparent: 126886

Suitable for:
- Steel joint GA-1S



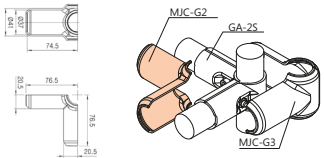
Weight: 13 g
Packaging unit: 150 pcs
Material: PP

MJC-G2 Joint protection (inner shell)



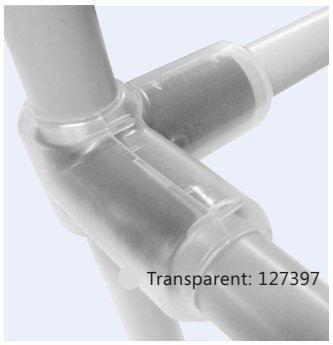
Transparent: 127396

Suitable for:
- Steel joint G-2S
- Steel joint G-3S
- Steel joint GA-2S
- Steel joint GA-5S

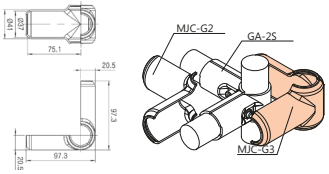


Weight: 13 g
Packaging unit: 280 pcs
Material: PP

MJC-G3 Joint protection (outer shell)



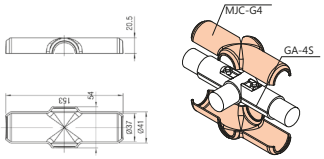
Suitable for:
- Steel joint G-3S
- Steel joint GA-3S



Weight: 20 g
Packaging unit: 120 pcs
Material: PP

MJC-G4 Joint protection

Suitable for:
- Steel joint G-4S
- Steel joint GA-4S



Weight: 20 g
Packaging unit: 120 pcs
Material: PP

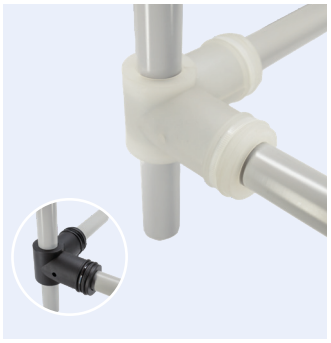
JP-01... Joint protection

- Material TPE, ShoreA 70
- Suitable for:
  Steel joint **GA-1S** and similar joints

Fixing material (cable ties):
- 200 x 4,8 mm, transparent (HA201840)
- 360 x 4,8 mm, black (600923)

Art.-No.	Name	Colour	Weight
403502	JP-01	white/milky	74 g
403715	JP-01-E	black	66 g

JP-02... Joint protection



- Material TPE, ShoreA 70
- Suitable for:
  Steel joint **GA-2S** and similar joints

Fixing material (cable ties):
- 200 x 4,8 mm, transparent (HA201840)
- 360 x 4,8 mm, black (600923)

Art.-No.	Name	Colour	Weight
403503	JP-02	white/milky	112 g
403717	JP-02-E	black	98 g

JP-03... Joint protection

- Material TPE, ShoreA 70
- Suitable for:
  Steel joint **GA-3S** and similar joints

Fixing material (cable ties):
- 200 x 4,8 mm, transparent (HA201840)
- 360 x 4,8 mm, black (600923)

Art.-No.	Name	Colour	Weight
403504	JP-03	white/milky	145 g
403718	JP-03-E	black	130 g

JP-04... Joint protection

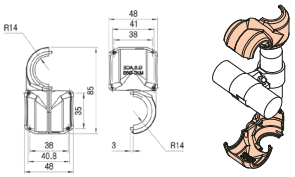
- Material TPE, ShoreA 70
- Suitable for:
  Steel joint **GA-4S** and similar joints

Fixing material (cable ties):
- 200 x 4,8 mm, transparent (HA201840)
- 360 x 4,8 mm, black (600923)

Art.-No.	Name	Colour	Weight
403505	JP-04	white/milky	112 g
403719	JP-04-E	black	98 g

MJC-G6S Joint protection

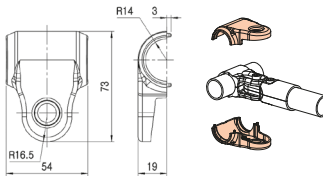
- Half-shell
- Suitable for: **GA-6S**



Weight: 10 g
Packaging unit: 150 pcs
Material: PP

MJC-G7A Joint protection

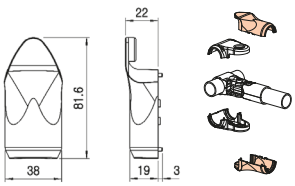
- Half-shell
- Suitable for: the joint half-shell **G-7AS** from the **GA-7S** set



Weight: 8 g
Packaging unit: 300 pcs
Material: PP

MJC-G7B Joint protection

- Half-shell
- Suitable for: the joint half-shell **G-7BS** from the **GA-7S** set



Weight: 8 g
Packaging unit: 300 pcs
Material: PP

GA-1-PP Joint protection

B: 124762
Transparent: 402139

Suitable for:
- Steel joint GA-1S

Weight: 24 g

G-2-PP Joint protection (inner shell)

B: 124765

Suitable for:
- Steel joint G-2S
- Steel joint GA-2S
- Steel joint GA-3S
- Steel joint GA-5S

Weight: 17 g

G-3-PP Joint protection (outer shell)

B: 124764

Suitable for:
- Steel joint G-3S
- Steel joint GA-2S

Weight: 24 g

G-4-PP Joint protection

B: 124763

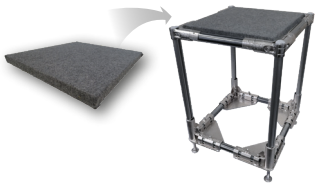
Suitable for:
- Steel joint G-4S
- Steel joint GA-4S

Weight: 21 g

SPACE FOR NOTES

Fleece

- Fleece, protective pad, self-adhesive
- Dimensions (LxWxH): 100mx1500x0.9mm
- Available as 100 m roll or lengthened



ELF microfiber table mat

- Texture top: ESD microfiber (surface resistance: 10E6-7W)
- Basic: conductive rubber sponge (SR: 10E-4W)
- Not self-adhesive
- Slip-resistant
- Dimensions (LxWxH): 9500x960x2.5mm

ELF microfiber table mat thin

- Texture top: ESD microfiber surface resistance: 10E6-7W)
- Basic: conductive rubber sponge (SR: 10E-4W)
- Lightly self-adhesive
- Roll scratch reisistant
- Dimensions (LxWxH): 10000x700x0.9mm

ESD microfiber adhesive band

- Material: top: ESD conductive material (surface resistance: 10EG-7W)
- Bottom: ESD conductive acrylic adhesive (SR: 10E7-8W)
- Dimensions (LxWxH): 30000x40x0.2mm

VEL-25 Sticky velcro strap

- Shorter lengths available upon request

Art. No.	Name	Strap type	Width
116728	VEL-25-M	Hool	20 m/ Roll
116727	VEL-25-W	Fleece	

EB 5700 SC Earthing device (ESD accessories)

- Earthing device for insertion into socket
- With 3 x DK 10 snap terminals.

VL 5703 SC Connection line (ESD accessories)

- Connection line, 3 m,
- DK 10 snap terminal on either side
- Resistance: 1 MΩ.

DK 10 Snap (ESD accessories)

- Single snap for riveting or screwing

HB 5706 SC Wrist band (ESD accessories)

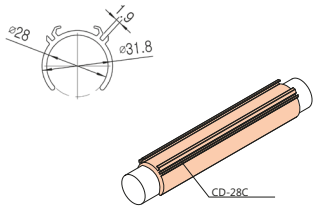
- Made of special elastic anti-allergic fabric
- Adjustable
- DK 4 snap terminal.

SK 5708 SC Spiral cable (ESD accessories)

- Spiral cable
- 1.80 m in length
- DK 10 snap terminal on one side and DK 4 for wrist band on the other
- Resistance: 1 MΩ

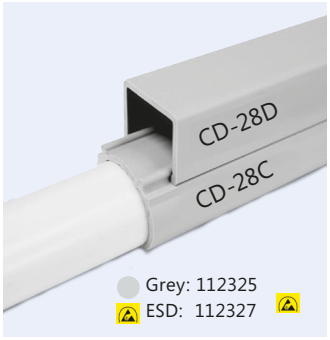
CD-28C Cabel channel

Grey: 112324
ESD: 112326

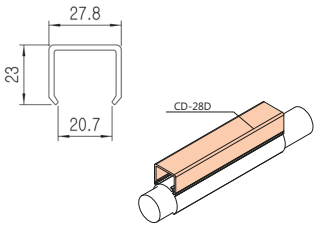


Material:	PVC
Length:	4 m
Weight:	0.26 kg/m

CD-28D Cabel channel

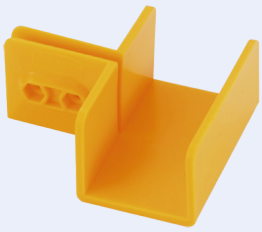


Grey: 112325
ESD: 112327

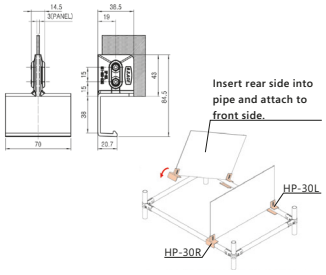


Material:	PVC
Length:	4 m
Weight:	0.22 kg/m

HP-30L Holder panel made of plastic

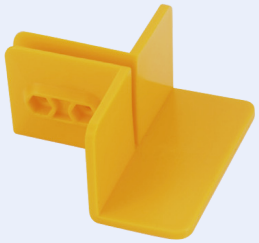


Yellow: 126201

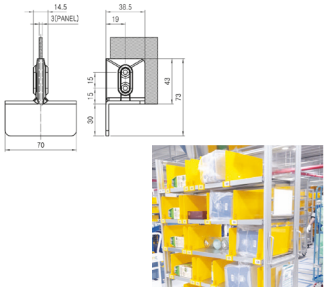


Weight:	30 g
Packaging unit:	240 pcs

HP-30R Holder panel made of plastic



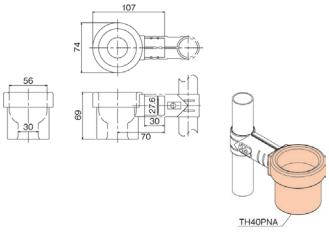
Yellow: 126202



Weight:	22 g
Packaging unit:	400 pcs

TH40PA Tool holder plastic, closed

BK: 112764

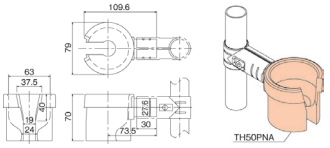


Weight:	87 g
Packaging unit:	50 pcs

TH50PA Tool holder plastic, slotted

BK: 100058

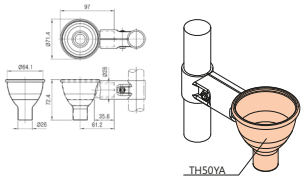
- For faster storage and picking up the tool



Weight:	87 g
Packaging unit:	50 pcs

TH50YA Tool holder metal

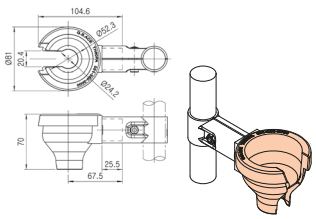
WZ: 100022



Weight:	108 g
Packaging unit:	25 pcs

TH60PA Tool holder PE/plastic, slotted

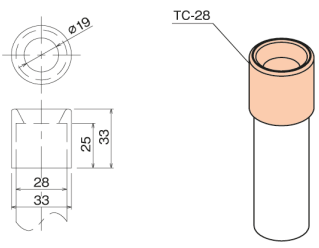
BK: 119218



Weight:	82 g
Packaging unit:	50 pcs

TC-28 Tool holder plastic

BK: 119220



Weight:	12 g
Packaging unit:	450 pcs

WZK-O OTTO tool holster

Blue: 116772

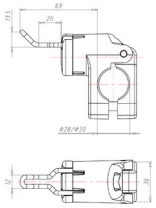
- Universal tool rest

Weight:	500 g

WZHSR-01-E Tool holder

BK: 603985

- Straight wire hook, 24 mm long
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery

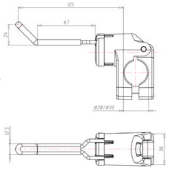


Material: Plastic
Weight: 193 g

WZHSR-02 Tool holder

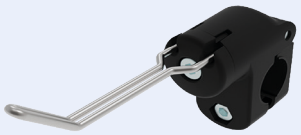
BK: 603986

- Straight wire hook, 67 mm long, rubberised
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery



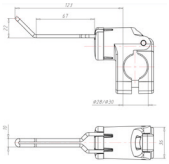
Material: Plastic
Weight: 222 g

WZHSR-03-E Tool holder



BK: 603987

- Straight wire hook, 66 mm long
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery

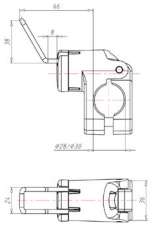


Material: Plastic
Weight: 170 g

WZHSR-04-E Tool holder

BK: 603988

- Angled wire hook, 8 mm long
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery

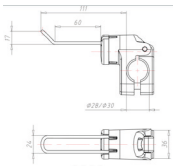


Material: Plastic
Weight: 185 g

WZHSR-05-E Tool holder

BK: 603989

- Straight wire hook, 59 mm long
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery

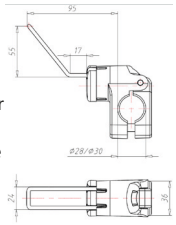


Material: Plastic
Weight: 190 g

WZHSR-06-E Tool holder

BK: 603990

- Angled wire hook, 17 mm long
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery

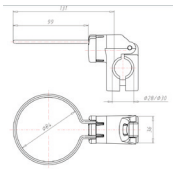


Material: Plastic
Weight: 191 g

WZHSR-07-E Tool holder

BK: 603991

- Wire ring, Ø80 mm
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery

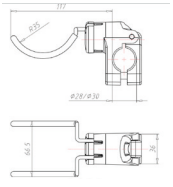


Material: Plastic
Weight: 990 g

WZHSR-08 Tool holder

BK: 603992

- Two bent wire hooks, 66.5 mm wide, rubberised
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery

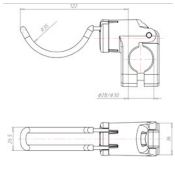


Material: Plastic
Weight: 226 g

WZHSR-09 Tool holder

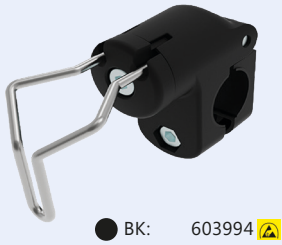
BK: 603993

- Two bent wire hooks, 26.5 mm wide, rubberised
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery



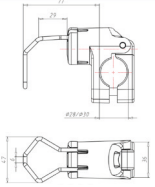
Material: Plastic
Weight: 230 g

WZHSR-10-E Tool holder



BK: 603994

- Cloth clamp holder made of wire
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery

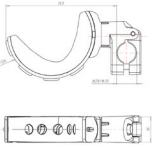


Material: Plastic
Weight: 192 g

WZHSR-12-E Tool holder

BK: 603996

- Set of 2
- with shelf, rubberised, 160 mm long
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery

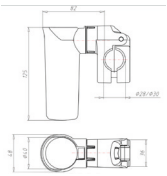


Material: Plastic
Weight: 315 g

WZHSR-14-E Tool quiver

BK: 603998

- Tool quiver, Inner-Ø40 mm, Height 125 mm
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery

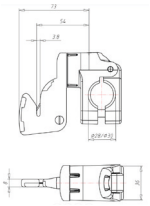


Material: Plastic
Weight: 239 g

WZHSR-15-E Foil cutter

BK: 603999

- Foil cutter with replaceable blade
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery

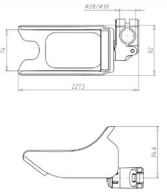


Material: Plastic
Weight: 200 g

WZHSR-16-E Packing tape dispenser holder

BK: 604000

- Inner width 74 mm, depth 150 mm
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery

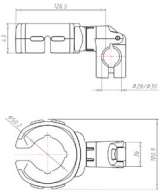


Material: Plastic
Weight: 260 g

WZHSR-17-E Screwdriver holder

BK: 604001

- Inner-Ø50 mm
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery



Material: Plastic
Weight: 255 g

ABH-1 Tool/drink holder

Grey: 100077

- For bottles square drink containers, tools, etc.
- Grey coated

Weight: 232 g
Packaging unit: 20 pcs

Cup dispenser

NEW

BK: 607390

- Cup dispenser for placing bottles, glasses and cups with a maximum diameter of 95 mm
- Can be clamped onto a pipe diameter of 11 to 30 mm using a metal clamp

Weight: 133 g

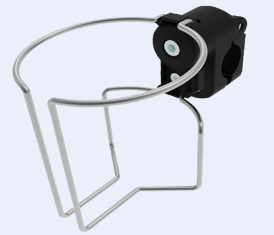
TH-100H Universal drink holder in heavy version

BK: 117333

- Stable drink holder for holding bottles, glasses and cups with a max. diameter of 100 mm
- Can be connected to the pipe system using the knurled head bolt
- Black
- Lightweight design

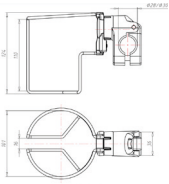
Weight: 400 g

WZHSR-11-E Bottle and cup holder



BK: 603995

- Ø100 mm
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery

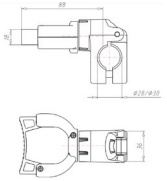


Material: Plastic
Weight: 283 g

WZHSR-13 Clamp holder

BK: 603997

- Broom handle clamp holder for Ø20-30 mm
- 360° rotatable and can be fixed in 10° increments
- Pre-assembled with round pipe holder D 30 mm
- Rubber insert for D 28 mm included in the scope of delivery



Material: Plastic
Weight: 210 g

KH-25 Clamp-type tool holder

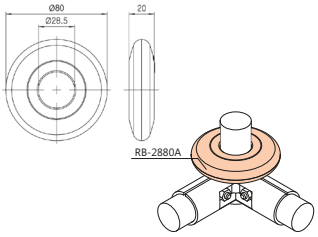
BK: 116787

- Holds devices with diameters up to 25 mm
- Mounted to pipe system using self-drilling bolts or similar

Weight: 33 g

RB-2880A Bumper for pipe

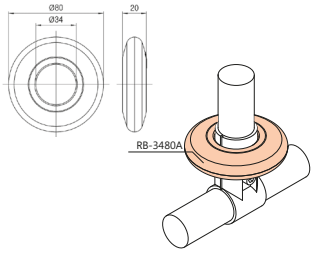
Grey white: 125257



Weight: 60 g
Packaging unit: 150 pcs

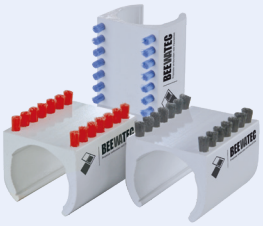
RB-3480A Bumper for joint

Yellow: 125258



Weight: 65 g
Packaging unit: 150 pcs

BSB28-... Brush protection for your sensitive goods

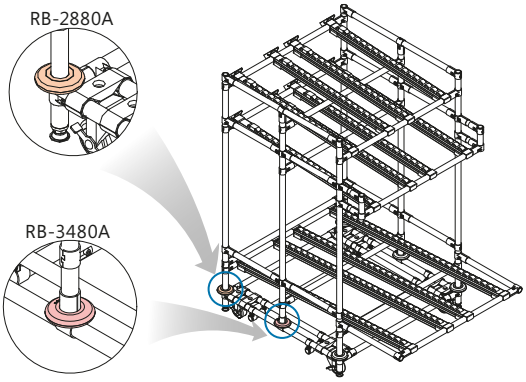


BK: 114069 (Ø 0,10mm)
Blue : 114070 (Ø 0,20mm)
Red : 114071 (Ø 0,30mm)

- Material: Polyamide 6

Length: 40 mm
Fibre height: 5 mm

Application example RB-2880A and RB-3480A



ALUMINIUM Ø 43 mm

PIPES

Round pipes 116
Double pipes 116
Cover caps 116

JOINTS

Basic joints 118
Swivel joints 119
Angle joints 121
Parallel joints 122
Joining elements 123
Drive-in sleeves 123

ADD-ON PARTS

Profiles for panel attachment 126
Further add-on parts 127

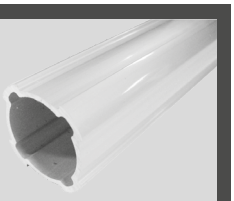
SPACE FOR NOTES

ALUMINIUM pipes Ø 43 mm

Round pipes

116

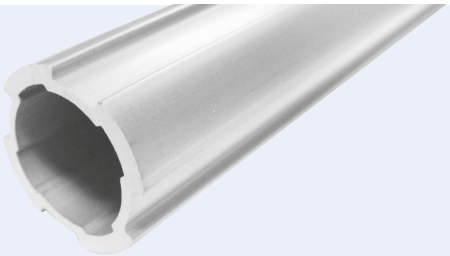
Profile pipes



116

Cover caps

116

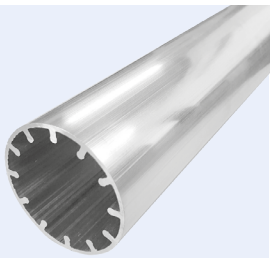


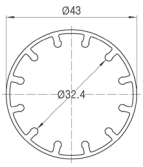
For the heavy-weights: Ø43 mm Aluminum pipe racking system by G.S. ACE.

Aluminium pipes Ø43 mm

- The 43mm profile pipe plus all aluminium joints has been designed for stronger constructions compared with the 28mm pipe
- Available with various wall strengths and load capacities

AR4312 Aluminium round pipe Ø43 mm

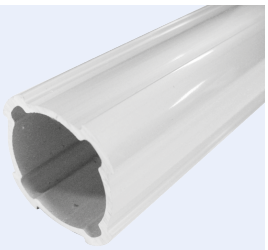


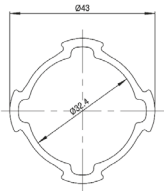


Aluminium: 403442

Thickness:	1,2 mm
Weight:	0,697 kg/m
Length	4 m

AP4319C Aluminium profile pipe Ø43 mm



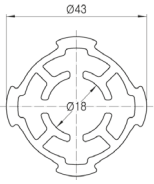


Aluminium: 125254

Thickness:	2,5 mm
Weight:	0,735 kg/m
Length	4 m

AP4319H Heavy load aluminium pipe Ø43 mm

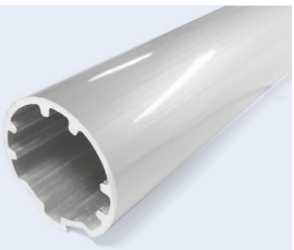
- Reinforced by internal ribs

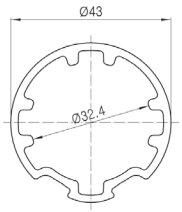


Aluminium: 130805

Thickness:	2,6 mm
Weight:	1,284 kg/m
Length	4 m

AQ4320 Aluminium profile pipe Ø43 mm





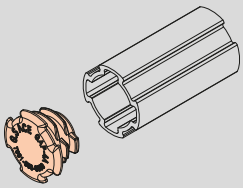
Aluminium: 403441

Thickness:	2 mm
Weight:	0,930 kg/m
Length	4 m

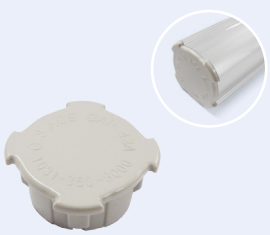
The right cover for every pipe.

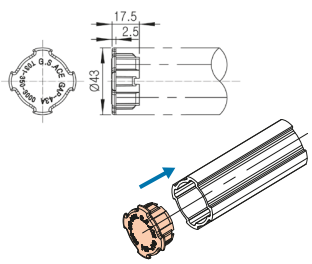
Cover caps (Ø43 mm)

- Cover caps for sealing profile pipes
- Reduces the risk of injury and contamination



GAP-43A Cover cap for AP4319C

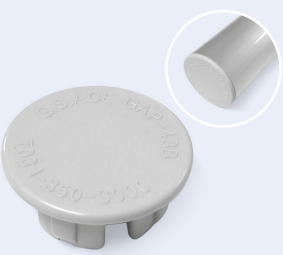




Grey: 126253
BK: 403536

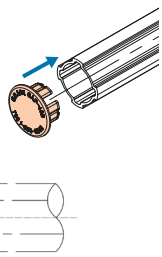
Weight:	5 g
Packaging unit:	900 pcs

GAP-43B Cover cap pipe



Grey: 130813

Suitable for:
- AP4319H
- AQ4320
- AR4312



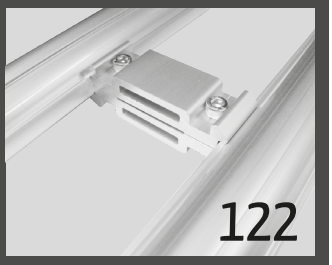
Weight:	7 g
Packaging unit:	900 pcs

ALUMINIUM joints Ø 43 mm

Basic joints 118

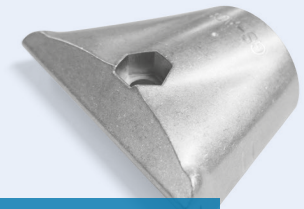
Swivel joints 119

Angle joints 121

Parallel joints  122

Joining elements 123

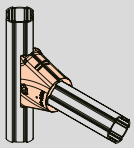
Drive-in sleeves 123



The right basic external clamping joints for every pipe.

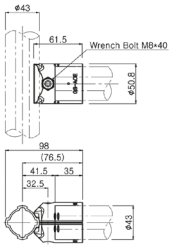
Basic external clamping joints

- Die-cast aluminium external clamping joints which permit tolerances when processing the pipes
- Profile and round pipes can be partially inserted



A-401 Basic external clamping joint

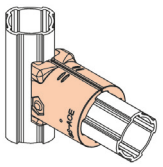
Aluminium: 126223



Weight: 77 g
Packaging unit: 60 pcs

AA-401 Set of basic external clamping joints

Aluminium: 126224

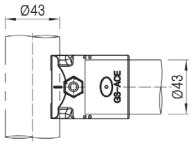


The set consists of following parts:

- 2 x A-401
- 1 x SI0840 8.8
- 1 x M08

A-401C Basic external clamping joint

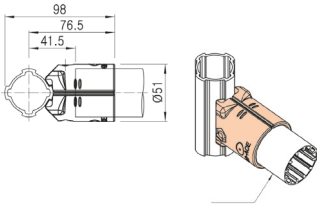
Aluminium: 403432



Weight: 77 g
Packaging unit: 60 pcs

AA-401C Set of basic external clamping joints

Aluminium: 501056

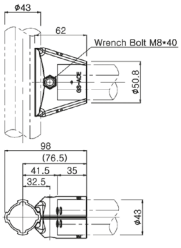


The set consists of following parts:

- 2 x A-401C
- 1 x SI0840 8.8
- 1 x M08

A-401W Basic external clamping joint

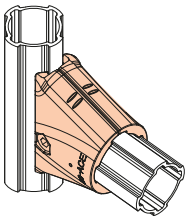
Aluminium: 125272



Weight: 123 g
Packaging unit: 40 pcs

AA-401W Set of basic external clamping joints

Aluminium: 126225

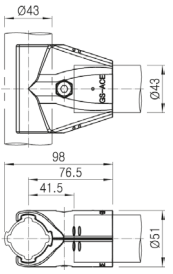


The set consists of following parts:

- 2 x A-401W
- 1 x SI0840 8.8
- 1 x M08

A-421 Basic external clamping joints

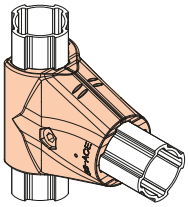
Aluminium: 401675



Weight: 137 g
Packaging unit: 30 pcs

AA-421 Set of basic external clamping joints

Aluminium: 501064

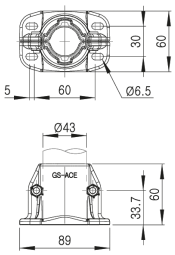


The set consists of following parts:

- 2 x A-421
- 1 x SI0840 8.8
- 1 x M08

A-104 Profile basic external clamping joint

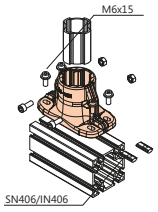
Aluminium: 130783



Weight: 102 g
Packaging unit: 40 pcs

AA-104 Set of profile basic clamping joint

Aluminium: 130855



The set consists of following parts:

- 2 x A-104
- 2 x SI0614 8.8
- 2 x M06

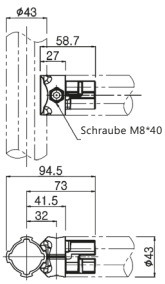
The right basic internal clamping joints for every pipe.

Basic internal clamping joints

- Die-cast aluminium internal clamping joints
- Do not create any protrusions on the joints and facilitate consistent levels
- Saw cuts have to be more precise
- Profile and round pipes can be partially inserted

B-401 Basic internal clamping joint

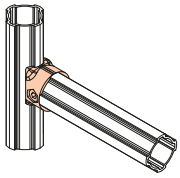
Aluminium: 126231



Weight: 61 g
Packaging unit: 100 pcs

BA-401 Set of basic internal clamping joints

Aluminium: 126232



The set consists of following parts:

- 2 x B-401
- 1 x SI0830 8.8
- 1 x M08

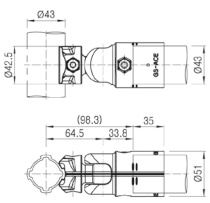
Keep mobile with external clamping, movable angle joints.

External Clamping and movable angle joints

- Join profiles and pipes at any angle
- Die-cast aluminium, movable external angle joints which permit tolerances when processing the pipes
- Profile pipes can be inserted

A-407B Angle external clamping joint

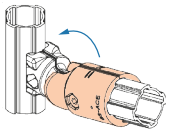
Aluminium: 403433



Weight: 83 g
Packaging unit: 60 pcs

AA-407F Set of angle external clamping joint

Aluminium: 501057



The set consists of following parts:

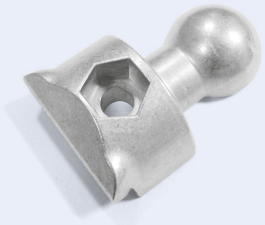
- 2 x A-407B
- 2 x B-407A
- 1 x SI0840 8.8
- 2 x SI0830 8.8
- 2 x M08

Keep mobile! With the internal clamping movable angle joint.

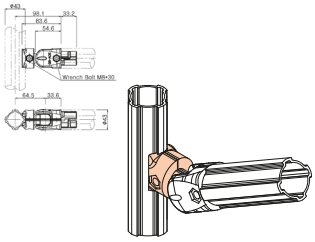
Movable internal clamping angle joints

- Die-cast aluminium, movable internal clamping joints
- Profile pipes can be inserted
- Easy, angled assembly on profile grooves

B-407A Angle internal clamping joint

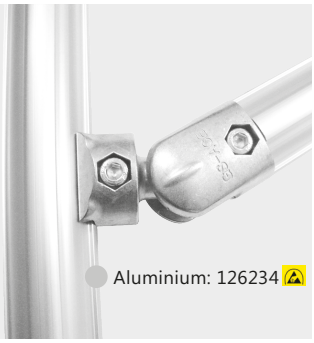


Aluminium: 126233

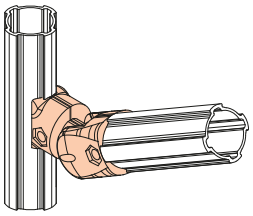


Weight: 49 g
Packaging unit: 120 pcs

BA-407F Set of angle internal clamping joints



Aluminium: 126234

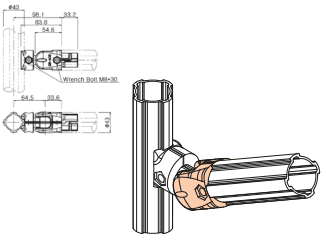


The set consists of following parts:

- 2 x B-407A
- 2 x B-407B
- 2 x M08
- 2 x SI0830

B-407B Angle joint, counter part to B-407A

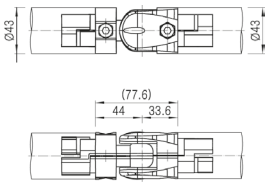
Aluminium: 126235



Weight: 83 g
Packaging unit: 60 pcs

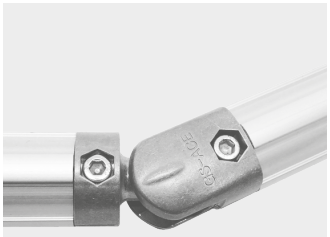
A-407C Angle internal clamping joint

Aluminium: 403438



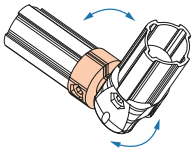
Weight: 70 g
Packaging unit: 60 pcs

BA-427F Set of angle internal clamping joints



Aluminium: 501058

- The angle joint is **fixed** in the tightened state
- Rotation possible



The set consists of following parts:

- 2 x B-407C
- 2 x B-407B
- 2 x SI0830 8.8
- 2 x M08

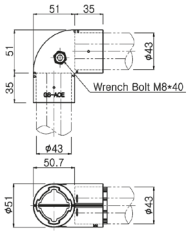
It's solid! With the external clamping fixed angle joint.

Fixed external clamping angle joints

- Die-cast aluminium, movable external clamping joints which permit tolerances when processing the pipes
- Profile and round pipes can be inserted

A-490 Angle external clamping joint, 90°

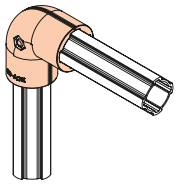
Aluminium: 126229



Weight: 131 g
Packaging unit: 30 pcs

AA-490 Set of angle clamping joints, 90°

Aluminium: 126230

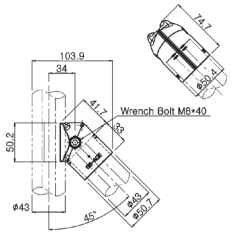


The set consists of following parts:

- 2 x A-490
- 1 x SI0840 8.8
- 1 x M08

A-413L Angle external clamping joint, 45° left

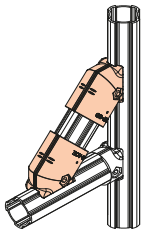
Aluminium: 126226



Weight: 82 g
Packaging unit: 50 pcs

AA-413 Set of angle clamping joints, 45°

Aluminium: 126228

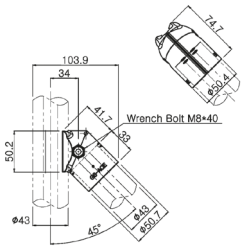


The set consists of following parts:

- 1 x A-413L
- 1 x A-413R
- 1 x SI0840 8.8
- 1 x M08

A-413R Angle external clamping joint, 45° right

Aluminium: 126227

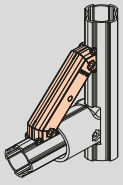


Weight: 82 g
Packaging unit: 50 pcs

One thing you can rely on! With the internal clamping fixed angle joint.

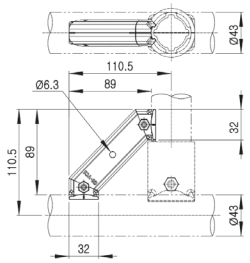
Fixed internal clamping angle joints

- Die-cast aluminium, fixed internal clamping joints
- Profile pipes can be inserted
- Easy, angled assembly on profile grooves



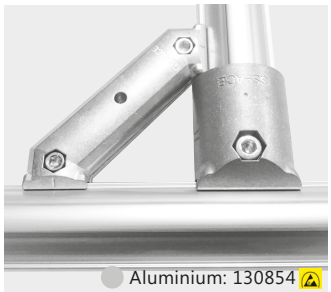
B-445 Angle internal clamping joint 90°

Aluminium: 130809

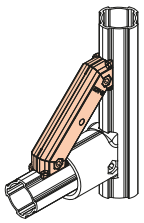


Weight: 60 g
Packaging unit: 60 pcs

BA-445 Set of angle clamping joints, 90°



Aluminium: 130854

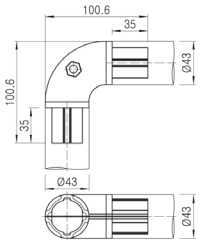


The set consists of following parts:

- 2 x B-445
- 1 x M0620
- 1 x N06-55

B-490 Angle internal clamping joint 90°

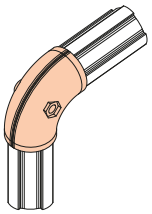
Aluminium: 403443



Weight: 126 g
Packaging unit: 30 pcs

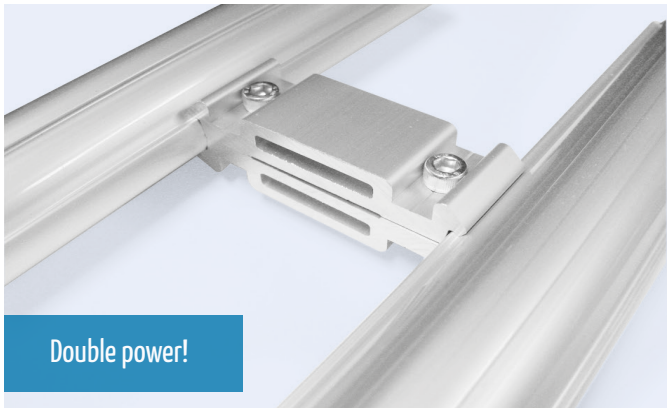
BA-490 Set of angle clamping joints, 90°

Aluminium: 501059



The set consists of following parts:

- 2 x B-490
- 1 x SI0830 8.8
- 1 x M08



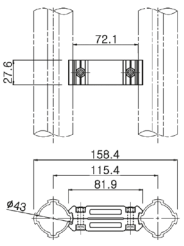
Double power!

Parallel joints

- Die-cast aluminium parallel joints for strengthening parallel pipes, increasing resistance to bending and increasing the load-bearing capacity
- Easy, angled assembly on profile grooves

B-411 Parallel joint (inside)

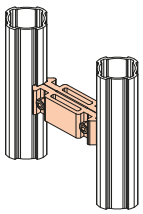
Aluminium: 126236



Weight: 51 g
Packaging unit: 100 pcs

BA-411 Set of parallel joints (inside)

Aluminium: 126237

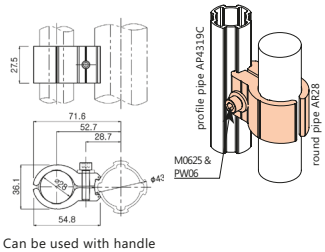


The set consists of following parts:

- 2 x B-411
- 1 x M0620
- 1 x M06

APH-3027A Attachment joint

Aluminium: 401673

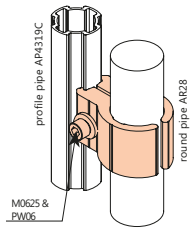


Can be used with handle
(black: Art. No. 126942, grey: Art. No. 126979)

Weight: 31 g
Packaging unit: 200 pcs

APHA-3027 Set of attachment joints (profile pipe Ø28 mm)

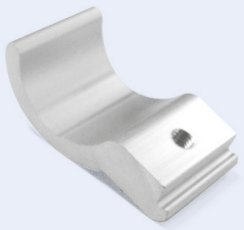
Aluminium: 501020



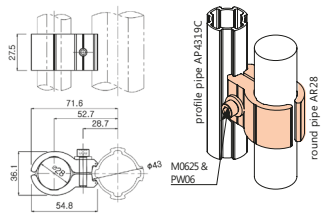
The set consists of following parts:

- 1 x APH-3027A
- 1 x APH-3027B
- 1 x M0625
- 1 x US06

APH-3027B Attachment joint



Aluminium: 401674



Can be used with handle
(black: Art. No. 126942, grey: Art. No. 126979)

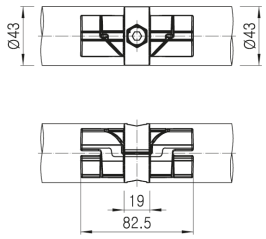
Weight: 31 g
Packaging unit: 200 pcs

Attachment joints

- Die-cast aluminium attachment joint for realising sliding or expandable structures
- Designs that are guided and unguided are available
- Easy, angled assembly on profile grooves

B-444 Basic internal clamping joint

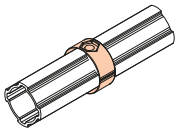
Aluminium: 401125



Weight: 86 g
Packaging unit: 60 pcs

BA-444 Set of basic internal clamping joints

Aluminium: 501065

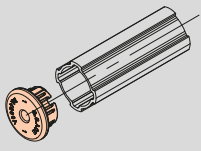


The set consists of following parts:

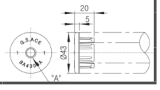
- 2 x B-444
- 1 x SI0830 8.8
- 1 x M08

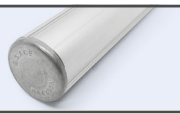
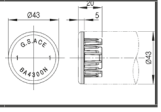
Drive-in sleeves (Ø43 mm)

- M12 and M10 drive-in sleeves with 1/2" thread for screwing in wheels or mounting brackets
- The aluminium drive-in sleeves have a great retention force in the pipe and conduct electricity



Drive-in sleeves

With Thread	Art. No.	Name	Pipe	Ø Outer	Ø Internal	Thread	Material	
	130810	BA4300A	Aluminium profile pipe	43 mm	32,4 mm	1/2"-12N	Aluminium	
	130811	BA4300B				M12 x 1,75		
	130812	BA4300D				M10		

Without Tread	Art.-No.	Name	Pipe	Ø Pipe	Material	Set	
	109292	BA4300N	Aluminium profile pipe	43 mm	Aluminium		

SPACE FOR NOTES

ALUMINIUM add-on parts Ø 43 mm

Profiles for panel attachment

126

Further add-on parts

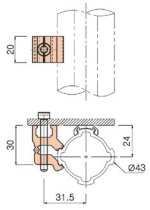
127

Profiles for panel fastening

- Attachment parts for panel fastening for the 43 mm profile pipe
- Material: Varnished aluminium

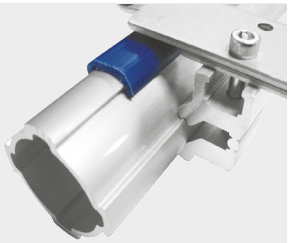
ABS-4320A Guide rail for plate mounting

Aluminium: 126238

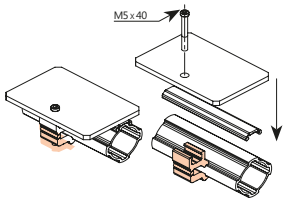


Weight: 20 g
Packaging unit: 250 pcs

ABS-4320A Set of guide rails for plate mounting



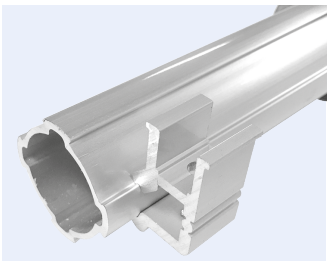
Aluminium: 126645



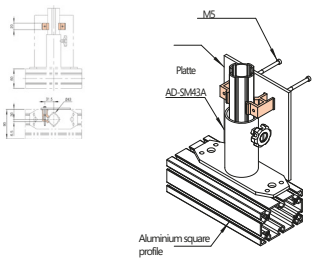
The set consists of following parts:

- 1 x ABS-4320A
- 1 x APC-01
- 1 x M0540

ABS-4320C Guide rail (height adjustment)

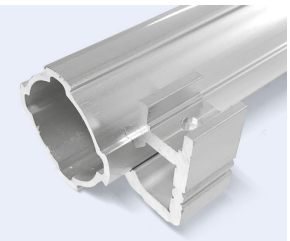


Aluminium: 130787

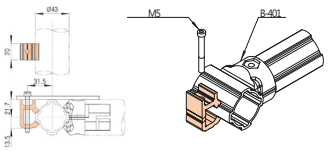


Weight: 19 g
Packaging unit: 200 pcs

ABS-4320D Guide rail for plate mounting

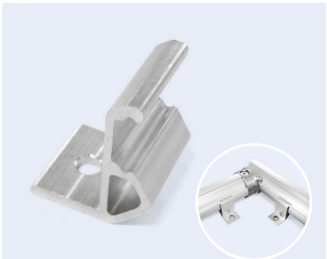


Aluminium: 130789

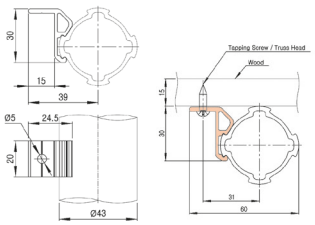


Weight: 20 g
Packaging unit: 200 pcs

A43-N303 Panel mounting angle

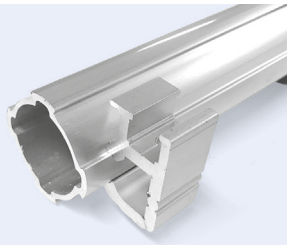


Aluminium: 403440

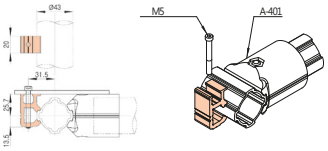


Weight: 7 g
Packaging unit: 400 pcs

ABS-4320E Guide rail for plate mounting

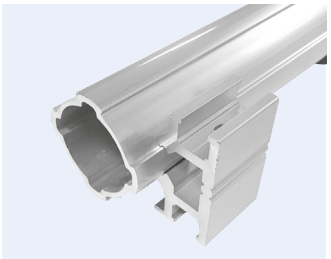


Aluminium: 130790

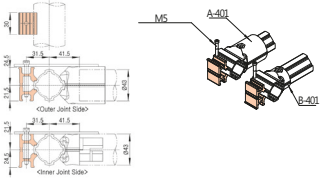


Weight: 118 g
Packaging unit: 20 pcs

ABS-0530 Internal/ external guide rail



Aluminium: 130786



Weight: 37 g
Packaging unit: 100 pcs

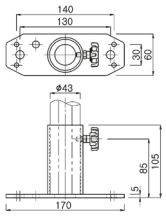
Joints that securely hold profiles.

Add-ons for profile pipes (Ø43 mm)

- Add-ons for the 43mm aluminium profile pipe
- The numerical code of the add-ons specifically developed for the 43mm pipe contains a 43...
- Material: Varnished aluminium

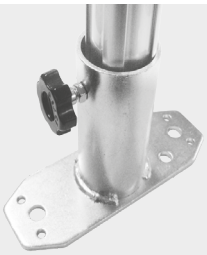
AD-SM43A Mount (foot)

GVZ: 126252

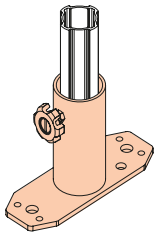


Weight: 680 g
Packaging unit: 50 pcs

Set of mounts



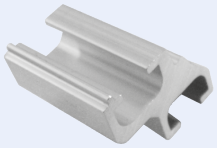
GVZ: 129042



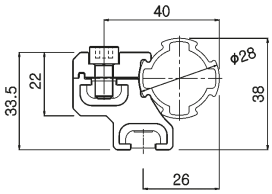
The set consists of following parts:

- 1 x AD-SM43A
- 1 x HM0615

ACH-6040A-R Component holder, right



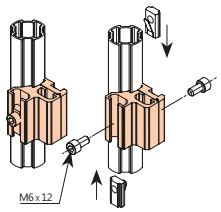
Aluminium: 126241



Weight: 33 g
Packaging unit: 150 pcs

ACH-6040A Set of component holders

Aluminium: 126239

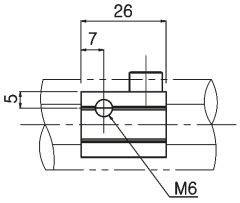


The set consists of following parts:

- 1 x ACH-6040A-R
- 1 x ACH-6040A-L
- 1 x M0612
- 1 x SN406

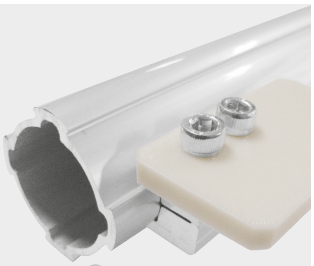
ACP-H6026A- L Connector piece, left

Aluminium: 126247

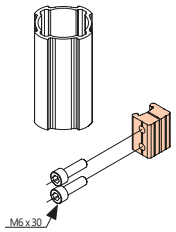


Weight: 7 g
Packaging unit: 800 pcs

ACP-H6026A Set of connector pieces



Aluminium: 126246

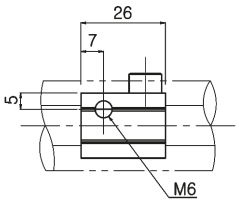


The set consists of following parts:

- 1 x ACP-6026A-L
- 1 x ACP-6062A-R
- 1 x M0625

ACP-V6026A-L Connector piece, left

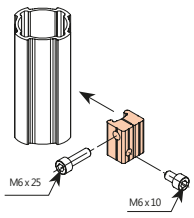
Aluminium: 126250



Weight: 7 g
Packaging unit: 800 pcs

ACP-V6026A Set of connector pieces

Aluminium: 126249

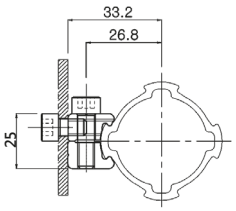


The set consists of following parts:

- 1 x ACP-6026A-L
- 1 x ACP-6026A-R
- 1 x M0620
- 1 x M0610

ACP-H6026A-R Connector piece, right

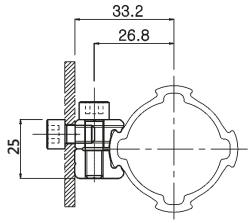
Aluminium: 126248



Weight: 7 g
Packaging unit: 800 pcs

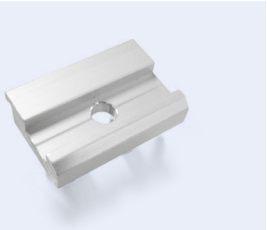
ACP-V6026A-R Connector piece, right

Aluminium: 126251

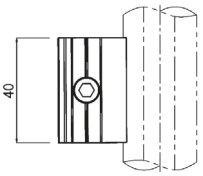


Weight: 7 g
Packaging unit: 800 pcs

ACH-6040A-L Component holder, left



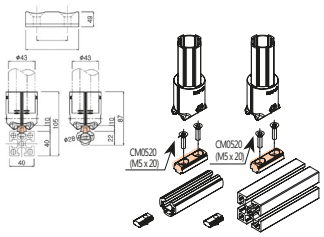
Aluminium: 126240



Weight: 17 g
Packaging unit: 400 pcs

ADT-5043A Slot adapter

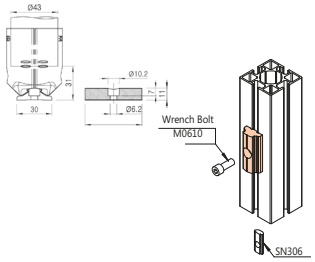
Aluminium: 126245



Weight: 14 g
Packaging unit: 600 pcs

SA033A Adapter plate (Ø43mm), Length: 33 mm

Aluminium: 402009

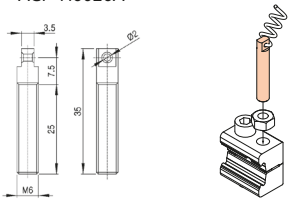


Weight: 27 g
Packaging unit: 240 pcs

SPS-0635 Threaded screw M6 with hole (Ø2 mm)

Aluminium: 403461

- For holding e.g. a spring
- Can be used in conjunction with ACP-H6026A



Weight: 225 g
Packaging unit: 4000 pcs

SQUARE SYSTEMS

Aluminium 28 x 28 mm

Profiles 131
Joints 131
Add-on parts 131

Aluminium 40 x 40 mm

Profiles 139
Joints 139
Add-on parts 139

Aluminium 45 x 45 mm

Profiles 149
Joints 149
Add-on parts 149

Steel 45 x 45 mm

Profiles 161
Joints 161
Add-on parts 161

Square profiles

In order to stay true to the modular system principle, but to have more stable connections, the round pipe racking system has been extended to include the square system.

On one hand, we offer a square profile with the dimensions 28 x 28 mm, which is compatible with the 28mm aluminium round pipe system and is suitable for lighter constructions.

As an extension to the fact that you also want to produce more stable structures and transport systems, we have developed the BeeWaTec square system **MC or MC-4 system joint**.

The core of the MC system is a 45x45mm aluminium square pipe or a 45x45mm galvanised steel square pipe. The aluminium or steel frame is held together by the specially developed BeeWaTec MC or MC4 system joints, complemented by various brackets and accessories.

The difference between the MC and MC4 system

MC system

The MC system (Mounting Corner System) refers to BeeWaTec's square system.

- **Base frame made from square profile** (steel or aluminium) and matching corners (Mount Corners)
- **Superstructures made of round pipe profile** (steel or aluminium)

MC4 system

The MC4 system (Mounting Corner square system) is BeeWaTec's fully comprehensive square system. Both the base frame and the superstructure are made of square pipe for even higher load-bearing capacities compared to the MC system.

- **Base frame made of square profile** (steel or aluminium) and matching corners (mount corners)
- **Superstructures also made of square profile** (steel or aluminium)

ALUMINIUM SQUARE PROFILE

The aluminium square system can be used very easily without further processing - drilling is not necessary as the corners are simply inserted and fastened with T- slot nuts and screws or hammerhead screws and nuts. As the material is softer than steel pipe and has a lower resistance, it is not suitable for use as a base frame in forklift operations. For large dynamic loads, a base frame construction of aluminium square system is not advisable.

Purpose

The aluminium square profile is used for fixed structures, such as heavy-duty shelves and tables, as well as for structures with castors which are moved by hand.

It creates a stable, load-bearing basis (base frame) for further structures made of pipe racking system.

In principle, the aluminium profile should be used in the base frame for dynamic loads, as is the case with the shoring used in the MC or MC4 system in trailers and milkruns. However, the aluminium profile can also be used in the further construction.

Features

- Material:
  Aluminium natural anodised, profile dimensions 45 x 45 mm with groove 10 (compatible with typical aluminium profile)
- Available as heavy and light profile
- Assembly:
  Simple assembly with matching screw type; no preparatory work necessary.

STEEL SQUARE PROFILE

The 45x54mm steel square profile has a very high load capacity with a resistant surface, so that an even more stable and safe use is possible, e.g. for transport trailers. However, the preparation or processing time is somewhat more time-consuming, as screw connections have to be drilled.

Purpose

The steel square system (4kant steel system) enables the assembly of heavy-duty racks, fixed or with castors, as well as transport trailers and tugger trailers.

Square steel profile is the more stable, load-bearing basis for superstructures made of pipe racking system and square profiles.

- Fixed structures (e.g. shelves, tables)
- Hand-pushed trolleys
- Trailer systems, transport trailers
- Assembly of base frames for e.g. tugger trains, transport trailers, forklift traffic
- Assembly of platforms

In principle, the steel square profile should be used in the base frame for dynamic loading, as is the case with the mounting in the MC or MC4 system in the trailer and milkrun. The aluminium profile can also be used in the further assembly.

Features

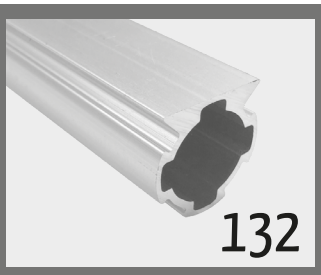
- Material:
  Galvanised steel, profile dimensions 45 x 45 x 3 mm.
- Very high load capacity even under dynamic load
- Excellent for forklift traffic, as the surface is very resistant and high safety is ensured by through bolts.
- Assembly:
  Screwed connections are drilled; simple assembly with the suitable type of screw connection (through bolt and nut).

Building blocks for tugger train builders and logistics planners

Particularly in intralogistics, it is easy to build your own trolleys for transporting various types of containers such as Euro pallets, box pallets, large load carriers, small load carriers or cardboard. The trolleys can be made into standard tugger trains and are easily modified. The drawbar and coupling system is compatible with other transport systems.

ALUMINIUM 28 x 28 mm External clamping profile

Profiles with external clamping profile



132

Joints for profiles with external clamping profile

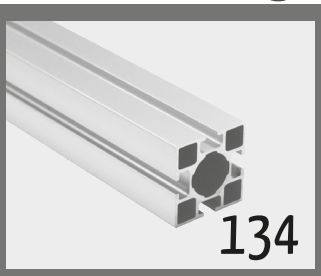
133

Attachment parts for profiles with external clamping profile

133

ALUMINIUM 28 x 28 mm groove (6.5 mm) inside

Profiles with groove (6.5 mm) inside



134

Joints for profiles with groove (6.5 mm) inside

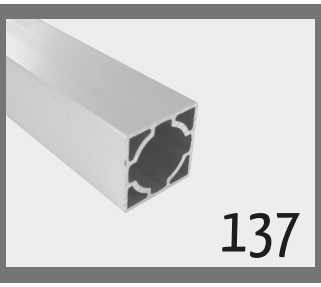
134

Attachment parts for profiles with groove (6.5 mm) inside

136

ALUMINIUM 28 x 28 mm four smooth outer sides

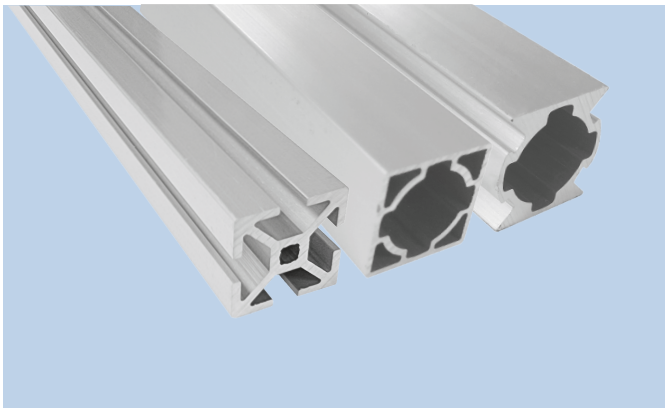
Profiles with four smooth outer sides



137

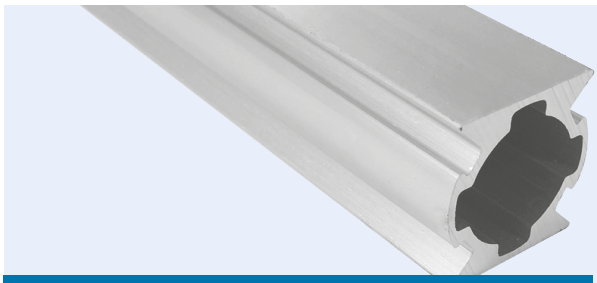
Add-on parts for profiles with four smooth outer sides

137



Aluminium square profiles 28 x 28 mm

- Profiles with clamping profile outside
- Profiles with groove inside
- Profiles with four smooth outer sides



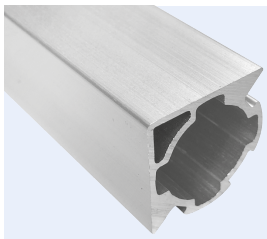
Maximum flexibility when constructing and building with the 28 x 28 mm Aluminium square profile.

Aluminium square 28 x 28 mm

Profiles with clamping profile outside

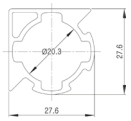
- Aluminium square profile 28 x 28 mm
- No external groove
- Low cost and lightweight
- Compatible with already existing Ø28 mm aluminium round profil and joints

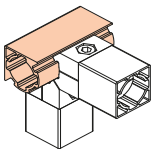
ASQ2812A Aluminium square profile 28 x 28 mm



Aluminium: 401070

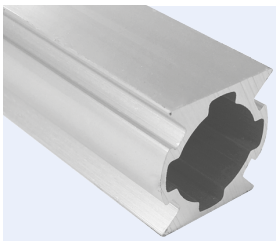
- for a two-way-90-degree-connection





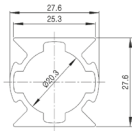
Weight: 0.566 kg/m
Length: 4 m

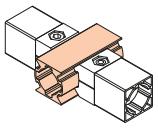
ASQ2812B Aluminium square profile 28 x 28 mm



Aluminium: 401071

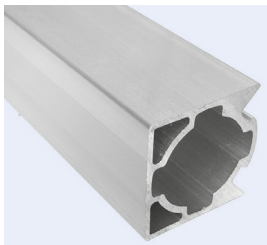
- for a two-way-180-degree-connection





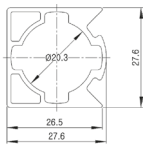
Weight: 0.665 kg/m
Length: 4 m

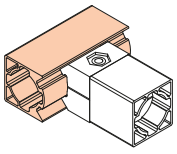
ASQ2812C Aluminium square profile 28 x 28 mm



Aluminium: 401072

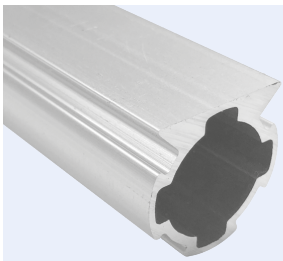
- for a one-way-connection





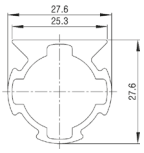
Weight: 0.591 kg/m
Length: 4 m

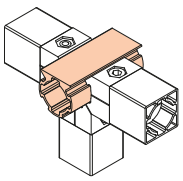
ASQ2812E Aluminium square profile 28 x 28 mm



Aluminium: 401074

- for a three-way-270- degree-connection





Weight: 0.522 kg/m
Length: 4 m

Connects safely!

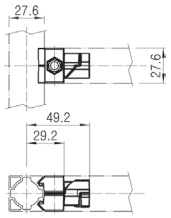
Aluminium square 28 x 28 mm

Joints for profiles with clamping profile outside

- Joints for profiles with clamping profile outside
- Clamp connector

C-001 Joint for aluminium square profile 28 x 28 mm

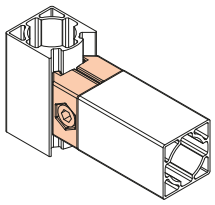
Aluminium: 401067



Weight: 21 g
Packaging unit: 200 pcs

CA-001 Set of joint for 28 x 28 mm

Aluminium: 501011



The set consists of following parts:

Matches the profile!

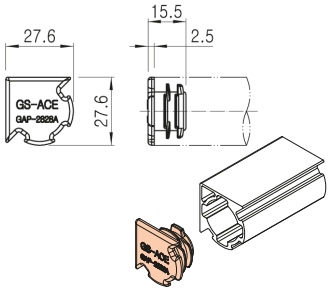
Aluminium square 28 x 28 mm

Attachment parts for profiles with clamping proifle outside

- Cover caps
- Drive-in sleeves

GAP-2828A Inner cap for ASQ2812A

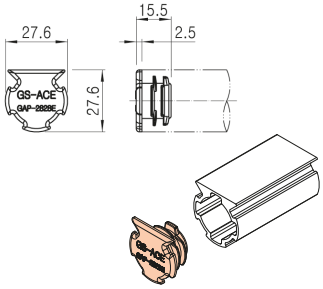
Grey: 401683



Weight: 2 g
Packaging unit: 1500 pcs

GAP-2828E Inner cap for ASQ2812E

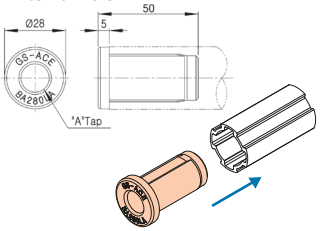
Grey: 401684



Weight: 2 g
Packaging unit: 1500 pcs

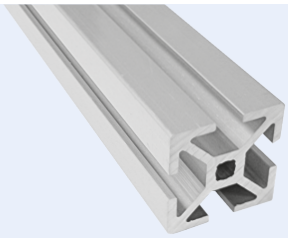
BA280LA/LB/LD Steel drive-in sleeve

- for Alu round pipe Ø28 mm and Alu square profile 28 x 28 mm with internal hole



Weight: 94 g
Packaging unit: 160 pcs

Art. No.	Name	Pipe	Threads	Material
402039	BA280LA	Aluminium pipe Ø 28 mm	1/2"-12N	Steel
402040	BA280LB	Aluminium square profile 28 x 28 mm with internal hole	M12 x 1,75	
402041	BA280LD		M10	



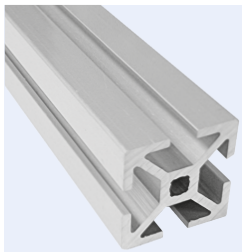
Maximum flexibility when constructing and building with the 28 x 28 mm Aluminium square profile.

Aluminium square 28 x 28 mm

Profile with groove inside

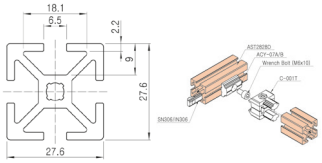
- Aluminium square profile 28 x 28 mm groove width 6.5 mm
- No external groove
- Low cost and lightweight
- Compatible with already existing Ø28 mm aluminium round profil and joints

AST2828D Aluminium square profile 28 x 28 mm



Aluminium: 403424

- 4 groove 6,5 mm



Weight: 0.873 kg/m
Length: 4 m

Connects safely!

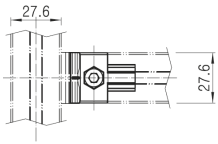
Aluminium square 28 x 28 mm

Joints for profile with groove inside

- Joint T-shape
- Angle clamping joint
- Groove adapter

C-001T Joint T-shape, 28x28 mm

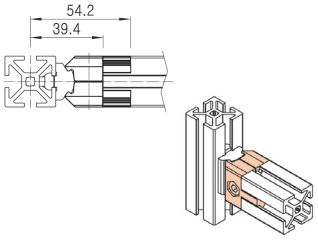
Aluminium: 403427



Weight: 16 g
Packaging unit: 200 pcs

CA-001T Joint set T-shape, 28x28 mm

Aluminium: 501055

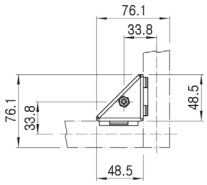


The set consists of following parts:

C-045 Corner joint 90°

Aluminium: 615699

- quick joint /snap joint
- for stabilising 28 mm AST2020D and 40 mm AST4040A/D

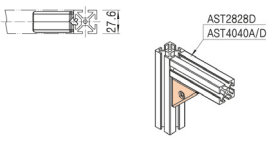


Weight: 37 g
Packaging unit: 120 pcs

CA-045 Corner joint set 90°

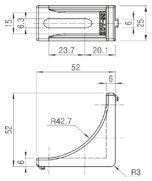
Aluminium: 615702

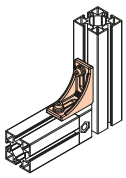
- quick joint /snap joint
- for stabilising 28 mm AST2020D and 40 mm AST4040A/D



The set consists of following parts:

B-050A Angle clamping joint for T-groove assembly

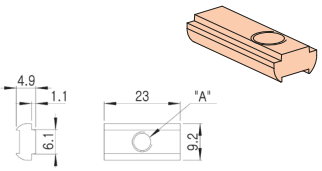




Aluminium: 401540

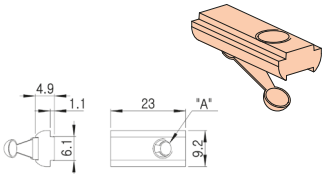
Weight: 34 g
Packaging unit: 100 pcs

IN... T-slot nut



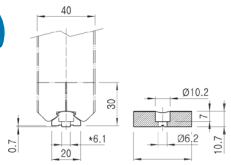
Art.-No.	Name	Thread	Weight
402189	IN304	M4	5 g
403724	IN305	M5	
402191	IN306	M6	

SN... T-slot nut



Art.-No.	Name	Thread	Weight
402200	SN304	M4	5 g
403721	SN305	M5	
402201	SN306	M6	

SA640A Groove adapter

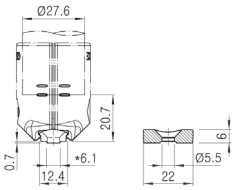


Aluminium: 401494

Required for mounting:
1x IN306 (402191)
1x SI0610 8.8 (111252)

Weight: 17 g
Packaging unit: 300 pcs

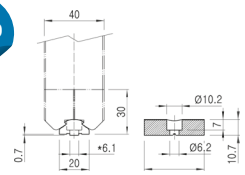
SA622A Groove adapter



Aluminium: 130797

Required for mounting:
1x IN305 (403724)
1x SSI0510 8.8 (110121)

SA628A Groove adapter



Aluminium: 403423

Required for mounting:
1x IN306 (402191)
1x SI0610 8.8 (111252)

Weight: 17 g
Packaging unit: 300 pcs

Application example

Matches the profile!

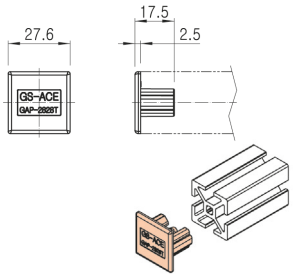
Aluminium square 28 x 28 mm

Mounting parts for profile with groove inside

- Inner cap
- Cover for grooves

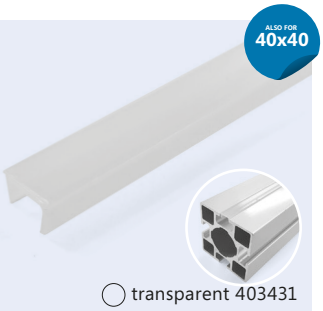
GAP-2828T Inner Cap for 4 grooves

Grey: 403428



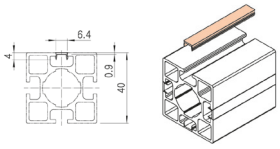
Weight: 3 g
Packaging unit: 1500 pcs

APC-40A Cover for grooves with 6.5 mm width

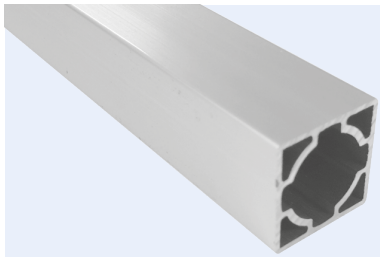


transparent 403431

- Material: transparent plastic



Weight: 0,012kg/m
Length: 3 m



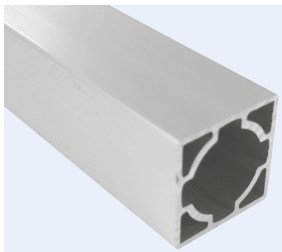
Maximum flexibility when constructing and building with the 28 x 28 mm Aluminium square profile.

Aluminium square 28 x 28 mm

Profiles with four smooth outer sides

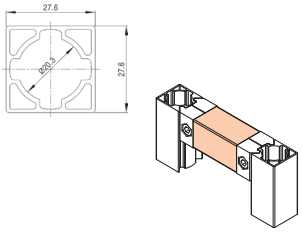
- Aluminium square profile 28 x 28 mm
- Low cost and lightweight
- Compatible with already existing Ø28 mm aluminium round profil and joints

ASQ2812D Aluminium square profile 28 x 28 mm



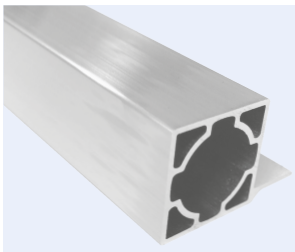
Aluminium: 401073

- closed all around



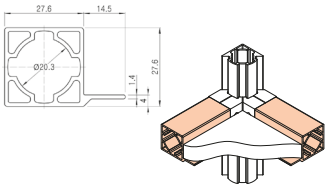
Weight: 0.555 kg/m
Length: 4 m

ASQ2812F Aluminium square profile 28 x 28 mm



Aluminium: 403383

- L-profile for placing a panel without profile connection or groove



Weight: 0.646 kg/m
Length: 4 m

Matches the profile!

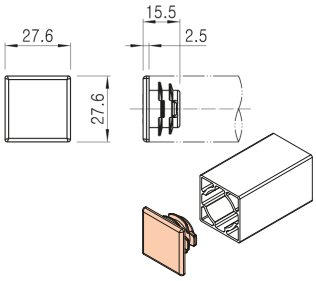
Aluminium square 28 x 28 mm

Mounting parts for profiles with four smooth outer sides

- Inner caps
- Rubber foot

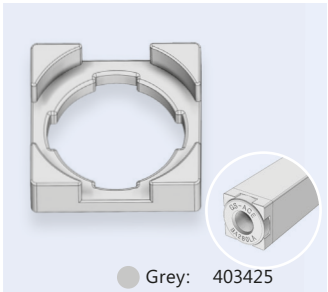
GAP-2828D Inner cap

Grey: 401068

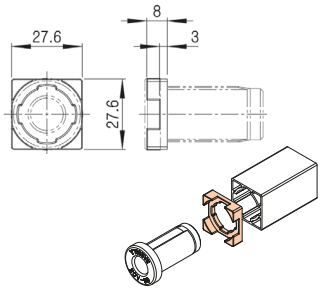


Weight: 3 g
Packaging unit: 1500 pcs

BP2828A Inner cap with combi drive-in sleeve



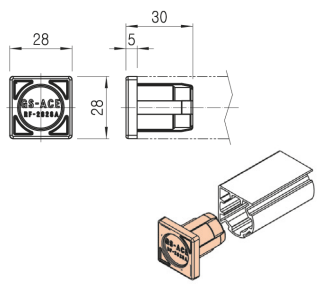
Grey: 403425



Weight: 3 g
Packaging unit: 1500 pcs

RF-2828A Rubber foot for driving in

Grey: 403429

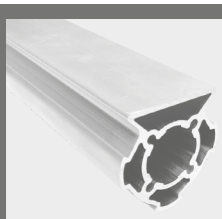


Weight: 7 g
Packaging unit: 1500 pcs

SPACE FOR NOTES

ALUMINIUM 40 x 40 mm External clamping profile

Profiles with external clamping profile



140

Joints for profiles with external clamping profile

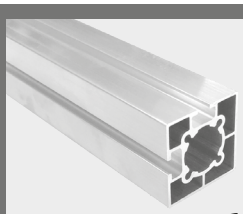
141

Attachment parts for profiles with external clamping profile

142

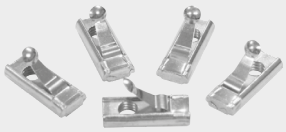
ALUMINIUM 40 x 40 mm groove (6.5 mm) inside

Profiles with groove (6.5 mm) inside



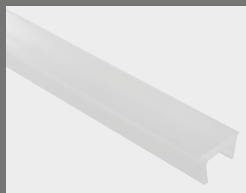
143

Joints for profiles with groove (6.5 mm) inside



143

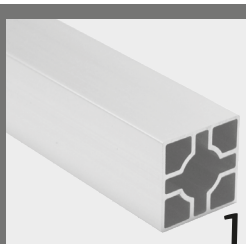
Attachment parts for profiles with groove (6.5 mm) inside



145

ALUMINIUM 40 x 40 mm four smooth outer sides

Profiles with four smooth outer sides



146

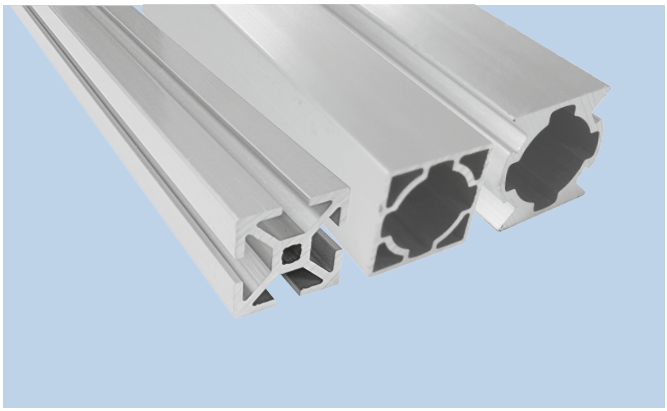
Add-on parts for profiles with four smooth outer sides

146

ALUMINIUM 40 x 40 mm groove (8 mm) inside

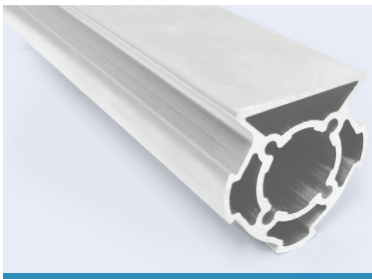
Profiles with groove (8 mm) inside

147



Aluminium square profiles 40 x 40 mm

- Profiles with clamping profile outside
- Profiles with groove inside
- Profiles with four smooth outer sides



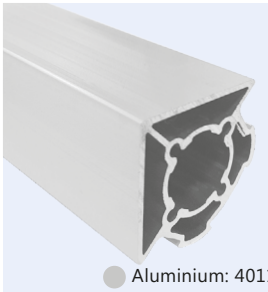
Maximum flexibility when constructing and building with the 40x40 mm Aluminium square profile.

Aluminium square 40 x 40 mm

Profiles with clamping profile outside

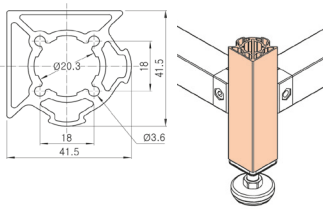
- Aluminium square profile 40 x 40 mm
- Low cost and lightweight
- Compatible with already existing aluminium round profil and joints

ASJ4040A Aluminium square profile 40x40 mm



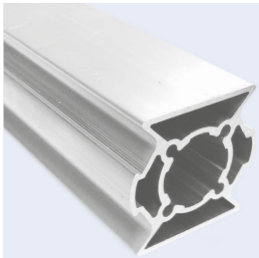
Aluminium: 401115

- for a two-way-90-degree-connection



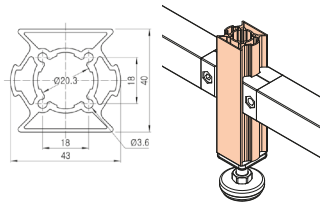
Weight:
Length:

ASJ4040B Aluminium square profile 40x40 mm



Aluminium: 401679

- for a two-way-180-degree-connection

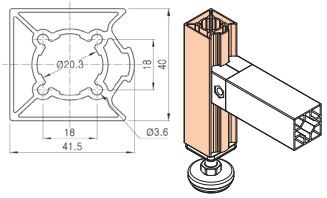


Weight:
Length:

ASJ4040C Aluminium square profile 40x40 mm

Aluminium: 401114

- for a one-way-connection

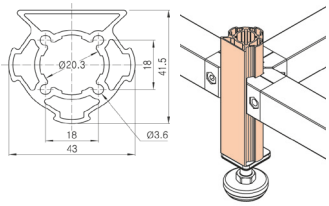


Weight:
Length:

ASJ4040E Aluminium square profile 40x40 mm

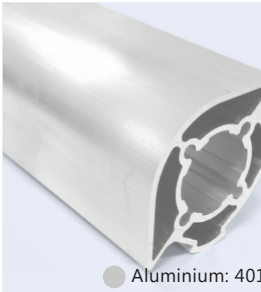
Aluminium: 401680

- for a three-way-270- degree-connection



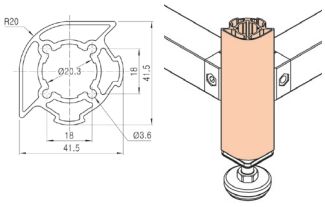
Weight:
Length:

ASJ4040R Aluminium square profile 40x40 mm



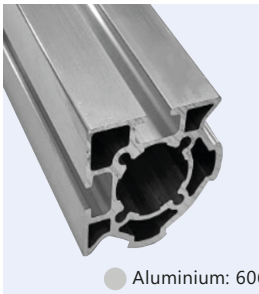
Aluminium: 401681

- for a two-way-90-degree-connection



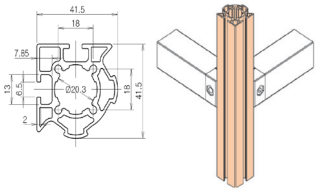
Weight:
Length:

ASM4040A Aluminium square profile 40x40 mm



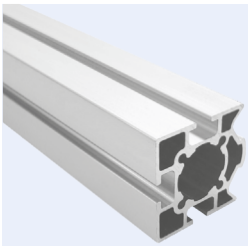
Aluminium: 606426

- 2 connection profile
- 2 x groove 6,5 mm

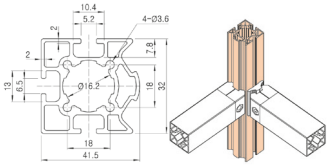


Weight:
Length:

ASM4040C Aluminium square profile 40x40 mm



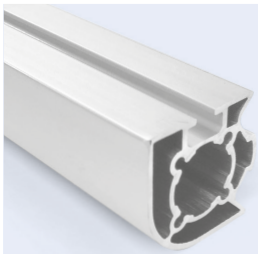
- 1 connection profile
- 3 x groove 6,5 mm



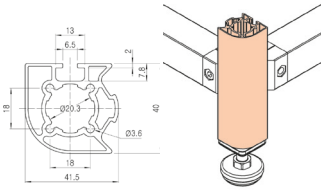
Aluminium: 401116

Weight:
Length:

ASM4040R Aluminium square profile 40x40 mm



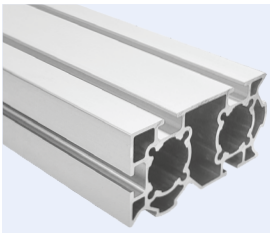
- for a two-way-90-degree-connection
- 1 x connection profile
- 1 x groove 6,5 mm



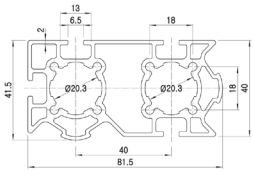
Aluminium: 401542

Weight:
Length:

ASM4080A Aluminium square profile 40 x 80 mm



- 2 x profile connection
- 4 x 6.5 mm groove



Aluminium: 603982

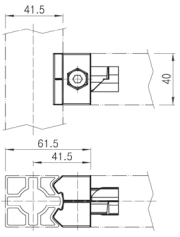
Weight:
Length:

Aluminium square 40 x 40 mm

Joints for profiles with clamping profile outside

- Joints for profiles with clamping profile outside
- internal joint
- Corner joint
- Panel mounting angle

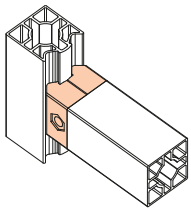
D-001 internal aluminium joint



Aluminium: 401110

Weight: 44 g
Packaging unit: 120 pcs

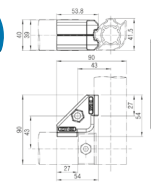
DA-001 Set of internal aluminium joints



Aluminium: 501012

The set consists of following parts:

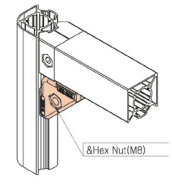
D-045 Aluminium corner joint 90°



Aluminium: 403085

Weight: 46 g
Packaging unit: 80 pcs

DA-045 Aluminium corner joint set 90°

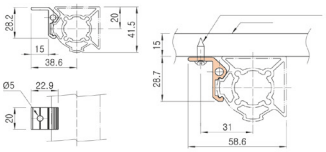


Aluminium: 501043

The set consists of following parts:

A40-N303 Plate mounting angle

- With profile connection



Aluminium: 403086

Weight: 7 g
Packaging unit: 400 pcs

Matches the profile!

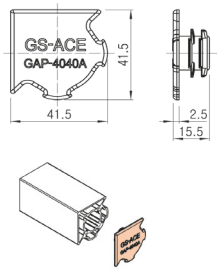
Aluminium square 40 x 40 mm

Attachment parts for profiles with clamping proifle outside

- Cover caps

GAP-4040A Inner cap for ASJ4040A

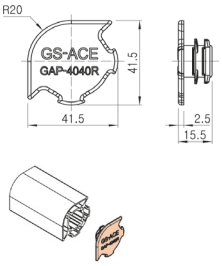
Grey: 402003



Weight: 5 g
Packaging unit: 1200 pcs

GAP-4040R Inner cap for ASJ4040R

Grey: 402004



Weight: 5 g
Packaging unit: 1200 pcs

BA4040JA Aluminium plate with thread

Aluminium: 602295

- Thread: 1/2"
- for square profiles with a hole pattern of 4 x Ø3.6 mm on the face side
- Required for mounting: 4 x SSI0416 8.8 (111520)

Weight: 27 g
Packaging unit: 200 pcs

BA4040JB Aluminium plate with thread

Aluminium: 602300

- Thread: M12
- for square profiles with a hole pattern of 4 x Ø3.6 mm on the face side
- Required for mounting: 4 x SSI0416 8.8 (111520)

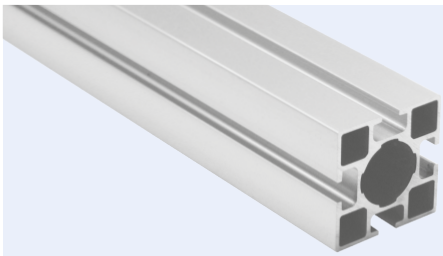
Weight: 27 g
Packaging unit: 200 pcs

BA4040JE Aluminium plate with thread

Aluminium: 602301

- Thread: M8
- for square profiles with a hole pattern of 4 x Ø3.6 mm on the face side
- Required for mounting: 4 x SSI0416 8.8 (111520)

Weight: 27 g
Packaging unit: 200 pcs



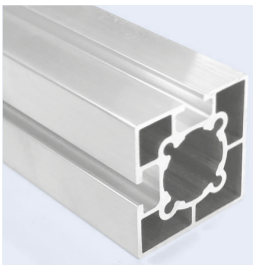
Maximum flexibility when constructing and building with the 40x40 mm Aluminium square profile.

Aluminium square 40 x 40 mm

Profile with groove inside

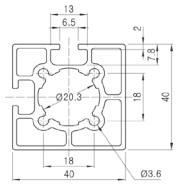
- Aluminium square profile 40x40 mm groove width 6.5 mm
- Low cost and lightweight
- Compatible with already existing aluminium round profil and joints

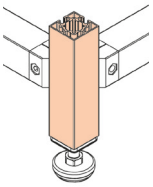
AST4040A Aluminium square profile 40x40 mm



Aluminium: 401111

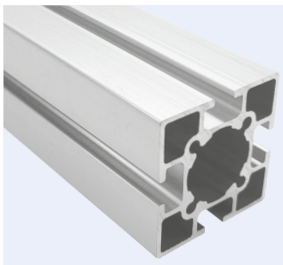
- for a two-way-90-degree-connection
- 2 x groove 6,5 mm





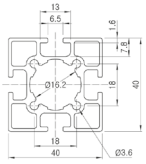
Weight:
Length:

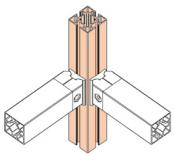
AST4040D Aluminium square profile 40x40 mm



Aluminium: 401112

- for a four-way-connection
- 4 x groove 6,5 mm





Weight:
Length:

Connects safely!

Aluminium square 40 x 40 mm

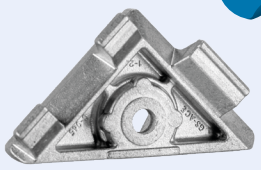
Joints for profile with groove inside

- Angle clamping joint
- Panel mounting angle
- T-slot nuts
- Groove adapter

C-045 Corner joint 90°

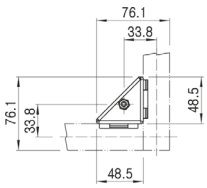
NEW

ALSO FOR 28x28



Aluminium: 615699

- quick joint /snap joint
- for stabilising 28 mm AST2020D and 40 mm AST4040A/D



Weight: 37 g
Packaging unit: 120 pcs

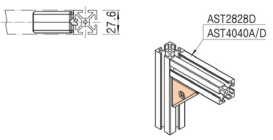
CA-045 Corner joint set 90°

NEW

ALSO FOR 28x28

Aluminium: 615702

- quick joint /snap joint
- for stabilising 28 mm AST2020D and 40 mm AST4040A/D

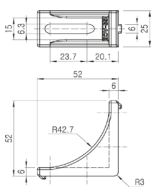


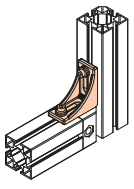
The set consists of following parts:

B-050A Angle clamping joint for T-groove assembly

ALSO FOR 28x28

Aluminium: 401540

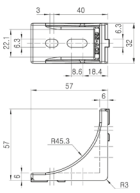


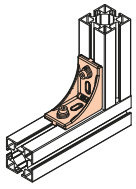


Weight: 34 g
Packaging unit: 100 pcs

B-060A Corner angle for T-groove assembly

Aluminium: 401541



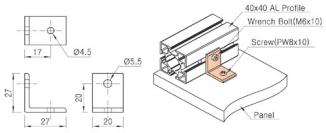


Weight: 46 g
Packaging unit: 60 pcs

A40-304A Plate mounting angle

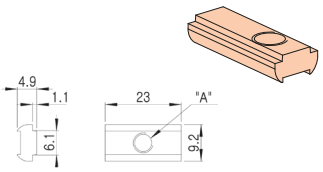
Aluminium: 403720

- for panel mounting at ASM4040... and AST4040... Square profile 40x40 mm with groove



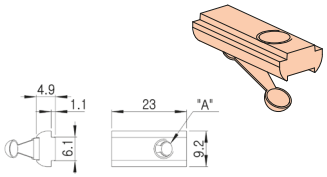
Weight: 8 g
Packaging unit: 600 pcs

IN... T-slot nut



Art.-No.	Name	Thread	Weight
402189	IN304	M4	5 g
403724	IN305	M5	
402191	IN306	M6	

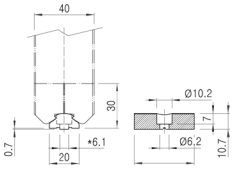
SN... T-slot nut



Art.-No.	Name	Thread	Weight
402200	SN304	M4	5 g
403721	SN305	M5	
402201	SN306	M6	

SA628A Groove adapter

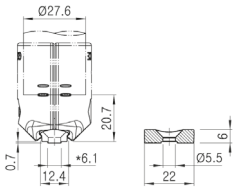
Aluminium: 403423



Weight: 17 g
Packaging unit: 300 pcs

SA622A Groove adapter

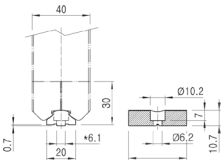
Aluminium: 130797



Required for mounting:
1x IN305 (403724)
1x SSI0510 8.8 (110121)

SA640A Groove adapter

Aluminium: 401494



Required for mounting:
1x IN306 (402191)
1x SI0610 8.8 (111252)

Weight: 17 g
Packaging unit: 300 pcs

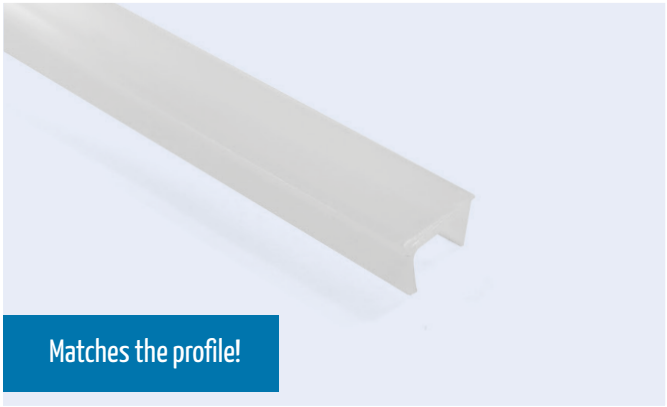
SA640AH Groove adapter

Aluminium: 619395

- for all 40 x 40 mm profile pipes with 6.5 mm slot
- flush finish

Required for mounting:
1x SN306 (402201)
1x M0610 WZ (114337)

Weight: 25 g
Packaging unit: 160 pcs



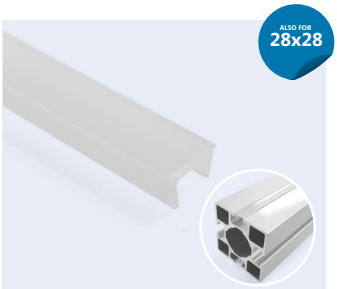
Matches the profile!

Aluminium square 40 x 40 mm

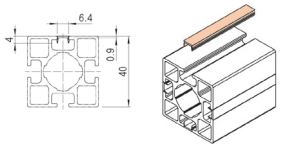
Mounting parts for profile with groove inside

- Cover for grooves

APC-40A Cover for grooves with 6.5 mm width

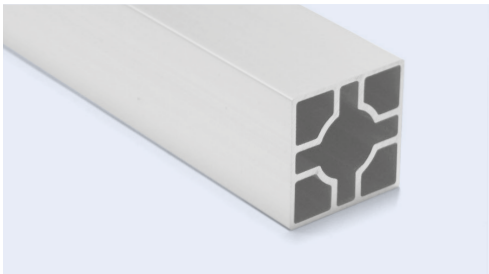


- Material: transparent plastic



◯ transparent 403431

Weight:	0,012kg/m
Length:	3 m



Maximum flexibility when constructing and building with the 40 x 40 mm Aluminium square profile.

Aluminium square 40 x 40 mm

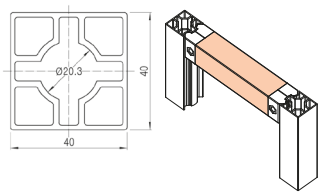
Profiles with four smooth outer sides

- Aluminium square profile 40 x 40 mm
- Low cost and lightweight
- Compatible with already existing aluminium round profil and joints

ASJ4040D Aluminium square profile 40x40 mm

Aluminium: 401113

- closed all around



Weight:
Length:

Matches the profile!

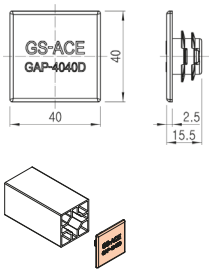
Aluminium square 40 x 40 mm

Mounting parts for profiles with four smooth outer sides

- Inner caps
- Aluminium plate with thread

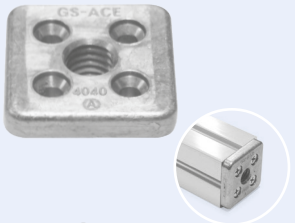
GAP-4040D Inner cap for Aluminium 40x40 mm

Grey: 401102
BK: 403537



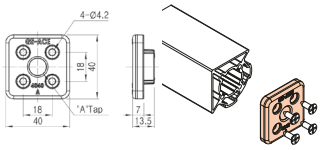
Weight: 5 g
Packaging unit: 1200 pcs

BA4040B Aluminium plate with thread M12



Aluminium: 403087

- For square profiles with a hole pattern of 4 x Ø3.6 mm on the front side
- Mount with:
  4x 111520 SSI0416 8.8



Weight: 27 g
Packaging unit: 200 pcs

Maximum flexibility when constructing and building with the 40x40 mm Aluminium square profile.

Aluminium square profile 40x40 mm

- Aluminium square profile 40x40 mm
- Low cost and lightweight
- Compatible with standard profile 40x40 mm **groove 8 mm**

P4040A-I Aluminium square profile 40x40 mm

Aluminium: 401735

- 4 x groove 8 mm
- Anodised surface, electrically conductive

Weight:
Length:

For this profile we have designed an extra brochure for you.

With information about:

- Joints,
- attachments
- and technical data.

To the download centre:

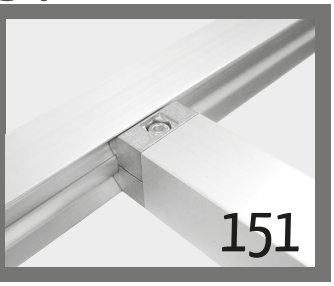
SPACE FOR NOTES

ALUMINIUM 45 x 45 mm External clamping profile

Profiles with external clamping profile

150

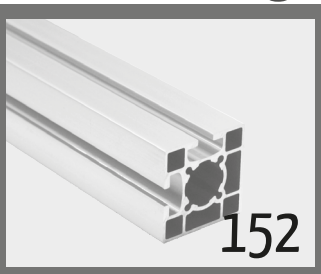
Joints for profiles with external clamping profile



151

ALUMINIUM 45 x 45 mm groove (8.3 mm) inside

Profiles with groove (8.3 mm) inside



152

Joints for profiles with groove (8.3 mm) inside

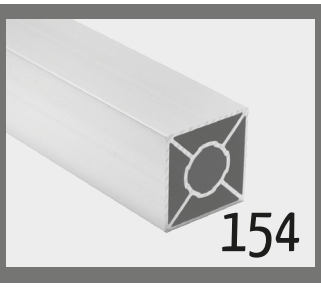
152

Attachment parts for profiles with groove (8.3 mm) inside

153

ALUMINIUM 45 x 45 mm four smooth outer sides

Profiles with four smooth outer sides



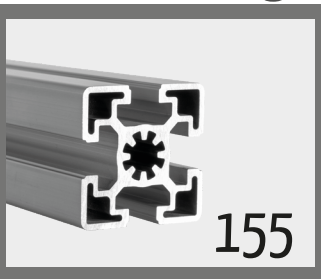
154

Add-on parts for profiles with four smooth outer sides

154

ALUMINIUM 45 x 45 mm groove (10 mm) inside

Profiles with groove (10 mm) inside



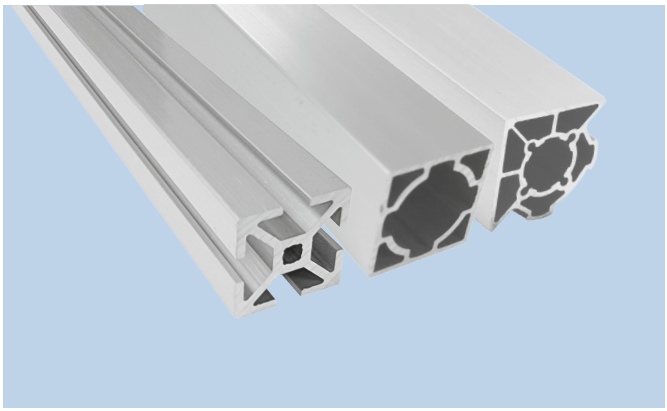
155

Joints for profiles with groove (10 mm) inside

155

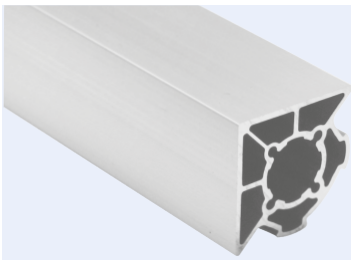
Attachment parts for profiles with groove (10 mm) inside

156



Aluminium square profiles 45 x 45 mm

- Profiles with clamping profile outside
- Profiles with groove inside
- Profiles with four smooth outer sides



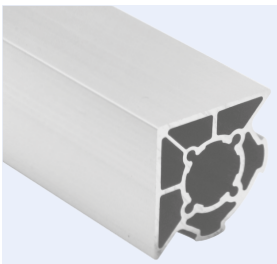
Maximum flexibility when constructing and building with the 45 x 45 mm Aluminium square profile.

Aluminium square 45 x 45 mm

Profiles with clamping profile outside

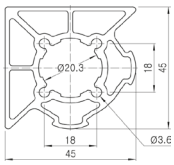
- Aluminium square profile 45 x 45 mm
- Low cost and lightweight
- Compatible with already existing aluminium round profil and joints

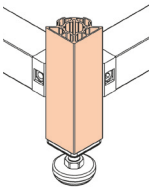
ASJ4545A Aluminium square profile 45x45 mm



Aluminium: 401081

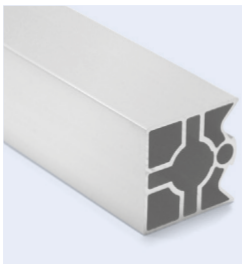
- for a two-way-90-degree-connection





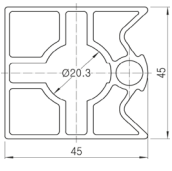
Weight: 1,320 kg/m
Length: 4 m

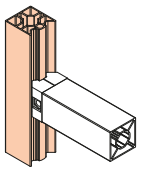
ASJ4545C Aluminium square profile 45x45 mm



Aluminium: 401080

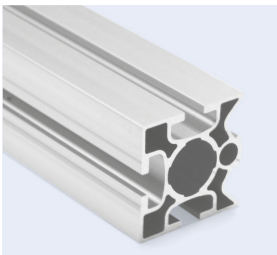
- for a one-way-connection





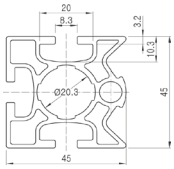
Weight: 1,412 kg/m
Length: 4 m

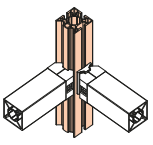
ASM4545C Aluminium square profile 45x45 mm



Aluminium: 401082

- 1 connection profile
- 3 x groove 8,3 mm





Weight: 1,595 kg/m
Length: 4 m

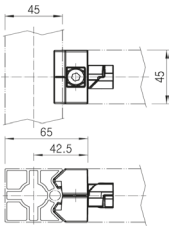
Aluminium square 45 x 45 mm

Joints for profiles with clamping profile outside

- Joints for profiles with clamping profile outside
- internal joint
- Corner joint
- angle internal clamping joint

E-001 internal aluminium joint

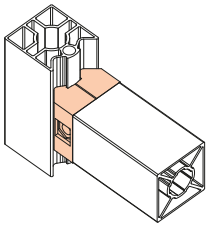
Aluminium: 401075



Weight: 5 g
Packaging unit: 100 pcs

EA-001 internal aluminium joint set

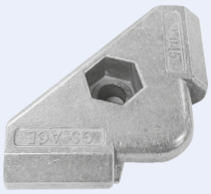
Aluminium: 501013



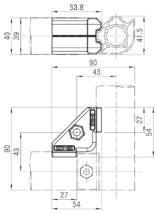
The set consists of following parts:

- 2 x E-001
- 1 x MN08
- 1 x SIN830 10.9

D-045 Aluminium corner joint 90°



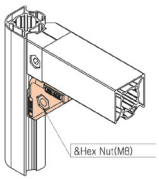
Aluminium: 403085



Weight: 46 g
Packaging unit: 80 pcs

DA-045 Aluminium corner joint set 90°

Aluminium: 501043

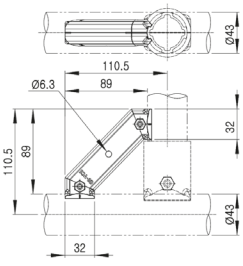


The set consists of following parts:

- 2 x D-045
- 1 x SI0830 8.8
- 1 x M08

B-445 Angle internal clamping joint 90°

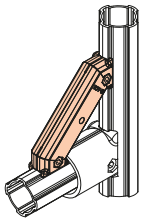
Aluminium: 130809



Weight: 60 g
Packaging unit: 60 pcs

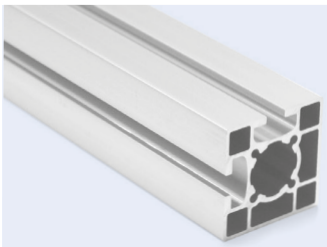
BA-445 Set of angle clamping joints, 90°

Aluminium: 130854



The set consists of following parts:

- 2 x B-445
- 1 x M0620
- 1 x N06-55



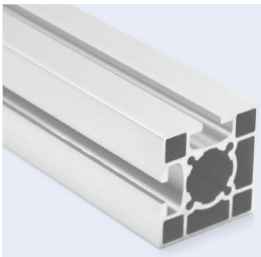
Maximum flexibility when constructing and building with the 45 x 45 mm Aluminium square profile.

Aluminium square 45 x 45 mm

Profile with groove inside

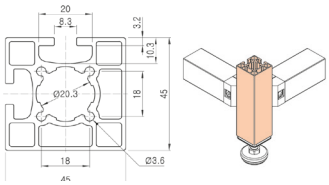
- Aluminium square profile 45 x 45 mm groove width 8.3 mm
- Low cost and lightweight
- Compatible with already existing aluminium round profil and joints

AST4545A Aluminium square profile 45x45 mm



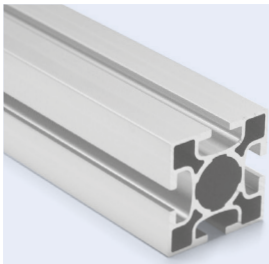
Aluminium: 401077

- for a 2-way 90-degree connection
- 2 x groove 8.3 mm



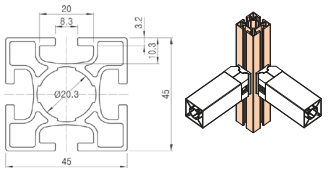
Weight: 1,513 kg/m
Length: 4 m

AST4545D Aluminium square profile 45x45 mm



Aluminium: 401078

- for a 4-way-connection
- 4 x groove 8.3 mm



Weight: 1,607 kg/m
Length: 4 m

Connects safely!

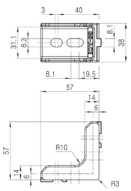
Aluminium square 45 x 45 mm

Joints for profile with groove inside

- Angle clamping joint
- T-slot nuts
- Groove adapter

B-080A Corner braket for T-groove mounting

Aluminium: 401109



Required for mounting
2x IN408 (102199)
2x US08 (101846)
2x SI0816 (111553)

Weight: 62 g
Packaging unit: 40 pcs

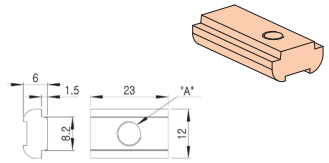
IW-90-45 Angle 90°

Aluminium: 117974

- Parts such as table plates to aluminium profiles with a 45 diameter with a 10 mm groove

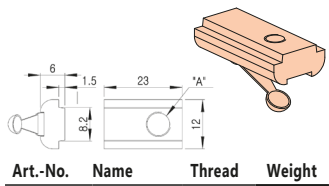
Weight: 52 g

IN... T-slot nut



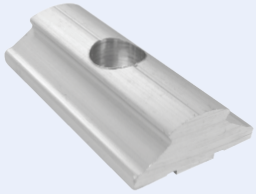
Art.-No.	Name	Thread	Weight
402193	IN404	M4	8 g
402194	IN405	M5	
402197	IN406	M6	
402199	IN408	M8	

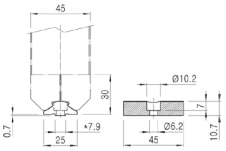
SN... T-slot nut



Art.-No.	Name	Thread	Weight
402202	SN403	M3	10 g
402203	SN404	M4	
402204	SN405	M5	
402205	SN406	M6	
402206	SN408	M8	

SA845A Groove adapter

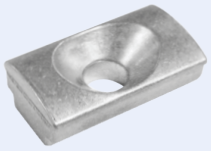


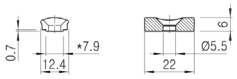


Aluminium: 401496

Weight: 19 g
Packaging unit: 300 pcs

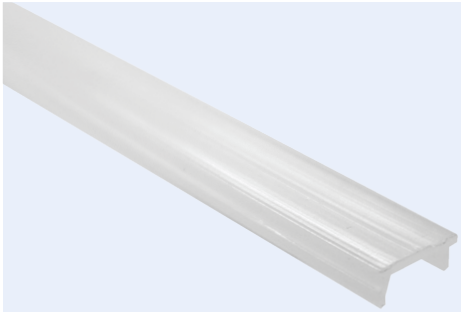
SA822A Groove adapter





Aluminium: 127413

Weight: 4 g
Packaging unit: 1000 pcs



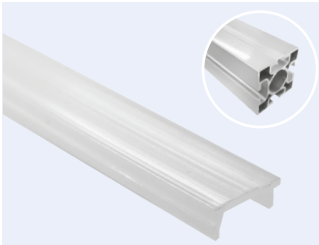
Matches the profile!

Aluminium square 45 x 45 mm

Mounting parts for profile with groove inside

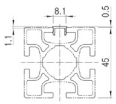
- Cover for grooves

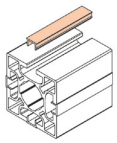
APC-45A Cover for 45 x 45



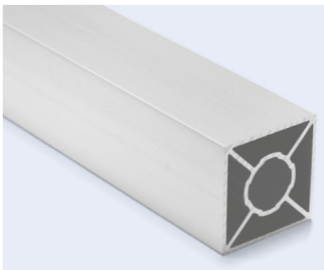
transparent: 601988

- Material: transparent plastic





Weight: 0,015 kg/m
Length: 3 m



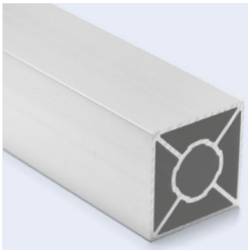
Maximum flexibility when constructing and building with the 45 x 45 mm Aluminium square profile.

Aluminium square 45 x 45 mm

Profiles with four smooth outer sides

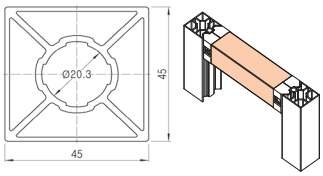
- Aluminium square profile 45 x 45 mm
- Low cost and lightweight
- Compatible with already existing aluminium round profil and joints

ASJ4545D Aluminium square profile 45 x 45 mm



Aluminium: 401079

- circumferentially closed



Weight: 1,495 kg/m
Length: 4 m

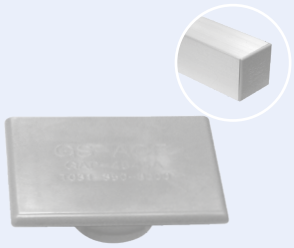
Matches the profile!

Aluminium square 45 x 45 mm

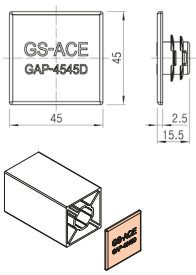
Mounting parts for profiles with four smooth outer sides

- Inner caps
- Aluminium plate with thread

GAP-4545D Inner cap for Aluminium 45 x 45 mm



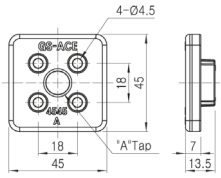
Grey: 401076



Weight: 6 g
Packaging unit: 1200 pcs

BA4545B Aluminium plate with thread M12

Aluminium: 601983



Required for mounting:
4x SSI0416 (111520)

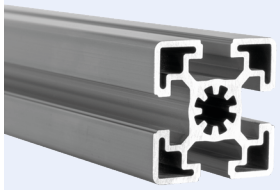
Weight: 34 g
Packaging unit: 200 pcs

Maximum flexibility when constructing and building using the MC system: Aluminium square profile.

Aluminium square profile 45 x 45 mm

- Aluminium 45-x45mm with 10 mm groove
- The profile should be used for heavy loads. The core hole is designed for an M12 thread so that the profile can be combined with a base to be used as a stand-up component
- Material: Natural anodised aluminium

P4545C-B Aluminium square profile 45 x 45 mm

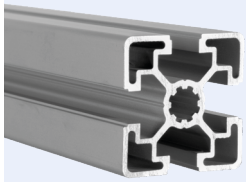


Aluminium: 900313

- Heavy duty version
- with a 10 mm groove
- Core hole Ø 10.2 mm for M12 thread

Weight: 2.02 kg/m
Length: 4 m

P4545A-B Aluminium square profile 45 x 45 mm



Aluminium: 401736

- Lightweight version
- with a 10 mm groove
- Core hole Ø 10.2 mm for M12 thread

Weight: 1,554 kg/m
Length: 4 m

Connects safely!

Aluminium square 45 x 45 mm

Joints for profile with groove 10 mm inside

- Angle joints
- For stabilising 40 mm and 45 mm square-edged aluminium profiles with 8 mm or 10 mm groove

Q-490 Aluminium corner joint 90°

Aluminium: 602350

- Quick joint 90
- for stabilising square-edged aluminium profiles 40 mm groove 8 mm and 45 mm groove 10 mm
- Dimensions: 60 x 60 x 18 mm

Weight: 76 g
Packaging unit: 60 pcs

QA-490 Aluminium corner joint set 90°

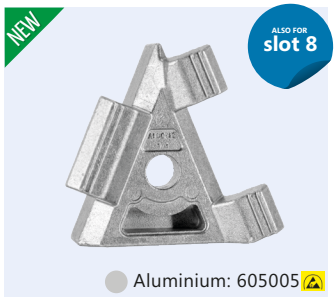
Aluminium: 602316

- Quick joint 90
- for stabilising square-edged aluminium profiles 40 mm groove 8 mm and 45 mm groove 10 mm
- Dimensions: 60 x 60 x 36 mm

The set consists of following parts:

- 2 x Q-490
- 1 x SI0825 8.8
- 1 x M08

Q-445 Angle joint 45°



Aluminium: 605005

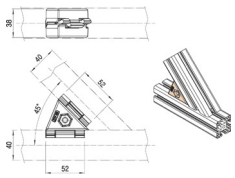
- quick joint /snap joint
- for stabilising square-edged aluminium profiles 40 mm groove 8 mm and 45 mm groove 10 mm

Weight: 76 g
Packaging unit: 80 pcs

QA-445 Angle joint set 45°

Aluminium: 605006

- Quick joint set
- for stabilising 40 mm and 45 mm square-edged aluminium profiles with 8 mm or 10 mm groove



The set consists of following parts:

- 2 x Q-445
- 1 x SI0825 8.8
- 1 x M08

Q-513L Angle joint 45° left

Aluminium: 605037

- quick joint /snap joint
- for stabilising square-edged aluminium profiles 40 mm groove 8 mm and 45 mm groove 10 mm
- At the front, the joint only fits in P4545A-B and P4545C-B
- Profiles with groove 8 and groove 10 can be clamped on the long side

Weight: 76 g
Packaging unit: 80 pcs

Q-513R Angle joint 45° right

Aluminium: 605038

- quick joint /snap joint
- For stabilising 40 mm and 45 mm square-edged aluminium profiles with 8 mm or 10 mm groove
- At the front, the joint only fits in P4545A-B and P4545C-B
- Profiles with groove 8 and groove 10 can be clamped on the long side

Weight: 76 g
Packaging unit: 80 pcs

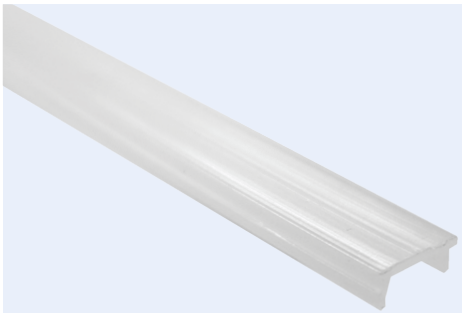
QA-513 Angle joint set 45°

Aluminium: 605036

- Quick joint set
- for stabilising square-edged aluminium profiles 40 mm groove 8 mm and 45 mm groove 10 mm
- At the front, the joint only fits in P4545A-B and P4545C-B
- Profiles with groove 8 and groove 10 can be clamped on the long side

The set consists of following parts:

- 1 x Q-513L
- 1 x Q-513R
- 1 x SI0825 8.8
- 1 x M08



Matches the profile!

Aluminium square 45 x 45 mm

Mounting parts for profile with groove 10 mm inside

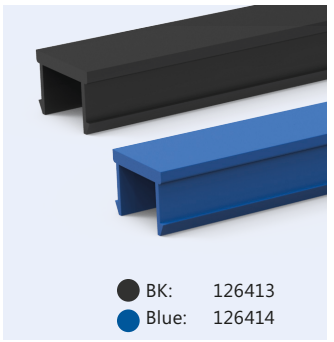
- Cover plate
- Cover profile
- Groove foot

Cover plate 10 45x45

BK: 126412

- Cover plate 45x45 aluminium square profile with a 10 mm groove

ADP Cover profile 10



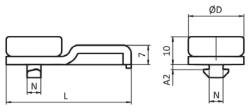
BK: 126413
Blue: 126414

- Cover profile, e.g. for dustproof covering of profile groove.
- Can be installed on all aluminium square profiles with a 10 mm groove.
- Material: PP
- Basic length: 2 m

Groove foot for 10 groove

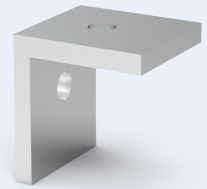
BK: 403373

- with anti-slip plate
- plate diameter 40 mm
- mounting easy to screw into 10 mm aluminum profile groove



Weight: 14 g

IW-90-45 Angle 90°



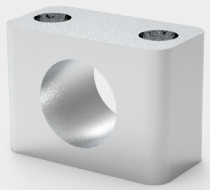
Aluminium: 117974

- Parts such as table plates to aluminium profiles with a 45 diameter with a 10 mm groove

Weight: 52 g

Set of clamp 428

Adaption



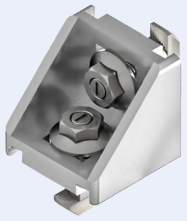
Aluminium: 128367

- To connect pipes with a 28 diameter at right angles on aluminium square profile with a 10 mm groove

The set consists of following parts:
- 2 x Clamp 428 AL
- 2 x SI0645 8.8
- 2 x NST 10 M6

Weight: 144 g

Angle 10 45x45



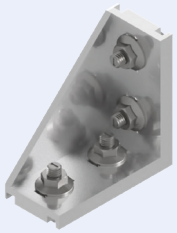
Aluminium: 126580

- The angle set is used for stable 90° degrees joining of two profiles without machining. The angle also reinforces the profile joints additionally
- Suitable for all profiles of series 10 in raster 45

The delivery includes:
- 2 x Hammer-head bolts
- 2 x Collar nuts

Weight: 105 g

Angle 10 45x90



Aluminium: 128366

- The angle set is used for stable 90° degrees joining of two profiles without machining. The angle also reinforces the profile joints additionally
- Suitable for all profiles of series 10 in raster 45

The delivery includes:
- 2 x Hammer-head bolts
- 2 x Collar nuts

Weight: 266 g

Angle inside-outside

GVZ: 128371

- The joint angle set inside-outside is used for a wellpriced and machineless 90° connection in order to create frames for doors, protective gratings or separating walls
- Suitable for all profiles with a 10 mm groove

The delivery includes:
- 2 x Pre-assembled headless screws

Weight: 44 g

Angle inside-inside

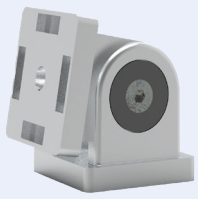
GVZ: 128372

- The joint angle set inside-inside is used for a wellpriced and machineless 90° connection in order to create frames for doors, protective gratings or separating walls
- Suitable for all profiles with a 10 mm groove

The delivery includes:
- 2 x Pre-assembled headless screws

Weight: 44 g

Joint 45x45 Standard

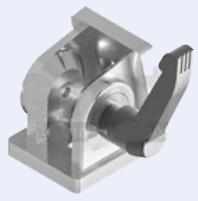


Aluminium: 126583

- Joint for rigid and flexible connection of two alumunium profiles with 45 diameter and a 10 mm groove
- The maximum wing angle is 180°

Weight: 323 g

Joint 45x45 Clamp

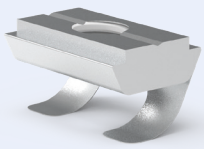


Aluminium: 126584

- Joint for rigid and flexible connection of two alumunium profiles with 45 diameter and a 10mm groove
- The maximum wing angle is 180°
- Fixing is done with clamps

Weight: 370 g

NST-10...F T-slot nut

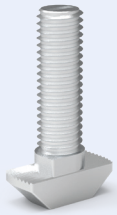


GVZ: 401292 (M4)
GVZ: 401293 (M5)
GVZ: 126897 (M6)
GVZ: 126427 (M8)

- Swivelling T-slot nut M8 with spring steel for a 10 mm groove
- Material: Galvanised steel
- Dimensions (LxW): 20x13.6mm

Weight: 9 g

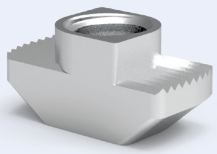
Hammer-head screw M8x25



- Swivelling hammer-head screw for aluminium profile MC-B4545 groove galvanised

Art.-No.	Thread	Tread length
126420	M8	25 mm
126419		20 mm
126418		16 mm

Hammer-head nut

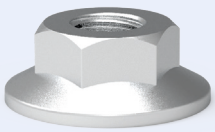


GVZ: 126585 (M6)
GVZ: 126423 (M8)

- Swivelling hammer-head nut m8 for a 10mm groove.
- Material: Galvanised steel
- Web: 3 mm

Weight: 7 g

Collar nut M8

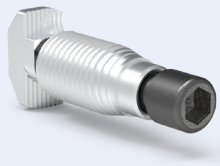


GVZ: 126425

- Galvanised collar nut M8 for use with hammerhead screws M8x25

Weight: 10 g

Thread form joint

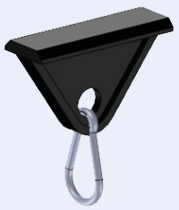


GVZ: 126424

- The fastest 90°-joints without profile processing can be achieved with the thread form joints

Weight: 30 g

WZG Tool slider made of plastic

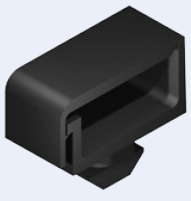


BK: 117977

- For hanging up tolls with a snap hook
- Slides in the groove of aluminium profiles with groove 8 and 10
- Delivery excl. carabiner

Weight: 11 g

Cable holder

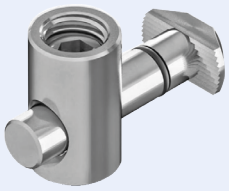


BK: 126415

- Cable and tube holder with hammer for a 10 mm groove, material is PA, to be opened from one side
- Material: PA-GF

Weight: 9 g

Quick release joint 10 90°

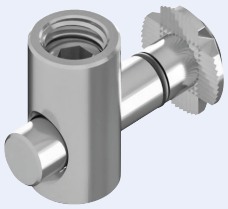


GVZ: 129911

- Steel joint for aluminium profiles 10 mm groove
- Mechanical processing necessary on professional
- 90° connection via hammerhead nut

Weight: 54 g

Quick release joint 10 0°



GVZ: 129912

- Steel joint for aluminium profiles 10 mm groove
- Mechanical processing necessary on professional
- 0°/90° connection via collar nut

Weight: 54 g

Threaded moulded joint set 10 L

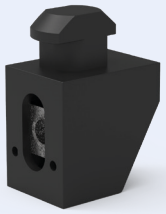
403518

- profile type: lightweight
- with thread damage

The set consists of following parts:

- 1 x Cutting sleeve
- 1 x Cylinder head screw M6x45
- 1 x Hammer nut M6

Uniblock 10/10

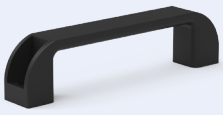


BK: 126426

- for stable fixing of diverse panel elements; can be swivelled into the profile groove at any position.
- Suitable for all profiles of series 10
- Material: PA-GF

Weight: 10 g

Handle

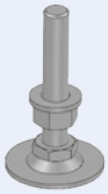


- Handle for a 10mm groove
- For M6 screws
- Colour: Black
- Material: PA-GF

Art. No.	Name	Screw-on length
126416	Handle 10 120	120 mm
126417	Handle 10 145	145 mm

Weight: 50 g

AD-45 Adjustable foot M12x100



GVZ: 119168

- Height adjustable M12x100
- Hexagon head SW19
- Base 45 mm rotatable, galvanised

Weight: 45 g

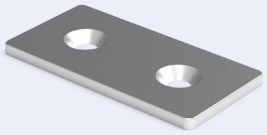
BSF-80 M12x150 Adjustable foot M12

GVZ: 115215

- Adjustabe foots for attachment on the floor
- Thread length 150 mm
- Total height 175 mm
- Load capacity 2000 kg

Weight: 410 g

Joint bar

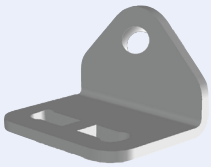


GVZ: 128370

- Joint bars can be used to connect profiles and diverse elements
- Suitable for all profiles of series 10 in raster 45

Weight: 130 g

HW-28 Bracket 28



GVZ: 119396

- For joints between round pipes Ø28 mm and a square profile

Weight: 121 g

HB-ALU-G Holding plate, round pipe

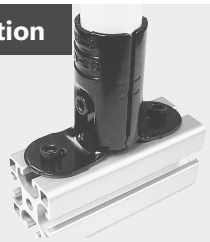
GVZ: 118327

- Surface: galvanised, blue passivated

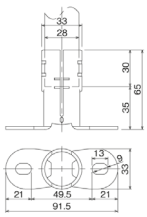
Weight: 30 g

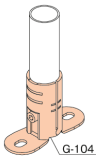
GA-104 Set of joints to aluminium square profile

Adaption



BK: 111847
Ni: 111848
WZ: 114353

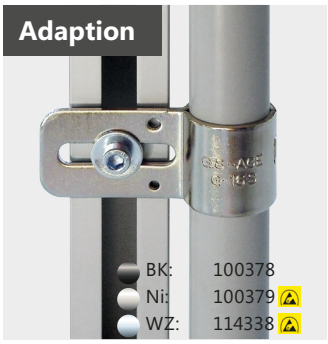




The set consists of following parts:
- 2 x G-104
- 1 x Set M0625/ TN06

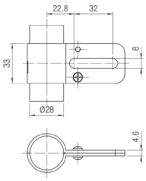
GA-16S Set of joints

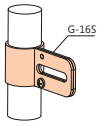
Adaption



BK: 100378
Ni: 100379
WZ: 114338

- To aluminium square profile
- Long version





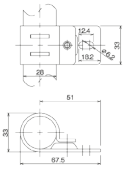
The set consists of following parts:
- 2 x G-16S
- Mounting depending on the application

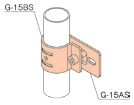
GA-15S Set of joints to aluminium square profile

Adaption

BK: 100376
Ni: 100377
WZ: 114336

- An Aluminium-Vierkanprofil
- Kurze Ausführung



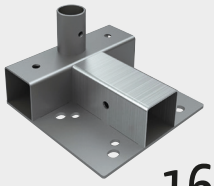
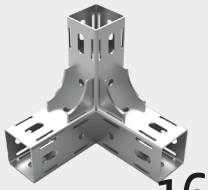


The set consists of following parts:
- 1 x G-15AS
- 1 x G-15BS
- 1 x M0610

STEEL 45 x 45 mm four smooth outer sides

Profiles with four smooth outer sides	162	Add-on parts for profiles with four smooth outer sides	162

JOINTS 45 x 45 mm

MC-joints	 162	MC4-joints	 165
Mounting materials (groove 10)	167	Drawbars and couplings	168

Square solution for heavy loads:
Steel square profile (heavy load).

Steel square profile (heavy load)

- 45x45mm steel square profile made from galvanised steel
- The profile should be used for heavy loads.
- Material: Steel

MC-B4545... Steel square profile 45x45 mm

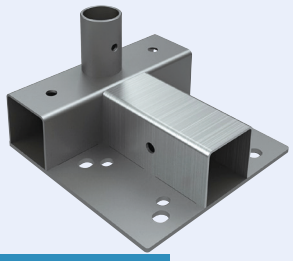
- Material: Galvanic zinc-coated (steel)
- Different length
- Different material thicknesses

Art.-No.	Material thickness	Length
118814	3 mm	2000 mm
118815		4000 mm
107545		6000 mm
603925	2 mm	2000 mm
602140		4000 mm
602139		6000 mm

Cover plate 45x45

BK: 115512

Cover plate for 45x45 steel square profile



Joints for the square and round pipe profile (MC-joint).

Joints for square and round pipe profile (MC)

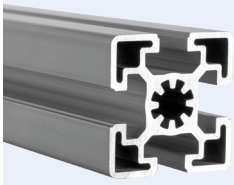
- These joints are only suitable for **45x45mm** profiles
- All joints are made from galvanised steel
- The MC joints are suitable for transport trolleys and other constructions with wheels. When a strong base frame is required (e.g. for tugger train trailers and trailers that are also moved with forklifts)
- **The aluminium as well as square steel profile can be inserted into the joints on a horizontal plane. On the vertical plane, the construction can be continued cost-effectively and easily with 28mm round pipes**

MC-B4545... Steel square profile 45 x 45 mm

- Material: Galvanic zinc-coated (steel)
- Different length
- Different material thicknesses

Art.-No.	Material thickness	Length
118814	3 mm	2000 mm
118815		4000 mm
107545		6000 mm
603925	2 mm	2000 mm
602140		4000 mm
602139		6000 mm

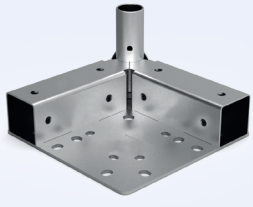
P4545 ... Aluminium square profil 45x45 mm



- with a 10 mm groove

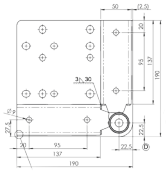
Art.-No.	Name	Length
401736	P4545A-B	4000 mm
900313	P4545C-B	

MC-BP Corner joint with base plate



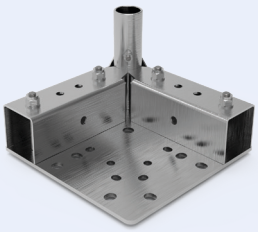
GVZ: 106491

- Mount with:
  BS-MC-BP
- Castor mount with:
  BSR-MC125 or BSR-MC160
- for castors with mounting plate
  100x85 mm and 140x110 mm



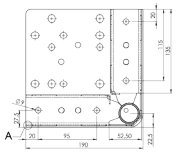
Weight: 1882 g

MC-BPH Corner joint with base plate



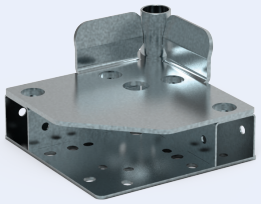
GVZ: 118594

- Mount with:
  BS-MC-BP
- Castor mount with:
  BSR-MC125 or BSR-MC160
- for castors with mounting plate
  100x85 mm and 140x110 mm



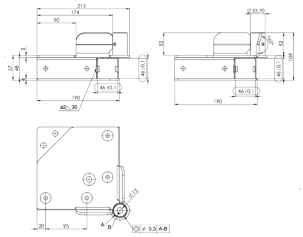
Weight: 1950 g

MC-BEHBP Corner joint for pallet clamp



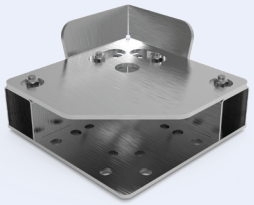
GVZ: 119423

- for castors with mounting plate 100x85 mm and 140x110 mm



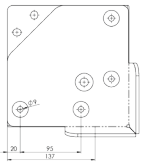
Weight: 3300 g

MC-BEH Corner joint for pallet clamp



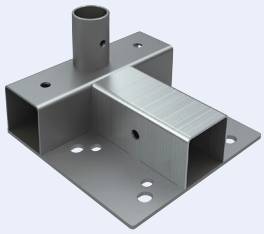
GVZ: 112397

- Mount with: BS-MC-BP
- Castor mount with: BSR-MC125 or BSR-MC160
- for castors with mounting plate 100x85 mm and 140x110 mm



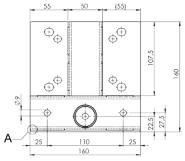
Weight: 3308 g

MC-BPI Middle joint with base plate



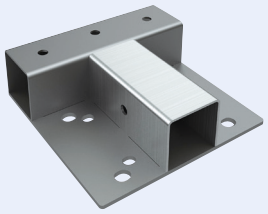
GVZ: 106492

- Mount with: BS-MC-BPI
- Castor mount with: BSR-MC125 or BSR-MC160
- for castors with mounting plate 100x85 mm and 140x110 mm



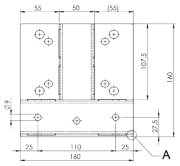
Weight: 1436 g

MC-BPIO Middle joint with base plate



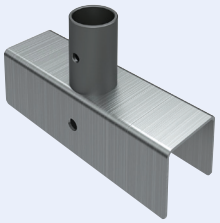
GVZ: 113526

- Mount with: BS-MC-BPI
- Castor mount with: BSR-MC125 or BSR-MC160
- for castors with mounting plate 100x85 mm and 140x110 mm



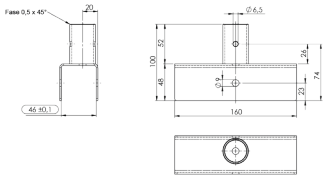
Weight: 1340 g

MC-BPA Adapter for round pipe system



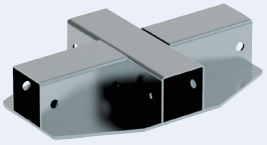
GVZ: 112663

- Mount with: 1 x BS-MR

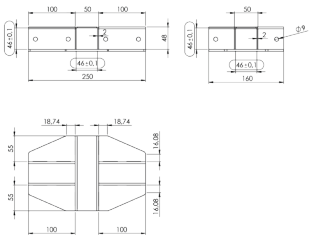


Weight: 440 g

MC-CR Cross joint for square profile

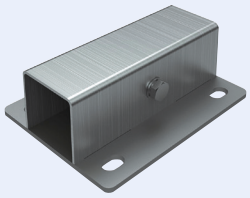


GVZ: 119416



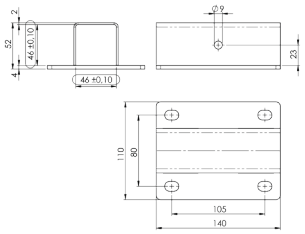
Weight: 1860 g

MC-BRG Castor fixing for square profile



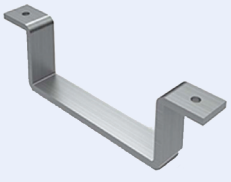
GVZ: 112765

- Mount with: 1 x BS-MR



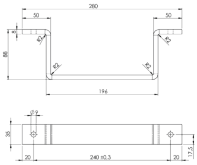
Weight: 873 g

MC-BPFM Fork guide



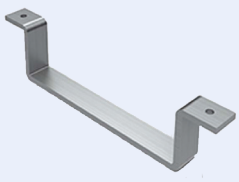
GVZ: 122839

- Attachment for forklift for mounting on profile 45x45mm
- Drive-in opening (WxH): 180x80mm
- Mounting with M8 screw



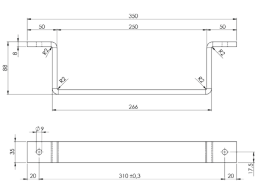
Weight: 930 g

MC-BPFL Fork guide



GVZ: 113524

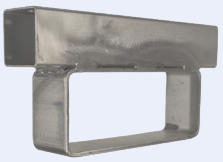
- Attachment for forklift for mounting on profile 45x45mm
- Drive-in opening (WxH): 250x80mm



Weight: 1081 g

MC-SF Forklift shoe

NEW



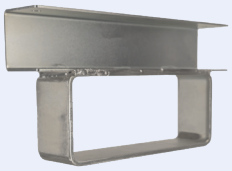
GVZ: 605436

- with two fixing holes in the square pipe
- for square pipe 45 x 45 mm
- Galvanised steel

Weight: 1790 g

MC-SFO Forklift shoe

NEW

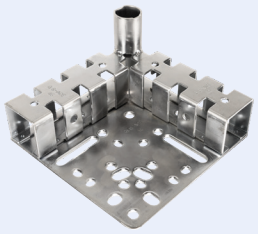


GVZ: 605440

- with two fixing holes in the U-profile
- for square pipe 45 x 45 mm
- Galvanised steel

Weight: 1500 g

BC45-A Corner joint with base plate, lightweight

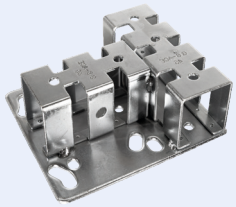


GVZ: 117433

- Lightweight design
- Mounting with: BS-MC-BP
- Hole pattern for castors with plate size 01 (100 x 85 mm), 03 (140 x 110 mm) and all plates in the low-cost castor series
- Galvanised steel

Weight: 1850 g

BC45-B Centre plate B, lightweight

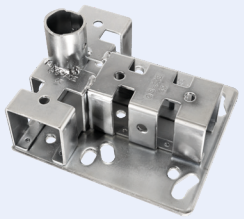


GVZ: 117435

- Lightweight design
- Mounting with: BS-MC-BPI
- Hole pattern for rolls with plate size 01 (100 x 85 mm), 03 (140 x 110 mm) and low-cost rolls with a plate size of 114 x 102 mm
- Galvanised steel

Weight: 1170 g

BC45-C Centre plate C, lightweight



GVZ: 117436

- Lightweight design
- Mounting with: BS-MC-BPI
- Hole pattern for rolls with plate size 01 (100 x 85 mm), 03 (140 x 110 mm) and low-cost rolls with a plate size of 114 x 102 mm
- Galvanised steel

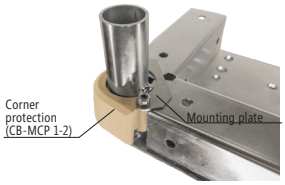
Weight: 1280 g

Mounting plate for CB-MCP 1-2

NEW

PL009655

- For attaching CB-MCP 1-2 corner protectors to MC-BP corners
- required for mounting: 2 x M6x30



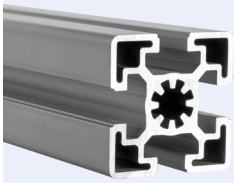
Square profile joints (MC4)

- The joints listed here are only suitable for profiles with 45 x 45 mm (aluminium square profile 45 x 45 mm with slot 10 or steel square profile 45 x 45 mm with a minimum outer radius of 3 mm).
- All joints are made from galvanised steel
- MC4 joints are suitable for heavy load shelving and transport trolleys
- Joints can be used with aluminium as well as steel square profiles
- The aluminium profile has the advantage that the profile does not have to be additionally processed for fixing

Fitting profiles for the MC4 system — Steel and Aluminium

- Material: Galvanic zinc-coated (steel)
- Different length
- Different material thicknesses

Art.-No.	Material thickness	Length
118814	3 mm	2000 mm
118815		4000 mm
107545		6000 mm
603925	2 mm	2000 mm
602140		4000 mm
602139		6000 mm

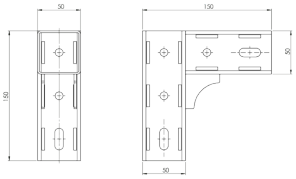


- with a 10 mm groove

Art.-No.	Name	Length
401736	P4545A-B	4000 mm
900313	P4545C-B	

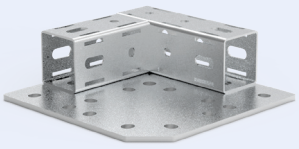
MC4-2S — 2-corner joint

GVZ: 118776



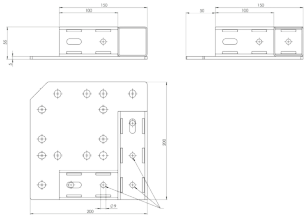
Weight: 680 g

MC4-BPO — 2-corner joint with base plate



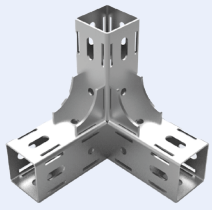
GVZ: 122423

- Castor mounting with BSR-MC160
- for castors with mounting plate 140x110 mm

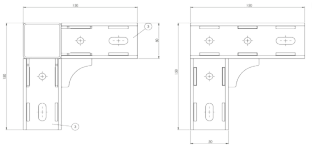


Weight: 2100 g

MC4-3S — 3-corner joint

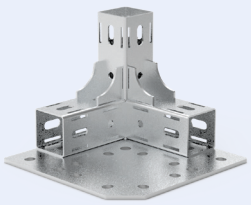


GVZ: 118771



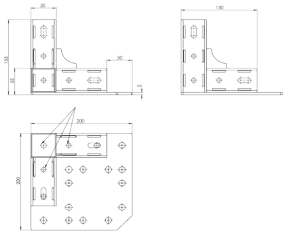
Weight: 1020 g

MC4-BP — 3-corner joint with base plate



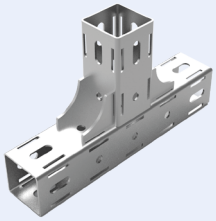
GVZ: 118786

- Castor mounting with BSR-MC160
- for castors with mounting plate 140x110 mm

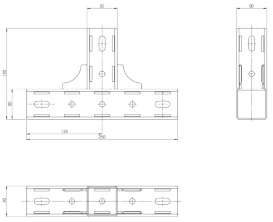


Weight: 2440 g

MC4-3T — 3-T-corner joint



GVZ: 118774

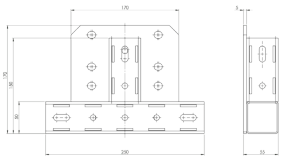


Weight: 970 g

MC4-BPIO — 3-T-joint with base plate

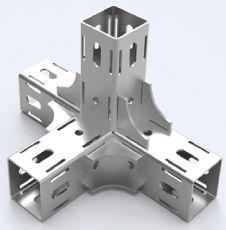
GVZ: 122421

- Castor mounting with BSR-MC160
- for castors with mounting plate 140x110 mm

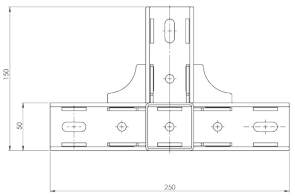


Weight: 1960 g

MC4-4S 4-corner joint

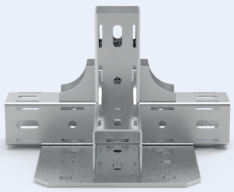


GVZ: 118775



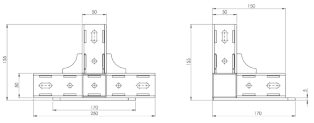
Weight: 1360 g

MC4-BPI 4-corner joint with base plate



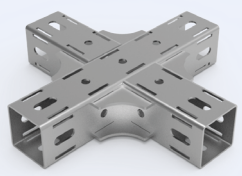
GVZ: 122422

- Castor mounting with BSR-MC160
- for castors with mounting plate 140x110 mm

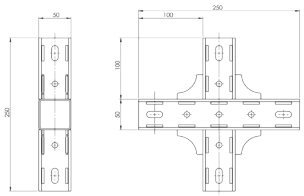


Weight: 2340 g

MC4-4T Double T-joint

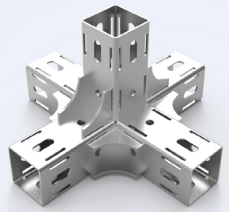


GVZ: 123592

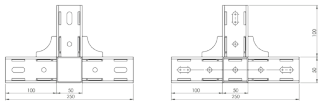


Weight: 1400 g

MC4-5S 5-corner joint

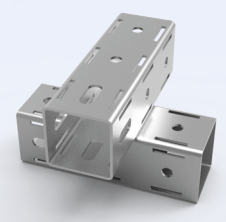


GVZ: 118780

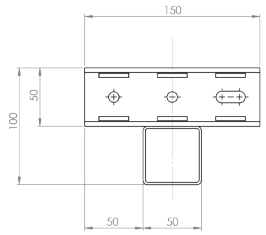


Weight: 1750 g

MC4-2K Cross-joint 90°



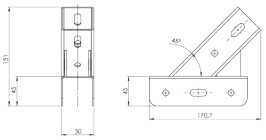
GVZ: 123593



Weight: 745 g

MC4-45S Angle joint 45°

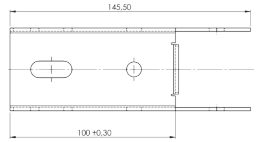
GVZ: 123594



Weight: 685 g

MC4-1S Rotating joint

GVZ: 122424



Weight: 250 g

Note:

All MC4 joints with base plate are dimensioned for a size 03 (140x110mm) wheel plate mount.

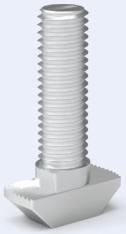
The hole pattern is such that the wheel is bolted on the inside or flush with the outside of the frame to minimise the risk of tipping.

Everything at its place

Mounting materials for MC4 joints

- The following fastening materials are specially designed for our aluminum square profile 45x45 groove 10 mm.

Hammer-head screw M8x20



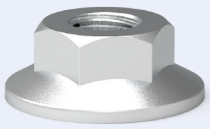
GVZ: 126419

- Swivelling hammer-head screw for aluminium profile with a 10 mm groove galvanised

Only for use with collar nut

Weight: 13 g
Length: 20 mm

Collar nut M8



GVZ: 126425

- Galvanised collar nut M8 for use with hammerhead sccrews M8x20

Only for use with hammer-head screw

Weight: 10 g

SLI0812 10.9 Oval-head screw M8x12

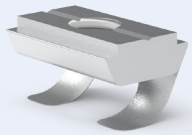
GVZ: 118592

- Screw flattened half-round head with collar and hexagon socket to ISO 7380-2

Only for use with T-slot nut

Weight 8 g
Thread: M8
Length: 12 mm

NST-10-M8 T slot nut



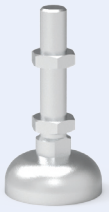
GVZ: 126427

- Swivelling T-slot nut M8 with spring steel for a 10 mm groove
- Dimensions (LxW) 20x13.6mm

Only for use with oval-head screw

Weight: 8 g

D45 M12x85 Adjustable foot M12x85



GVZ: 126582

- Galvanised with counter nut
- Suitable for profiles with a 10mm groove

Weight 178 g
Length: 85 mm
Foot Ø: 45 mm

BSF-80 M12x80 Adjustable foot M12

GVZ: 118391

- Adjustabe foots for attachment on the floor
- Thread length 80 mm
- Total height 112 mm
- Load capacity 2000 kg

Weight: 361 g

Steering in the right direction...

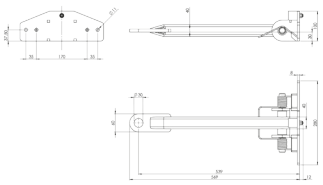
Drawbars and couplings

- Additional drawbars and couplings on request
- max. incline/decline 3%
- Speed is limited to 6 km/h on the straight and 4 km/h on bends
- Large quantities on request

MC-BTP30 Spring drawbar with hole Ø30 mm

GVZ: 134345

- Mount with:
  2 x BS-AK45

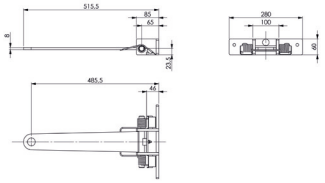


Max. tractive force: 3500 kg
Weight: 5020 g

MC-BTF30 Spring drawbar with hole Ø30 mm

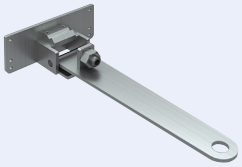
GVZ: 204056

- Mount with:
  2 x BS-AK45



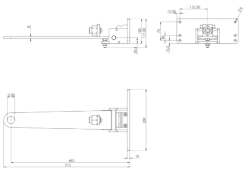
Max. tractive force: 2500 kg
Weight: 4642 g

MC-BTFD30 Drawbar with hole Ø30 mm



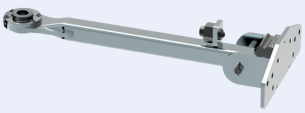
GVZ: 106499

- Locking in the upright position by spring pressure piece, adjustable stop down
- Mount with:
  2 x BS-V45 or BSW-CM200



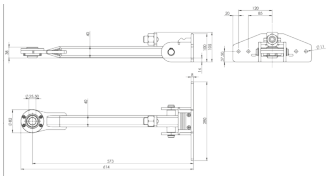
Max. tractive force: 2500 kg
Weight: 5710 g

MC-BTP25 Drawbar with hole Ø25,5 mm



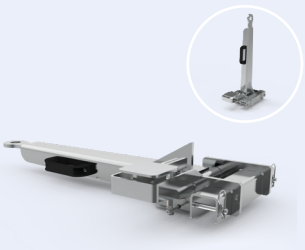
GVZ: 119427

- Lock in vertical position via spring pressure plate.
- Mount with:
  2 x BS-AK45



Max. tractive force: 3500 kg
Weight: 6230 g

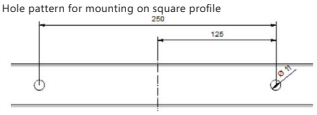
MC-BTHFR30 Drawbar with hole Ø30 mm



GVZ: 208775

- Mounting on 45 x 45 mm square profile
- can be mounted and dismounted without tools
- Drawbar blade locks into place via foot lever
- can be swivelled upwards by hand
- downwards with adjustable stop

Hole pattern for mounting on square profile



Max. tractive force: 3600 kg
Weight: 12 kg

MC-BTFS30 Drawbar with hole Ø30 mm

NEW

611554

- with damping of the drawbar plate via friction dampers
- downward with adjustable stop
- distance from mounting plate to drawbar eye = 625 mm
- powder-coated RAL 1003

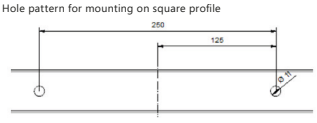
Max. tractive force: 3500 kg
Weight: ca. 6 kg

MC-BTHRA25 Coupling with cone Ø25 mm

GVZ: 208785

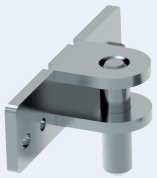
- Mounting on 45 x 45 mm square profile
- can be mounted and dismounted without tools
- automatic locking
- version with long bolt

Hole pattern for mounting on square profile



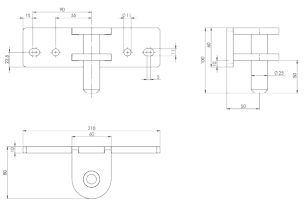
Max. tractive force: 3600 kg
Weight: 1000 g

MC-BTR25 Coupling with cone Ø25 mm



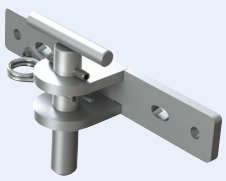
GVZ: 112294

- Mount with:
  2 x BS-AK45



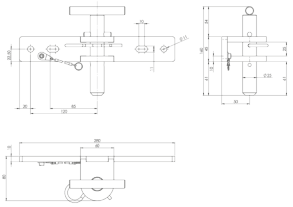
Max. tractive force: 2500 kg
Weight: 1810 g

MC-BTD25 Coupling with cone Ø25 mm



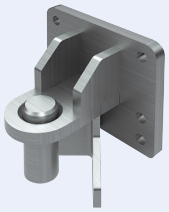
GVZ: 115544

- Mount with:
  2 x BS-AK45



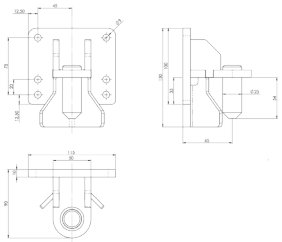
Max. tractive force: 2500 kg
Weight: 2080 g

MC-BTRV25 Coupling with cone Ø25 mm



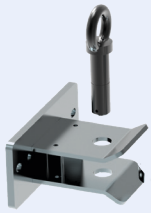
GVZ: 109737

- Mount with:
  2 x BS-V45 or BSW-CM200



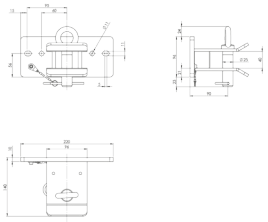
Max. tractive force: 3500 kg
Weight: 1566 g

MC-BTRP25 Coupling with cone Ø25,5 mm



GVZ: 119426

- Mount with:
  BS-AK45



Max. tractive force: 3500 kg
Weight: 3210 g

Note:

Swivelling drawbar: The swivelling drawbar is freely mounte d and should be swivelled upwards manually after uncoupling.

Spring drawbar: With the spring drawbar, the drawbar blade is permanently pressed upwards by a torsion spring. This function enables faster coupling and uncoupling.

Application examples

124235

120055

124636

122639

ROLLER TRACKS

GP roller tracks
Series 35 174
Series 40 174
Series 60 175
Series 85 175

GP-R roller tracks
Series 40 178
Series 70 178
Series 85 178

UR all round castors
Series 40 180
Series 60 180

Accessories for roller tracks
Accessories 184

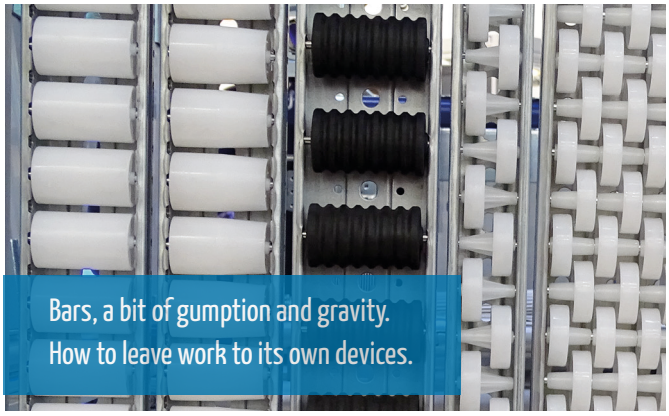
Fastening elements for roller tracks
Series 35 188
Series 40 190
Series 60 195
Series 70 197
Series 85 198

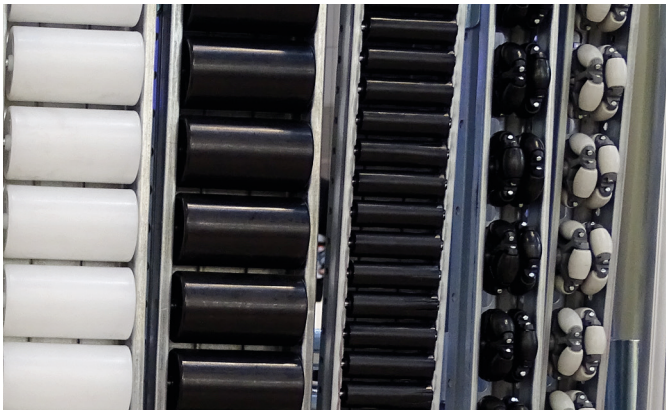
Cover caps for roller tracks
Cover caps 200

Lateral guides
Metal 204
Plastic 207

Safety caps for lateral guides
Safety caps 210

Special concepts for roller conveyors
Pipe roller conveyor 212
Ball roller conveyor 213
CR rollers 214





Roller tracks by G.S. ACE

The roller tracks by G.S ACE have excellent running characteristics, with quiet and steady mechanical operation even on gentle slopes, and high resistance to impacts. Their great stability guarantees long life. They are available in many versions for varying requirements.

New order numbers:

GP	-	R	70	50	BF
Type		R	Series	Castor distance	Castor type

Type (track type)

CR	curve castors
UR	universal castors
GP	roller tracks
R	rolls in the plastic body

Castor type

A	spherical roller
B	cylindrical roller
BF	cylindrical roller, flexible
C	cylindrical roller with flange
D	cylindrical roller, large
HA	cylindrical roller, tapered
M	cylindrical roller, small (with shortened shaft centre distance)
S	cylindrical roller, small (with small centre distance)
SR	cylindrical roller, steel coated

Plastic castors

- PA white (W)
- PA black (BK)
- Beige rubber (Type BF)
- Dark grey (VGD)
- ESD with black castors (ESD)

Ordering information

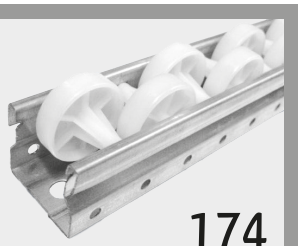
- Standard track length: 4 m
- Other dimensions on request

GP roller tracks

Series 35

174

Series 40



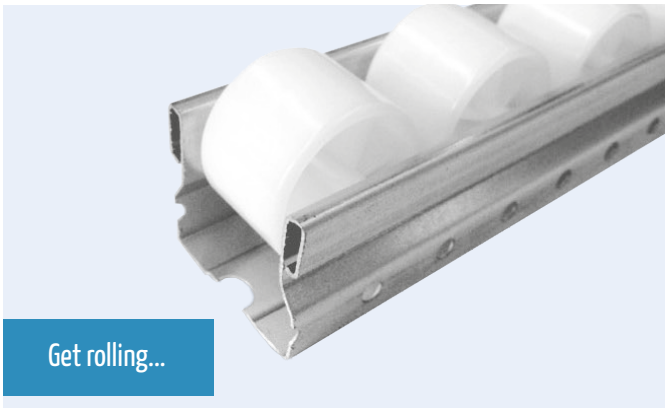
174

Series 60

175

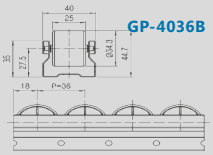
Series 85

175

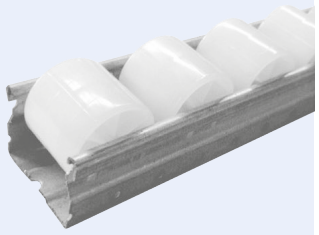


GP Roller tracks with steel case

- Directly inserted rollers in the steel carcass
- Easy to saw off
- Galvanic zinc-coated steel case



GP-3533B GP roller track, cylindrical roller

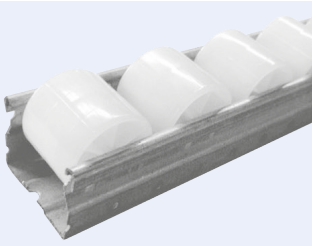


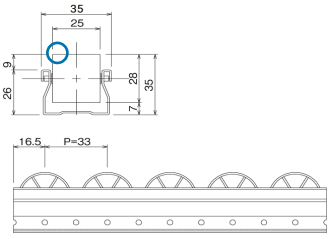
- Special length: 2.5 m

W: 112328

Weight: 0.830 kg/m
Axis pitch: 33 mm
Length: 2.5 m
Load: 100 kg*

GP-3533B GP roller track, cylindrical roller

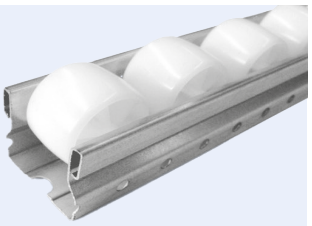


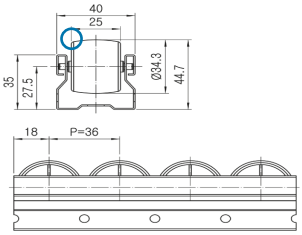


W: 100528
BK: 100529

Weight: 0.830 kg/m
Axis pitch: 33 mm
Length: 4 m
Load: 100 kg*

GP-4036A GP roller track, spherical roller

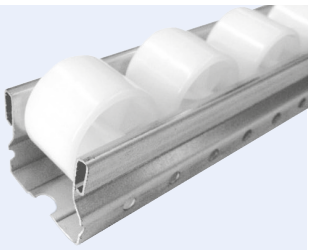




W: 100530
BK: 100540

Weight: 1.210 kg/m
Axis pitch: 36 mm
Length: 4 m
Load: 150 kg*

GP-4036B GP roller track, cylindrical roller

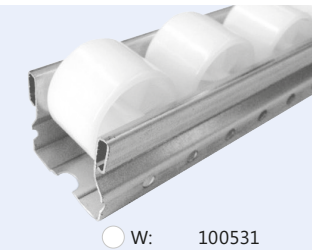


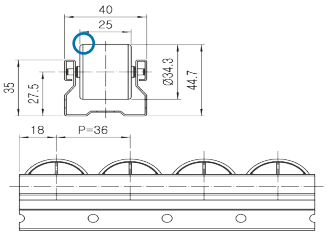
- Special length: 2.5 m

W: 111067
BK: 120209
BK: 111641

Weight: 1.210 kg/m
Axis pitch: 36 mm
Length: 2.5 m
Load: 150 kg*

GP-4036B GP roller track, cylindrical roller

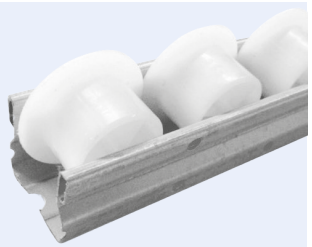




W: 100531
VGD: 132078
BK: 100532

Weight: 1.210 kg/m
Axis pitch: 36 mm
Length: 4 m
Load: 150 kg*

GP-4050C GP roller track cylindrical roller with flange

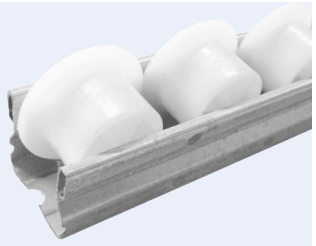


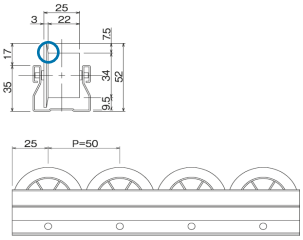
- Special length: 2.5 m

W: 126013

Weight: 1.280 kg/m
Axis pitch: 50 mm
Length: 2.5 m
Load: 150 kg*

GP-4050C GP roller track cylindrical roller with flange



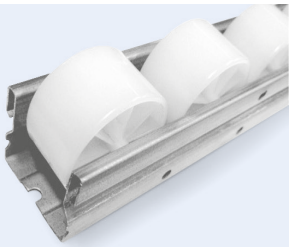


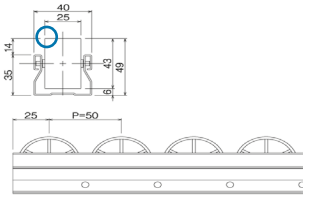
W: 100533
BK: 100534

Weight: 1.140 kg/m
Axis pitch: 50 mm
Length: 4 m
Load: 150 kg*

* Load per 900 mm pair of roller tracks

GP-4050D GP roller track, cylindrical roller, large



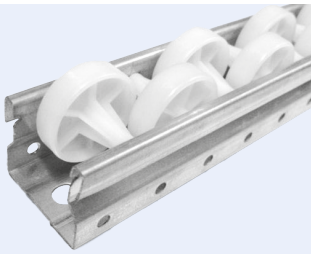


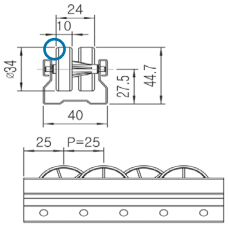
Suitable for universal castors UR-4050

○ W: 100535
● BK: 111934

Weight: 1.400 kg/m
Axis pitch: 50 mm
Length: 4 m
Load: 150 kg*

GP-4025M GP roller track, cylindrical roller, shifted

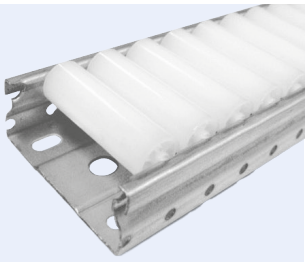


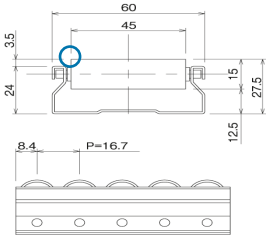


○ W: 100543
● ELF: 109741

Weight: 1.400 kg/m
Axis pitch: 25 mm
Length: 4 m
Load: 150 kg*

GP-6016S GP roller track, cylindrical roller, small

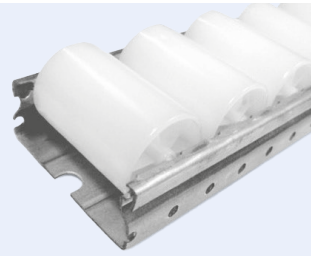


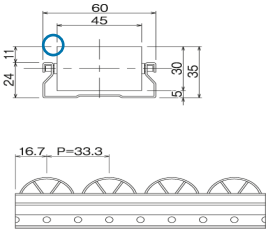


○ W: 100538
● BK: 100539

Weight: 1.480 kg/m
Axis pitch: 16 mm
Length: 4 m
Load: 100 kg*

GP-6033B GP roller track, cylindrical roller

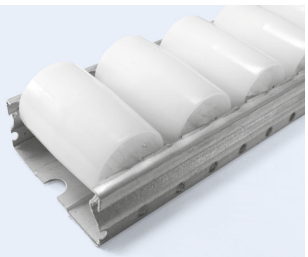


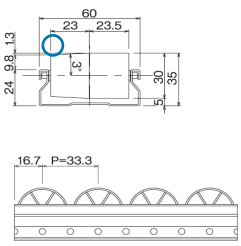


○ W: 100537
● BK: 100545

Weight: 1.400 kg/m
Axis pitch: 33 mm
Length: 4 m
Load: 150 kg*

GP-6033HA GP roller track, cylindrical roller, bevelled

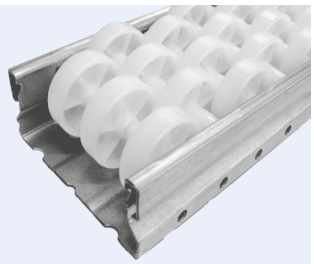


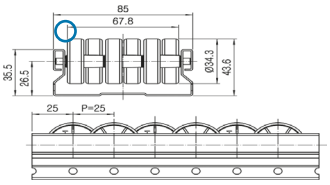


○ W: 100541

Weight: 1.500 kg/m
Axis pitch: 33 mm
Length: 4 m
Load: 150 kg*

GP-8525M GP roller track, cylindrical roller, shifted

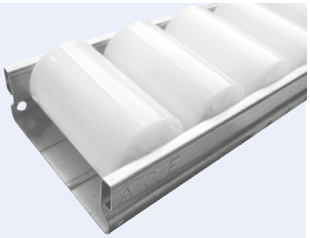


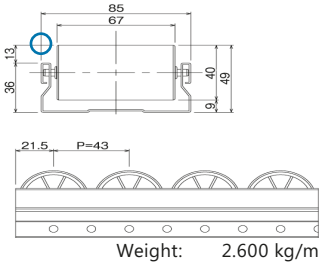


○ W: 111576
● BK: 100544

Weight: 2.370 kg/m
Axis pitch: 25 mm
Length: 4 m
Load: 300 kg*

GP-8543B GP roller track, cylindrical roller

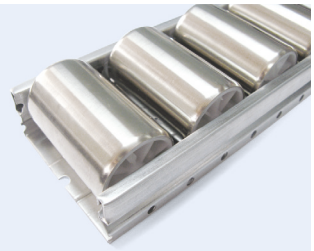


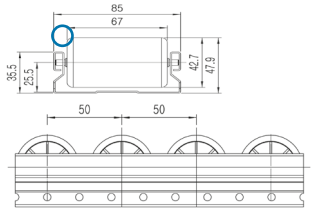


○ W: 115082
● BK: 116416

Weight: 2.600 kg/m
Axis pitch: 43 mm
Length: 4 m
Load: 300 kg*

GP-8550SR GP roller track, coated cylindrical roller





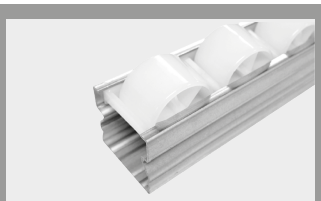
◐ SR: 117409

Weight: 3.120 kg/m
Axis pitch: 50 mm
Length: 2 m
Load: 300 kg*

SPACE FOR NOTES

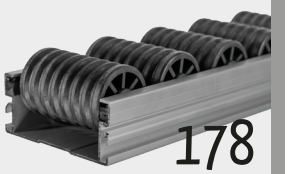
GP-R roller tracks

Series 40



178

Series 70



178

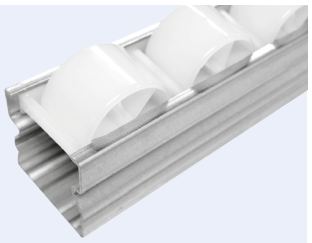
Series 85

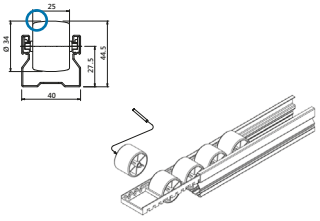
178

GP-R roller tracks with Steel case

- Rolls are inserted into a plastic body
- Cutting and changing roles very easy
- Low noise
- Less gradient necessary
- Alternative to aluminium case

GP-R4040A GP-R roller track, spherical roller

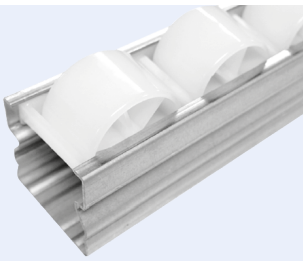


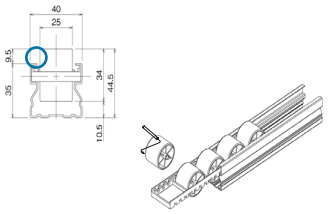


○ W: 130738
● BK: 130739

Weight: 1.125 kg/m
Axis pitch: 40 mm
Length: 4 m
Load: 150 kg*

GP-R4040B GP-R roller track, cylindrical roller

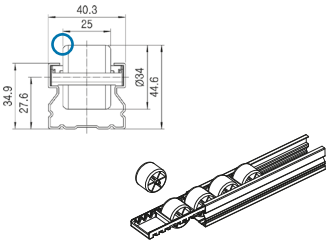




○ W: 130737
● BK: 130741

Weight: 1.220 kg/m
Axis pitch: 40 mm
Length: 4 m
Load: 150 kg*

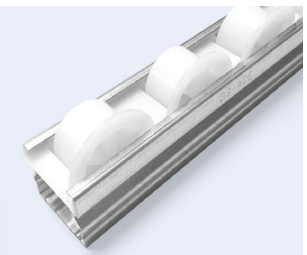
GP-R4040B SR GP-R roller track, cylindrical roller, steel coated

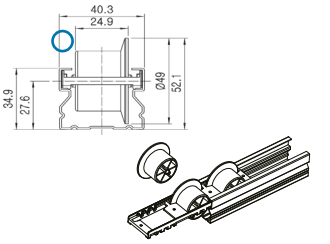


◐ SR: 128271

Weight: 1.200 kg/m
Axis pitch: 40 mm
Length: 4 m
Load: 150 kg*

GP-R4055C GP-R Roller track, cylindrical roller with flange

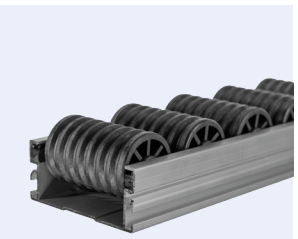




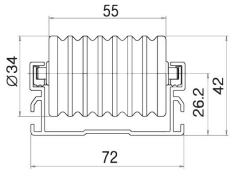
○ W: 127609

Weight: 1.250 kg/m
Axis pitch: 55 mm
Length: 4 m
Load: 150 kg*

GP-R7042BF (AL) GP roller rails, elastic roller



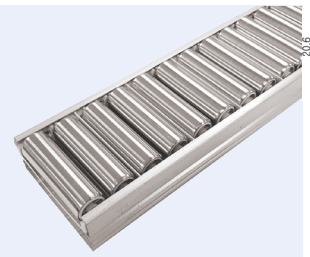
- Aluminium case

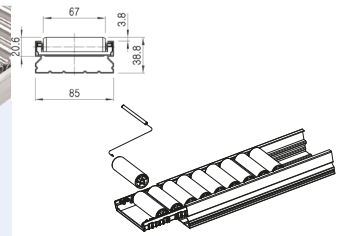


● BK: 403488
● BK: 403490

Weight: 1.852 kg/m
Axis pitch: 50 mm
Length: 4 m
Load: 200 kg*

GP-R8523B SR GP-R roller track, cylindrical roller, steel coated





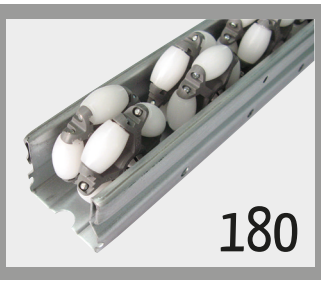
◐ SR: 401686

Weight: 2.900 kg/m
Axis pitch: 23 mm
Length: 2 m
Load: 150 kg*

* Load per 900 mm pair of roller tracks

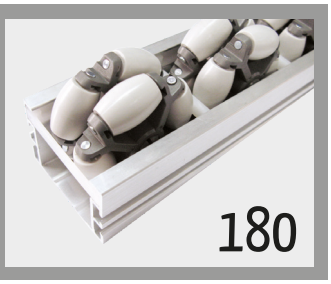
UR all round castors

Series 40



180

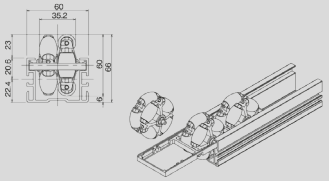
Series 60



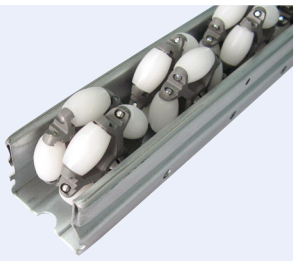
180

UR universal castors

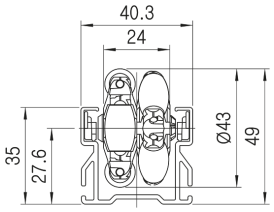
- For movements in all directions, for changes of direction or for assembly islands to connect with each other



UR-4050 Universal castors with steel case

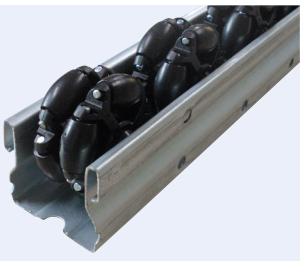


○ W: 112708

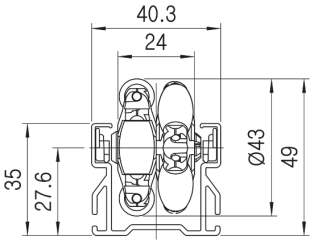


Weight:	1545 kg/m
Axis pitch:	50 mm
Length:	3000 mm
Load:	100 kg*

UR-4050-E Universal castors with steel case, ESD

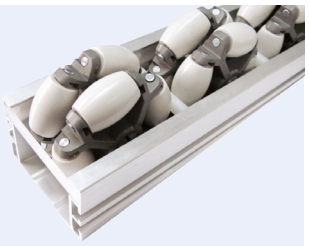


● BK: 112707



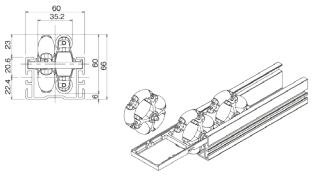
Weight:	1545 g/m
Axis pitch:	50 mm
Length:	3000 mm
Load:	100 kg*

UR-R6067 (AL) Universal castors with large roller



○ W: 113568

- Aluminium case



Weight:	2550 g/m
Axis pitch:	67 mm
Length:	2000 mm
Load:	200 kg*

* Load per 900 mm pair of roller tracks

Ordering overview

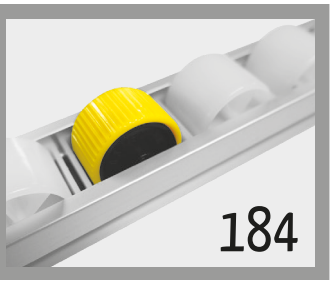
	Art. No.	Name	Ø Castor	Castor distance	Ø Axis	Load*	Material corpus	Length	Castor colour
Serie 35	100528	GP-3533B	28 mm	33,3 mm	3 mm	100 kg	Steel	4 m	White
	100529	GP-3533B-E							Black
Serie 40	100543	GP-4025M	34 mm	25 mm	3,3 mm	150 kg	Steel	4 m	White
	109741	GP-4025M-E							Black
	100530	GP-4036A	34 mm	36 mm	4 mm	150 kg	Steel	4 m	White
	100540	GP-4036A-E							Black
	100531	GP-4036B							White
	120209	GP-4036B	34 mm	36 mm	4 mm	150 kg	Steel	2,5 m	Black
	132078	GP-4036B-VGD	34 mm	36 mm	4 mm	150 kg	Steel	4 m	Dark grey
	100532	GP-4036B-E							Black
	120209	GP-4036B	34 mm	36 mm	4 mm	150 kg	Steel	2,5 m	Black
	130738	GP-R4040A	34 mm	40 mm	4 mm	150 kg	Steel	4 m	White
	130739	GP-R4040A-E (GI)							Black
	130737	GP-R-4040B (GI)							White
	130741	GP-R4040B-E (GI)							Black
	128271	GP-R4040SR (GI)							Steel-coated
	100533	GP-4050C	49 mm	50 mm	4 mm	150 kg	Steel	4 m	White
	100534	GP-4050C-E							Black
	126013	GP-4050C	49 mm	50 mm	4 mm	150 kg	Steel	2,5 m	White
	100535	GP-4050D	43 mm	50 mm	4 mm	150 kg	Steel	4 m	White
	111934	GP-4050D-E							Black
	127609	GP-R4055C (GI)	49 mm	55 mm	4 mm	150 kg	Steel	4 m	White
	112708	UR-4050	43 mm	50 mm	4 mm	80 kg	Steel	3 m	White
	112707	UR-4050-E							Black
Serie 60	100538	GP-6016S	15 mm	16,6 mm	4 mm	100 kg	Steel	4 m	White
	100539	GP-6016S-E							Black
	100537	GP-6033B	30 mm	33,3 mm	4 mm	100 kg	Steel	4 m	White
	100545	GP-6033B-E							Black
	100541	GP-6033HA							White
	113568	UR-6067 (AL)	60 mm	67 mm	5 mm	150 kg	Aluminium	2 m	White
Serie 70	100542	GP-7050BF (GI)	34 mm	50 mm	5 mm	200 kg	Steel	4 m	Beige
Serie 85	401686	GPR8523SR-GI	20,6 mm	22,5 mm	3,5 mm	300 kg	Steel	2 m	Steel-coated
	111576	GP-8525M	34 mm	25 mm	3,3 mm	300 kg	Steel	4 m	White
	100544	GP-8525M-E							Black
	115082	GP-8543-B	40 mm	43 mm	5 mm	300 kg	Steel	4 m	White
	116416	GP-8543-B-E							Black
	117409	GP-8550SR	40 mm	42 mm	5 mm	300 kg	Steel	2 m	White

* Load per 900 mm pair of roller tracks

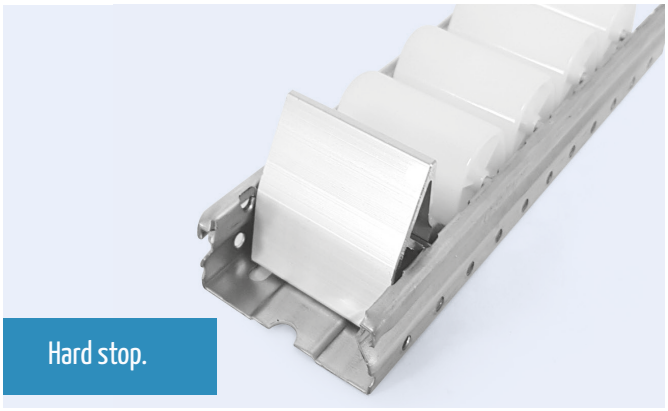
SPACE FOR NOTES

Accessories for roller tracks

Accessories for GP-roller tracks



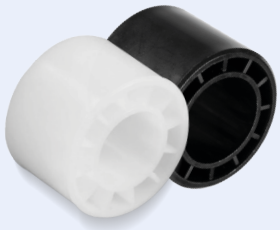
184



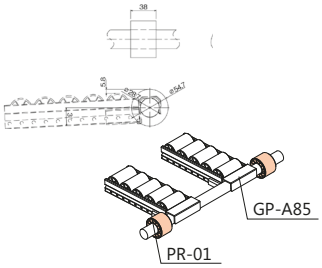
Accessories for gp roller tracks

- Castor pipes, castor track stops or braking castors make it easier to hand over the container and prevent containers from falling down in a horizontal installation position of the castor track or during acceleration and braking processes

PR-01 Pipe castor



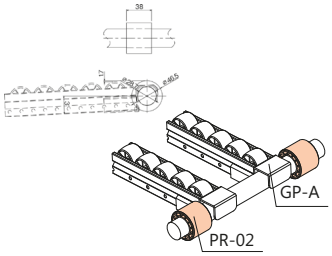
○ W: 115262
● BK: 606100



Diameter: 54.7x28.7mm
Weight: 30 g
Packaging unit: 150 pcs

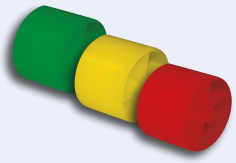
PR-02 Pipe castor

○ W: 115263
● BK: 606101



Diameter: 46.5x28.7mm
Weight: 22 g
Packaging unit: 210 pcs

GP-4036B-Roller Castor for GP-4036 series

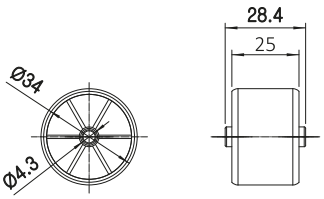


● Green: 125062
● Yellow: 115551
● Red: 125063

Packaging unit: 25 pcs

GP-40SR Roller Castor for GP-4040SR

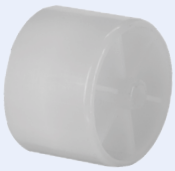
127969



Weight: 20 g
Packaging unit: 160 pcs

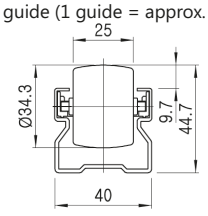
GP-R4040B Roller cylindrical roller

NEW



○ W: 112051

- for GP-R4040B
- Material: PE
- required: 25 pieces per metre or 5 pieces per guide (1 guide = approx. 20 cm)



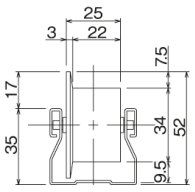
Diameter: 34,3 mm
Packaging unit: 25 pcs

GP-4050C Roller cylindrical roller

NEW

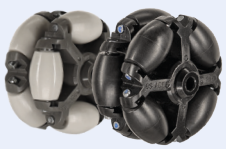
○ W: 115552

- for GP-4050C

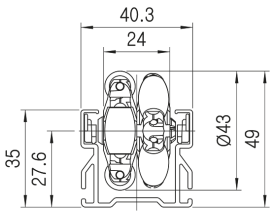


Diameter: 34 mm, 49 mm
Packaging unit: 25 pcs

UR-4050 Roller UR all-round castor



○ W: 605495
● BK: 605496



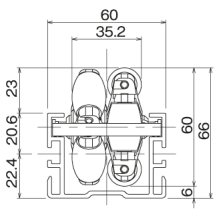
Diameter: 43 mm
Packaging unit: 20 pcs

UR-60 Roller UR all-round castor

NEW

○ W: 114098

- for UR-6067



Diameter: 60 mm
Packaging unit: 60 pcs

Shaft for GP-40xx

605532

- Shaft for roller tracks with steel body
- Length: 38 mm
- Ø4 mm
- Material: Steel

Shaft for GP-R4040A/B

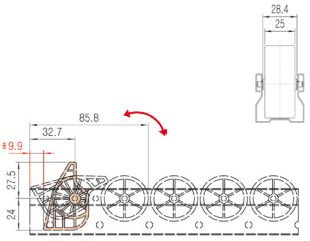
112052

- Shaft for roller tracks with plastic body series 40
- Length: 35 mm
- Ø4 mm
- Material: Steel

SR-40 Roller track stopper (axis for SR-40/ GP-40)

W: 114574
BK: 115062

- Material: Plastic

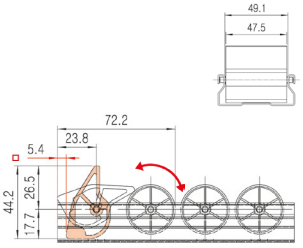


Weight: 12 g

SR-60A Aluminium roller bed stopper

Aluminium: 130853

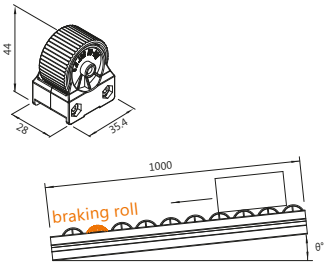
- Axis for SR-60A or GP-60



Weight: 46 g
Packaging unit: 200 pcs

DR-40 Braking roll for roller track (GP40)

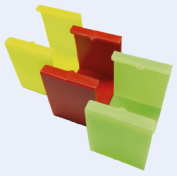
black/yellow: 125275



Weight: 35 g
Packaging unit: 120 pcs

Roller packaging unit	Maximum box brake weight per slope					Remark
	θ=1.5°	θ=2.0°	θ=2.5°	θ=3.0°	θ=3.5°	
1 Set (2pcs)	32 kg	25 kg	6 kg	4 kg	2.5 kg	**Roller load =1.4 kg/ pcs**
2 Set (4pcs)	-	32 kg	12 kg	9 kg	5 kg	

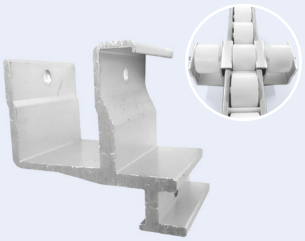
Clip Signalgast Signal-coloured clip



Green: 121098
Yellow: 121099
Red: 124722

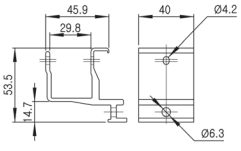
- for GP-40 series

ACY-303A Holder for braking roll



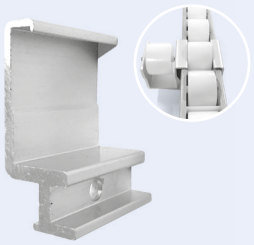
Aluminium: 401487

- Left, right or double-sided mounting



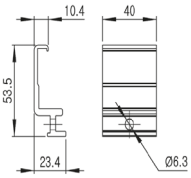
Weight: 55 g
Packaging unit: 80 pcs

ACY-303B Holder for braking roll right

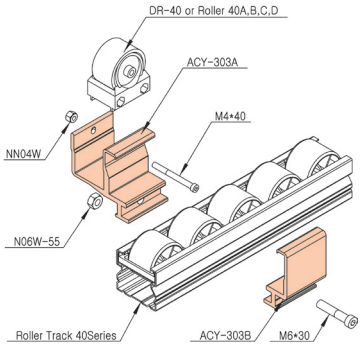


Aluminium: 401488

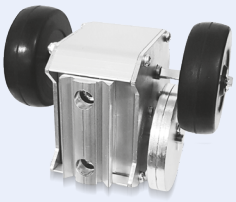
- One-sided mounting



Weight: 29 g
Packaging unit: 80 pcs

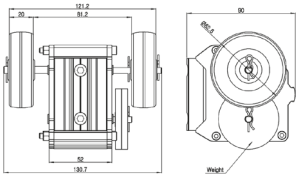


ACA-308B Time delay element



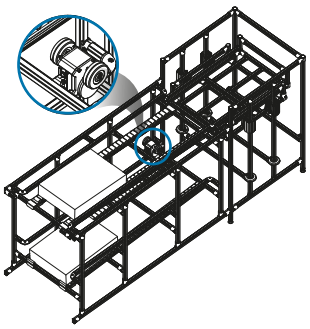
Aluminium: 401105

- For braking e.g.: small load carriers (SLC)
- Weight size: Ø 60 mm
- Torque: 280 gf.cm
- Max. weight load: 10 kg



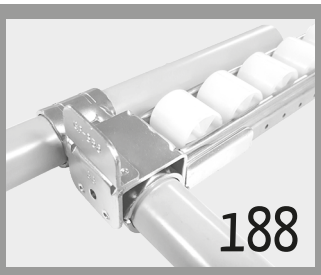
Weight: 864 g
Packaging unit: 6 pcs

Application example for ACA-308B



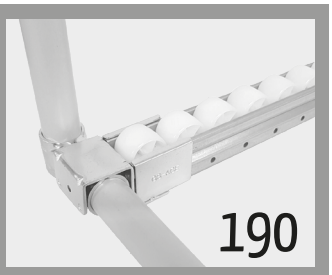
Fastening elements for roller tracks

Series 35



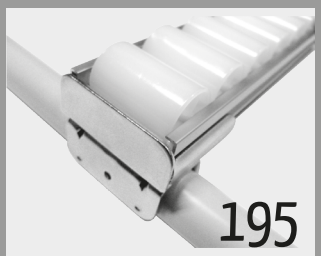
188

Series 40



190

Series 60

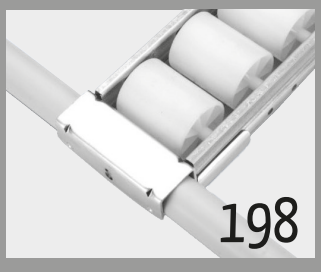


195

Series 70

197

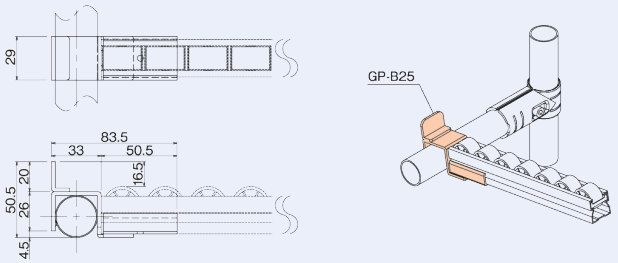
Series 85



198

Mounting brackets for roller tracks

- Mounting of roller tracks with the width
  35 mm (series 35)
  40 mm (series 40)
  60 mm (series 60)
  70 mm (series 70)
  85 mm (series 85)
- Standard measure 40 mm
- Zinc-coated



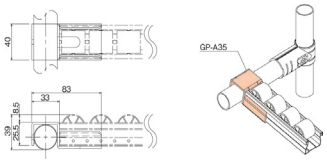
Example:

The **GP-A** connector is mounted directly onto the round pipe whereas the 33 variant of the GP-A, the **GP-A-33**, is mounted onto another joint.

Please note:
The 33 variant can only be mounted onto standard pipe joints.

GP-A35 Roller track mount

for series 35

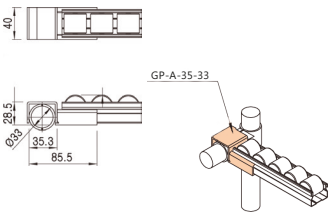


Weight: 111 g
Packaging unit: 80 pcs

GP-A35-33 Roller track mount for mounting on joints

for series 35

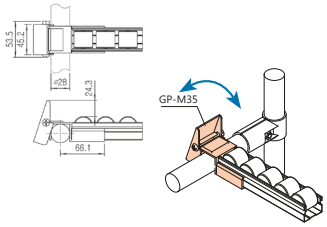
- via joint



Weight: 111 g
Packaging unit: 80 pcs

GP-M35 Roller track mount with foldable stopper

Series 35

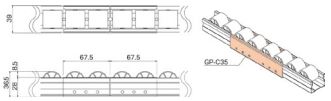


Weight: 210 g
Packaging unit: 30 pcs

GP-C35 Roller track centre connection

Series 35

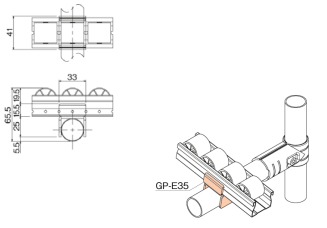
- High receptacle body



Weight: 148 g
Packaging unit: 60 pcs

GP-E35 Roller track stabilizer (centre section)

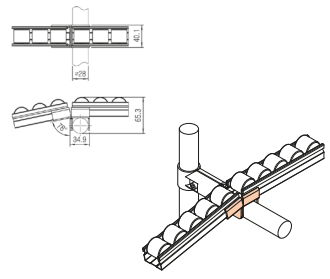
Series 35



Weight: 64 g
Packaging unit: 120 pcs

GP-E35-A12 Roller track stabilizer (centre section)

Series 35



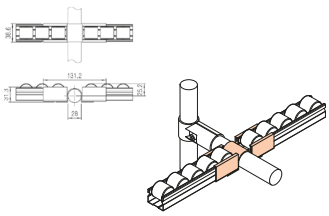
Weight: 120 g
Packaging unit: 60 pcs

GP-HN35 Roller track stabilizer (centre section)

Series 35

WZ: 119410

- High receptacle body



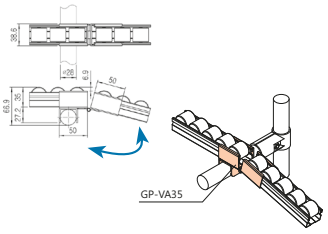
Weight: 279 g
Packaging unit: 30 pcs

GP-VA35 Roller track centre section for variable angles

Series 35

WZ: 128276

- High receptacle body

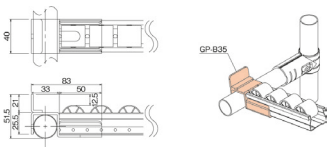


Weight: 190 g
Packaging unit: 45 pcs

GP-B35 Roller track mount with flat stopper

Series 35

WZ: 100491

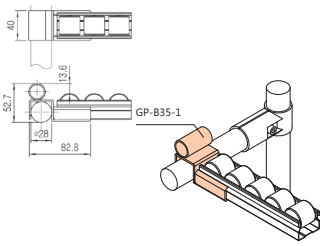


Weight: 132 g
Packaging unit: 60 pcs

GP-B35-1 Roller track mount with round stopper

Series 35

WZ: 100492



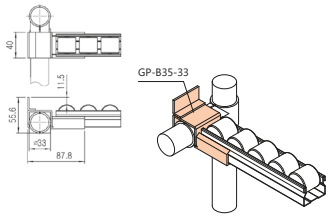
Weight: 240 g
Packaging unit: 70 pcs

GP-B35-33 Roller track mount for mounting

Series 35

WZ: 113571

- via joint
- with flat stop



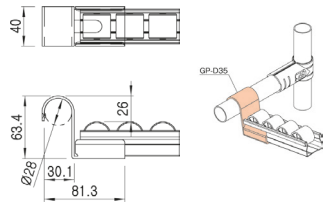
Weight: 132 g
Packaging unit: 60 pcs

GP-D35 Roller track mount rounded

Series 35

WZ: 100494

- Stop on pipe



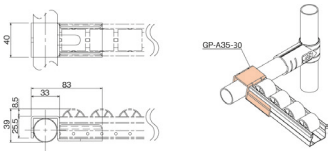
Weight: 130 g
Packaging unit: 70 pcs

GP-A35-30 Roller track mount

Series 35

WZ: 116418

- Stop on pipe



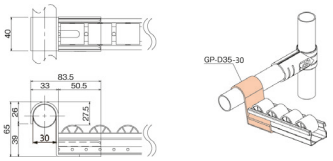
Weight: 111 g
Packaging unit: 80 pcs

GP-D35-30 Roller track mount, rounded

Series 35

WZ: 116417

- Stop on pipe

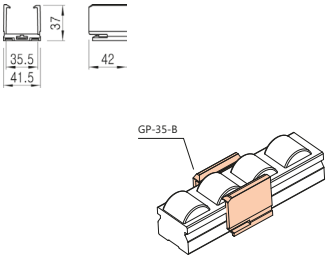


Weight: 130 g
Packaging unit: 70 pcs

GAP-35-B Mounting element

Series 35

light grey: 112654

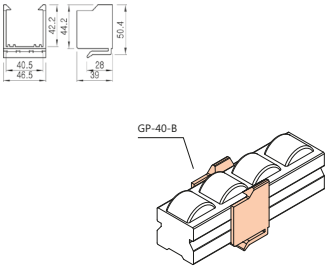


Weight: 15 g
Packaging unit: 300 pcs

GAP-40-B Mounting element

Series 40

BK: 112655



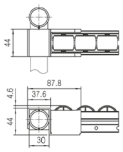
Weight: 34 g
Packaging unit: 150 pcs

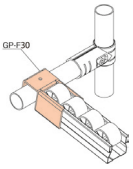
GP-F-30 Roller track mount

Series 40

WZ: 116420

- For mounting on joints and high receptacle body





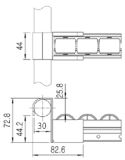
Weight: 175 g
Packaging unit: 40 pcs

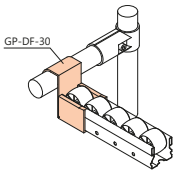
GP-DF-30 Roller track mount with stopper

Series 40

WZ: 116419

- High mounting body
- for 30 mm pipe



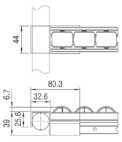


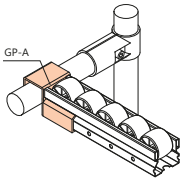
Weight: 194 g
Packaging unit: 40 pcs

GP-A Roller track mount

Series 40

WZ: 100475



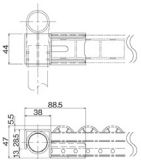


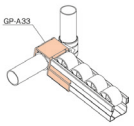
Weight: 141 g
Packaging unit: 80 pcs

GP-A-33 Roller track mount for mounting on joints

Series 40

WZ: 100516



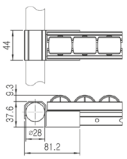


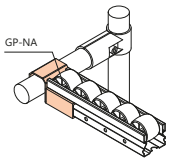
Weight: 142 g
Packaging unit: 60 pcs

GP-NA Roller track mount

Series 40

WZ: 109996



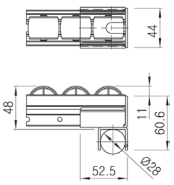


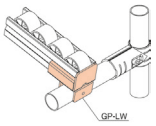
Weight: 100 g
Packaging unit: 80 pcs

GP-LW Roller track mount with low stopper

Series 40

WZ: 126308





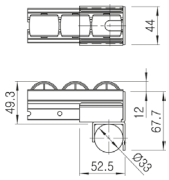
Weight: 144 g
Packaging unit: 70 pcs

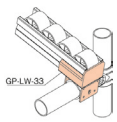
GP-LW-33 Roller track mount for mounting

Series 40

WZ: 126309

- via joint





Weight: 150 g
Packaging unit: 70 pcs

GP-LW-1 Roller track mount without axles

Series 40

WZ: 125266

- without axles and pipe support
- Mounting with self-drilling screw SB4816

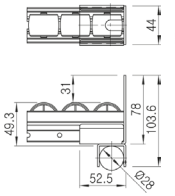
Weight: 144 g
Packaging unit: 70 pcs

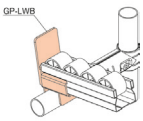
GP-LWB Roller track mount with high stopper

Series 40

WZ: 125267

- with high stop

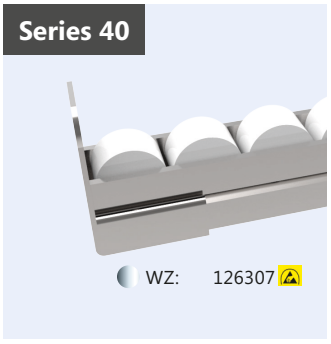




Weight: 178 g
Packaging unit: 50 pcs

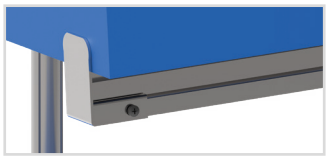
GP-LWB-1 Roller track mount without axles

Series 40



WZ: 126307

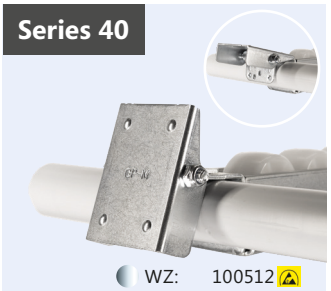
- With high stop and without pipe support
- Mounting with self-drilling screw SB4816



Weight: 144 g
Packaging unit: 70 pcs

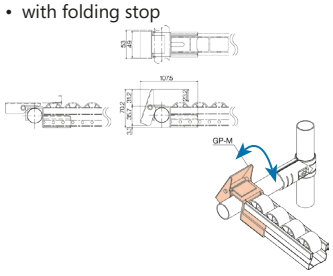
GP-M Roller track mount with foldable stopper

Series 40



WZ: 100512

- with folding stop

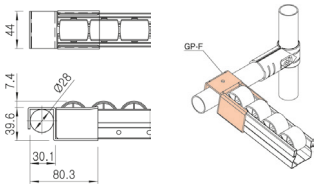


Weight: 239 g
Packaging unit: 30 pcs

GP-F Roller track mount with high receptacle body

Series 40

WZ: 100482



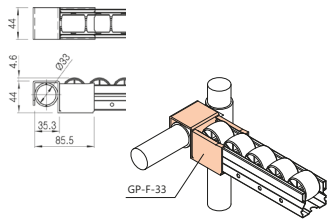
Weight: 175 g
Packaging unit: 60 pcs

GP-F-33 Roller track mount for mounting

Series 40

WZ: 128408

- High mounting body

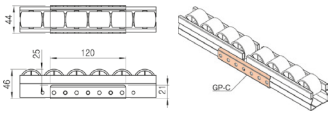


Weight: 190 g
Packaging unit: 36 pcs

GP-C Roller track centre connection

Series 40

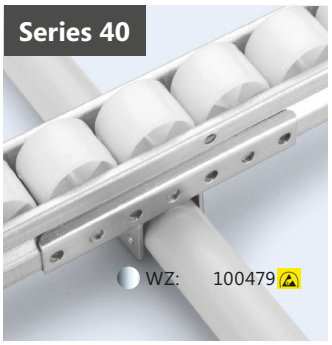
WZ: 100478



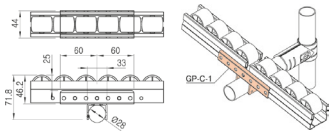
Weight: 121 g
Packaging unit: 80 pcs

GP-C-1 Roller track centre connection with attachment

Series 40



WZ: 100479

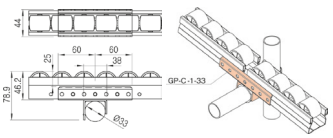


Weight: 170 g
Packaging unit: 40 pcs

GP-C-1-33 Roller track centre connection with attachment

Series 40

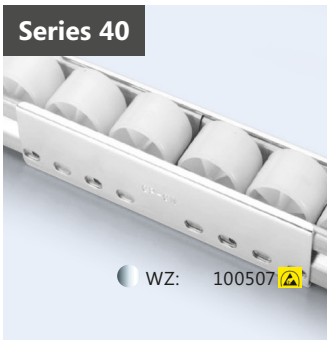
WZ: 109994



Weight: 170 g
Packaging unit: 32 pcs

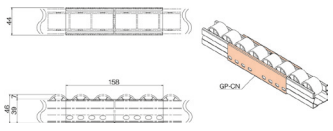
GP-CN Roller track centre connection

Series 40



WZ: 100507

- High mounting body

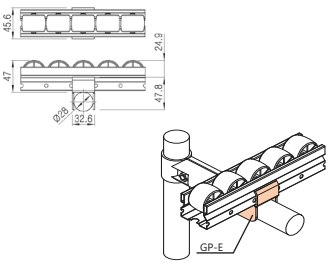


Weight: 232 g
Packaging unit: 36 pcs

GP-E Roller track stabilizer (centre section)

Series 40

WZ: 100481

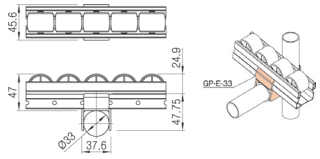


Weight: 79 g
Packaging unit: 100 pcs

GP-E-33 Roller track stabilizer (centre section)

Series 40

WZ: 100522



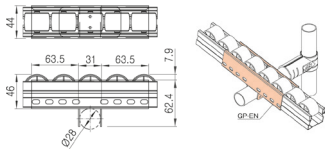
Weight: 85 g
Packaging unit: 100 pcs

GP-EN Roller track centre connection with attachment

Series 40

WZ: 100503

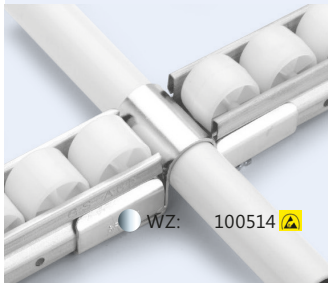
- High receptacle body

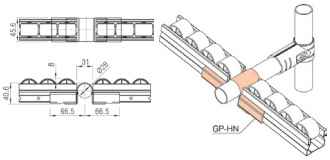


Weight: 217 g
Packaging unit: 20 pcs

GP-HN Roller track centre connection

Series 40



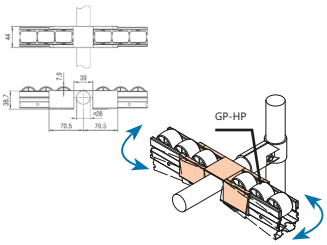


Weight: 279 g
Packaging unit: 30 pcs

GP-HP Roller track centre connection

Series 40

- High mounting body

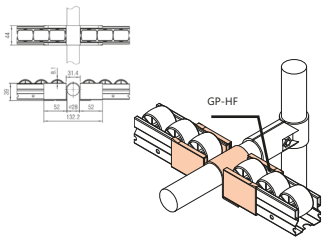


Weight: 215 g
Packaging unit: 24 pcs

GP-HF Roller track centre

Series 40

- High mounting body

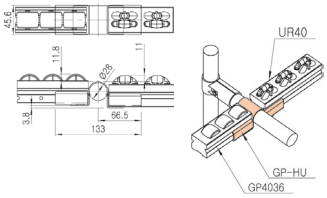


Weight: 232 g
Packaging unit: 24 pcs

GP-HU Roller track centre

Series 40

- In combined with universal castors UR-40

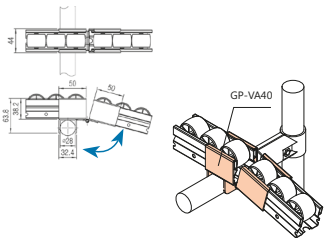


Weight: 230 g
Packaging unit: 30 pcs

GP-VA40 Roller track centre section for variable angles

Series 40

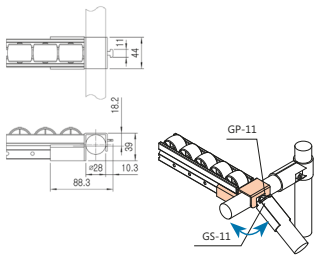
- High mounting body



Weight: 220 g
Packaging unit: 35 pcs

GP-11 Adjustable roller track centre connection

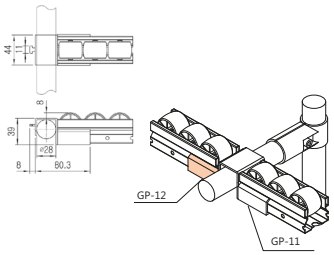
Series 40



Weight: 131 g
Packaging unit: 60 pcs

GP-12 Adjustable roller track centre connection

Series 40

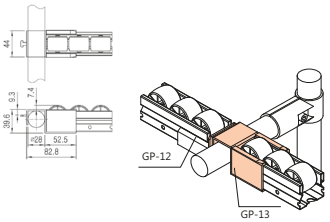


Weight: 96 g
Packaging unit: 180 pcs

GP-13 Adjustable roller track centre connection

Series 40

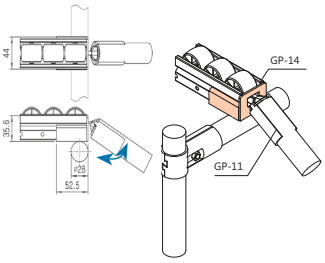
- High mounting body



Weight: 173 g
Packaging unit: 40 pcs

GP-14 Adjustable roller track centre connection

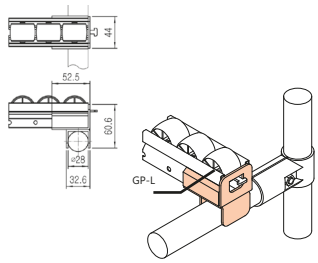
Series 40



Weight: 96 g
Packaging unit: 180 pcs

GP-L Adjustable centre section

Series 40

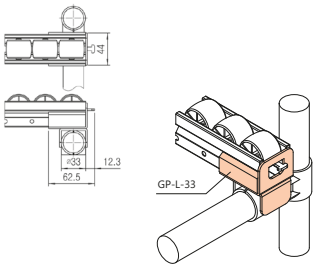


Weight: 144 g
Packaging unit: 60 pcs

GP-L-33 Adjustable centre section for mounting on joints

Series 40

WZ: 109995

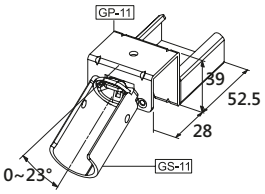


Weight: 150 g
Packaging unit: 60 pcs

GP-J Adjustable adapter roller track/slide pipe

Series 40

WZ: 100489



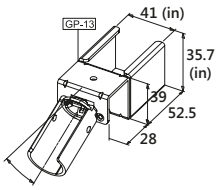
Consisting of:

- 1 x GP-11
- 1 x GS-11

GP-FA Adjustable adapter roller track/slide pipe

Series 40

WZ: 100488



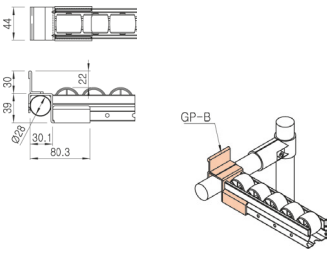
Consisting of:

- 1 x GS-11
- 1 x GP-13

GP-B Roller track mount with flat stopper

Series 40

WZ: 100476

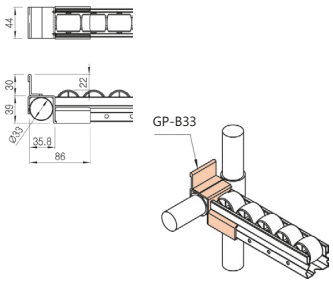


Weight: 157 g
Packaging unit: 60 pcs

GP-B33 Roller track mount with flat stopper

Series 40

WZ: 100517

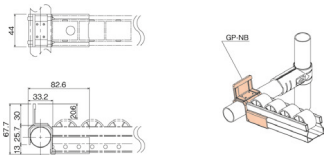


Weight: 173 g
Packaging unit: 50 pcs

GP-NB Roller track mount with flat stopper

Series 40

WZ: 112626

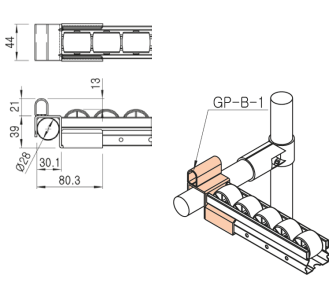


Weight: 129 g
Packaging unit: 60 pcs

GP-B-1 Roller track mount with round stopper

Series 40

WZ: 100477

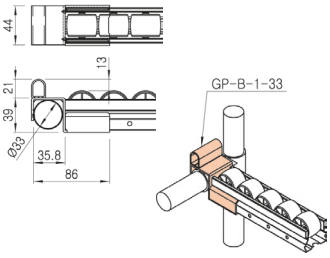


Weight: 174 g
Packaging unit: 50 pcs

GP-B-1-33 Roller track mount with round stopper

Series 40

WZ: 109988



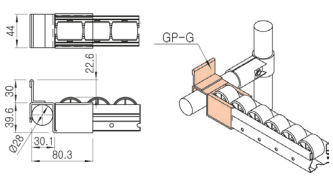
Weight: 174 g
Packaging unit: 40 pcs

GP-G Roller track mount with flat stopper

Series 40

WZ: 100483

- High mounting body



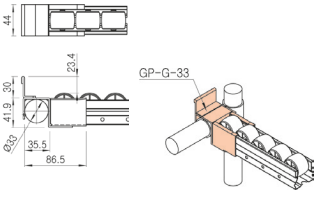
Weight: 205 g
Packaging unit: 40 pcs

GP-G-33 Roller track mount with flat stopper

Series 40

WZ: 128409

- High mounting body
- via joint



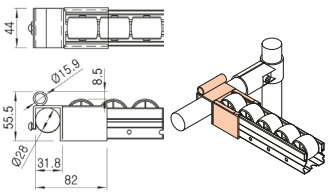
Weight: 220 g
Packaging unit: 30 pcs

GP-FC Roller track mount with round stopper

Series 40

WZ: 113437

- High mounting body



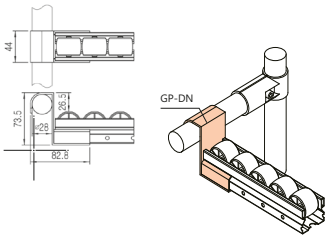
Weight: 200 g
Packaging unit: 42 pcs

GP-DN Roller track mount with attachment

Series 40

WZ: 100480

- Stop on pipe



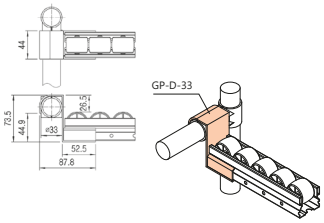
Weight: 160 g
Packaging unit: 70 pcs

GP-D-33 Roller track mount with attachment

Series 40

WZ: 100521

- Stop on pipe
- via joint



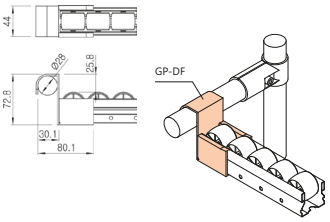
Weight: 165 g
Packaging unit: 70 pcs

GP-DF Roller track mount with attachment

Series 40

WZ: 109990

- High mounting body



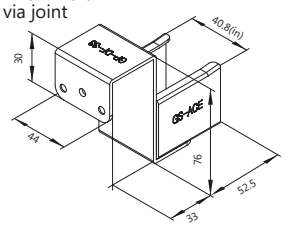
Weight: 194 g
Packaging unit: 50 pcs

GP-DF-33 Roller track mount with attachment

Series 40

WZ: 128407

- High mounting body
- Stop on pipe
- via joint



Weight: 250 g
Packaging unit: 30 pcs

PS-D Swivel joint, roller track mounting

NEW

WZ: 610843

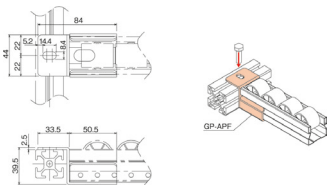
- for Series 40 roller tracks
- Mounting on Ø28 mm round pipe
- swivelling
- Set up vertically, a roller track can be used as a lateral guide

Weight: 128 g
Packaging unit: 126 pcs

GP-APF Roller track mount

Series 40

WZ: 112511

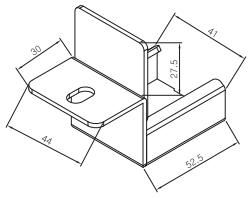


Weight: 124 g
Packaging unit: 80 pcs

GP-APF-B Roller track mount with stopper

Series 40

WZ: 115102



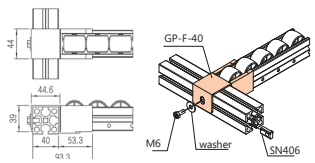
Weight: 155 g

GP-F40 Roller track mount

Series 40

WZ: 128406

- For square profile 40 x 40



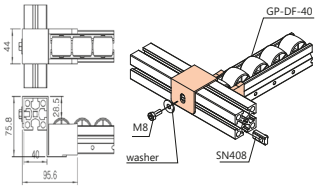
Weight: 240 g
Packaging unit: 50 pcs

GP-DF-40 Roller track mount

Series 40

WZ: 128405

- With stopper for square profile 40 x 40

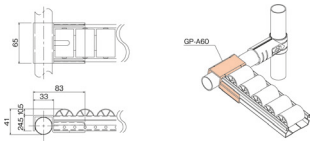


Weight: 260 g
Packaging unit: 30 pcs

GP-A60 Roller track mount

Series 60

WZ: 100504

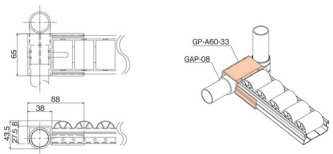


Weight: 164 g
Packaging unit: 60 pcs

GP-A60-33 Roller track mount to mounting-on joints

Series 60

WZ: 100518

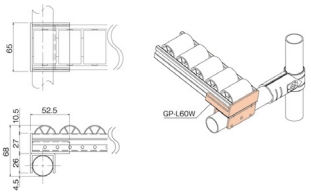


Weight: 164 g
Packaging unit: 50 pcs

GP-L60W Roller track mount

Series 60

WZ: 131820

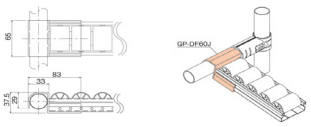


Weight: 187 g
Packaging unit: 30 pcs

GP-DF60J Roller track mount

Series 60

WZ: 126261

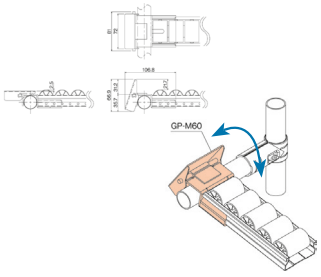


Weight: 174 g
Packaging unit: 40 pcs

GP-M60 Roller track mount with foldable stopper

Series 60

WZ: 100513

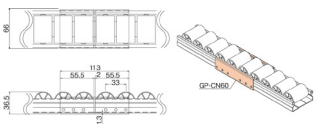


Weight: 280 g
Packaging unit: 30 pcs

GP-CN60 Roller track centre connection

Series 60

WZ: 100509

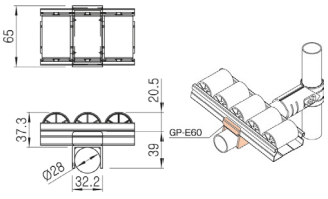


Weight: 168 g
Packaging unit: 68 pcs

GP-E60 Roller track stabilizer (centre section)

Series 60

WZ: 100506

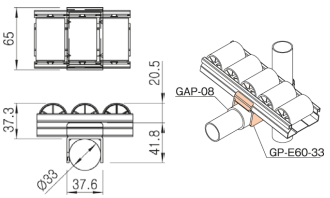


Weight: 95 g
Packaging unit: 100 pcs

GP-E60-33 Roller track stabilizer (centre section)

Series 60

WZ: 100527

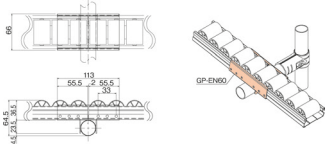


Weight: 95 g
Packaging unit: 80 pcs

GP-EN60 Roller track centre with attachment

Series 60

WZ: 100510

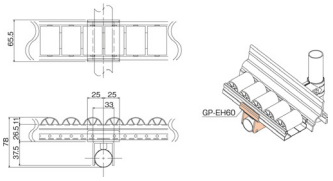


Weight: 158 g
Packaging unit: 20 pcs

GP-EH60 Roller track stabilizer (centre section)

Series 60

WZ: 123461

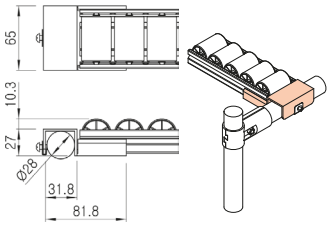


Weight: 176 g
Packaging unit: 50 pcs

GP-FC60 Roller track mount

Series 60

WZ: 126262

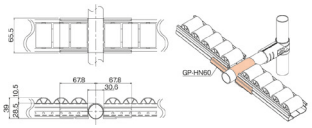


Weight: 168 g
Packaging unit: 50 pcs

GP-HN60 Roller track rounded centre connection

Series 60

WZ: 100515

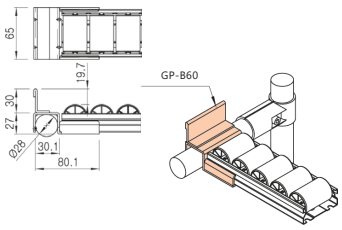


Weight: 234 g
Packaging unit: 35 pcs

GP-B60 Roller track mount with flat stopper

Series 60

WZ: 100505

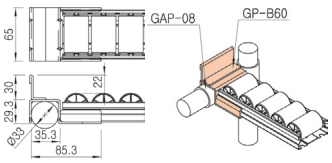


Weight: 250 g
Packaging unit: 30 pcs

GP-B60-33 Roller track mount with flat stopper

Series 60

WZ: 100519

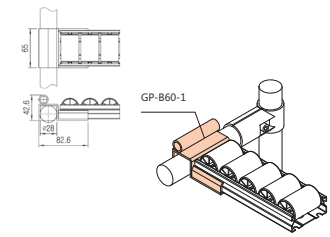


Weight: 250 g
Packaging unit: 20 pcs

GP-B60-1 Roller track mount with round stopper

Series 60

WZ: 126260

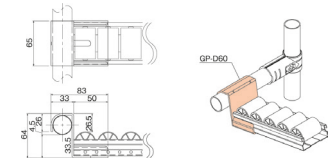


Weight: 196 g
Packaging unit: 30 pcs

GP-D60 Roller track mount, rounded

Series 60

WZ: 100511

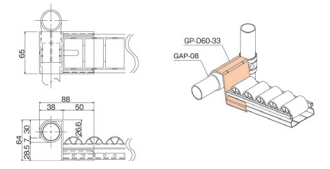


Weight: 205 g
Packaging unit: 40 pcs

GP-D60-33 Roller track mount, rounded

Series 60

WZ: 100520



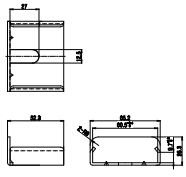
Weight: 205 g
Packaging unit: 40 pcs

GP-L60W-1 Roller track mount with flat stopper

Series 60

WZ: 125269

- With flat stop and without pipe support
- Mounting with self-drilling screw SB4816

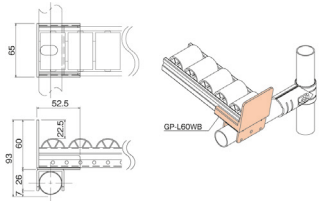


Weight: 280 g
Packaging unit: 30 pcs

GP-L60WB Roller track mount with high stopper

Series 60

WZ: 125268



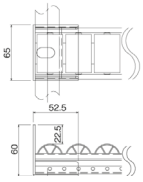
Weight: 220 g
Packaging unit: 40 pcs

GP-L60WB-1 Roller track mount with high stopper

Series 60

WZ: 131821

- With high stop and without pipe support
- with self-drilling screw SB4816

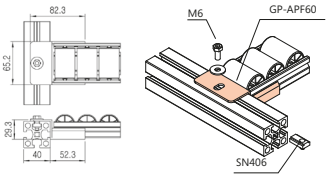


Weight: 175 g
Packaging unit: 60 pcs

GP-APF60 Roller track mount

Series 60

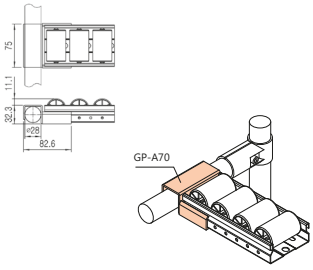
- For square profile 40 x 40 mm



Weight: 139 g
Packaging unit: 50 pcs

GP-A70 Roller track mount

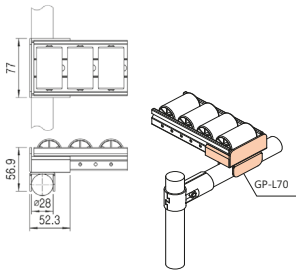
Series 70



Weight: 204 g
Packaging unit: 50 pcs

GP-L70 Roller track mount

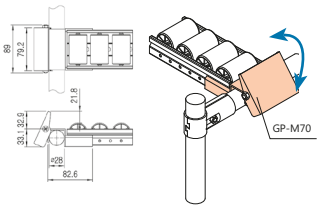
Series 70



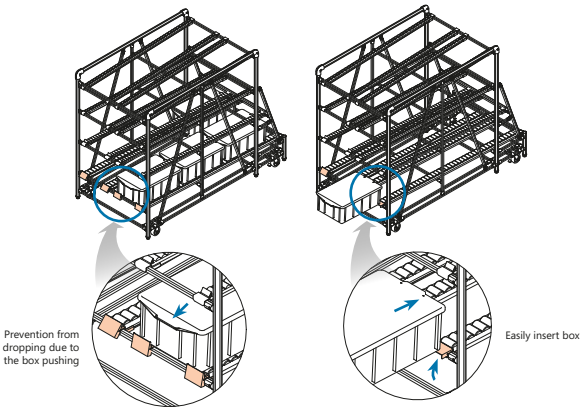
Weight: 209 g
Packaging unit: 60 pcs

GP-M70 Roller track mount with foldable stopper

Series 70

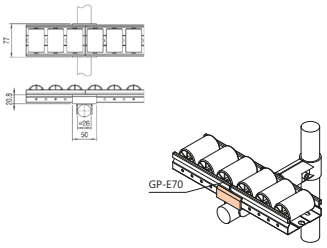


Weight: 330 g
Packaging unit: 20 pcs



GP-E70 Roller track stabilizer (centre section)

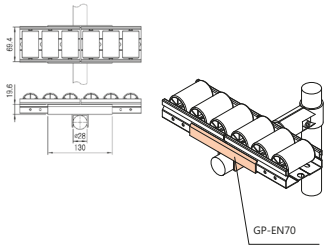
Series 70



Weight: 170 g
Packaging unit: 60 pcs

GP-EN70 Roller track stabilizer (centre section)

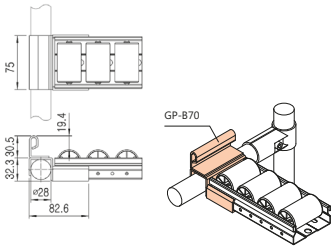
Series 70



Weight: 266 g
Packaging unit: 12 pcs

GP-B70 Roller track mount with stopper

Series 70

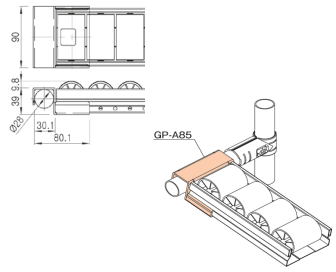


Weight: 280 g
Packaging unit: 30 pcs

GP-A85 Roller track mount

Series 85

WZ: 100496

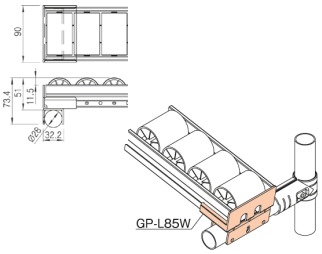


Weight: 205 g
Packaging unit: 40 pcs

GP-L85W Roller track mount

Series 85

WZ: 126266

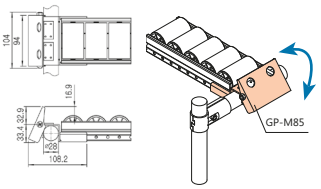


Weight: 264 g
Packaging unit: 24 pcs

GP-M85 Roller track mount with foldable stopper

Series 85

WZ: 118517

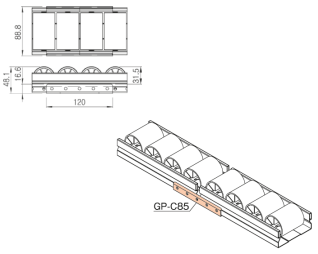


Weight: 410 g
Packaging unit: 20 pcs

GP-C85 Roller track centre connection

Series 85

WZ: 100499

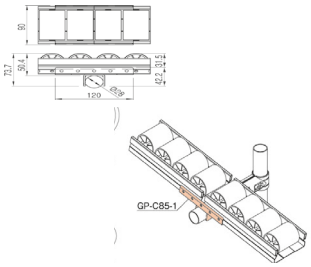


Weight: 140 g
Packaging unit: 70 pcs

GP-C85-1 Roller track centre with attachment

Series 85

WZ: 100500

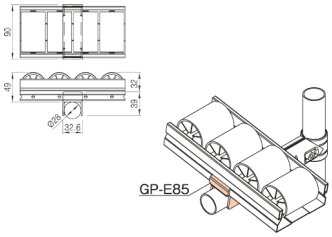


Weight: 243 g
Packaging unit: 20 pcs

GP-E85 Roller track stabilizer (centre section)

Series 85

WZ: 100502

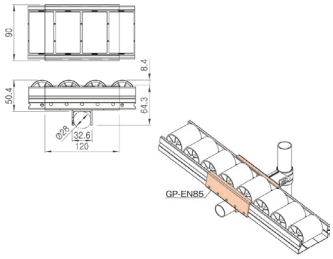


Weight: 124 g
Packaging unit: 80 pcs

GP-EN85 Roller track mount with attachment (centre section)

Series 85

WZ: 126265

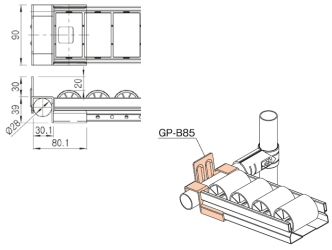


Weight: 414 g
Packaging unit: 12 pcs

GP-B85 Roller track mount with flat stopper

Series 85

WZ: 100497

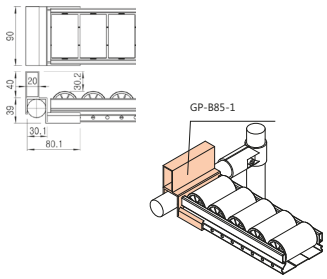


Weight: 300 g
Packaging unit: 30 pcs

GP-B85-1 Roller track mount with square stopper

Series 85

WZ: 100498

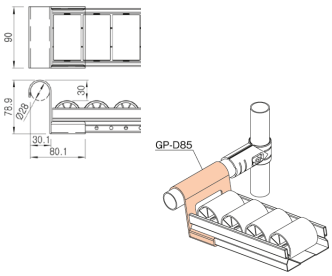


Weight: 318 g
Packaging unit: 20 pcs

GP-D85 Roller track mount, rounded

Series 85

WZ: 100501

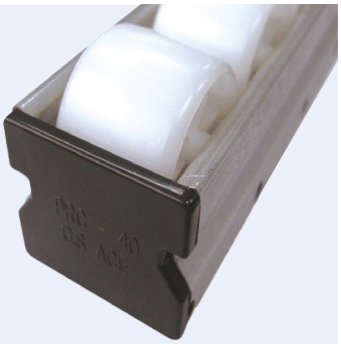


Weight: 235 g
Packaging unit: 30 pcs

Cover caps for roller tracks

Cover caps

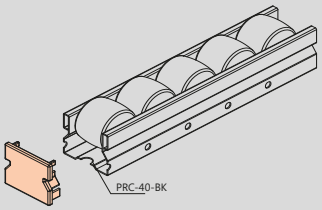
200



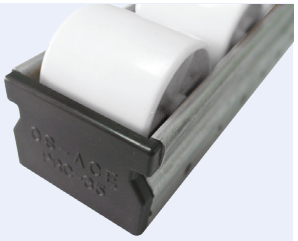
All's well that ends well

Roller track cover caps

- Prevent injuries from cutting surfaces and stop castor packages from falling out of GP-R castor tracks.

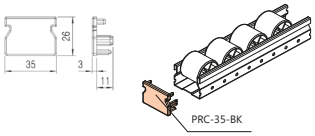


PRC-35-BK Roller track cover caps



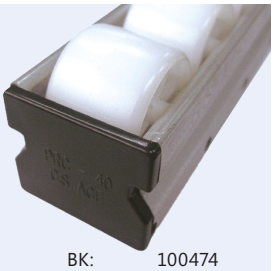
BK: 113864

- for roller track GP-3535B, Series 35



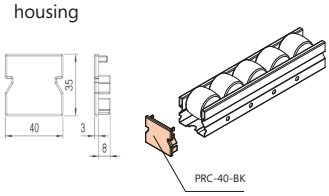
Height: 26 mm
Weight: 5 g
Packaging unit: 1000 pcs

PRC-40-BK Roller track cover caps



BK: 100474

- For Series 40 roller track and steel housing

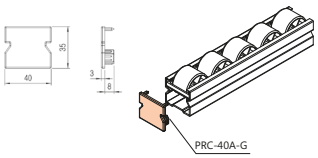


Height: 35 mm
Weight: 5 g
Packaging unit: 100 pcs

PRC-40A-G Roller track cover caps

Grey: 112633

- for Series 40 roller track and aluminium housing

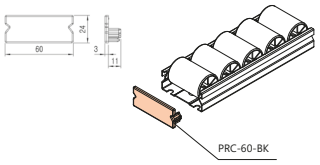


Height: 35 mm
Weight: 5 g
Packaging unit: 1000 pcs

PRC-60-BK Roller track cover caps

BK: 114081

- for Series 60 roller track

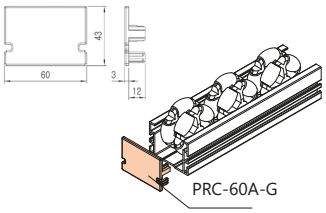


Height: 24 mm
Weight: 9 g
Packaging unit: 600 pcs

PRC-60A-G Roller track cover caps

Grey: 113572

- for UR-6067 roller track

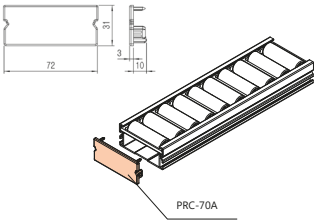


Height: 43 mm
Weight: 9 g
Packaging unit: 600 pcs

PCR-70A-G Roller track cover caps

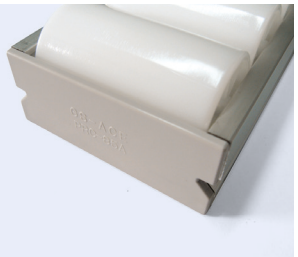
Grey: 112634

- for Series 70 roller track



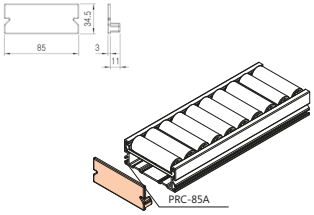
Height: 31 mm
Weight: 8 g
Packaging unit: 600 pcs

PCR-85A-G Roller track cover caps



Grey: 115087

- for Series 85 roller track



Height: 34.5 mm
Weight: 10 g
Packaging unit: 400 pcs

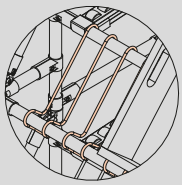
Accessories for roller tracks

Accessories for roller tracks

202

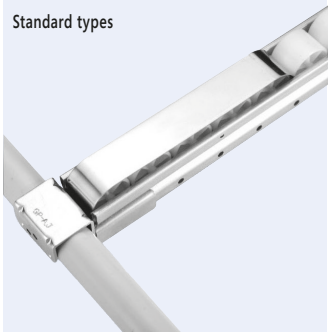
Accessories for roller track

- Metal stoppers for slowing down components and containers
- Prevents damage
- Steel bracket for easy manufacture of picking zone



EWS Roller track stopper for plug-on

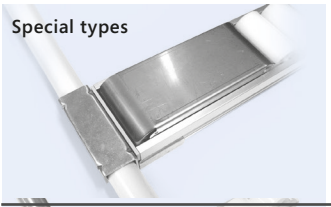
Standard types



Art. No.	Name	For roller tracks	Weight	Packaging unit
100006	EWS-A	GP-4036A/B	56 g	240 pcs
100007	EWS-B	GP-4050C	41 g	300 pcs
100009	EWS-D	GP-4050D/UR4050	61 g	160 pcs
100010	EWS-E	GP-3533B	36 g	360 pcs
100076	EWS-F	GP-6033B/HA	85 g	170 pcs
112632	EWS-J	GP-6016S	78 g	200 pcs
120540	EWS-J2	GP-6016S (2 roller)	50 g	120 pcs
120239	EWS-K	GP-8543B/HA	140 g	90 pcs

EWS Roller track stopper for plug-on

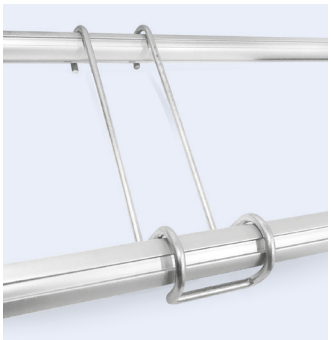
Special types

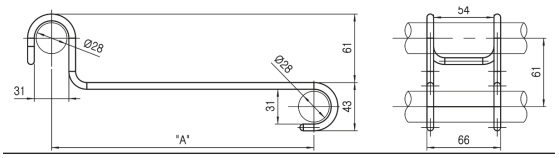


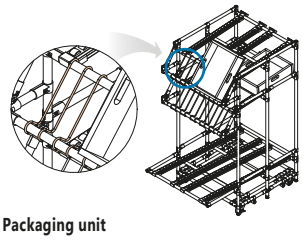
Special type for GP-R... roller tracks

Art. No.	Name	For roller tracks	Weight	Packaging unit
123465	EWS-AN	GP-4036A/B	41 g	250 pcs
120237	EWS-GN	GP-4040A/B	56 g	250 pcs
125265	EWS-GN2	GP-4036A/B (2 roller)	19 g	200 pcs
123717	EWS-MN	GP-8545B/HA	135 g	30 pcs
401224	EWSR4040	GP-R4040A/B	16 g	200 pcs
401226	EWSR6016	GP-R6016S	18 g	200 pcs
401225	EWSR6033	GP-R6033B/HA	21 g	200 pcs
401227	EWSR8523	GP-R8523S	46 g	200 pcs
401228	EWSR8545	GP-R8545B/HA	59 g	72 pcs

WR Steel bracket for pipe Ø28 mm







Art. No.	Name	„A" = Length	Weight	Packaging unit
100073	WR-200	235 mm	182 g	25 pcs
100074	WR-300	335 mm	230 g	80 pcs
100075	WR-400	435 mm	271 g	30 pcs

Lateral guides

Metal

204

Plastic

207

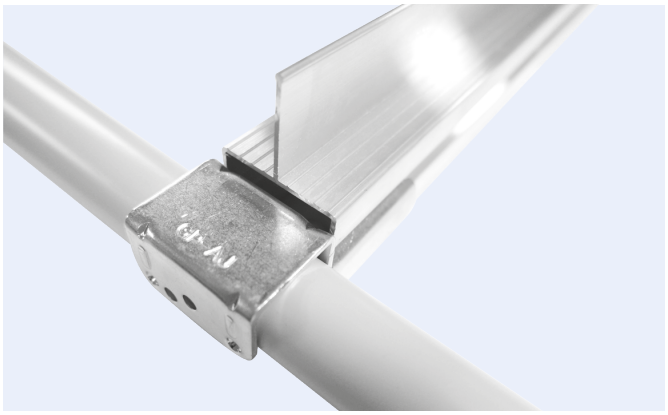
Safe in motion... So that you have everything under control.

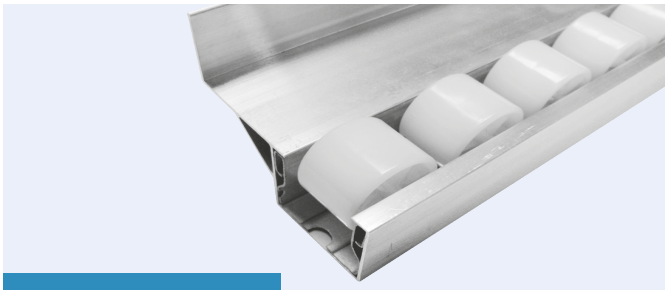
LATERAL GUIDES

BeeWaTec offers you two types of lateral guides that can be selected depending on customer requirements.

Would you like to use **metal** die to increase load-bearing capacity or protect the part by using **plastic** lateral guides?

- **Metal lateral guides**
- **Plastic lateral guides**





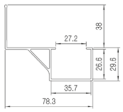
Securely guided with lateral guides

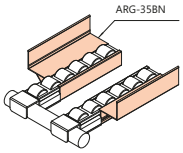
Metal lateral guides

- Aluminium is electrically conductive
- Increase the load-bearing capacity of castor tracks by up to 100%
- Retain the load in the defined track
- Thus make it possible to clearly separate individual customer products
- Directly on roller track or separately mountable

ARG-35BN Lateral guide for series 35

Aluminium: 125262

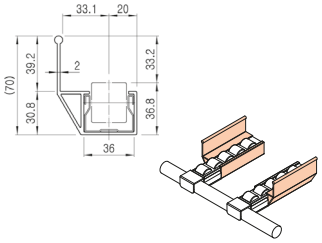




Material: Aluminium
Length: 4 m
Weight: 0.81 kg/m

AHRG-35B Lateral guide for series 35

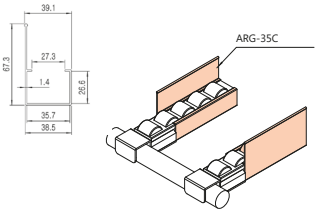
Aluminium: 401530



Material: Aluminium
Length: 4 m
Weight: 1,083 kg/m

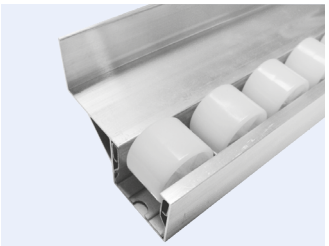
ARG-35C Lateral guide for series 35

Aluminium: 125263

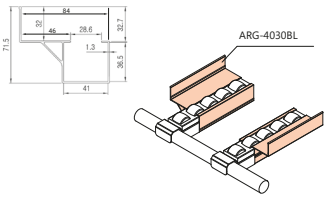


Material: Aluminium
Length: 4 m
Weight: 0.52 kg/m

ARG-4030BL Lateral guide for series 40

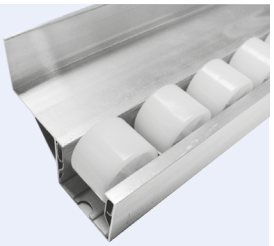


Aluminium: 120009

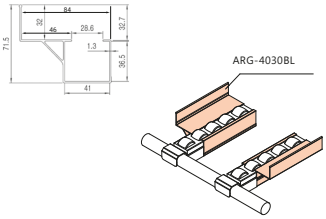


Material: Aluminium
Web height: 30 mm
Length: 2,5 m
Weight: 0.87 kg/m

ARG-4030BL Lateral guide for series 40

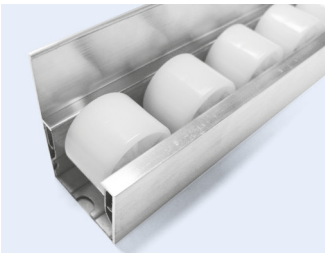


Aluminium: 116740

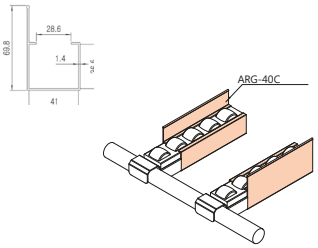


Material: Aluminium
Web height: 30 mm
Length: 4 m
Weight: 0.87 kg/m

ARG-40C Lateral guide for series 40

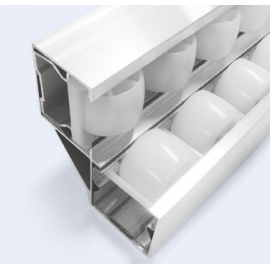


Aluminium: 117322

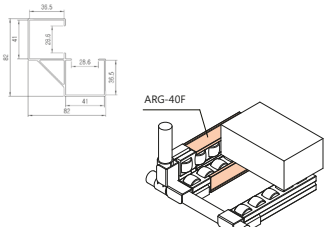


Material: Aluminium
Length: 4 m
Weight: 0.62 kg/m

ARG-40F Lateral guide for series 40



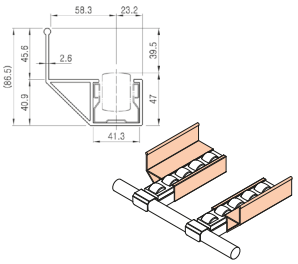
Aluminium: 125261



Material: Aluminium
Length: 4 m
Weight: 1.11 kg/m

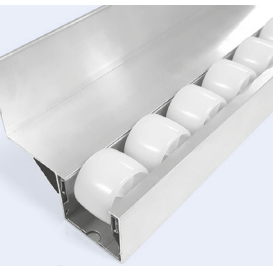
AHRG-40B Lateral guide for series 40

Aluminium: 401531

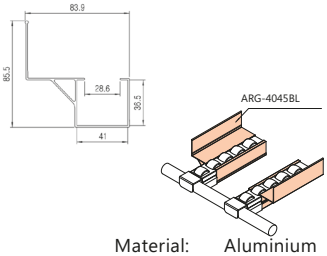


Material: Aluminium
Length: 4 m
Weight: 1.854 kg/m

ARG-4045BL Lateral guide for series 40



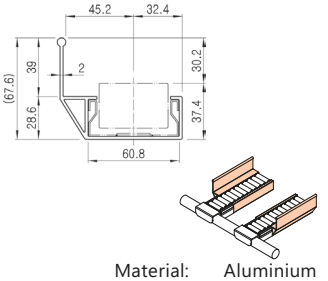
Aluminium: 117293



Material: Aluminium
Web height: 45 mm
Length: 4 m
Weight: 0.91 kg/m

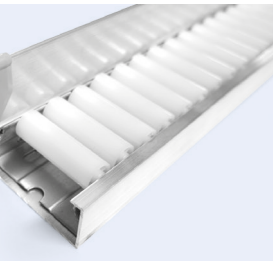
AHRG-60B Lateral guide for series 60

Aluminium: 401532

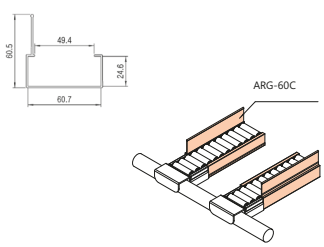


Material: Aluminium
Length: 4 m
Weight: 1.186 kg/m

ARG-60C Lateral guide



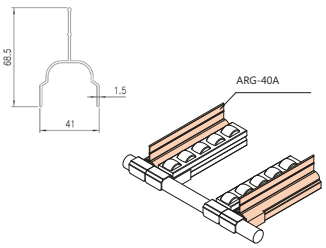
Aluminium: 130807



Material: Aluminium
Length: 4 m
Weight: 0.59 kg/m

ARG-40A Lateral guide for series 40

Aluminium: 116976

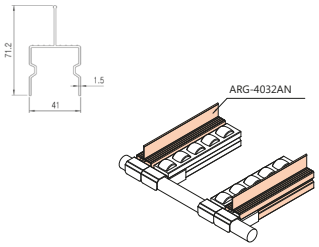


Material: Aluminium
Length: 4 m
Weight: 0.53 kg/m

Metal

ARG-4032AN New Lateral guide for series 40

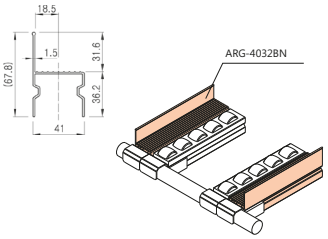
Aluminium: 401471



Material: Aluminium
Length: 4 m
Weight: 0.67 kg/m

ARG-4032BN Lateral guide for series 40

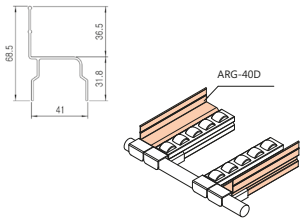
Aluminium: 401498



Material: Aluminium
Web height: 32 mm
Length: 4 m
Weight: 0.63 kg/m

ARG-40D Lateral guide for series 40

Aluminium: 126206

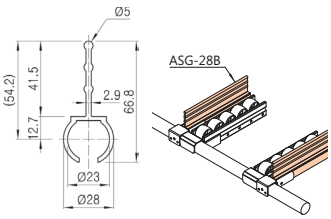


Material: Aluminium
Length: 3 m
Weight: 0.52 kg/m

ASG-28B Lateral guide with high web

Aluminium: 401352

- For mounting slide pipe GS-...

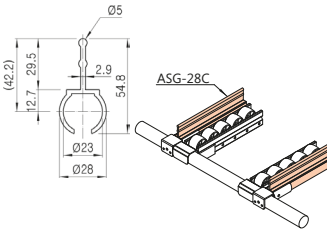


Material: Aluminium
Length: 4 m
Weight: 0.823 kg/m

ASG-28C Lateral guide with low bridge

Aluminium: 401353

- For mounting slide pipe GS-...



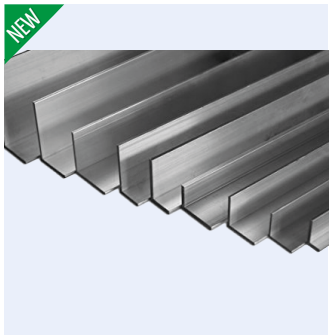
Material: Aluminium
Length: 4 m
Weight: 0.713 kg/m

Z-1630 L angle profile, galvanized

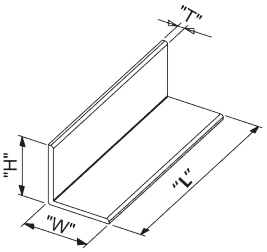
WZ: 114268

Thickness: 1.8 mm
Length: 1.8 m
Weight: 1,3 kg

Aluminium angle



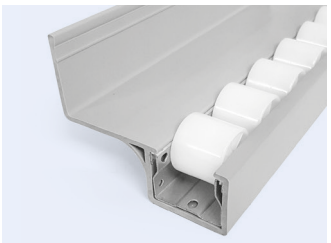
Art. No.	Height (H)	Width (W)	Thickness (T)	Length (L)	Material
612291	35 mm	30 mm	3 mm	1000 mm	blank aluminium
618308				4000 mm	
612299	40 mm	40 mm	4 mm	1000 mm	blank aluminium
618299				4000 mm	
612283	50 mm	50 mm	4 mm	1000 mm	blank aluminium
618152				4000 mm	

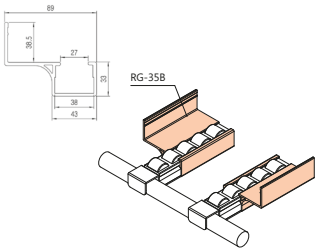


Plastic lateral guides

- Protect the components
- Ensure that individual components are clearly separated
- Directly on roller track or separately mountable

RG-35B Lateral guide for series 35

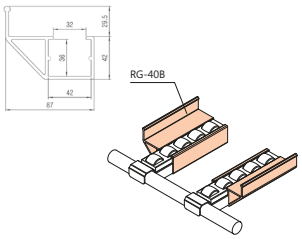




Grey: 112044
BK: 401688

Material:	PVC
Length:	4 m
Weight:	0.86 kg/m

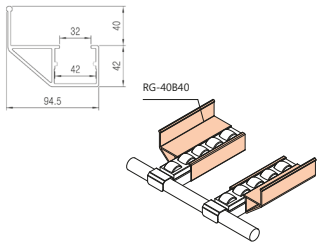
RG-40B Lateral guide for series 40



Grey: 132077

Material:	PVC
Length:	4 m
Weight:	0.97 kg/m

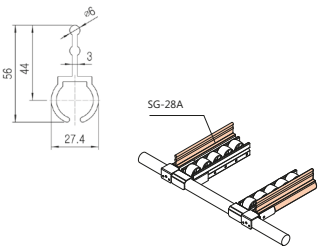
RG-40B40 Lateral guide for series 40



VGD: 128402
BK: 402110

Material:	PVC
Length:	4 m
Weight:	1.1 kg/m

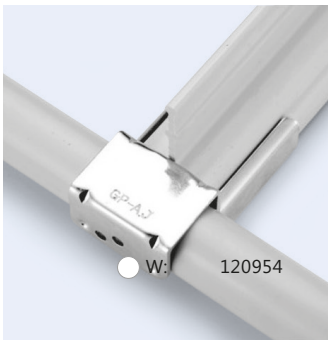
SG-28A Lateral guide

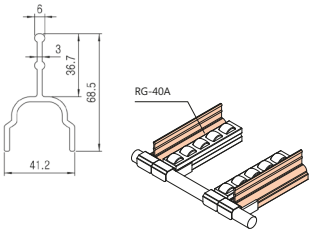


BK: 100421

Material:	PVC
Length:	4 m
Weight:	0.42 kg/m

RG-40A Lateral guide for series 40

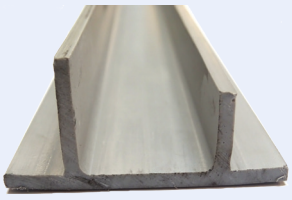




W: 120954

Material:	PVC
Length:	4 m
Weight:	0.5 kg/m

AS-1-G Guide rail made of PVC

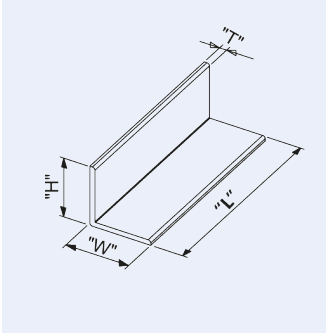


- Width in the middle: 32 mm
- Total width: 70 mm
- Height 1: 34 mm
  Height 2: 25 mm

Grey: 113566

Weight:	800 g
Length:	4 m
Thickness:	4 mm

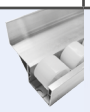
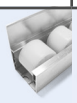
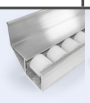
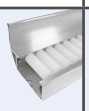
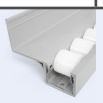
AL-... Guide profile made of PVC in L-Type



Art. No.	Name	Height (H)	Width (W)	Thickness (T)	Length (L)	Colour
113560	AL-4-G	80 mm	90 mm	4 mm	4 m	Grey
100414	AL-5B-E	50 mm	50 mm	4 mm	4 m	Black
100393	AL-5B-I	50 mm	50 mm	4 mm	3 m	Ivory
113565	AL-8-G	50 mm	100 mm	4 mm	4 m	Grey

Overview

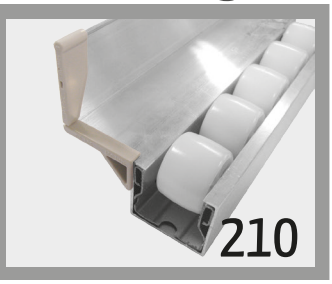
Overview - Which lateral guide fits which roller track?

	Typ	ALUMINIUM LATERAL GUIDE										PLASTIC LATERAL GUIDE		
	Name	ARG-35BN	ARG-35C	AHRG-35B	ARG-4030BL	ARG-4045BL	ARG-40C	ARG-40F	AHRG-40B	ARG-60C	AHRG-60B	RG-35B-G RB-35B-E	RG-40B-VGD RG-40B-E	RG-40B40-G RG-40B40-VG RG-40B40-E
	Image													
	Material	Aluminium										PVC plastic		
	Art. No.	125262	125263	401530	120009	117293	117322	125261	401531	130807	401532	112044 401688	132077 401318	128402 402110
	Lateral distance (measured from the centre of the roller track)	64 mm	18 mm	35 mm	60 mm	60 mm	20 mm	0 mm	65 mm	26 mm	48 mm	64 mm	60 mm	66 mm
	Suitable for corpus width	35 mm	35 mm	35 mm	40 mm	40 mm	40 mm	40 mm	40 mm	60 mm	60 mm	35 mm	40 mm	40 mm
	Name													
Roller tracks with steel body and pushed-in axle	GP-3533..	X	X	X								X		
	GP-4036..				X	X	X	X	X				X	X
	GP-4050C..	All 40 mm lateral guides can be used, since this roller track already has an integrated edge guide, there is normally no need for an additional lateral guide.												
	GP-4050D..				X	X	X		X				X	X
	GP-4025M..				X	X	X	X	X				X	X
	UR-4050..	All 40 mm lateral guides can be used, as this roller rail is designed as an universal castor, you normally do not need a lateral guide.												
	GP-6016..									X	X			
	GP-6033..									X	X			
	GP-7050BF..	There is no lateral guide for this roller track. An alternative would be to build a lateral guide out of pipes.												
	GP-8525M..													
	GP-8543..													
	GP-8550..													
Roller tracks with steel body and inserted axle	GP-R4040... (GI)				X	X	X	X	X				X	X
	GP-R4055C.. (GI)	All 40 mm lateral guides can be used, since this roller track already has an integrated edge guide, there is normally no need for an additional lateral guide.												
	GP-7050BF.. (GI)	There is no lateral guide for this roller track. An alternative would be to build a lateral guide out of pipes.												
Roller tracks with aluminium body and inserted axle	UR-6067.. (AL)	There is no lateral guide for this roller track. An alternative would be to build a lateral guide out of pipes.												

Roller tracks

Safety caps for lateral guides

Safety caps



210

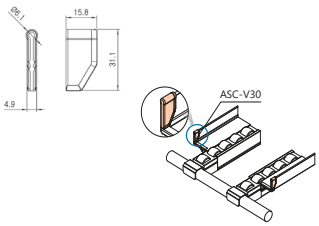
Happy End! With safety cap on the right side.

Safety caps for lateral guides

- On a vertical or horizontal plane
- Made from ABS plastic
- For aluminium lateral guides (series ARG-...)

ASC-V30 Vertical safety cap for lateral guide

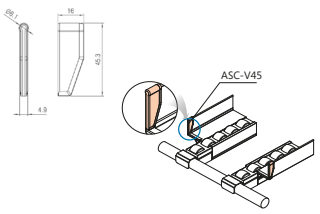
Grey: 121115



Material:	ABS
Web height:	30 mm
Weight:	2 g
Packaging unit:	4000 pcs

ASC-V45 Vertical safety cap for lateral guide

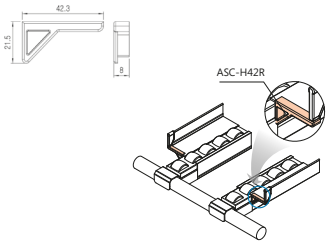
Grey: 121114



Material:	ABS
Web height:	45 mm
Weight:	1 g
Packaging unit:	4000 pcs

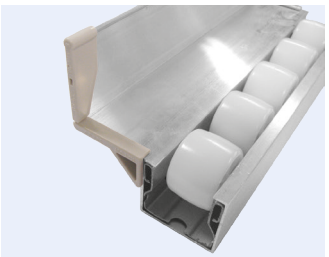
ASC-H42R Horizontal safety cap, right

Grey: 121116

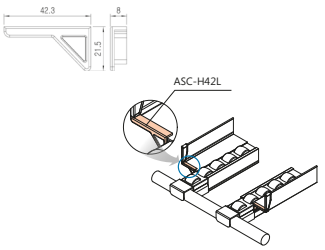


Material:	ABS
Weight:	1 g
Packaging unit:	4000 pcs

ASC-H42L Horizontal safety cap, left



Grey: 121117



Material:	ABS
Weight:	2 g
Packaging unit:	4000 pcs

Compatibility safety caps with lateral guides

LATERAL GUIDES	ASC-V45	ASC-V30	ASC-H42R	ASC-H42L
ARG-40A		X		
ARG-4032AN New		X		
ARG-35BN		X	X	X
ARG-4030BL		X	X	X
ARG-4045BL	X		X	X
ARG-35C		X		
ARG-40C		X		
ARG-40D		X		

Special concepts for roller conveyors

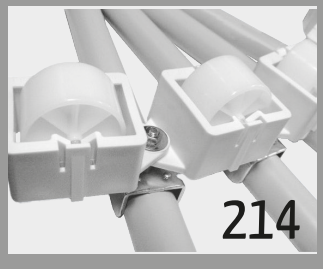
Pipe roller conveyor

212

Ball roller conveyor

213

CR rollers

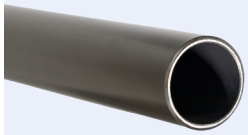


214

Pipe roller track

- Castor tracks - when consistent castors are needed
- Plastic components to realise just one track, if possible

DP3210-Y Pipe for pipe roller track

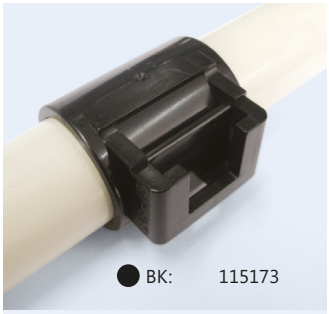


dark grey: 115146

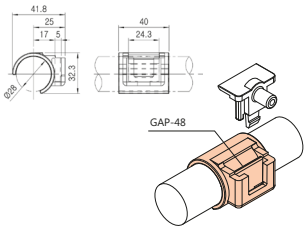
- coated pipe Ø 32 mm (outside)
- inner diameter Ø 27.4 mm
- Wall thickness 1.0 mm

Weight: 0,810 kg/m
Length: 4 m

GAP-48 Holder for pipe roller track single

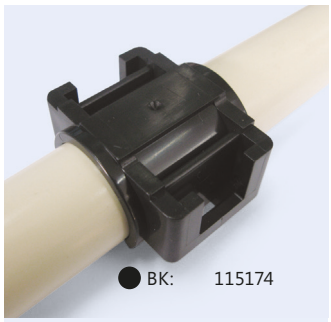


BK: 115173

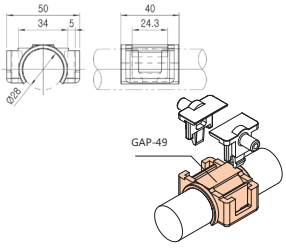


Weight: 13 g
Packaging unit: 500 pcs

GAP-49 Holder for pipe roller track double



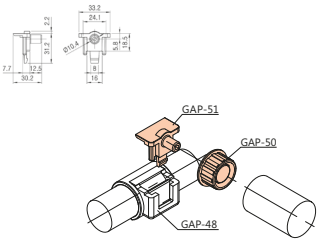
BK: 115174



Weight: 17 g
Packaging unit: 400 pcs

GAP-51 Support pipe roller track

BK: 115171



Weight: 7 g
Packaging unit: 1200 pcs

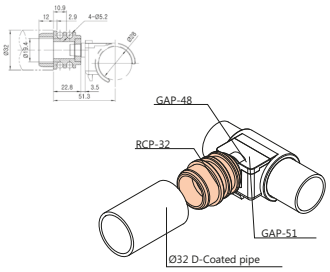
GAP-50/52A Cap for pipe roller track

- Colour black

Art.-No.	Name	Bearing
115175	GAP-50	without ball bearing
115172	GAP-52A	with ball bearing

RCP-32A Castor suitable for rope guide

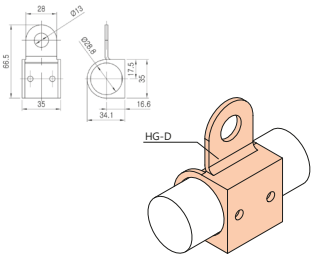
Blue: 126464



Weight: 17 g
Packaging unit: 100 pcs

HG-D Hinge metal

WZ: 100021



Weight: 52 g
Packaging unit: 100 pcs

TR-32 Load-bearing castor

For a single load-bearing castor TR-32 you need the following elements:

- 1 x DP3210-Y
- 2 x GAP-48
- 2 x GAP-50 or 2 x GAP-52A
- 2 x GAP-51
- 2 x SB3916

In a double load-bearing arrangement you need the following elements:

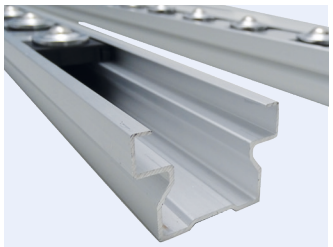
- 1 x GAP-49
- 2 x GAP-50 or 2 x GAP-52A
- 2 x GAP-51

Special concept ball roller track

For a ball roller track you need following parts:

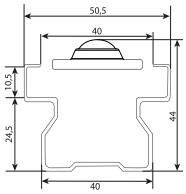
- ACY-316A SA
- ACY-316B SA
- Ball insert D24
- Cage for ball D24

ACY-316A SA Guide rail



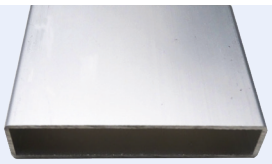
Aluminium: 401509

- For inserting strip ACY-316B SA



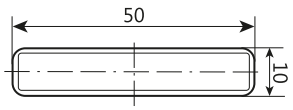
Weight: 0.540 kg/m
Length: 4 m

ACY-316B SA Insert-strip



Aluminium: 401510

- For guide rail ACY-316A SA
- Can be cut mechanically
- Compatible with series 40 of roller track mount

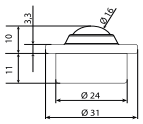


Weight: 80 g
Length: 4 m

Ball insert D24 for aluminium roller tracks

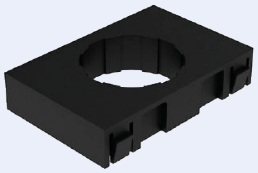
WZ: 401289

- Low-wear and low-friction ball roller for flexible movement in two dimensions, e.g. in switches or locks
- Can also be used in panel elements e.g. in tabletops



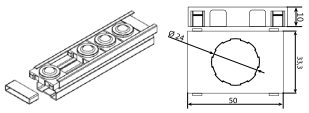
Weight: 64 g
Material ball: stainless steel
Body: steel

Cage for ball or brush insert D24

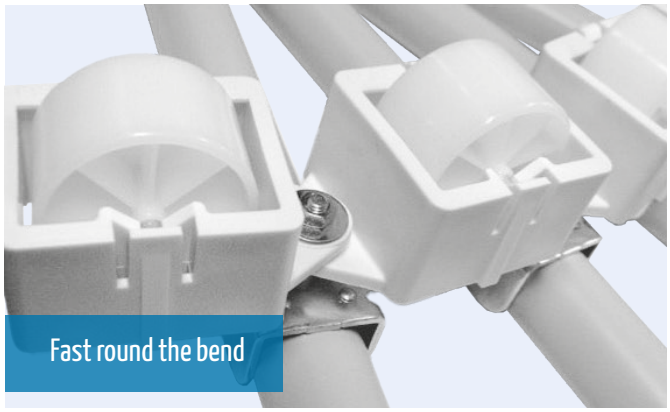


BK: 401426

- Robust cage for aluminium roller tracks
- For holding a ball or brush insert D24



Weight: 8 g
Packaging unit: 10 pcs
Material: plastic PA
Colour: black

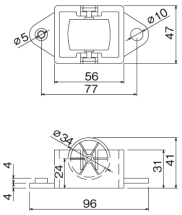


CR castors

- for the realisation of any curve radius
- Space-optimised construction

CR-40A CR castor, crowned roller

- Material: Plastic
- Colour: white/black (ESD)

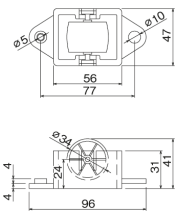


W: 113440
B: 113442

Weight: 51 g
Packaging unit: 100 pcs
Load per castor: 10 kg

CR-40B CR castor, cylindrical roller

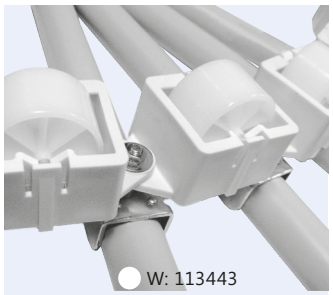
- Material: Plastic
- Colour: white/black (ESD)



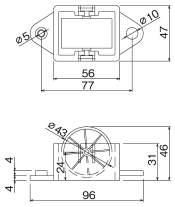
W: 113439
B: 109743

Weight: 51 g
Packaging unit: 100 pcs
Load per castor: 10 kg

CR-40D CR castor with large rollers



- Material: Plastic
- Colour: white

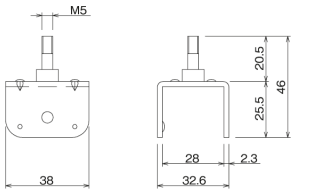


W: 113443

Weight: 51 g
Packaging unit: 80 pcs
Load per castor: 10 kg

BKT-40-Set Mounting set for CR-40

109787



Weight: 12 g
Packaging unit: 200 pcs

The set consists of following parts:

- 1 x BS-40
- 1 x MS05
- 1 x USG05
- 1 x BKT-40

CASTORS & WHEELS

Support feet

Support feet 218

Castors & Wheels

Castors with mounting plate 226
Castors with threaded pin 229
Castors with back hole 231
Low-cost castors with mounting plate 233
Low-cost castors with threaded pin 233
Floor lock 233

SPACE FOR NOTES

Support feet

Support feet

218

Strong support.

Installation supports

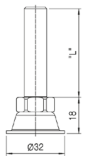
- Compensate for uneven surfaces
- Can be fixed on the floor, if required
- With various threads (1/2"-N12, M10 or M12)
- Also suitable for fitting drive-in sleeves
- A matching counter nut must be ordered separately
  (M10=109755 | M12=109756 | 1/2"-12N= 100270)
- Load capacity
  M10 to 300 kg
  M12 | 1/2" to 500 kg
  M12 heavy load to 750 kg

AD32W RB-AD45/37 Installation support, for drive-in sleeve type A (1/2"-12N) & B (M12)

RB-AD45

RB-AD37

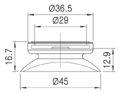
Art. No.	Name	Ø Foot (D)	Length (L)	Thread	Packaging unit
100089	AD32WB	32 mm	50 mm	1/2"-12N	150 pcs
100090	AD32WC		100 mm		
126389	AD32WB-M		50 mm	M12	150 pcs



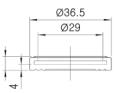
Rubber attachment for AD32WA/AD32WB/AD32WC

Art. No.	Name	Ø Foot (D)	Colour	Material	Packaging unit
401215	RB-AD45	32 mm	Black	Rubber	2000 pcs
130851	RB-AD37	32 mm	Black	Rubber	1500 pcs

RB-AD45

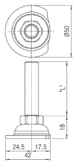


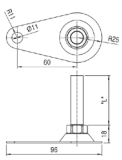
RB-AD37



AD50W AD50...-AC

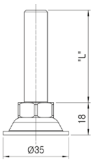
Art. No.	Name	Ø Foot (D)	Length (L)	Thread	Packaging unit
100091	AD50WA	50 mm	50 mm	1/2"-12N	100 pcs
100092	AD50WB		100 mm		
123277	AD50WA-AC	50 mm	50 mm	1/2"-12N	60 pcs
123278	AD50WB-AC		100 mm		
126392	AD50WB-M	50 mm	100 mm	M12	70 pcs

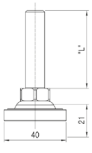




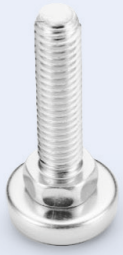
AD35 AD40 Installation support, normale type

Art. No.	Name	Ø Foot (D)	Length (L)	Thread	Packaging unit
126207	AD35SA	35 mm	50 mm	1/2"-12N	100 pcs
126208	AD35SB		100 mm		
126209	AD40SPA	40 mm	50 mm	1/2"-12N Rubber	60 pcs
126210	AD40SPB		100 mm		

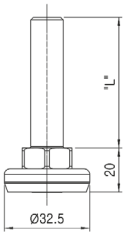




AD32R... Installation support, rubber type with foot Ø32 mm for drive-in sleeve type A & B

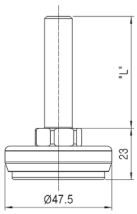


Art. No.	Name	Ø Foot (D)	Length (L)	Thread	Packaging unit
100093	AD32RA	32 mm	50 mm	1/2"-12N (Type A)	150 pcs
100094	AD32RA-E				
100096	AD32RB		100 mm		
100097	AD32RB-E				
126393	AD32RA-M	32 mm	50 mm	M12 (Type B)	150 pcs
126394	AD32RA-EM				
126396	AD32RB-EM		100 mm		



AD50 Installation support, rubber type with foot Ø50 mm

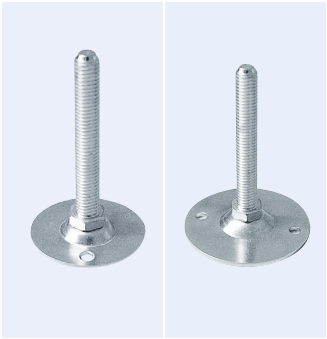
Art. No.	Name	Ø Foot (D)	Length (L)	Thread	Packaging unit
100098	AD50RAN	50 mm	50 mm	1/2"-12N (Type A)	80 pcs
100095	AD50RAN-E				
100099	AD50RBN		100 mm		60 pcs
100100	AD50RBN-E				



AD30M... AD45M... Installation support for drive-in sleeve M10 & M12

Art. No.	Name	Ø Foot (D)	Length	Thread	
107530	AD30M10-35	30 mm	35 mm	M10	
107531	AD30M10-70		70 mm		
118190	AD30M12-100	31 mm	100 mm	M12	
107528	AD45M10-35PA	45 mm	35 mm	M10	Foot black painted
107529	AD45M10-70PA		70 mm		
119168	AD45M12-100		100 mm	M12	

AD47M... AD60... Installation support thread M10

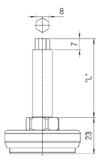


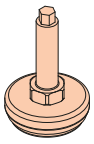
Art. No.	Name	Ø Foot (D)	Length	Thread
107533	AD47M10-70	47 mm	70 mm	M10
107532	AD60M10-70	60 mm		

AD50RAN-H Installation support 1/2"

WZ: 130796

- Foot Ø50 mm with rubber insert



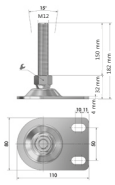


Length: 100 mm
Weight: 120 g
Packaging unit: 60 pcs

BSF80 Adjustable foot M12 for ground mounting

WZ: 115215

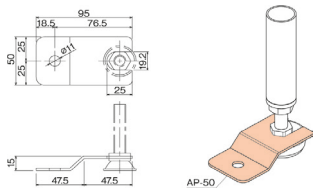
- Foot made of steel, chromed, thread with nut and washer, galvanised steel



Thread length: 150 mm
Weight: 35 g
Packaging unit: 150 pcs

AP-50 Ground mounting plate

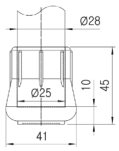
WZ: 100043

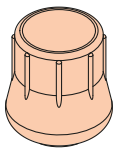


Weight: 52 g
Packaging unit: 220 pcs

RF-01 Rubber foot

Grey: 100082
BK: 100055

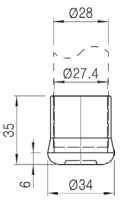


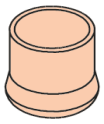


Weight: 35 g
Packaging unit: 250 pcs

RF-02 Rubber foot

BK: 100083
BK: 402037

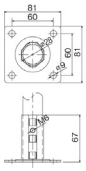


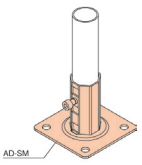


Weight: 11 g
Packaging unit: 450 pcs

AD SM Floor mounting

WZ: 100041

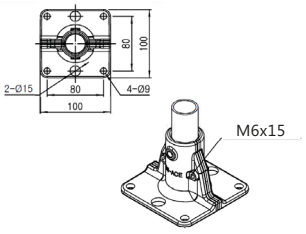




Weight: 180 g
Packaging unit: 20 pcs

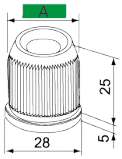
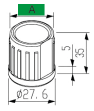
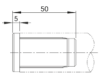
AA-204 Foot element made of aluminium casting

Aluminium: 501017



The set consists of following parts:

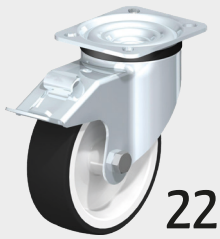
- 2 x A-204
- 2 x SI0614 8.8
- 2 x N06
- 1 x GS0810 R

Drive-in sleeves	Art. No.	Name	Pipe	Ø Pipe	inner Ø Pipe	Thread	Material	Ø Drive-in sleeve (A)	
	402672	BS20A	D-coat pipe	28 x 0,7 mm	24,0 mm	1/2"-12N	Steel	Ø24,1 mm	
	402673	BS20B				M12 x 1,75			
	402745	BS20D				M10 x 1,5			
	609451	BC2809A		28 x 0,9 mm	23,6 mm	1/2"-12N		Ø23,7 mm	
	609452	BC2809B				M12 x 1,75			
	609453	BC2809D				M10 x 1,5			
	100101	BC2810A*		28 x 1,0 mm	23,4 mm	1/2"-12N		Ø23,5 mm	
	100102	BC2810B*				M12 x 1,75			
	100114	BC2810D*				M10 x 1,5			
	100107	BC2820A		28 x 2,0 mm	21,8 mm	1/2"-12N		Ø21,9 mm	
	100108	BC2820B				M12 x 1,75			
	101664	BC2820D				M10 x 1,5			
	100109	BS07A	ECCO-Star pipe | SUS pipe	28 x 0,7 mm	26,1 mm	1/2"-12N		Ø26,8 mm	
	100110	BS07B				M12 x 1,75			
	109723	BS07D				M10 x 1,5		Ø26,3 mm	
	126382	BS10A	ECCO-Star pipe	28 x 0,9 mm	25,7 mm	1/2"-12N		Ø26,1 mm	
	402271	BS10B				M12 x 1,75			
	402744	BS10D				M10 x 1,5			
	100111	BS12A	ECCO-Star pipe | SUS pipe	28 x 1,2 mm	25,1 mm	1/2"-12N		Ø25,5 mm	
	100112	BS12B				M12 x 1,75			
	100113	BS12D				M10 x 1,5		Ø25,3 mm	
	402672	BS20A	ECCO-Star pipe	28 x 2,0 mm	23,9 mm	1/2"-12N		Ø24,1 mm	
	402673	BS20B				M12 x 1,75			
	402745	BS20D				M10 x 1,5			
	126211	AS2807A	ECCO-Star pipe | SUS pipe	28 x 0,7 mm	26,1 mm	1/2"-12N	Aluminium	Ø26,5 mm	
	126212	AS2807B				M12 x 1,75			
	126213	AC2809A	D-coat pipe	28 x 0,9 mm	23,4 mm	1/2"-12N		Ø23,8 mm	
	126214	AC2809B				M12 x 1,75			
	117714	BA2800A	Aluminium profile pipe	28 mm	20,3 mm	1/2"-12N	Aluminium	20,4 mm	
	117715	BA2800B				M12 x 1,75			
	402039	BA280LA				1/2"-12N	Steel	20,5 mm	
	402040	BA280LB				M12 x 1,75			
	402041	BA280LD				M10			

*Suitable also for aluminium pipe AL2820

For detailed information, please see the section „ Drive-in sleeves" in the category „ Joints made of steel or aluminium".

Castors & Wheels

Castors with mounting plate	 226	Castors with threaded pin	229
Castors with back hole	231	Low-cost castors with mounting plate	233
Low-cost castors with threaded pin	233	Floor lock	233

SPACE FOR NOTES

Movable, strong, height-adjustable ...
The right castors for every task.

Castors and wheels

- Castors make units mobile, meaning that installation places can be flexibly changed and complete layouts modified
- Available for various load capacities and can be selected to suit application
- Available with plastic and aluminium wheel units with various covers

Castors variants and nomenclature

A	-	P	-01-	-75-	L	-	E	-TG-	R	-	0
Manu-facturers		**Assembly type**	**Panel size**	**Wheel Ø**	**Version of castor**		**Body**	**Coating**	**Bearing type**		**Standard/ special**

Mount type:

P Panel
R Bolt hole
G Threaded pin

Panel size bolt hole threade pin:

01 Panel size 1 (approx. 100x85mm)
Hole pattern: 55/60 x 76/80 mm Ø 9 mm
03 Panel size 3 (approx. 140x110mm)
Hole pattern: 75/80 x 105 mm Ø 11 mm
33 Panel size (140x110mm, 6 hole pattern)
40 Panel size (120 x40 mm) Hole spacing 80 mm
10 M10 thread
11 Bolt hole Ø11 mm
12 M12 thread
13 Bolt hole Ø13 mm

Castor version:

LB Swivel castor with brake
L Swivel castor without brake/lock
B Fixed castor

Body:

E Steel panel body (light version)
M Steel panel body (medium version)
K Steel panel body (heavy version)
H Steel panel body (heavy duty version)
A Apparatus body (bolt hole/panel)
W Plastic body

Coating:

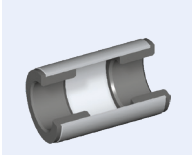
TG	Thermoplastic rubber
TAPU	Thermoplastic PU
EVGP/EVGA	Elastic solid rubber
TOPU	Thermoplastic PU
PA	Polyamide 6
EXPU	Polyurethane yellow
HVG	Solid rubber grey

Bearing type:

R Castor bearing
G Plain bearing
K Ball bearing

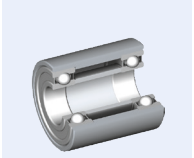
Standard/special:

0 (standard)	Non conductive
E	Electrical conductive
SG	Traceless gray
SB	Blue without a trace
FS	Foot protection
ST	Stop-top
RI	Directional look
KOX	Spherical coating (convex)



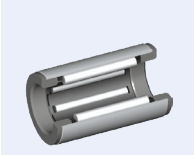
Plain bearings (G)

A simple, reasonably priced, non/sensitive, and in normal situations maintenance-free bearing. Suitable for apparatus and transport equipment that is driven relatively infrequently and at low speeds.



Ball bearings(K)

Fulfil the highest requirements in terms of loading capacity, running characteristics (even at high speeds) and reliability. Are used principally in demanding transport equipment and heavy-duty castors.



Castor bearings (R)

Robust, hard-wearing bearing with very low rolling resistance; these have proved themselves principally in transport equipment. Greased with long-life grease when assembled, after which they are generally maintenancefree.

Recommendation for castor selection

As help for selection of a suitable castor you will find several criteria and/or important cornerstones for orientation.

Application areas

Load/wheel	Castor	Mounting
< 60 kg	Bolt hole **AR**	Drive-in sleeve
> 60 kg	Threaded pin **AG**	Drive-in sleeve
< 150 kg	Panel **AP**	CM-200
< 250 kg	Panel **AP**	MCP-B...
< 300 kg	Panel **AP**	MC-System

Choice of a suitable wheel coating

Comparison overview of individual coating types (see complete overview) and their properties:

Type of thread	Suitable for hard ground	Suitable for soft ground	Suitable for heavy load	Noise development	Rolling resistance
Solid rubber (HVG)	★★★★★	★☆☆☆☆	★☆☆☆☆	★★★★☆	★★★☆☆
Thermoplastic rubber (TG)	★★★★☆	★☆☆☆☆	★★☆☆☆	★★★☆☆	★★★★☆
Thermoplastic PU (TAPU)	★★☆☆☆	★★★☆☆	★★★☆☆	★★★☆☆	★★★★☆
Elastic solid rubber (EVGP/EVGA)	★★★☆☆	★★☆☆☆	★★★★☆	★★★★☆	★★★★☆
Thermoplastic PU (TOPU)	★★☆☆☆	★★★☆☆	★★★★☆	★★★☆☆	★★★★☆
Polyamide (PA)	☆☆☆☆☆	★★★★★	★★★★★	★★☆☆☆	★★★★★
Polyurethane yellow (EXPU)	★★☆☆☆	★★★☆☆	★★★★★	★★★☆☆	★★★★☆

Legend

★★★★★	Excellent
★★★★☆	Very good
★★★☆☆	Good
★★☆☆☆	Satisfactory
★☆☆☆☆	Adequate
☆☆☆☆☆	Inadequate

Wheel matrix

		Features					Exemplary case of application										
Coating	Wheel diameter in mm	Bolt hole	Threaded pin	Fixing plate	Non-conductive	Conductive (ESD)	Light weight trolley	Picking rack	Heavy cart	Tugger train	Pallet platform	Light weight table / rack	Heavy table / rack	Installation into linear unit	Smooth floor	Uneven floor (tiles, threshold ect.)	Driving activity
TG	Ø75	x	x		x	x	x							x	x		>
	Ø100	x	x	x	x	x		x				x			x		>
	Ø125			x	x			x				x			x		>>
TAPU	Ø100	x	x	x	x	x		x				x			x		>
	Ø125			x	x	x		x				x			x		>>
	Ø160			x	x	x			x				x		x		>>
EVGP	Ø100			x	x			x				x				x	>>
	Ø125			x	x				x				x			x	>>>
EVGA	Ø160			x	x				x	x			x			x	>>>>
TOPU	Ø125			x	x				x	x			x		x		>>>
	Ø200			x	x	x			x	x	x		x		x		>>>>
PA	Ø200			x	x				x		x		x		x		>>>>
EXPU	Ø160			x	x	x			x	x						x	>>>>

Overview of roles

Name		Image	Properties	Coating hardness:	Temperature resistance	Rolling resistance	Driving noise	Floor preserving
HVG	Wheels with high-quality solid rubber		• Made of high-quality solid rubber with plastic rim • Pressed-on tyres • High chemical resistance to many aggressive media, but not to oils • Ambient temperatures above +30°C reduce the load capacity • Colour: grey • Non-marking, non-contact colouring	80° Shore A	-20°C to +60°C	Good	Very good	Very good
TG	Wheels with thermoplastic rubber coating		• Made of highquality, thermoplastic rubber elastomer • High driving comfort, low-noise operation • Low castor und swivel • Floor protecting, without trace, positive lock, non-detachable connection with the wheel body of polypropylene • Silver grey colour • (variant electrically conductive „E" black in colour)	85° Shore A	–20° C to +60° C	Very good	Good	Good
TAPU	Wheels with thermoplastic PU tread		• Made of high-quality, thermoplastic polyurethane • Low-noise operation, floor protecting • Dark grey in colour • Low rolling und swivel resistance • Without trace, positive lock, non-detachable connection with the wheel body • Wheel body made of high-quality, tough polyamide 6, silver grey in colour	94° Shore A	–25° C to +70° C briefly to +90° C	Very good	Good	Good
EGVP	Wheels with elastic solid rubber tyres		• Made of high/quality elastic solid rubber • Low rolling resistance, smooth running quality • Black in colour • Vulcanised rubber tyres • Wheel body made of high-quality, tough polyamide	65° Shore A	–25° C to +80° C briefly to +100° C	Very good	Very good	Very good
EVGA	Wheels with elastic solid rubber tyres		• Made of high-quality elastic solid rubber • Low rolling resistance, smooth running quality • Black in colour • Tyre cured on wheel • body made of aluminium casting					
TOPU	Wheels with thermoplastic PU-tread		• Made of high-quality, thermoplastic polyurethane • Traceless, free of contact discoloration • Dark grey in colour • Wheel body made of highquality, tough polyamide 6, natural white in colour	94° Shore A	–25° C to +70° C briefly to +90° C	Very good	Good	Good
PA	Wheels with shockresistant Polyamide 6-tread		• Made of high-quality, break proof polyamide 6 • Medium heavy version • Very low rolling and swivel resistance • Easy running on smooth floors • Very abrasive resistant • Natural white in colour	70° Shore D	–25° C to +80° C	Excellent	Satisfactory	Satisfactory
EXPU	Wheels with polyurethane tread Besthane® Soft		• Made of high-quality, reaction cast polyurethane elastomer Blickle Besthane® • Low-noise operation, very low rolling resistance • Non damaging to floor, very resistant to abrasion • Resistant to cutting and tearing • Light brown in colour • Without marks, without contact colouring • Tyre cured on wheel body made of aluminium casting	92° Shore A	–25° C to +70° C briefly to +90° C	Very good	Good	Good

Castors with fixing plate

Feature of the TG castor:

- Wheel centre made of polypropylene
- Tread made of thermoplastic rubber
- Low rolling and swivelling resistance
- Trackless
- Colour of tread: grey/for ELF black

Typical application:

- Hand trolleys, shelving and structures with low loads that are moved occasionally

Coating	Load capacity 4 km/h | static	Wheel Ø	Design height	Panel [mm]	Bearing	ESD	Swivel castor		Swivel castor with brake/lock		Fixed castor	
TG	111 kg | 275 kg	100 mm	125 mm	100x85	Plain bearing		116560	AP-01-100-L-E-TG-G-O	116561	AP-01-100-LB-E-TG-G-O	116562	AP-01-100-B-E-TG-G-O
TG	70 kg | 175 kg					⚠	124092	AP-01-100-L-E-TG-G-E	117476	AP-01-100-LB-E-TG-G-E	131760	AP-01-100-B-E-TG-G-E
TG	125 kg | 315 kg	125 mm	150 mm	100x85			116563	AP-01-125-L-E-TG-G-O	116564	AP-01-125-LB-E-TG-G-O	116565	AP-01-125-B-E-TG-G-O
TG	80 kg | 200 kg					⚠	116863	AP-01-125-L-E-TG-G-E	116864	AP-01-125-LB-E-TG-G-E	116862	AP-01-125-B-E-TG-G-E

Characteristic of the TAPU castor:

- Wheel centre made of polyamide
- Tread made of thermoplastic polyurethane
- Gentle on the floor
- Low rolling and swivelling resistance
- Colour of tread: dark grey/for ELF black

Typical application:

- Hand trolleys, shelving and structures with medium loads that are moved occasionally

Coating	Load capacity 4 km/h | static	Wheel Ø	Design height	Panel [mm]	Bearing	ESD	Swivel castor		Swivel castor with brake/lock		Fixed castor	
TAPU	150 kg | 375 kg	100 mm	125 mm	100x85	Plain bearing		100599	AP-01-100-L-E-TAPU-G-O [1]	100598	AP-01-100-LB-E-TAPU-G-O	100615	AP-01-100-B-E-TAPU-G-O
TAPU	150 kg | 375 kg				Ball bearing		116617	AP-01-100-L-E-TAPU-K-O [1]	116618	AP-01-100-LB-E-TAPU-K-O	116619	AP-01-100-B-E-TAPU-K-O
	130 kg | 325 kg					⚠	*110249*	*AP-01-100-L-E-TAPU-K-E* [1]	*100619*	*AP-01-100-LB-E-TAPU-K-E*	*109986*	*AP-01-100-B-E-TAPU-K-E*
TAPU	150 kg | 375 kg	125 mm	150 mm	100x85	Plain bearing		100609	AP-01-125-L-E-TAPU-G-O [1]	100610	AP-01-125-LB-E-TAPU-G-O	100611	AP-01-125-B-E-TAPU-G-O
TAPU	150 kg | 375 kg	125 mm	150 mm	100x85	Ball bearing		100597	AP-01-125-L-E-TAPU-K-O [1]	100596	AP-01-125-LB-E-TAPU-K-O	100633	AP-01-125-B-E-TAPU-K-O
						⚠	100620	AP-01-125-L-E-TAPU-K-E [1]	100621	AP-01-125-LB-E-TAPU-K-E	100634	AP-01-125-B-E-TAPU-K-E
TAPU	300 kg | 750 kg	160 mm	195 mm	140x110	Plain bearing		402528	AP-03-160-L-E-TAPU-G-O [2]	402529	AP-03-160-LB-E-TAPU-G-O	100618	AP-03-160-B-E-TAPU-G-O
TAPU	300 kg | 750 kg	160 mm	195 mm	140x110	Ball bearing		116438	AP-03-160-L-E-TAPU-K-O [2]	116439	AP-03-160-LB-E-TAPU-K-O	116437	AP-03-160-B-E-TAPU-K-O
	260 kg | 650 kg					⚠	116356	AP-03-160-L-E-TAPU-K-E [2]	116355	AP-03-160-LB-E-TAPU-K-E	116357	AP-03-160-B-E-TAPU-K-E

Characteristic of the EVGP castor:

- Wheel centre made of polyamide
- Tread made from vulcanised elastic solid rubber
- Low rolling resistance
- Smooth running quality
- Quiet running
- Tread colour: -SB = non-marking blue, -SG = non-marking grey, -O = black

Typical application:

- Typical standard castor for hand trucks, shelving and structures with medium loads that are moved frequently

Coating	Load capacity 4 km/h | static	Wheel Ø	Design height	Panel [mm]	Bearing	Swivel castor		Swivel castor with brake/lock		Fixed castor	
EVGP	150 kg | 375 kg	100 mm	125 mm	100x85	Castor bearing	*120329*	*AP-01-100-L-E-EVGP-R-SB*	*120330*	*AP-01-100-LB-E-EVGP-R-SB*	*120331*	*AP-01-100-B-E-EVGP-R-SB*
						125855	AP-01-100-L-E-EVGP-R-SG [1]	125856	AP-01-100-LB-E-EVGP-R-SG	125857	AP-01-100-B-E-EVGP-R-SG
EVGP	250 kg | 625 kg	125 mm	150 mm	100x85		120844	AP-01-125-L-M-EVGP-R-SB [1]	120845	AP-01-125-LB-E-EVGP-R-SB	120843	AP-01-125-B-M-EVGP-R-SB
					Ball bearing	114996	AP-01-125-L-M-EVGP-K-SG [1]	114997	AP-01-125-LB-M-EVGP-K-SG	114995	AP-01-125-B-M-EVGP-K-SG
EVGA	400 kg | 1000 kg	160 mm	195 mm	140x110		116608	AP-03-160-L-M-EVGP-K-O [2]	116609	AP-03-160-LB-M-EVGP-K-O	116610	AP-03-160-B-M-EVGP-K-O

Note on directional lock: With a directional lock to be fitted separately, most swivel castors with mounting plate (without brake) can also be used as fixed castors by actuating the directional lock. The fixing screw may need to be 5mm longer.

[1]) Directional locking device RI-03.01 (114972) | [2]) Directional locking device RI-03.03 (114138) | [3]) Directional locking device RI-05.01 (115211) | [4]) Directional locking device RI-05.03 (113092)

Castors with fixing plate

Characteristic of the TOPU castor:

- Wheel centre made of polyamide
- Tread made of thermoplastic polyurethane
- Non-marking and contact discolouration-free
- Colour of tread: dark grey

Typical application:

- For trolleys and trailers with high loads

Coating	Load capacity 4 km/h | static	Wheel Ø	Design height	Panel [mm]	Bearing	Swivel castor		Swivel castor with brake/lock		Fixed castor	
TOPU	350 kg | 875 kg	125 mm	155 mm	100x85	Plain bearing	100589	AP-01-125-L-K-TOPU-G-O [3]	100592	AP-01-125-LB-K-TOPU-G-O	100595	AP-01-125-B-K-TOPU-G-O

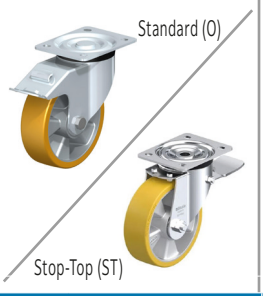
Characteristic of the PA castor:

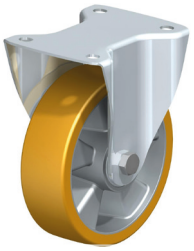
- Wheel centre and tread made of unbreakable polyamide throughout
- very low rolling and swivelling resistance
- very abrasion resistant
- Colour of tread: natural white

Typical application:

- For trolleys and trolleys that are pushed into a tugger train trolley and lifted for travelling

Coating	Load capacity 4 km/h | static	Wheel Ø	Design height	Panel [mm]	Bearing	Swivel castor		Swivel castor with brake/lock		Fixed castor	
PA	400 kg | 1000 kg	200 mm	235 mm	140x110	Ball bearing	116660	AP-03-200-L-M-PA-K-O [4]	116661	AP-03-200-LB-M-PA-K-O	116662	AP-03-200-B-M-PA-K-O





Characteristic of the EXPU castor:

- Wheel centre made of aluminium
- Tread made of high-quality polyurethane elastomer
- Non-marking and contact discolouration-free
- Quiet running
- Low rolling resistance
- Gentle on the floor
- Very abrasion-resistant
- Colour of tread: light brown

Typical application:

- Use for tugger train trailers with very high loads

Coating	Load capacity 4 km/h | static	Wheel Ø	Design height	Panel [mm]	Bearing	Swivel castor		Swivel castor with brake/lock		Fixed castor	
EXPU	400 kg | 1000 kg	160 mm	195 mm	140x110		100654	AP-03-160-L-M-EXPU-K-O	100655	AP-03-160-LB-M-EXPU-K-O	100656	AP-03-160-B-M-EXPU-K-O
EXPU	400 kg | 1000 kg	160 mm	195 mm	140x110	Ball bearing			NEW 608256	AP-03-160-LB-M-EXPU-K-ST [4]		
EXPU	750 kg | 1875 kg	160 mm	202 mm	140x110		115473	AP-03-160-L-H-EXPU-K-O	115474	AP-03-160-LB-H-EXPU-K-O	115475	AP-03-160-B-H-EXPU-K-O

Application example directional locking device

-O (without special version)

Possible special versions:

-RI (Directional lock possible only for swivel castor without brake/lock), -FS (Foot protection available upon request), -E (electrically conductive version), -SG (grey without trace), -SB (blue without trace)

Note on directional lock: With a directional lock to be fitted separately, most swivel castors with mounting plate (without brake) can also be used as fixed castors by actuating the directional lock. The fixing screw may need to be 5mm longer.

[1]) Directional locking device RI-03.01 (114972) | [2]) Directional locking device RI-03.03 (114138) | [3]) Directional locking device RI-05.01 (115211) | [4]) Directional locking device RI-05.03 (113092)

Castors with mounting plate especially for mounting on aluminium square profiles

Characteristic of the TG castor:

- Wheel centre made of polyamide
- Tread made of thermoplastic rubber
- Low rolling and swivelling resistance
- Trackless
- Colour of tread: grey / black with ELF

Typical application:

- Hand trolleys, shelving and structures with aluminium square profiles with 40x40mm and 45x45mm spacing for medium loads.

Coating	Load capacity 4 km/h | static	Wheel Ø	Design height	Panel [mm]	Bearing	ESD	Swivel castor		Swivel castor with brake/lock		Fixed castor	
TG	100 kg | 250 kg	80 mm	111 mm	120x40	Ball bearing				604566	AP-40-80-LB-M-TG-K-O	604572	AP-40-80-B-K-TG-K-O
TG	65 kg | 165 kg					⚠			604569	AP-40-80-LB-M-TG-K-E	NEW 618092	AP-40-80-B-K-TG-K-E
TG	110 kg | 275 kg	100 mm	136 mm	120x40	Ball bearing				604567	AP-40-100-LB-M-TG-K-O	604574	AP-40-100-B-K-TG-K-O
TG	70 kg | 175 kg					⚠			604570	AP-40-100-LB-M-TG-K-E	NEW 618093	AP-40-100-B-K-TG-K-E
TG	120 kg | 300 kg	125 mm	161 mm	120x40	Ball bearing				604568	AP-40-125-LB-M-TG-K-O	604575	AP-40-125-B-K-TG-K-O
TG	80 kg | 200 kg					⚠			604571	AP-40-125-LB-M-TG-K-E	NEW 618094	AP-40-125-B-K-TG-K-E

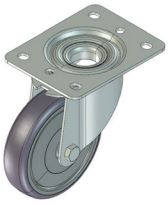
Castors with 6-hole mounting plate especially for the Y-system

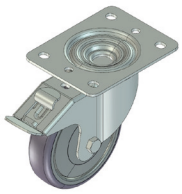
Characteristics of the castors:

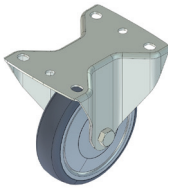
- Screw-on plate with 6 hole pattern
- Mounting with CM-100 or CM-200 variants possible
- Mounting also possible with all other wheel mounting components
- Different types of tyre

Typical application:

- Hand trolleys, shelving and structures with medium loads that are moved occasionally.







Coating	Load capacity 4 km/h | static	Wheel Ø	Design height	Panel [mm]	Bearing	Swivel castor		Swivel castor with brake/lock		Fixed castor	
TAPU	250 kg | 625 kg	125 mm	155 mm	140x110	Ball bearing	604775	AP-33-125-L-K-TAPU-K-O	604778	AP-33-125-LB-K-TAPU-K-O	604780	AP-33-125-B-K-TAPU-K-O
EVGP						605472	AP-33-125-L-K-EVGP-K-O	605474	AP-33-125-LB-K-EVGP-K-O	605475	AP-33-125-B-K-EVGP-K-O

-O (without special version)

Possible special versions:

-RI (Directional lock possible only for swivel castor without brake/lock), -FS (Foot protection available upon request), -E (electrically conductive version), -SG (grey without trace), -SB (blue without trace)

Castors with thread pin

Characteristic of the TG castor:

- Wheel centre made of polypropylene
- Tread made of thermoplastic rubber
- Low rolling and swivelling resistance
- Trackless
- Colour of tread: grey/for ELF black

Typical application:

- Hand trolleys, shelving and structures with low loads that are moved occasionally
- Only suitable to a limited extent for „step and sleeper crossings"

Coating	Load capacity 4 km/h | static	Wheel Ø	Design height	Threaded pin	Bearing	ESD	Swivel castor		Swivel castor with brake/lock	
TG	75 kg | 190 kg	75 mm	98 mm	M10x30	Plain bearing		*100637*	*AG-10-75-L-A-TG-G-O*	*100638*	*AG-10-75-LB-A-TG-G-O*
	50 kg | 125 kg					⚠	*100641*	*AG-10-75-L-A-TG-G-E*	*100642*	*AG-10-75-LB-A-TG-G-E*
TG	75 kg | 190 kg	75 mm	98 mm	M10x30	Ball bearing		110216	AG-10-75-L-A-TG-K-O	110218	AG-10-75-LB-A-TG-K-O
	50 kg | 125 kg					⚠	122783	AG-10-75-L-A-TG-K-E	122784	AG-10-75-LB-A-TG-K-E
TG	70 kg | 175 kg	100 mm	121 mm	M10x30	Plain bearing		*109773*	*AG-10-100-L-A-TG-G-O*	*109774*	*AG-10-100-LB-A-TG-G-O*
	60 kg | 150 kg					⚠	*124279*	*AG-10-100-L-A-TG-G-E*	*124270*	*AG-10-100-LB-A-TG-G-E*
TG	110 kg | 275 kg	100 mm	133 mm	M12x30			116511	AG-12-100-L-A-TG-G-O	116512	AG-12-100-LB-A-TG-G-O
TG	110 kg | 275 kg	100 mm	133 mm	M12x30	Ball bearing		116513	AG-12-100-L-A-TG-K-O	116514	AG-12-100-LB-A-TG-K-O
	70 kg | 175 kg					⚠	117029	AG-12-100-L-A-TG-K-E	117028	AG-12-100-LB-A-TG-K-E
TG	120 kg | 300 kg	125 mm	158 mm	M12x30	Plain bearing		116515	AG-12-125-L-A-TG-G-O	116516	AG-12-125-LB-A-TG-G-O
	80 kg | 200 kg					⚠	117349	AG-12-125-L-A-TG-G-E	117348	AG-12-125-LB-A-TG-K-E
TG	120 kg | 300 kg	125 mm	158 mm	M12x30	Ball bearing		118389	AG-12-125-L-A-TG-K-O	117733	AG-12-125-LB-A-TG-K-O
	80 kg | 200 kg					⚠	125075	AG-12-125-L-A-TG-K-E	120492	AG-12-125-LB-A-TG-K-E

Characteristic of the TAPU castor:

- Wheel centre made of polyamide
- Tread made of thermoplastic polyurethane
- Gentle on the floor
- Low rolling and swivelling resistance
- Colour of tread: dark grey/for ELF black

Typical application:

- Hand trolleys, shelving and structures with medium loads that are moved occasionally
- Only suitable to a limited extent for „step and sleeper crossings

Coating	Load capacity 4 km/h | static	Wheel Ø	Design height	Threaded pin	Bearing	ESD	Swivel castor		Swivel castor with brake/lock	
TAPU	120 kg | 300 kg	100 mm	133 mm	M12x30	Plain bearing		116521	AG-12-100-L-A-TAPU-G-O	116522	AG-12-100-LB-A-TAPU-G-O
					Ball bearing		116519	AG-12-100-L-A-TAPU-K-O	116520	AG-12-100-LB-A-TAPU-K-O
TAPU	70 kg | 175 kg	100 mm	133 mm	M12x30	Ball bearing	⚠	116955	AG-12-100-L-A-TAPU-K-E	116956	AG-12-100-LB-A-TAPU-K-E
	120 kg | 300 kg	125 mm	158 mm	M12x30	Plain bearing		116525	AG-12-125-L-A-TAPU-G-O	116526	AG-12-125-LB-A-TAPU-G-O
TAPU	80 kg | 200 kg	125 mm	158 mm	M12x30	Plain bearing		117349	AG-12-125-L-A-TAPU-G-E	117348	AG-12-125-LB-A-TAPU-G-E
TAPU	120 kg | 300 kg	125 mm	158 mm	M12x30	Ball bearing	⚠	116523	AG-12-125-L-A-TAPU-K-O	116524	AG-12-125-LB-A-TAPU-K-O
TAPU	80 kg | 200 kg	125 mm	158 mm	M12x30	Ball bearing		125075	AG-12-125-L-A-TAPU-K-E	120492	AG-12-125-LB-A-TAPU-K-E

-O (without special version)

Possible special versions:

-RI (Directional lock possible only for swivel castor without brake/lock), -FS (Foot protection available upon request), -E (electrically conductive version), -SG (grey without trace), -SB (blue without trace)

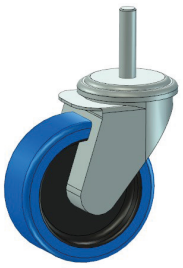
Castors with threaded pin

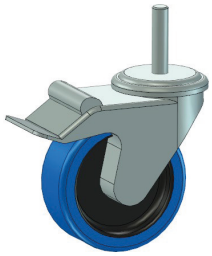
Characteristic of the EVGP castor:

- Wheel centre made of polyamide
- Tread made from vulcanised elastic solid rubber
- Low rolling resistance
- Smooth running quality
- Quiet running
- Tread colour: -SB = non-marking blue, -SG = non-marking grey, -O = black

Typical application:

- Typical standard castor for hand trucks, shelving and structures with medium loads that are moved frequently.





Coating	Load capacity 3 km/h | static	Wheel Ø	Design height	Threaded pin	Bearing	Swivel castor		Swivel castor with brake/lock	
EVGP	150 kg | 375 kg	100 mm	125 mm	M12	Castor bearing	120572*	AG-12-100-L-E-EVGP-R-SB*	120573[2]	AG-12-100-LB-E-EVGP-R-SB*

* Pre-assembled screw in the back hole

-O (without special version)

Possible special versions:

-RI (Directional lock possible only for swivel castor without brake/lock), -FS (Foot protection available upon request), -E (electrically conductive version), -SG (grey without trace), -SB (blue without trace)

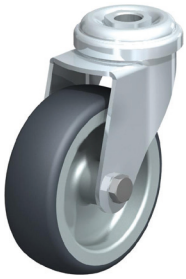
Castor with bolt hole

Characteristic of the TG castor:

- Wheel centre made of polypropylene
- Tread made of thermoplastic rubber
- Low rolling and swivelling resistance
- Trackless
- Colour of tread: grey/for ELF black

Typical application:

- Hand trolleys, shelving and structures with low loads that are moved occasionally
- Only suitable to a limited extent for „step and sleeper crossings



Coating	Load capacity 3 km/h | static	Wheel Ø	Design height	Bold hole [mm]	Bearing	ESD	Swivel castor		Swivel castor with brake/lock		Fixed castor	
TG	75 kg | 190 kg	75 mm	98 mm	11 mm	Plain bearing		100577	AR-11-75-L-A-TG-G-O [1]	100582	AR-11-75-LB-A-TG-G-O [1]	100640	AR-11-75-B-A-TG-G-O [3]
	50 kg | 125 kg					⚠	100579	AR-11-75-L-A-TG-G-E [1]	100584	AR-11-75-LB-A-TG-G-E [1]	110245	AR-11-75-B-A-TG-G-E [3]
TG	60 kg | 150 kg	100 mm	121 mm	11 mm	Plain bearing		116529	AR-11-100-L-A-TG-G-O [2]	100585	AR-11-100-LB-E-TG-G-O [1]		
	110 kg | 275 kg		133 mm			⚠	100581	AR-11-100-L-A-TG-G-E [1]	100586	AR-11-100-LB-A-TG-G-E [1]		

For fastening see footnote

Characteristic of the TG castor as a double castor:

- Wheel centre made of polyamide
- Tread made of thermoplastic rubber with low rolling resistance
- Very low swivelling resistance
- Trackless
- Colour of tread: grey/dark grey with ELF

Typical application:

- Handcarts and structures with height adjustment, which can be swivelled easily and have a stable stand thanks to the double wheel.
- Only suitable to a limited extent for crossing steps and thresholds

Coating	Load capacity 3 km/h | static	Wheel Ø	Design height	Bold hole [mm]	Bearing	ESD	Swivel castor		Swivel castor with brake/lock		Fixed castor	
TG	100 kg | 250 kg	75 mm	98 mm	10,2 mm	Ball bearing	⚠			401643	AR-11-75-LB-W-TG-K-E-DR		

For fastening see footnote

Characteristic of the TAPU castor:

- Wheel centre made of polyamide
- Tread made of thermoplastic polyurethane
- Gentle on the floor
- Low rolling and swivelling resistance
- Colour of tread: dark grey/for ELF black

Typical application:

- Hand trolleys, shelving and structures with medium loads that are moved occasionally
- Only suitable to a limited extent for „step and sleeper crossings"

Coating	Load capacity 3 km/h | static	Wheel Ø	Design height	Bold hole [mm]	Bearing	ESD	Swivel castor		Swivel castor with brake/lock		Fixed castor	
TAPU	120 kg | 300 kg	100 mm	133 mm	13 mm	Plain bearing		100575	AR-13-100-L-A-TAPU-G-O [2]	100576	AR-13-100-LB-A-TAPU-G-O [2]		
TAPU					Ball bearing	⚠	117842	AR-11-100-L-A-TAPU-K-E [2]	117073	AR-11-100-LB-A-TAPU-K-E [2]		

For fastening see footnote

-O (without special version)

Possible special versions:

-RI (Directional lock possible only for swivel castor without brake/lock), -FS (Foot protection available upon request), -E (electrically conductive version), -SG (grey without trace), -SB (blue without trace)

The bolt hole castors are fastened with different screws depending on the hole diameter.
The AR-11-.... castor has a hole diameter of 11 mm and is screwed into the corresponding M10 impact bush with an M10 screw (ref.: SI1030, art. no.: 100248).
The AR-13-.... castor has a hole diameter of 13mm and is screwed into the corresponding M12 impact bush with an M12 screw (Ref.: SI1230, Art. No.:110171).

E02

E03

[1]) Aluminium expander possible, 20-25 mm, all DP pipes = E02 (115023), aluminium expander possible, 25-30 mm, all SUS/ECCO pipes = E03 (114916) | [2]) Aluminium expander possible, 20-25 mm, all DP pipes = E12 (114296), aluminium expander possible, 25-30 mm, all SUS/ECCO pipes = E13 (115024) | [3]) for use with MC-RJB (118494)

Castors with back hole

Characteristic of the PA castor:

- Wheel centre and tread made of unbreakable polyamide throughout
- very low rolling and swivelling resistance
- very abrasion resistant
- Colour of tread: black

Typical application:

- For trolleys, especially for the corner attachment 603976 ACEA-G28A"

Coating	Load capacity 3 km/h | static	Wheel Ø	Design height	Bold hole [mm]	Bearing	Swivel castor		Swivel castor with brake/lock	
PA	120 kg | 300 kg	80 mm	108 mm	13 mm	Plain bearing	605056	AR-13-80-L-M-PAS-G-0		

For fastening see footnote

Characteristic of the EVGP castor:

- Wheel centre made of polyamide
- Tread made from vulcanised elastic solid rubber
- Low rolling resistance
- Smooth running quality
- Quiet running
- Tread colour: -SB = non-marking blue, -SG = non-marking grey, -O = black

Typical application:

- Typical standard castor for hand trucks, shelving and structures with medium loads that are moved frequently.

Coating	Load capacity 3 km/h | static	Wheel Ø	Design height	Bold hole [mm]	Bearing	Swivel castor		Swivel castor with brake/lock	
EVGP	150 kg | 375 kg	100 mm	125 mm	13 mm	Castor bearing	NEW 403524	AR-13-100-L-K-EVGP-R-SB	NEW 614254	AR-13-100-LB-K-E-EVGP-R-SB

For fastening see footnote

For Y-application

Feature of the HVG castor:

- Wheel centre made of unbreakable polyamide
- Tread made of solid rubber
- Trackless
- Quiet running
- Colour of tread: grey

Typical application:

- For buildings with low loads, where running comfort is the priority

Coating	Load capacity 3 km/h | static	Wheel Ø	Design height	Bold hole [mm]	Bearing	Swivel castor		Swivel castor with brake/lock	
HVG	60 kg | 150 kg	75 mm	98 mm	11 mm	Plain bearing	604766	AR-11-75-L-E-HVG-G-0	604767	AR-11-75-LB-E-HVG-G-0

For fastening see footnote

The bolt hole castors are fastened with different screws depending on the hole diameter.
The AR-11-.... castor has a hole diameter of 11 mm and is screwed into the corresponding M10 impact bush with an M10 screw (ref.: SI1030, art. no.: 100248).
The AR-13-.... castor has a hole diameter of 13mm and is screwed into the corresponding M12 impact bush with an M12 screw (Ref.: SI1230, Art. No.:110171).

Low cost castors

Castors with mounting panel

Loading capacity	Wheel Ø	Design height	Tread	Panel [mm]	Bearing	Swivel castor		Swivel castor with brake/lock		Fixed castor	
100 kg	76 mm	104 mm	PU	95x64	Ball bearing	100138	P503S-2	100139	P503S-2B	100140	P503R-2
105 kg	100 mm	129 mm	PU	95x64		100141	P504S-2	100142	P504S-2B	100143	P504R-2
220 kg	100 mm	136 mm	PU	114x102	Castor bearing	100144	P624S-2	100145	P624S-2B	100146	P624R-2
250 kg	125 mm	161 mm	PU	114x102		100147	P625S-2	100148	P625S-2B	100149	P625R-2
	150 mm	191 mm	PU	114x102		100150	P626S-2	100151	P626S-2B	100152	P626R-2

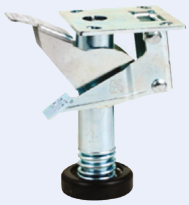
Castors with threaded end

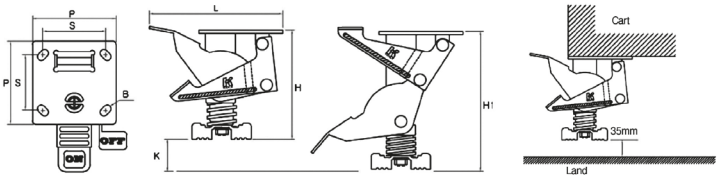
Loading capacity	Wheel Ø	Design height	Tread	Thread	Bearing	ESD	Swivel castor		Swivel castor with brake/lock		Mounting type
40 kg	50 mm	68 mm	VG	1/2"x12N	Plain bearing		100134	T322S-1	100135	T322S-1B	Threaded end
45 kg	75 mm	95 mm	VG	1/2"x12N			100136	T363S-1	100137	T363S-1B	
						⚠	100156	T363S-E	100155	T363S-EB	

Castors with expander

Loading capacity	Wheel Ø	Design height	Tread	Diameter	Bearing	ESD	Swivel castor		Swivel castor with brake/lock		Mounting type
35 kg	50 mm	72 mm	VG	Ø21-24,5 mm	Plain bearing	⚠	118834	FC302S-E	118836	FC302S-EB	Expander

Lock for securing a trolley





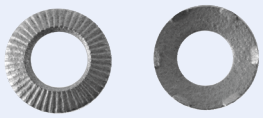
Ground lock		Height	K	H1	Length	P	S	B	Wheel height
117049	KH-200-4	103 mm	27 mm	130-145 mm	150 mm	97x88mm	70x60mm	10 mm	125~140 mm

Knotted chain

- Thickness: 2.5 mm
- Material: galvanised steel
- can be used as an ELF discharge chain if wheels without ELF are under construction
- At least 3 chain links must be in contact with the ground.

Art.-No.	Length
618080	250 mm
618081	350 mm
127898	30000 mm

Contact disc



HA200262

- 1 piece
- Suitable for M6 screw thread
- interlocked
- Ø inside: 6.1 mm
- Ø outside: 12 mm
- Thickness: 1.2 mm
- Material: galvanised steel

Mounting set for Ø28 mm

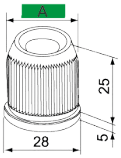
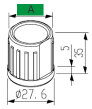
- can be used as an ELF discharge chain if wheels without ELF are under construction
- At least 3 chain links must be in contact with the ground.

Set Art.-No.	Chain length
618082	250 mm
618083	350 mm

The set consists of following parts:

- 1 x Knotted chain
- 1 x GA-15S WZ
- 1 x M0615 WZ
- 1 x MS06
- 2 x Contact disc M6

Drive-in sleeves

Art. No.	Name	Pipe	Ø Pipe	inner Ø Pipe	Thread	Material	Ø drive-in sleeve (A)	
402672	BS20A	D-coat pipe	28 x 0,7 mm	24,0 mm	1/2"-12N	Steel	Ø24,1 mm	
402673	BS20B				M12 x 1,75			
402745	BS20D				M10 x 1,5			
609451	BC2809A		28 x 0,9 mm	23,6 mm	1/2"-12N		Ø23,7 mm	
609452	BC2809B				M12 x 1,75			
609453	BC2809D				M10 x 1,5			
100101	BC2810A*		28 x 1,0 mm	23,4 mm	1/2"-12N		Ø23,5 mm	
100102	BC2810B*				M12 x 1,75			
100114	BC2810D*				M10 x 1,5			
100107	BC2820A		28 x 2,0 mm	21,8 mm	1/2"-12N		Ø21,9 mm	
100108	BC2820B				M12 x 1,75			
101664	BC2820D				M10 x 1,5			
100109	BS07A	ECCO-Star pipe | SUS pipe	28 x 0,7 mm	26,1 mm	1/2"-12N		Ø26,8 mm	
100110	BS07B				M12 x 1,75			
109723	BS07D				M10 x 1,5		Ø26,3 mm	
126382	BS10A	ECCO-Star pipe	28 x 0,9 mm	25,7 mm	1/2"-12N		Ø26,1 mm	
402271	BS10B				M12 x 1,75			
402744	BS10D				M10 x 1,5			
100111	BS12A	ECCO-Star pipe | SUS pipe	28 x 1,2 mm	25,1 mm	1/2"-12N		Ø25,5 mm	
100112	BS12B				M12 x 1,75			
100113	BS12D				M10 x 1,5		Ø25,3 mm	
402672	BS20A	ECCO-Star pipe	28 x 2,0 mm	23,9 mm	1/2"-12N		Ø24,1 mm	
402673	BS20B				M12 x 1,75			
402745	BS20D				M10 x 1,5			
126211	AS2807A	ECCO-Star pipe | SUS pipe	28 x 0,7 mm	26,1 mm	1/2"-12N	Aluminium	Ø26,5 mm	
126212	AS2807B				M12 x 1,75			
126213	AC2809A	D-coat pipe	28 x 0,9 mm	23,4 mm	1/2"-12N		Ø23,8 mm	
126214	AC2809B				M12 x 1,75			
117714	BA2800A	Aluminium profile pipe	28 mm	20,3 mm	1/2"-12N	Aluminium	20,4 mm	
117715	BA2800B				M12 x 1,75			
402039	BA280LA				1/2"-12N	Steel	20,5 mm	
402040	BA280LB				M12 x 1,75			
402041	BA280LD				M10			

*Suitable also for aluminium pipe AL2820

For detailed information, please see the section „ Drive-in sleeves" in the category „ Joints made of steel or aluminium".

SPACE FOR NOTES

SPACE FOR NOTES

SPACE FOR NOTES

Panels

Own furniture production with state-of-the-art machine park

At its headquarters in Pfullingen, large rooms with state-of-the-art machinery provide the setting for developing and producing the furniture and assembly systems.

We offer you a **large variety of panel types** with **different panel strengths** for various applications.

Wood panels

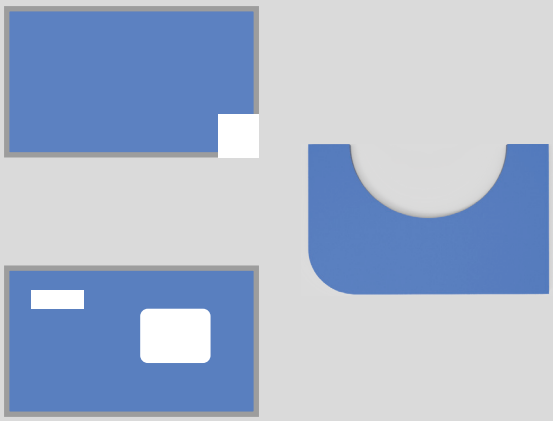
Plastic panels

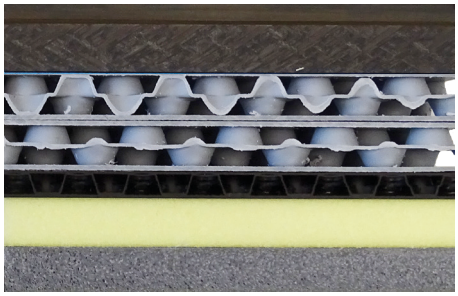
Metal alternatives

Meticulous craftsmanship, premium materials and intelligent detailed solutions guarantee quality down to the last detail. We supply **panels cut** to your **requirements** (please state measurements in 10mm increments) and **cut** and **processed panels**.

We offer four types of cut panels with different processing levels:

- Raw material only
- Cut panels without edges
- Cut panels with edges
- Additional processing, e.g. with cut-out in the corner, free shapes or pockets





PANELS

Panels

Twin-wall panels 241
Structure-core panel 241
Plastic panels 242
BEESave 243
Wooden panels 245

Particularities of BeeWaTec

- No series production – thus flexible
- Possibility to order lower quantities
- Very great diversity of electrically conductive materials (ESD versions)
- No minimum purchase quantity
- Different panel tickness and sizes

-	Very low
+	Low
++	Average good
+++	High
++++	Particularly high
+++++	Above average

X	Yes
	No
€	Very cheap
€€	Cheap
€€€	Medium-price
€€€€	High-price

Portfolio of panels

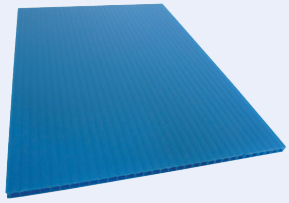
Material	Panel	Name	Available thickness	Colour	Weight load/ carrying capacits*	Surface property: Mechanical strength	Surface property: Slippage	Wood-free	Moisture resistance	Electrical conductivity	Typical purpose	Price
Wood	ME-Panel	Chipboard with melamineresin direct coating	8 mm 13 mm 19 mm 25 mm	Light grey	++	+	++				Shelf Working surface Body construction	€
	ME-Panel ESD	Chipboard with melamineresin direct coating, electrically conductive	19 mm	Light grey	++	+	++			X	Shelf Working surface Body construction	€€
	RS-Panel	Chipboard with HPL laminate	26,6 mm	Light grey	++	++	++				Working surface	€€
	SC-Panel	Chipboard with HPL laminate, electrically conductive	26,6 mm	Light grey	++	++	++			X	Working surface	€€€
	MP-Panel	Beech multiplex panel	25 mm 40 mm	Raw oiled	+++	+++	+				Working surface Workpiece carrier	€/€€
	MP-Panel	Birch multiplex panel with Egger laminate	18,2 mm	White silk matt	+++	++	++				Working surface Workpiece carrier	€€
	SD-Panel	Screen printing plate	12 mm 18 mm	Dark brown	++++	++++	++/+ on the side		X		Working surface Shelf	€/€€
	MDF-Panel	Medium density fibreboard	10 mm 16 mm	Brown/raw black	++	++	+				Body construction Shelf Cladding	€
	ME with NB	Chipboard with pimpled rubber	23 mm 29 mm	Grey	++	++++	-				Working surface Shelf	€€€
	ME with ES	Chipboard with stainless steel shell PE500	28 mm	Stainless steel	++++	+++++	+++		X		Working surface	€€€€
Plastic	SKP-Panel	Structured-core panels	5,6 mm 9,6 mm 10,6 mm	Grey Black	+	+	+++	X	X	X	Cladding Shelf	€
	PE 500	Reclaimed rubber panel	10 mm 20 mm	Black Confetti	+	++++	+++	X	X	-	Shelf Transport protection	€€
	HPL-Panel	Duropal compact panel	8 mm 13 mm	Light Grey	+++++	+++	++	X	X	X	Working surface Cladding Shelf	€€€
	BEESave	BEESave	3 mm 5 mm 7 mm 10 mm 15 mm 20 mm	Yellow	+	++++	+++++	X	X		Transport protection Workpiece carrier	€€
Metal		Spot weld grids			+++	+++++	-	X	X	X	Shelf Cladding	€€

For cladding and partition walls use the twin-wall panel

Twin-wall panels

- Very low own weight
- Insulating
- Smooth surface
- Rot-proof and moisture-resistant
- Easy to process and recyclable
- Made of robust and impact-resistant polyproylene
- Inexpensive solutions for simple partiions and claddings

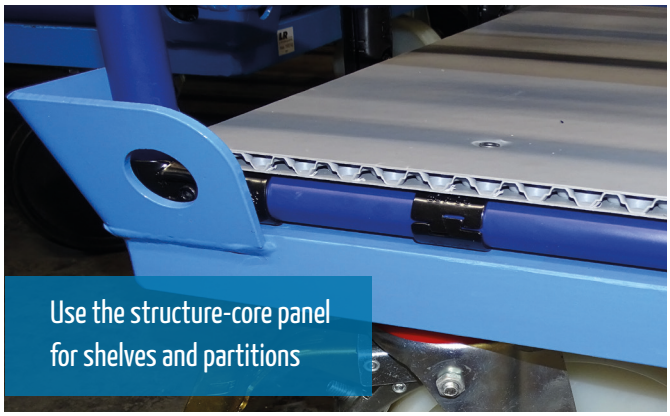
HKP 5 mm



Blue: 121111

- Dimensions (LxW): 2000 x 1250 mm

Thickness: 5 mm
Density: 1.000g/m²

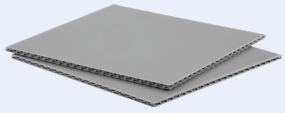


Use the structure-core panel for shelves and partitions

Structure-core panel

- Very low dead weight
- Available in various thicknesses and grammages
- Pressure and impact-resistant, insulating
- Smooth and even surface
- Rot-resistant and moisture-resistant
- Easy processing, can be recycled
- Made from robust and impact-restistant polypropylene
- Available in grey and black with electric conductance
- The electrically conductive version does not have any minimum purchasing requirements

SKP 5.4 mm



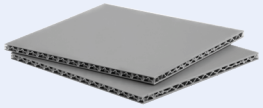
Grey: 402894
BK: 402892*

- Dimensions (LxW): 2500x2100mm
- Overview of the surface loading at 5.4 mm thickness:

Loads on a surface	Point load	Uniformly distributed load
500x500mm	Max. 1.30 kg	Max. 3.90 kg
750x750mm	Max. 0.88 kg	Max. 2.61 kg
1000x1000mm	Max. 0.60 kg	Max. 1.96 kg

Thickness: 5.4 mm
Density: 1.500g/m²

SKP 10.6 / 10.8 mm



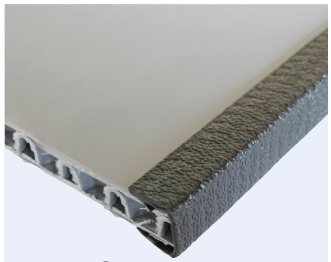
Grey: 402895
BK: 402893*

- Dimensions (LxW):: 2500x2100mm
- Overview of the surface loading at 10.8 mm thickness:

Loads on a surface	Point load	Uniformly distributed load
500x500mm	Max. 11.00 kg	Max. 32.94 kg
750x750mm	Max. 7.38 kg	Max. 21.96 kg
1000x1000mm	Max. 5.53 kg	Max. 16.57 kg

Art.-No.	Version	Thickness	Density
402895	Grey	10,8 mm	3.000g/m²
402893*	ESD	10,6 mm	2.500g/m²

KS0912 Edge protection for structure-core panels 5 mm/ 10 mm



PVC (5 mm): 113365
PVC (10 mm): 112659

- Black elastic PVC
- Please specify desired length (max. 100 m)

Clamping range (5 mm: 4-6 mm
Clamping range (10 mm): 9-12 mm

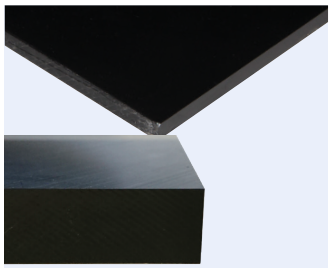
Construction with structure-core panels in grey

* Note: the panels labelled with the ESD symbol are not conductive.

Plastic panels

- Made from recyclable plastic
- Wood-free alternative
- Partially as an electrically conductive version
- Select between basic or special measurements
- Customer-specific panel cuts (please state measurements in 10mm increments) and cut panels with processing
- Can be ordered as raw material, panel cut only or further processing

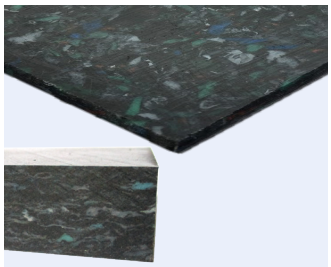
PE500RG... Panel PE 500 reclaimed rubber panel



- Substrate: Polyethylene (Plastic)
- Surface covering: Raw
- Covering: Raw
- Dimension (LxW): 2015 x 1020 mm
- Available thicknesses: 10 mm, 20 mm
- Colour: Black

10 mm: 112040*
20 mm: 130788*

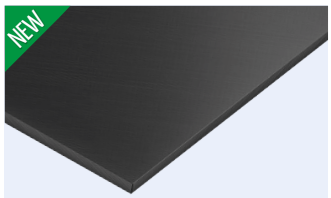
PE500RG... Panel PE 500 reclaimed rubber panel confetti



- Substrate: Polyethylene (Plastic)
- Surface covering: Raw
- Covering: Raw
- Dimension (LxW): 2050x1050mm
- Available thicknesses: 10 mm, 20 mm
- Colour: Confetti (may vary, no right to a specific colour)

10 mm: 130792*
20 mm: 130793*

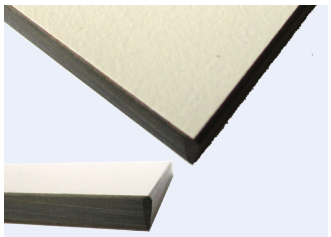
Polystone® MR AST antistatic



- Material: Polystone® MR AST with regenerated material, planed
- Panel dimensions (LxW): 3000 x 1250 mm
- Available thicknesses: 8 mm, 10 mm
- Colour: Black, similar to RAL9004
- **Antistatic** (volume resistivity DIN EN 62631-3-1 Ω * cm <10^9)

8 mm: 617869
10 mm: 617873

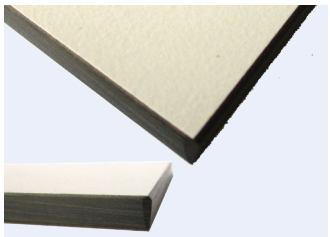
HPL... Panel



- Substrate: Duropal compact panel (Plastic)
- Surface covering: HPL laminate 0.8 mm
- Covering: Fine stone
- Colour: Light grey
- Dimension (LxW): 2800 x 2070 mm
- Available thicknesses: 8 mm, 13 mm

8 mm: 131189*
13 mm: 131180*

HPL... Panel



- Substrate: Duropal compact panel (Plastic)
- Surface covering: HPL laminate 0.8 mm, Electrostatic conductive (Leakage resistance DIN EN 61340-4-1 Ω 1x10^5 ≤ RA ≤ 1x10^9)
- Covering: Fine stone
- Colour: Light grey
- Dimension (LxW): 2520 x 1280 mm
- Available thicknesses: 8 mm

129391*

***Note:** The article number is for the raw plate. Please always specify the required cutting dimension of the panel cut (please state measurements in 10mm increments) when placing an order.

BEESave

BEESave to go

- Used as wood alternative
- Can be supplied in various strengths (3 mm to 30 mm)
- Can be ordered as raw material or cut panel (please state 10mm increments)
- Can be combined with the modular system
- Available in yellow
- Can also be used as construction material

Reasons for the protective material BEESave?

- BEESave has been used as a protective material for objects for more than 30 years to transport damage-free
- BEESave does not splinter and is very light
- Hard surface, easiliy machinable (such as sawing, punching, drill, mill, screw, glue ...)
- Smooth surface and foamed inside
- Waterproof and oil resistant
- Excellent shock and wear resistance, corrosion resistance, washability (reduced maintenance costs)
- 100 % recyclable

Thickness in mm	Art.-No.	Name BEESave (YELLOW)
3 mm	**401595**	BEESave HW 2100x1000x3mm YE
5 mm	**401596**	BEESave HW 2100x1000x5mm YE
10 mm	**401598**	BEESave HW 2100x1000x10mm YE
15 mm	**401599**	BEESave HW 2100x1000x15mm YE
20 mm	**401600**	BEESave HW 2100x800x20mm YE

Identification key and data sheet

Example:	**BEESave**	**HW**	**2100**	**1000**	**3**	**YE**
	Name	Degree of processing	Length	Width	Thickness (in mm)	Colour

Technical values and further information upon request.

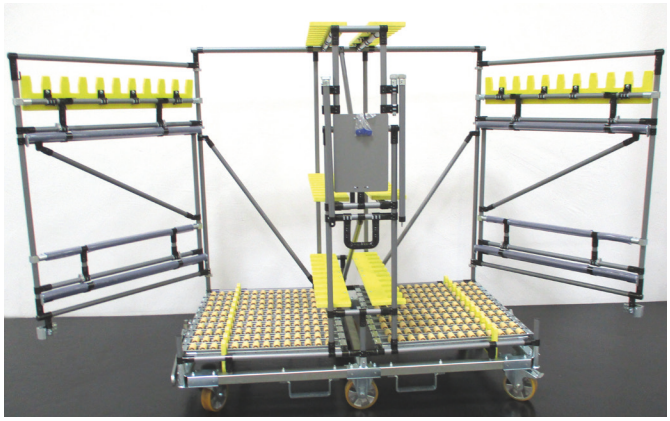
You would like a solution that is individually tailored to you?
We will be pleased to submit you an individual offer.

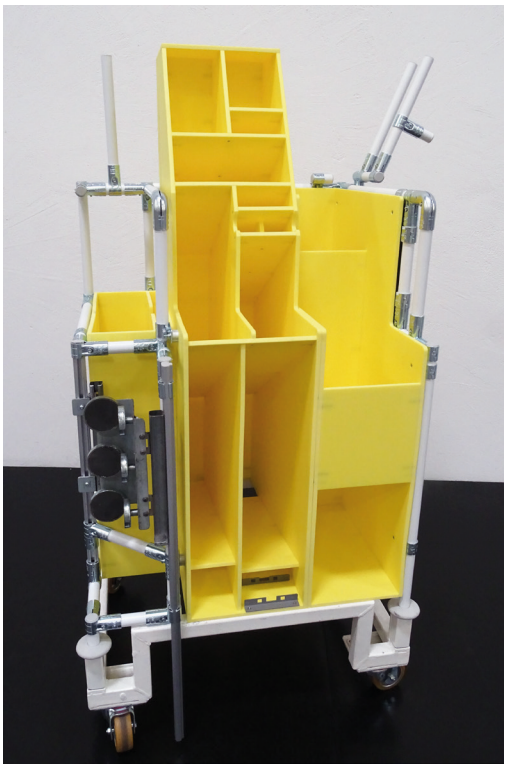
Data sheet BEESave (YELLOW)

Thickness	Dimension [LxW]	Resistance	Flexural Strength [N/mm²]		Flexural Modulus [N/mm²]	
			Machine direction	Transverse direction	Machine direction	Transverse direction
3 mm	2100x1000mm	Water & Oil	13,1 N/mm²	12,1 N/mm²	820 N/mm²	780 N/mm²
5 mm			15,1 N/mm²	15,0 N/mm²	740 N/mm²	740 N/mm²
10 mm			16,6 N/mm²	19,0 N/mm²	620 N/mm²	650 N/mm²
15 mm			13,0 N/mm²	15,8 N/mm²	600 N/mm²	650 N/mm²
20 mm	2100x800mm		11,4 N/mm²	17,3 N/mm²	570 N/mm²	630 N/mm²

***Note:** The article number is for the raw plate. Please always specify the required cutting dimension of the panel cut (please state measurements in 10mm increments) when placing an order.

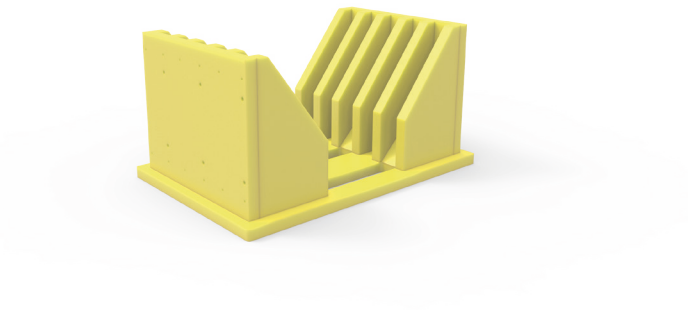
Application examples of BEESave



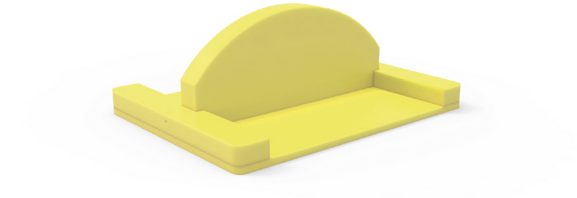


Safe transport of the following examples...

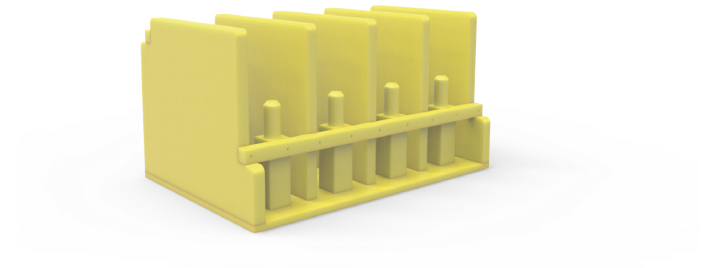
...brake discs,



...brake shoes.



Storage containers adapted to individual requirements for parts of any kind.



Request sample BEESave

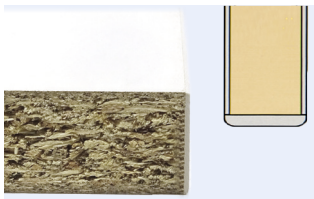
Wood panels

- Panels made from various types of wood
- Partially as an electrically conductive version; these are volume conductive
- Select between basic or special measurements
- Customer-specific panel cuts (please state measurements in 10mm increments) and cut panels with processing
- With suitably finished edges.
- Can be ordered as raw material, panel cut only, with or without edges, or further processing

Edgebands Edgeband

- The standardised edge protection for tabletops.

ME... Chipboard

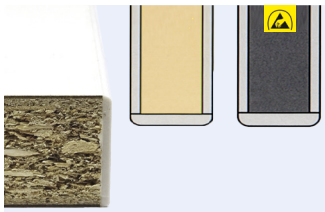


- 13 mm: HA201095*
- 19 mm: HA201092*
- 25 mm: HA201093*
- 19 mm: HA201096*

- Upper and lower side same pattern
- Normal abrasion resistance
- Limitedly scratch- and shockproof
- Stain-resistant to acetone, alcohol, benzine, nail polish remover, organic solvents
- ESD version is volume conductive

Substrate	Chipboard
Surface covering	Melamineresin direct coating
Covering	Melamineresin direct coating
Edges	1 mm ABS edge, at 25 mm thickness with 2 mm ABS edge
Dimension (LxW)	2800x2070 (13 mm) / 2800x2100mm
Available thicknesses	13 mm, 19 mm, 25 m, ESD 19 mm
Colour	Light grey, similar to RAL 7035 other colours on request

RS... SC... Chipboard



- 19,6 mm: HA203495
- 26,6 mm: 605618
- 26,6 mm: HA201097*

- High abrasion resistance
- Highly scratch- and shock proof
- Resistant to standard household chemicals, solvents, weak acids and lyes

Substrate	Chipboard (volume-conductive)
Surface covering	HPL laminate 0.8 mm (conductive)
Covering	HPL laminate
Edges	Edges 2 mm ABS edge, rounded radius R2
Dimension (LxW)	2750 x 2050 mm (HA203495) 2800 x 2070 mm (605618) 5600 x 2070 mm (HA201097)
Available thicknesses	19.6 mm, 26.6 mm; other thicknesses on request
Colour	Light grey, similar to RAL 7035 other colours on request

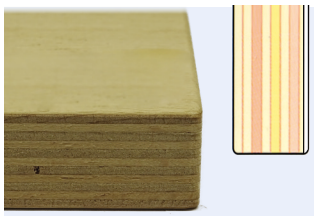
MPBU... Beech mulitplex panel

- 25 mm: HA201099*
- 40 mm: HA202690*

- High load capacity
- Surface sensitive, but perfect for workbenches

Substrate	**Beech** multiplex panel
Surface covering	Raw
Covering	Raw
Dimension (LxW)	2500 x 1500 mm
Available thicknesses	25 mm, 40 mm
Colour	Natural beech

MPBI... Birch multiplex panel

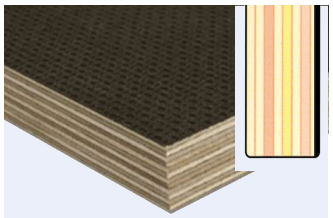


18,2 mm: 130451

- High-quality variant of mulitplex panel made of beech
- Visually appealing thanks to the white egger laminate

Substrate	**Birch** multiplex panel
Surface covering	Egger laminate 0.6 mm
Covering	Egger laminate 0.6 mm
Dimension (LxW)	2500 x 1250 mm
Available thicknesses	18.2 mm
Colour	White, silk-matt

SD... Printing panel

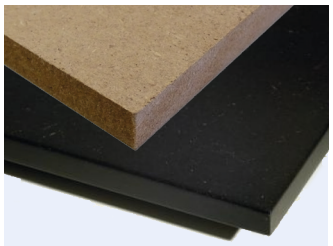


12 mm: 116446*
18 mm: 116447*

- Higher load capacity like beech multiplex panel
- Moisture resistant due to decor in dark brown

Substrate	**Birch** multiplex panel
Surface covering	Hard coating of phenolic resin, rough
Covering	Hard coating of phenolic resin, smooth
Dimension (LxW)	3000 x 1500 mm
Available thicknesses	12 mm, 18 mm
Colour	Dark brown

MDF... Medium density fibreboard



10 mm: 129485* 129486
16 mm: 129484* 129487

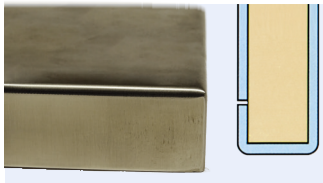
Substrate	Medium density fibreboard
Surface covering	Raw
Covering	Raw
Dimension (LxW)	Brown: 2800 x 2070mm Black: 2850 x 2100mm
Available thicknesses	10 mm, 16 mm (Brown or black)
Colour	Brown and black

NB... Special panel (on request)

- Pimpled rubber made from synthetic rubber 4 mm
- Resistant to standard household chemicals, solvents, weak acids and lyes

Substrate	Chipboard
Surface covering	Pimpled rubber 4 mm antistatic
Covering	Melamineresin coating
Edges	2 mm ABS edge, rounded radius R2
Available thicknesses	23 mm, 29 mm
Colour	Grey

ES... Special panel (on request)



- Stainless steel sheathed worktop

Substrate	Chipboard middle layer
Surface covering	Stainless steel shell 1 mm
Covering	Metal
longitudinal edge in front	Stainless steel U edging
longitudinal edge behind	Stainless steel L edging
Available thicknesses	28 mm
Colour	Stainless steel

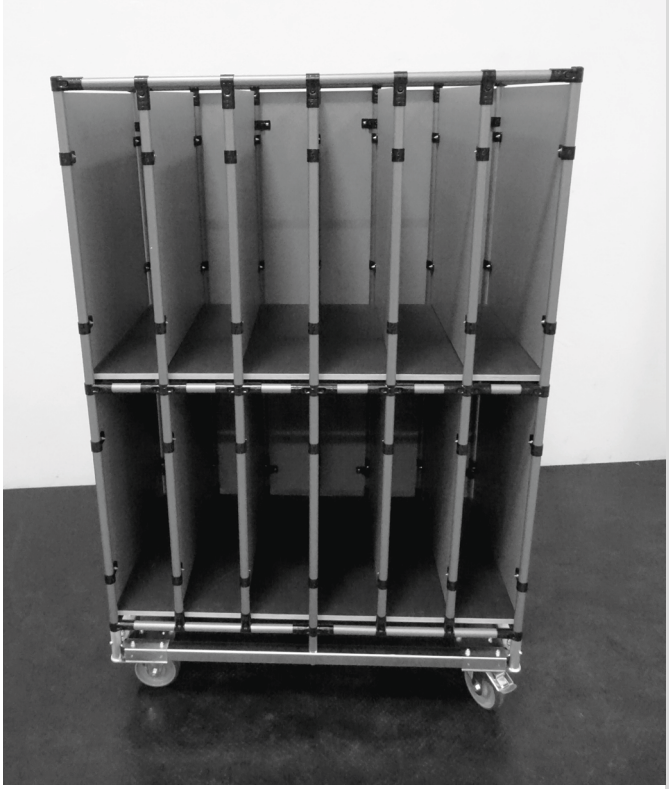
Application examples of different panel material

Construction with wood panels

207033

205469

205621



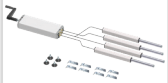
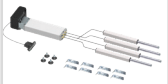
SPACE FOR NOTES

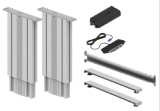
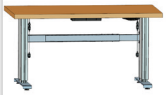
LIFTING TECHNOLOGY

Lifting technology

Lifting sets HE 250
Individual lifting components HE 256
Lifting sets HL 266
Individual lifting components HL 267
ERGOLevel 269

Overview of the HE and HL hydraulic and electric lifting sets

Art. No	Name	Image	Application	Technical Details	max. load capacity	Lifting height	Version
608751	HubSet 31.0			2 Lifting pillars, 2-parts Speed: 38 mm/s Overall height: 445 mm Duty cycle: 10% incl. mounting material	160 kg	300 mm	HL
608753	HubSet 33.0			2 Lifting pillars, 2-parts max. speed: 38 mm/s Overall height: 645 mm Duty cycle: 10% incl. mounting material	160 kg	500 mm	HL
607482	HubSet 11.0			4 Lifting elements (SLA3) electric drive + battery Speed: 9 mm/s Overall height: 600 mm Duty cycle: 5%	300 kg	300 mm	HE
607483	HubSet 12.0			4 Lifting elements (SLA3) electric drive + battery Speed: 9 mm/s Overall height: 700 mm Duty cycle: 5%	300 kg	400 mm	HE
608749	HubSet 30.0			4 Lifting pillars, 2-parts Speed: 38 mm/s Overall height: 445 mm Duty cycle: 10% incl. mounting material	320 kg	300 mm	HL
608752	HubSet 32.0			4 Lifting pillars, 2-parts max. speed: 38 mm/s Overall height: 645 mm Duty cycle: 10% incl. mounting material	320 kg	500 mm	HL
608754	HubSet 34.0			4 Lifting pillars, 3-parts max. speed: 38 mm/s Overall height: 560 mm Duty cycle: 10% incl. mounting material	320 kg	650 mm	HL
608756	HubSet 36.0			4 Lifting pillars, 3-parts max. speed: 38 mm/s Overall height: 560 mm Battery pack Duty cycle: 10%	320 kg	650 mm	HL
614817	HubSet 3.3			4 Lifting elements (LA) hydraulic drive Speed: 5 mm/rev. Overall height: 542 mm Duty cycle: 10%	350 kg	300 mm	HE
614977	HubSet 4.3			4 Lifting elements (LA) hydraulic drive Speed: 15 mm/s Overall height: 542 mm Duty cycle: 10%	350 kg	290 mm	HE
614985	HubSet 5.3			6 Lifting elements (LA) hydraulic drive Speed: 15 mm/s Overall height: 542 mm Duty cycle: 10%	350 kg	290 mm	HE
614989	HubSet 6.3			6 Lifting elements (LA) hydraulic drive Speed: 5 mm/rev. Overall height: 542 mm Duty cycle: 10%	350 kg	300 mm	HE

Art. No	Name	Image	Application	Technical Details	max. load capacity	Lifting height	Version
614992	HubSet 7.3			4 Lifting elements (LH) electric drive Speed: 9 mm/s Overall height: 600 mm Duty cycle: 10%	350 kg	390 mm	HE
614997	HubSet 13.3			4 Lifting pillars (TA) hydraulic drive max. speed: 15 mm/s Overall height: 514 mm Duty cycle: 10%	350 kg	400 mm	HE
612009	HubSet 37.0 Mono			1 Lifting pillar max. speed: 18 mm/s Overall height: 584 mm Duty cycle: 10% incl. mounting material	400 kg	650 mm	HL
608755	HubSet 35.0			4 Lifting pillars, 3-parts max. speed: 23 mm/s Overall height: 560 mm Duty cycle: 10% incl. mounting material	480 kg	650 mm	HL
501051	HubSet 9.3			4 Lifting elements (SLA) electric drive Speed: 9 mm/s Overall height: 600 mm Duty cycle: 10%	500 kg	300 mm	HE
501052	HubSet 10.3			4 Lifting elements (SLA) electric drive Speed: 9 mm/s Overall height: 700 mm Duty cycle: 10%	500 kg	400 mm	HE
609645	HubSet 20 SK-ESD			2 Lifting pillars (SK) electric drive max. speed: 8 mm/s Overall height: 630 mm Duty cycle: 10%	600 kg	400 mm	HE

Introduction lifting technology

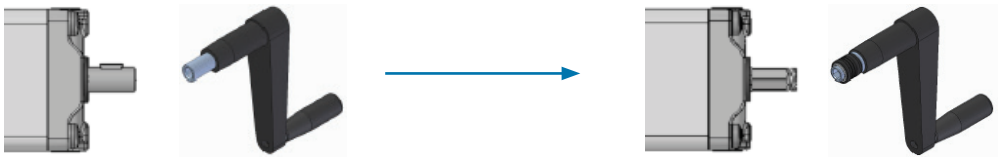
For 2025, we have expanded the lifting portfolio with additional components and it was adapted technically. We have added a complete new lifting series (from lifting set 30).
In order to have an exact designation, the existing lifting sets (1-20) are called **lifting technology HE** and the new lifting series (from lifting set 30) is called **lifting technology HL.**

Lifting technology HE		Lifting technology HL	
Lifting set 3.3, 4.3, 5.3, 6.3, 7.3	→ LA/LH Linear unit with hydraulic drive	Lifting set 30.0, 31.0, 32.0, 33.0, 34.0, 35.0, 36.0	→ DL5/DL6 Lifting pillar with electric drive
Lifting set 9.3, 10,3, 11.0, 12.0	→ SLA Linear unit with electric drive	Lifting set 37.0 Mono	→ Mono lifting pillar with electric drive
Lifting set 13.3	→ TA Linear unit with hydraulic drive		
Lifting set 20	→ SK Linear unit with electric drive		
With HE lifting technology, we use LA/LH and SLA linear units that are bolted to a frame (round or square profiles). This can also be used as a retrofit solution. The LA/LH linear units are electrically conductive (ELF). Lifting sets 11/12 are battery-operated solutions for the SLA linear units (lifting sets 9.3/10.3). With the lifting sets 13 and 20, we can build a very stable base frame.		With HL lifting technology, we mainly use lifting pillars that are bolted to a frame (round or square profiles). The lifting pillar only lifts the table top, the base frame remains stationary. Due to the stability of the lifting pillars, a table structure with 2 lifting pillars can also be realised with a low load capacity, which is cost-effective. The mono lifting pillar (lifting set 37), which can be used as a single lifting element, is completely new. The items from the HL lifting technology range can be easily extended with a battery pack and operated without a fixed power connection.	

Technical changes in 2025

The following changes will apply from 2025: The existing lifting sets (lifting sets 3,4,5,6,7,13), which are driven by a hydraulic pump, have now been changed to a new pump with a modified adaptation for technical reasons and as specified by the manufacturer.
For this reason, the lifting sets have been given a new designation and new article no.

Previous article no.	Previous designation		New article no.	New designation
126902	Hubset 3	→	614817	Hubset 3.3
126903	Hubset 4	→	614977	Hubset 4.3
126904	Hubset 5	→	614985	Hubset 5.3
126905	Hubset 6	→	614989	Hubset 6.3
126907	Hubset 7	→	614992	Hubset 7.3
606177	Hubset 13	→	614997	Hubset 13.3



The pumps and attachments such as the hand crank and motor will be installed with a different adaptation in future. The function and dimensions of the components remain identical.
The hydraulic drives purchased until the end of 2024 have a cylindrical spindle shaft on the pump and a Woodruff key as an anti-rotation device. The hand crank had to be additionally secured with a grub screw or drill pin.
From 2025, the hydraulic drives are equipped with a hexagonal spindle shaft as standard and the crank handle has a quick-release coupling (see pictures). This allows individual components to be connected and replaced very quickly.
The change means that an old pump cannot be operated directly with a new motor or crank handle, but requires an adapter.

SPACE FOR NOTES

Hydraulic technology HE

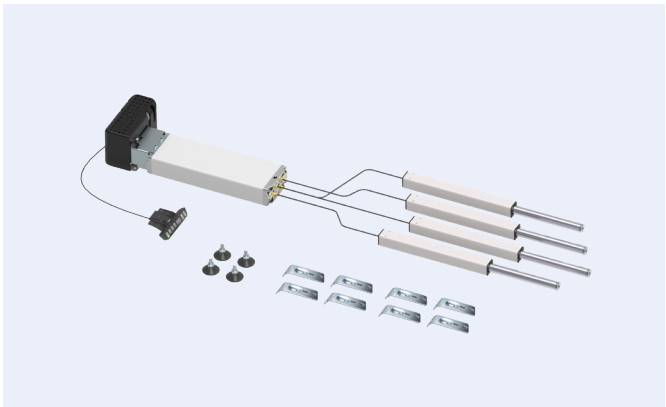
Flexible working height? With this simple but high-quality hydraulic lifting system you can easily install continuous height adjustment exactly for the load and lift required.

The system is mounted on flexible connecting leads, works independently of load and completely synchronously, even where the load is unevenly distributed. Due to its small dimensions, high loading capacity and quiet drive the system has decisive advantages vis-à-vis conventional lifting systems.

Our proven set combinations

We recommend clarifying the following criteria for selection:

- What lifting height and total load capacity
- Hydraulic or electric lifting set?
- With 4 or 6 linear units?
- Operation with hand crank or electric drive?



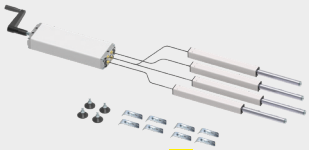
Hydraulic lifting sets HE

- Complete solution with all parts required for the lifting system
- Incl. adaptation to our 28 mm round pipe plug-in system and levelling foot
- (Lifting set 13 requires a special solution for adaptation, see accessories)
- Lifting set 3 - 7 and 13 get an update in the motor.
- From December 2024, the pump will have a quick-release coupling as standard. This allows the motor or hand crank to be replaced without much effort.

Hubset 3.3* Hydraulic lifting set

NEW

4 Lifting elements (LA)
300 mm lifting height
Hand crank
350 kg max. total capacity load



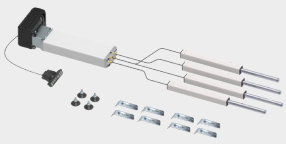
614817

Consisting of:
- 4 x Linear devices LA 1440 pre-assembled with 3000 mm hose (542 mm Installation height)
- 1x Hydraulic pump PB 4830 H with hand crank
- 4 x BSHub-GA-15G WZ (Mounting kit for adaptation to our 28 mm round pipe)
- 4 x Adjustable steel foot M10x25 with rubber
- Lifting speed: 5 mm/crank rotation

Hubset 4.3* Hydraulic lifting set**

NEW

4 Lifting elements (LA)
290 mm lifting height
Motor drive
350 kg max. total capacity load



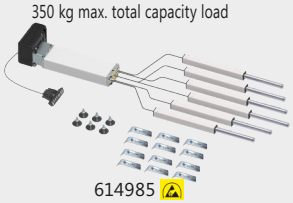
614977

Consisting of:
- 4 x Linear devices LA 1440 pre-assembled with 3000 mm hose (542 mm Installation height)
- 1 x PB 6830 H hydraulic pump with electric drive (EU plug), control unit and hand control unit
- 4 x BSHub-GA-15G WZ (Mounting kit for adaptation to our 28 mm round pipe)
- 4 x Adjustable steel foot M10x25 with rubber
- Lifting speed: 15 mm/s

Hubset 5.3* Hydraulic lifting set**

NEW

6 Lifting elements (LA)
290 mm lifting height
Motor drive
350 kg max. total capacity load



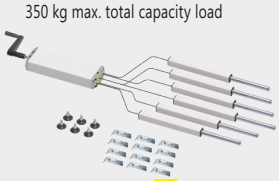
614985

Consisting of:
- 6 x Linear devices LA 1440 pre-a ssembled with 3000 mm hose (542 mm Installation height)
- 1 x PB 6830 H hydraulic pump with electric drive (EU plug), control unit and hand control unit
- 6 x BSHub-GA-15G WZ (Mounting kit for adaptation to our 28 mm round pipe)
- 6 x Adjustable steel foot M10x25 with rubber
- Lifting speed: 15 mm/s

Hubset 6.3* Hydraulic lifting set

NEW

6 Lifting elements (LA)
300 mm lifting height
Hand crank
350 kg max. total capacity load



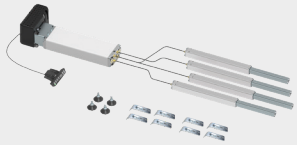
614989

Consisting of:
- 6 x Linear devices LA 1440 pre-assembled with 3000 mm hose (542 mm Installation height)
- 1 x Hydraulic pump PB 6830 H with hand crank
- 6 x BSHub-GA-15G WZ (Mounting kit for adaptation to our 28 mm round pipe)
- 6 x Adjustable steel foot M10x25 with rubber
- Lifting speed: 5 mm/crank rotation

Hubset 7.3 Hydraulic lifting set**

NEW

4 Lifting elements (LH)
390 mm lifting height
Motor drive
350 kg max. total capacity load



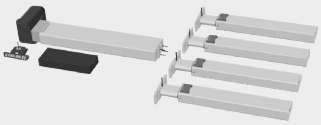
614992

Consisting of:
- 4 x Linear devices LA 1440 pre-assembled with 3000 mm hose (542 mm Installation height)
- 1 x PB 6830 H hydraulic pump with electric drive (EU plug), control unit and hand control unit
- 4 x BSHub-GA-15G WZ (Mounting kit for adaptation to our 28 mm round pipe)
- 4 x Adjustable steel foot M10x25 with rubber
- Lifting speed: 15 mm/s

Hubset 13.3 Hydraulic lifting set**

NEW

4 Lifting elements (TA)
400 mm lifting height
Motor drive
350 kg max. total capacity load



614997

Consisting of:
- 4 x Linear devices TA 1440 pre-assembled with 3000 mm hose (514 mm Installation height)
- 1 x PB 6830 H hydraulic pump with electric drive (EU plug), control unit and hand control unit
- Without adaptation and fastening material (see accessories for hydraulic lifting sets)
- Lifting speed: 15 mm/s

Electric lifting sets HE

- Complete solution with all parts required for the lifting system
- Incl. adaptation to our 28 mm round pipe plug-in system and levelling foot

Hubset 9.3 Electrical lifting set**

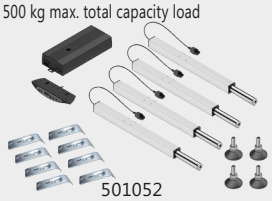
4 Lifting elements (SLA3)
300 mm lifting height
all-electric motor drive
500 kg max. total capacity load

501051

Consisting of:
- 4 x Linear devices SLA.3 1330 pre-assembled with 2000 mm motor cable and plug (600 mm Installation height)
- 1 x control unit (EU plug) and manual control unit
- 4 x BSHub-GA-15G WZ (Mounting kit for adaptation to our 28 mm round pipe)
- 4 x Adjustable steel foot M10x25 with rubber
- Lifting speed: 9 mm/s
- For technical reasons only available as **non**-conductive version
- Not compatible with the previous lifting set 9.0, 9.1 and 9.2

Hubset 10.3 Electrical lifting set**

4 Lifting elements (SLA3)
400 mm lifting height
all-electric motor drive
500 kg max. total capacity load



501052

Consisting of:
- 4 x Linear devices SLA.3 1340 pre-assembled with 2000 mm motor cable and plug (700 mm Installation height)
- 1 x control unit (EU plug) and manual control unit
- 4 x BSHub-GA-15G WZ (Mounting kit for adaptation to our 28 mm round pipe)
- 4 x Adjustable steel foot M10x25 with rubber
- Lifting speed: 9 mm/s
- For technical reasons only available as **non**-conductive version
- Not compatible with the previous lifting set 10.0, 10.1 and 10.2

Hubset 11.0 Electrical lifting set**

4 Lifting elements (SLA3)
300 mm lifting height
all-electric motor drive with battery
300 kg max. total capacity load

607482

Not in stock

Consisting of:
- 4 x Linear devices SLA.3 1330 pre-assembled with 2000 mm motor cable and plug (700 mm Installation height)
- 1 x control unit (EU plug), hand control unit, battery, holder for battery and charger
- 4 x BSHub-GA-15G WZ (Mounting kit for adaptation to our 28 mm round pipe)
- 4 x Adjustable steel foot M10x25 with rubber
- Lifting speed: 6.5 - 8.5 mm/s (Load-dependent)
- For technical reasons only available as **non**-conductive version

Hubset 12.0 Electrical lifting set**

4 Lifting elements (SLA3)
400 mm lifting height
all-electric motor drive with battery
300 kg max. total capacity load

607483

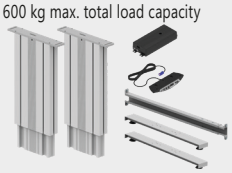
Not in stock

Consisting of:
- 4 x Linear devices SLA.3 1340 pre-assembled with 2000 mm motor cable and plug (700 mm Installation height)
- 1 x control unit (EU plug), hand control unit, battery, holder for battery and charger
- 4 x BSHub-GA-15G WZ (Mounting kit for adaptation to our 28 mm round pipe)
- 4 x Adjustable steel foot M10x25 with rubber
- Lifting speed: 6.5 - 8.5 mm/s (Load-dependent)
- For technical reasons only available as **non**-conductive version

Hubset 20 SK-ESD Electrical lifting set

NEW

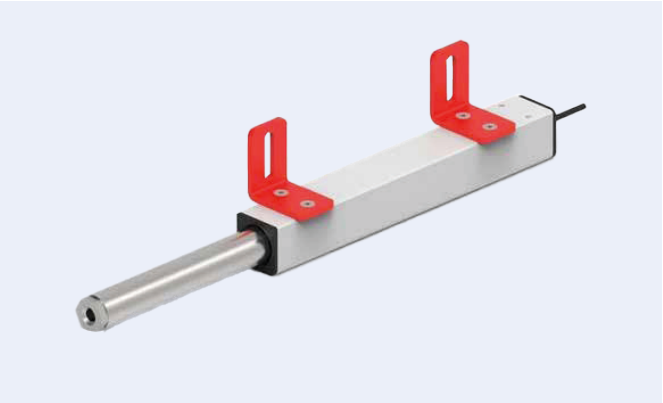
2 lifting pillars SK
400 mm lifting height
Purely electric motorised drive
600 kg max. total load capacity



609465

Consisting of:
- 2 x SK lifting pillar 1340 ESD
- 1 x control unit and power cable 3 m
- 1 x Memory hand control unit
- 2 x table base 680 mm complete
- 1 x Telescopic cross beam 900 - 1550 mm

Notes:
* For stability reasons, with the marked hubsets, the linear devices have one 100 mm longer stroke than the system can reach.
** The electro-hydraulic and the purely electric lifting systems have a duty cycle (ED) of approx. 10%, 2/18 (ON/OFF). This means that the lifting system can be operated continuously for max. 2 min. After that, a pause of at least 18 min. must be observed before the lifting system can be moved again. The manually operated systems can be operated as often as required



Individual lifting technology components HE

- Information on hydraulic and electrical systems
- Individual components such as
  - Linear units
  - accessories
  - etc.

Our tried-and-tested individual components

The combination of individual components allows you to configure a lifting system according to your individual requirements. The lifting height, the maximum total load capacity, the number of lifting elements, the type of operation, whether hydraulic or electric, can all be customised.

Hydraulic lifting systems

Key facts:

- The pump with hand crank/motor and the linear units with 3000 mm hose are pre-assembled on all hydraulic systems.
- The pump with motor is supplied including control unit and manual control unit.
- The hydraulic lifting systems with motor have a duty cycle (ED) of approx. 10 per cent, 2/18 (ON/OFF). For this reason, the lifting system can be operated continuously for a maximum of 2 minutes. After this, a break of at least 18 minutes must be observed before the lifting system can be moved again. The manually operated systems can be operated as often as required.
- The load refers to the maximum permissible total load of the complete system.
- All hydraulic components are electrically conductive.
- To increase stability in hydraulic systems, it may make sense to select linear units with a stroke that is approx. 100 mm longer than the pump can reach.
- Lifting speed for 350kg systems:
  5 mm stroke per crank revolution
  15 mm stroke per second with motor
- Lifting speed for 600kg systems:
  3 mm stroke per crank revolution
  9 mm stroke per second with motor

The following components are required for a complete hydraulic lifting system:

1. Linear units (depending on total load, lifting height and number, see system selection table)
2. Pump (supplied incl. motor+control or hand crank), depending on total load, lifting height and number of linear units, see system selection table)
3. Adjustable feet (depending on type and number of linear units, see accessories)
4. Mounting set on the round pipe system (depending on the type and number of linear units, see accessories)

Hydraulic system selection table:

Total load max. 350 kg

Hub	Linear unit LA		Linear unit LH		Linear unit TA		Pump H		Motor H with control unit		Hand crank	
for 4 linear units												
300 mm	118850	LA 1430					NEW 613420	PB 4830 H	NEW 613425[1]	PBD 230	NEW 613424	
400 mm	NEW 118851	LA 1440	130479	LH 1440	101558	TA 1440	NEW 613422	PB 4840 H	NEW 613425[1]	PBD 230	NEW 613424	
500 mm					101543	TA 1450	NEW 613423	PB 4850 H	NEW 613425[1]	PBD 230	NEW 613424	
for 6 linear units												
300 mm	118850	LA 1430					NEW 613421	PB 6830 H	NEW 613425[1]	PBD 230	NEW 613424	
400 mm	NEW 118851	LA 1440	130479	LH 1440	101558	TA 1440	NEW 615242	PB 6840 H	NEW 613425[1]	PBD 230	NEW 613424	
500 mm					101543	TA 1450	NEW 615244	PB 6850 H	NEW 613425[1]	PBD 230	NEW 613424	

Total load max. 600 kg

Hub	Linear unit LA		Linear unit LH		Linear unit TA		Pump H		Motor H with control unit		Hand crank	
for 4 linear units												
300 mm	402276	LA 1830			101559	TA 1830	NEW 613423	PB 4850 H	NEW 613425[1]	PBD 230	NEW 613424	
400 mm			403515	LH 1840			NEW 615238	PB 4866 H	NEW 613425[1]	PBD 230	NEW 613424	
for 6 linear units												
300 mm	402276	LA 1830			101559	TA 1830	NEW 615244	PB 6850 H	NEW 613425[1]	PBD 230	NEW 613424	
400 mm			403515	LH 1840			NEW 615245	PB 6866 H	NEW 613425[1]	PBD 230	NEW 613424	

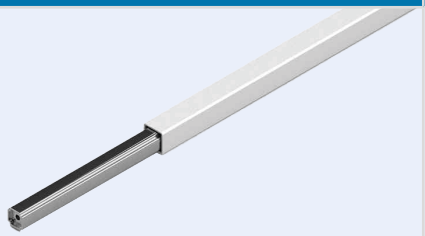
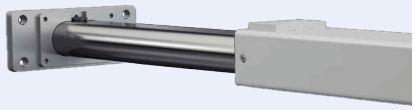
Preferred goods

Preferred goods = in stock

[1] The article set 613425 (drive unit set PBD 230 Compact EU) contains the motor, the control unit, the manual control unit and the cables.

Linear units for hydraulic systems

The linear units consist of a linear guide with an integrated lifting cylinder and are available in three versions.

Linear unit LA	Linear unit LH	Linear unit TA
		
The housing of the linear unit consists of colourless anodised aluminium profile (35 x 35 mm). The tube (Ø25 mm) made of stainless steel stainless steel is mounted in a plastic mounted in a plastic bush.	The housing of the linear unit consists of colourless anodised aluminium profile (35 x 35 mm). The standpipe (Ø25 mm) made of stainless steel is equipped with a equipped with a steel ball guide. The LH linear unit offers high stability and smooth running. It is used mainly used for long stroke lengths instead of the linear unit LA.	The linear unit consists of two steel tubes. The oval, galvanised guide tube is mounted on balls. The lifting movement is performed by a built-in hydraulic cylinder. The TA linear unit is ideal for assembly workstations, workbenches and office desks or in combination with aluminium profile systems for high load-bearing capacity and stability requirements.

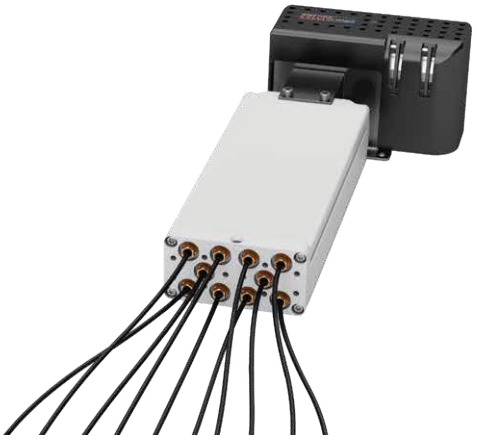
Pumps for the hydraulic system

The pump forms the centrepiece of a hydraulic lifting system and, depending on the type, lifts 4, 6 or 8 linear units continuously and synchronously. The pump is driven by an electric drive or a hand crank (must be taken into account when ordering).

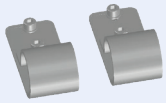
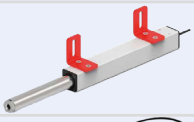
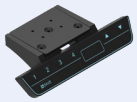
A restoring force of at least 10 kg per cylinder should be ensured in order to press the hydraulic oil back into the pump when retracting (single-acting hydraulics).

The pumps and cylinders are connected with a hydraulic hose (Ø 4 mm). The maximum hose length is 8 m, the minimum permissible bending radius is 25 mm.

The pump housing consists of an extruded profile made of colourless anodised aluminium.

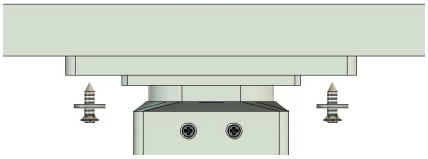


Accessories for hydraulic systems

Art. No.	Name	Description		Image
403228	Hinged adjustable foot D40 M10x25, electrically conductive	Consisting of: 1 x plastic hinged foot, electrically conductive, D39,2 mm 1 x anti-slip plate, electrically conductive	1 x galvanised steel threaded rod M10x25 mm 1 x hexagon nut M10 total load capacity 300 kg/foot	
501001	BSHub-GA-15G WZ	Consisting of: 2 x G-15G WZ 2 x G-15BS WZ 2 x M0610 WZ	4 x SI0508 8.8 4 x US05 Suitable for linear unit LA, LH 1 x BSHub per linear unit is required	
101530	Mounting plate A	Consisting of: 1 x mounting plate A, (30x70 mm, countersunk hole Ø5.8 mm	2 x SSI0512 Suitable for linear unit LA, LH Requires 2x mounting plate per linear unit	
101532	Mounting plate C	Consisting of: 1 x 90° angle, 50x50x32 mm, countersunk hole Ø5.8 mm	2 x SSI0512 Suitable for linear unit LA, LH Requires 2x mounting plate per linear unit	
115524	SYNC-2 Compact cable	The cable connects 2 Compact control units together. This allows 2 hydraulic lifting systems to be operated in parallel. Cable length 550 mm, application: systems with Compact controls.		
115525	SYNC-4 Compact cable	The cable connects 2, 3 or 4 Compact control units together. This means that 2, 3 or 4 hydraulic lifting systems can be operated in parallel. Cable length 1.8 m, 1 cable per control unit cable (4 controls = 4 cables) Application: Systems with Compact controls.		
116869	SCT/Compact motor extension cable	This cable can be used to extend the motor cable of the PXD drives or the spindle lifting systems. Cable length 1.2 m. 2 cables are required to extend the PXD motor cable. Max. 5 extension cables in series. Application: Hydraulic systems with electric drive, spindle lifting systems with Compact and SCT controls.		
112878	Extension cable hand switch Compact	The hand switch can be extended with this cable. Cable length 1 m. Max. 3 extension cables in series. Application: Manual switch for Compact control units.		
402612	Power cable for Switzerland	Two-pole power cable with Swiss power plug, voltage 230V, plug type SEV 1011, cable length: 3000 mm, application: systems with compact or SCT control units		
NEW 401368	EU power cable	Two-pole power cable with European power plug, voltage 230 V, plug type CEE 7/7, cable length: 3000 mm, application: systems with compac- control units		
NEW 600687	Cable remote control/ memory	Cable remote control HSU/Memory, up and down, save and move to 4 positions, height indication on display, cable length: 1.7 m, incl. fixing screws. Cable remote control can be pulled forwards by sliding mounting plate		
NEW 613425	PBD 230 Compact EU drive set	Drive set consists of motor PXD.2 with hexagonal quick coupling, motor cable, control unit PXD Compact with software version V200, power cable and memory handset		
101638	Servicekit	Set includes: • Disposable syringe 20ml incl. cannula • Oil 250ml • Double-end box wrench 10/11 • Hose cutter • Connection screws and clamping rings 20 each • Magnet 4 pieces • Assembly instructions		

Mounting options Lifting set 13 (TA linear units)

At the top, directly on the tabletop

The table height when lowered (26 mm table top thickness) is 735 mm	Material required per linear unit • 4 x SSPP5030 (113869) Clamping plate screw • 4 x USG05 (109788) Washer)	

At the top, with the help of a square frame, underneath the table top

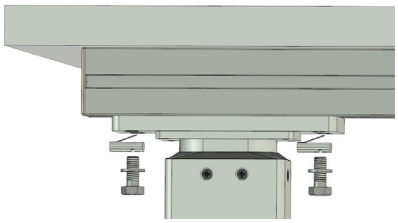
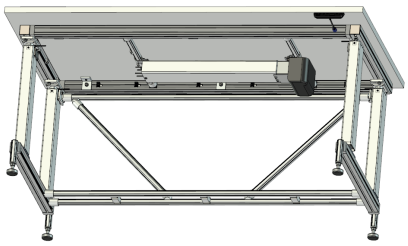
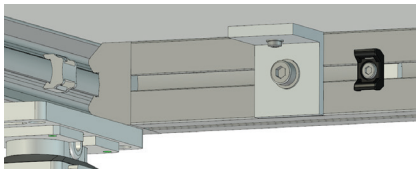
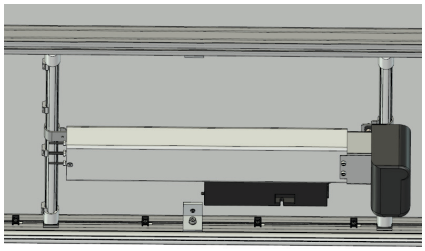
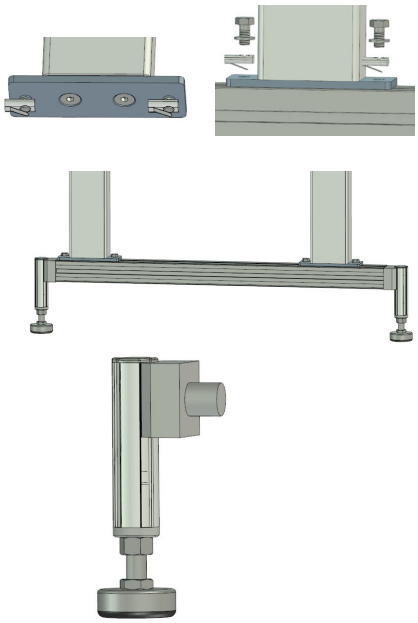
The table height when lowered (26 mm table top thickness) is 780 mm	Material required per linear unit: • ASM4545C (401082), Length as required, approx. 200 mm shorter than the table top in depth • 2 x SN408 (402206) WZ T-slot nut • 2 x US08 (101846) Washer • 2 x SA0820 (112375) Hexagon head screw	

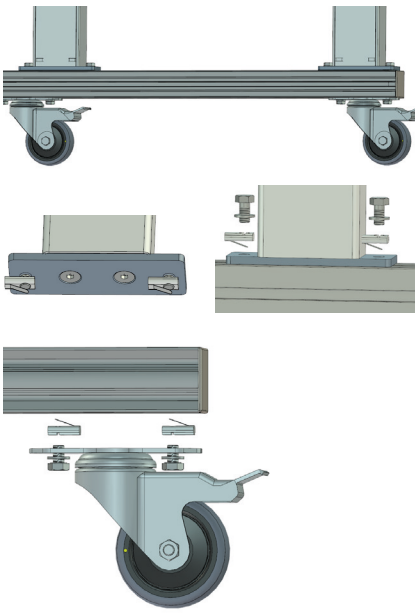
Table frame substructure (suggestion)

For a table depth > 600 mm, 4 lifting columns are recommended. We recommend a substructure with a tabletop support made of aluminium profile. For a table width > 1400 mm (depending on the table top), a frame substructure made of aluminium profile should be installed all around. The pump can also be attached with the appropriate cross profiles.	Material required per table: • 2 x Cross profile, ASM4545C 45 x 45 mm (401082), Length as required, approx. 200 mm shorter than the table top in depth • 2 x Longitudinal profile AST4545D 45 x 45 mm (401078), Length as required, approx. 200 mm shorter than the table top in depth • 4 x EA-001 (501013) Joint • 6 x IW-90-45 (117974) Angle • 6 x SN408 (402206) T-slot nut WZ • 6 x SI0816 (111553) Cylinder head screw • 6 x US08 (101846) Washer Hose holder: • 12 x Cable holder (403660) • 12 x SN0405 (402204) T-slot nut • 12 x SIN0510 (112089) Cylinder head screw Hose clamp holder: • 10 x ACY-N301 GR (130541) Crossbars, pump: • 4 x SA033A (402009) Groove adapter • 4 x SI0612 (110149) Screw • 4 x SN406 (402205) T-slot nut • 4 x AA-001 (117734) Joint • 2 x Aluminium profile AP28 ... (Length = cross profile ASM4545C-143 mm) • 3 x GA-15S (114336) Clamp • 1 x SSI0690 (114275) Countersunk screw • 2 x SI0616 (110257) Screw • 2 x MS06 (100244) Screw nut	  

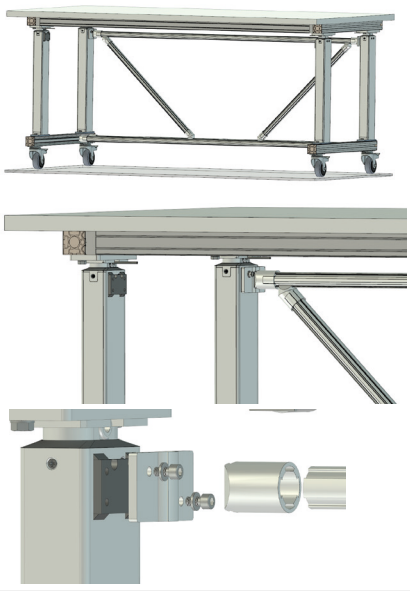
Below, on the feet

	Material required per linear unit: • ASM4545C 45 x 45 mm (Length as required) • 1 x TA-AL-N8 (606832) Adapterplate • 2 x SSI0825 (116870) Countersunk screw • 2 x SN408 WZ (402206) T-slot nut with tongue plate • 2 x SA0816 (117325) Hexagon head screw • 2 x US08 (101846) Washer • 1 x AP2829 (117687) 100 mm Round aluminium pipe • 1 x AD50RAN-E (100095) Adjustable foot 1/2" • 1 x Ni05W-12 (100270) Counter nut 1/2" • 1 x BA280LA (402039) Drive-in sleeve 1/2" • 1 x GAP-4A (117716) Cover cap • 1 x EA-001 (501013) Joint	

Bottom, on rollers

	Material required per linear unit: • ASM4545C 45 x 45 mm (401082), (Length as required) • 1 x TA-AL-N8 (606832) Adapterplate • 2 x SSI0825 (116870) Countersunk screw • 2 x SN408 WZ (402206) T-slot nut with tongue plate • 2 x SA0816 (117325) Hexagon head screw • 2 x US08 (101846) Washer • 1 x AP-40-80-LB-M-TG-K-O (604566) Swivel castor • 2 x SN408 WZ (402206) T-slot nut with tongue plate • 2 x SA0816 (117325) Hexagon head screw • 2 x US08 (101846) Washer	

Connection for cross bracing

The cross brace and any additional diagonal braces are necessary for the stability of the table base.	Material required per linear unit: • 1 x TA small (606831) Adapterplate • 2 x SI0612 (110149) Screw • 2 x US06 (109758) Washer Connection for the cross strut to the adapter component with an AA-001 (117734) and an aluminium profile pipe AP28 ... The possible diagonal brace can be installed with AA-013 (117821) and an aluminium profile pipe AP28 ... can be installed	

Electric lifting systems:

Key facts:

- For all electrical systems, the linear units are supplied with a 2000 mm motor cable and plug.
- The control unit is preconfigured for the corresponding linear units and is supplied with a manual control unit with memory function.
- The electric lifting systems have a duty cycle (ED) of approx. 10 per cent, 2/18 (ON/OFF). For this reason, the lifting system can be operated continuously for a maximum of 2 minutes. After this, a break of at least 18 minutes must be observed before the lifting system can be moved again.
- The load refers to the maximum permissible total load of the complete system.
- For technical reasons, the electric lifting systems are not electrically conductive.
- Lifting speed of electrical systems:
  9 mm lift per second
- Lifting speed of electric battery systems:
  max. 8.5 mm lift per second

The following components are required for a complete electric lifting system

1. Linear units (depending on total load, lifting height and number, see system selection table)
2. Control system (depending on lifting height and number of linear units, see system selection table)
3. Adjustable feet (depending on type and number of linear units, see accessories)
4. Mounting set on the round pipe system (depending on the type and number of linear units, see accessories)

System selection table electrical system

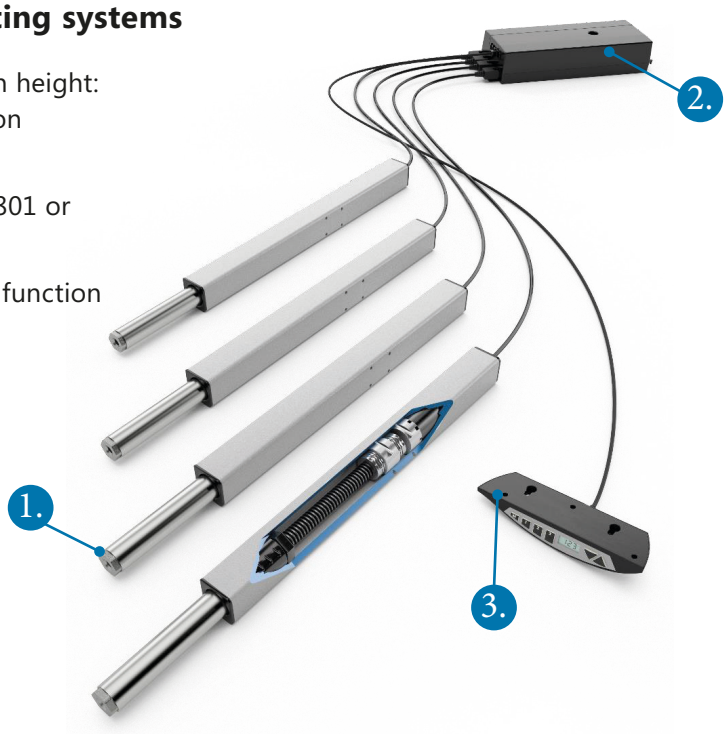
Hub	Linear unit		Control system		max. system load	Lifting speed mm/s	Duty cycle on/off
for 2 linear units SK							
400 mm	NEW 609463	SK 1340	NEW 609464	Control system SCT2 iSMPS 230V V1400	600 kg	6-8,5	2/40 min
for 3 linear units SK							
400 mm	NEW 609463	SK 1340	NEW 609521	Control system SCT4 iSMPS 230V V1400	750 kg	6-8,5	2/40 min
for 4 linear units SK							
400 mm	NEW 609463	SK 1340	NEW 609521	Control system SCT4 iSMPS 230V V1400	1000 kg	6-8,5	2/40 min
for 4 linear units							
300 mm	403421	SLA 1330	602072	Control set SCT4 230V V1801	500 kg	9	2/18 min
400 mm	403422	SLA 1340	604339	Control set SCT4 230V V1800			
300 mm	403421	SLA 1330 + Battery	NEW 615767	Control set SCT4 iMPS 24V V1891	300 kg		
400 mm	403422	SLA 1340 + Battery	NEW 615772	Control set SCT4 iMPS 24V V1890			
for 6 linear units							
300 mm	403421	SLA 1330	2 x 602072	Control set SCT4 230V V1801	700 kg	9	2/18 min
400 mm	403422	SLA 1340	2 x 604339	Control set SCT4 230V V1800			
300 mm	403421	SLA 1330 + Battery	NEW 2 x 615767	Control set SCT4 iMPS 24V V1891	400 kg		
400 mm	403422	SLA 1340 + Battery	NEW 2 x 615772	Control set SCT4 iMPS 24V V1890			
for 8 linear units							
300 mm	403421	SLA 1330	2 x 602072	Control set SCT4 230V V1801	800 kg	9	2/18 min
400 mm	403422	SLA 1340	2 x 604339	Control set SCT4 230V V1800			

Preferred goods

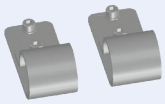
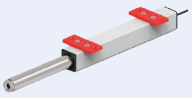
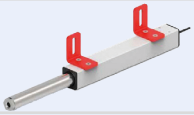
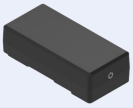
Preferred goods = in stock

Components for electrical lifting systems

1. Linear unit SLA 1330 (installation height: 600 mm) or SLA 1340 (installation height: 700 mm)
2. Control unit type SCT iSMPS V1801 or V1800
3. Hand control unit with memory function

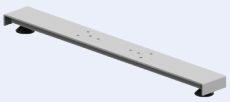


Accessories for electrical systems

Art. No.	Name	Description	Image
403228	Hinged adjustable foot D40 M10x25, electrically conductive	Consisting of: 1 x plastic hinged foot, electrically conductive, D39,2 mm 1 x anti-slip plate, electrically conductive 1 x galvanised steel threaded rod M10x25 mm 1 x hexagon nut M10 total load capacity 300 kg/foot	
501001	BSHub-GA-15G WZ	Consisting of: 2 x G-15G WZ 2 x G-15BS WZ 2 x M0610 WZ 4 x SI0508 8.8 4 x US05 Suitable for linear unit LA, LH 1 x BSHub per linear unit is required	
101530	Mounting plate A	Consisting of: 1 x mounting plate A, (30x70 mm, countersunk hole Ø5.8 mm 2 x SSI0512 Suitable for linear unit LA, LH Requires 2x mounting plate per linear unit	
101532	Mounting plate C	Consisting of: 1 x 90° angle, 50x50x32 mm, countersunk hole Ø5.8 mm 2 x SSI0512 Suitable for linear unit LA, LH Requires 2x mounting plate per linear unit	
401672	SYNC-2 cable SCT	The cable connects 2 SCT control units (spindle drive) with each other. This allows 2 lifting systems to be operated in parallel. Cable length 4 m	
116869	SCT/Compact motor extension cable	This cable can be used to extend the motor cable of the PXD drives or the spindle lifting systems. Cable length 1.2 m. 2 cables are required to extend the PXD motor cable. Max. 5 extension cables in series. Application: Hydraulic systems with electric drive, spindle lifting systems with Compact and SCT controls	
402477	Hand switch SCT Memory T6	In addition to the up and down function, up to 3 different memory positions can be saved and approached with the SCT Memory T6 manual switch. Cable length: 2000 mm, Application: Systems with SCT control units	
601091	Extension cable hand switch SCT	Extension cable for SCT iSMPS hand switch. Manual switches can be extended with this cable. Cable length 1 m. Max. 3 extension cables per hand switch. Application: Screw jack systems with SCT iSMPS controls	
402612	Power cable for Switzerland	Two-pole power cable with Swiss power plug, voltage 230V, plug type SEV 1011, cable length: 3000 mm, application: systems with compact or SCT control units	
600119	Spare battery 10A, 24V	Exchangeable battery 10A/24V, compatible with Hubset 11.0 and 12.0	
606208	Charger for battery 10A, 24V	The charger can be used to charge the 10A rechargeable battery. Compatible with Hubset 11.0 and 12.0	

Art. No.	Name	Description	Image
NEW 615761	Holder for 10A rechargeable battery	The mounting bracket is required for fixing to the construction. The exchangeable battery can be snapped into the holder and is connected to the control unit via a cable.	
NEW 401368	EU power cable	Two-pole power cable with European power plug, voltage 230 V, plug type CEE 7/7, cable length: 3000 mm, application: systems with compac- control units	
602072	SCT4 iSMPS 230V V1801 control unit	Control unit for spindle lifting system SLA 1330, supply voltage 230 V, standby power < 0.5 W, connection for cable remote control, 4 motor connections, parallel operation possible via SYNC cable, software version V1801 → for lifting set 9.3	
604339	SCT4 iSMPS 230V V1800 control unit	Control unit for spindle lifting system SLA 1340, supply voltage 230 V, standby power < 0.5 W, connection for cable remote control, 1 - 4 motor connections, parallel operation possible via SYNC cable, software version V1800 → for lifting set 10.3	
NEW 615767	SCT4 iMPS 24V V1891 control unit	Control unit for spindle lifting system SLA/SLG 1330, supply voltage 230 V, standby power < 0.5 W, connection for cable remote control, 1 - 4 motor connections, software version V1891 → for lifting set 11	
NEW 615772	SCT4 iMPS 24V V1890 control unit	Control unit for spindle lifting system SLA /SLG 1340, supply voltage 230 V, standby power < 0.5 W, connection for cable remote control, 1 - 4 motor connections, software version V1890 → for lifting set 12	
NEW 613434	Control set SCT4 BATTERY V1891	Control set consisting of control unit SCT4 iMPS 24V with software version V1891, power cable 3 m, cable remote control SCT Memory T6, holder for exchangeable battery, exchangeable battery 24V A10, charging station for exchangeable battery	
NEW 613435	Control set SCT4 BATTERY V1890	Control set consisting of control unit SCT4 iMPS 24V with software version V1890, power cable 3 m, cable remote control SCT Memory T6, holder for exchangeable battery, exchangeable battery 24V A10, charging station for exchangeable battery	

Accessories for SK electrical systems (lifting set 20)

Art. No.	Name	Description	Image
NEW 609464	SCT2 iSMPS 230V V1400 control unit	Control unit for spindle lifting system SL/SK 1340, supply voltage 230 V, connection for cable remote control, 2 motor connections, parallel operation possible via SYNC cable, software version V1400 --> for lifting set 20	
NEW 609521	SCT4 iSMPS 230V V1400 control unit	Control unit for spindle lifting system SL/SK 1340, supply voltage 230 V, connection for cable remote control, 4 motor connections, parallel operation possible via SYNC cable, software version V1400 --> for up to max. 4 x SK lifting pillars	
NEW 401368	EU power cable	Two-pole power cable with European power plug, voltage 230 V, plug type CEE 7/7, cable length: 3000 mm, application: systems with compac- control units	
402612	Power cable for Switzerland	Two-pole power cable with Swiss power plug, voltage 230V, plug type SEV 1011, cable length: 3000 mm, application: systems with compact or SCT control units	
401672	SYNC-2 cable SCT	The cable connects 2 SCT control units (spindle drive) with each other. This allows 2 lifting systems to be operated in parallel. Cable length 4 m	
116869	SCT/Compact motor extension cable	This cable can be used to extend the motor cable of the PXD drives or the spindle lifting systems. Cable length 1.2 m. 2 cables are required to extend the PXD motor cable. Max. 5 extension cables in series. Application: Hydraulic systems with electric drive, spindle lifting systems with Compact and SCT controls	
402477	Hand switch SCT Memory T6	In addition to the up and down function, up to 3 different memory positions can be saved and approached with the SCT Memory T6 manual switch. Cable length: 2000 mm, Application: Systems with SCT control units	
601091	Extension cable hand switch SCT	Extension cable for SCT iSMPS hand switch. Manual switches can be extended with this cable. Cable length 1 m. Max. 3 extension cables per hand switch. Application: Screw jack systems with SCT iSMPS controls	
NEW 609466	Table base SL/SK/TL/TT 680 complete	Length: 680mm, width: 80mm consisting of: 1x table base SL/SK/TL/TT 68, 2x adjusting feet M10x25	
NEW 609519	Telescopic traverse T8 900-1550 - 90°	The crossbar is for the SL/SK lifting pillars and can be extended from a length of 900 - 1550 mm.	

Electric lifting sets HL

- Complete solution with all parts required for the lifting system
- Lifting pillar only raises the table top, the base frame remains stationary
- Expandable with battery pack, can therefore be operated without a fixed power connection

Hubset 30.0 Electric lifting set

NEW
4 Lifting pillar
300 mm Lifting height
320 kg max. total load capacity

608749

Consists of:
- 4 x DL5 lifting pillar (445 mm installation height)
- 1 x control unit
- 1 x control panel with memory
- 4 x cable for lifting pillar (1000 mm)
- 1 x connecting cable (2000 mm)
- 4 x BSHub-AU-small (mounting kit on 28 mm pround pipe)
- Lifting speed: 38 mm/s
- Switch-on time: 10%

Hubset 31.0 Electric lifting set

NEW
2 Lifting pillar
300 mm Lifting height
160 kg max. total load capacity

608751

Consists of:
- 2 x DL5 lifting pillar (445 mm installation height)
- 1 x control unit
- 1 x control panel with memory
- 2 x cable for lifting pillar (1000 mm)
- 1 x connecting cable (2000 mm)
- 2 x BSHub-AU-small (mounting kit on 28 mm pround pipe)
- Lifting speed: 38 mm/s
- Switch-on time: 10%

Hubset 32.0 Electric lifting set

NEW
4 Lifting pillar
500 mm Lifting height
320 kg max. total load capacity

608752

Consists of:
- 4 x DL5 lifting pillar (645 mm installation height)
- 1 x control unit
- 1 x control panel with memory
- 4 x cable for lifting pillar (1000 mm)
- 1 x connecting cable (2000 mm)
- 4 x BSHub-AU-small (mounting kit on 28 mm pround pipe)
- Lifting speed: 38 mm/s
- Switch-on time: 10%

Hubset 33.0 Electric lifting set

NEW
2 Lifting pillar
500 mm Lifting height
160 kg max. total load capacity

608753

Consists of:
- 2 x DL5 lifting pillar (645 mm installation height)
- 1 x control unit
- 1 x control panel with memory
- 2 x cable for lifting pillar (1000 mm)
- 1 x connecting cable (2000 mm)
- 2 x BSHub-AU-small (mounting kit on 28 mm pround pipe)
- Lifting speed: 38 mm/s
- Switch-on time: 10%

Hubset 34.0 Electric lifting set

NEW
4 Lifting pillar
650 mm Lifting height
320 kg max. total load capacity

608754

Consists of:
- 4 x Lifting pillar DL6 (560 mm Installation height)
- 1 x control unit
- 1 x control panel with memory
- 4 x cable for lifting pillar (1000 mm)
- 1 x connecting cable (2000 mm)
- 4 x BSHub-AU-small (mounting kit on 28 mm pround pipe)
- Lifting speed: 38 mm/s
- Switch-on time: 10%

Hubset 35.0 Electric lifting set

NEW
4 Lifting pillar
650 mm Lifting height
480 kg max. total load capacity

608755

Consists of:
- 4 x Lifting pillar DL6 (560 mm Installation height)
- 1 x control unit
- 1 x control panel with memory
- 4 x cable for lifting pillar (1000 mm)
- 1 x connecting cable (2000 mm)
- 2 x BSHub-AU-small (mounting kit on 28 mm pround pipe)
- Lifting speed: 23 mm/s
- Switch-on time: 10%

Hubset 36.0 Electric lifting set

NEW
4 Lifting pillar
650 mm Lifting height
320 kg max. total load capacity

608756

Consists of:
- 4 x Lifting pillar DL6 (560 mm Installation height)
- 1 x control unit
- 1 x control panel with memory
- 1 x Rechargeable battery pack
- 1 x Gleichstromkabel (200 mm)
- 4 x cable for lifting pillar (1000 mm)
- 1 x connecting cable (2000 mm)
- 4 x BSHub-AU-small (mounting kit on 28 mm pround pipe)
- Lifting speed: 38 mm/s
- Switch-on time: 10%

Hubset 37.0 Mono Electric lifting set

NEW
1 Mono Lifting pillar
650 mm Lifting height
400 kg max. total load capacity

612009

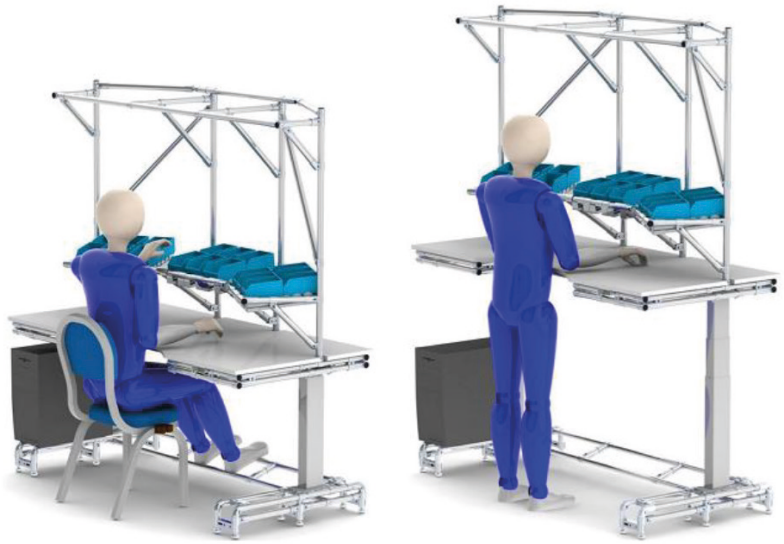
Consists of:
- 1 x Mono-Lifting pillar 175 x 140 mm (584 mm Installation height)
- 1 x LC1DK (Telescopic lift 3-piece) with base and top plate
- 1 x Control system CBD6S
- 1 x Control panel DPF
- All cables
- Lifting speed: 18 mm/s
- Switch-on time: 10%

Accessories for electric lift sets

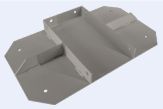
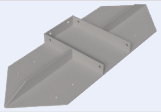
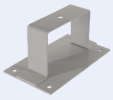
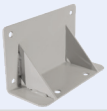
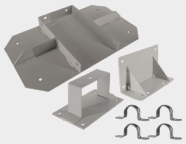
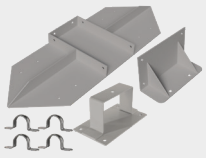
Art. No.	Name	Description	Image
NEW 608278	Control DP1CS	Control panel with memory function. 3 memory positions, display with white LEDs. Colour black (RAL9005). Cable length 1700 mm.	
NEW 608279	Control DPF1C	Control panel. Up and down movement, display with white LEDs, colour black (RAL9005), cable length 1700 mm	
NEW 608720	Mounting bracket for DPF1C	Mounting bracket for DPF1C, 90°, no distance to the table top. Control panel is snapped onto the fitting.	
NEW 608284	CBD6S-200W	Control unit for 1 or 2 pillars, incl. switching power supply. Power supply: 230V AC, 50Hz or 120V AC, 60Hz. Dimensions: 210 x 96 x 38 mm (LxWxH), weight: approx. 400g, colour black, without cable	
NEW 608285	CBD6S-300W	Control unit for 2, 3 or 4 pillars, power supply: 100-240V AC, 50-60Hz (universal), dimensions: 265 x 96 x 38 mm (LxWxH), weight: approx. 500g, colour: black	
NEW 608286	Cable lifting pillar	Connecting cable from lifting pillar to control unit, cable length: 500 mm, colour: black (RAL9005), required per system: 2 or 4 (1 per lifting pillar)	
NEW 608287	Cable lifting pillar	Connecting cable from lifting pillar to control unit, cable length: 1000 mm, colour: black (RAL9005), required per system: 2 or 4 (1 per lifting pillar)	
NEW 608288	Cable lifting pillar	Connecting cable from lifting pillar to control unit, cable length: 2000 mm, colour: black (RAL9005), required per system: 2 or 4 (1 per lifting pillar)	
NEW 608289	Connecting cable	Cable length: 2000 mm, colour: black (RAL9005), 1 x required per system	
NEW 108891	IEC connecting cable Swiss standard type 13	IEC connecting cable NKSK CH 500, type: appliance cable, version: with earthing contact plug, CH, colour: black, cable length: 5000mm, load limit: 6A, cable cross-section: 3x 0.75mm², connection: IEC-60320 C13	
NEW 608290	BA001	Rechargeable battery box, colour: black, battery capacity: 2.15 Ah/52 Wh, rated voltage: 24 V DC; discharge current: 9 A (max.); maximum charging voltage: 40 V DC; charging current: 0.5 A; weight: 600 g; incl. mounting bracket for easy mounting/dismounting when charging is required. The rechargeable battery is also charged via the control unit when it is supplied with 230 V	
NEW 608291	DC cable	DC cable for connecting a CBD6S control unit to the BA001 rechargeable battery pack, 2-pin with straight minifit connector at both ends, length: 200 mm	
NEW 608292	SMPS006	External switched-mode power supply unit for charging the rechargeable battery box BA001, EU connection cable and DC cable (608291) must be ordered separately if required.	
NEW 608723	Power cable for SMPS006	Straight power cable with EU plug, length: 3000 mm	
NEW 611589	Serial cable for multi-parallel operation	Serial cable for parallel operation of two CBD6S control units, length: 2000 mm	
NEW 611593	Programming cable	Programming cable for CBD6S control unit with serial and USB plug, length: approx. 2000 mm. The Desk Control Basic software is also required	
NEW 611609	Desk Sensor 1	The Desk Sensor 1 (DS1) is an anti-collision solution that can prevent serious damage to desks and objects caused by collisions during desk movement. It detects a tilt of the table top as well as hard and soft obstacles. It is a small, compact plug-in device that can be easily plugged into the table systems on either the CBD6S controller or the DL lifting pillars.	

Lifting pillars HL

Art. No.	Name	Description	Image
NEW 608280	DL5-300 mm - 800N	Two-part lifting pillar, max. Speed (unloaded): 38mm/s, Max. Load (per column): 800N, Pillar dimensions: 50 x 80 mm, Spindle type: 20 mm pitch, Mounting bracket: 120 x 40 x 8mm with 2 x M8, Colour: White aluminium (RAL 9006), Stroke length: 300 mm, Installation dimension: 450 mm, Weight: 6.5 kg	
NEW 608281	DL5-500 mm - 800N	Two-part lifting pillar, max. Speed (unloaded): 38mm/s, Max. Load (per column): 800N, Pillar dimensions: 50 x 80 mm, Spindle type: 20 mm pitch, Mounting bracket: 120 x 40 x 8mm with 2 x M8, Colour: White aluminium (RAL 9006), Stroke length: 500 mm, Installation dimension: 645 mm, Weight: 6.5 kg	
NEW 608282	DL6-650 mm - 800N	Three-part lifting pillar, max. Speed (unloaded): 38mm/s, Max. Load (per column): 800N, Pillar dimensions: 50 x 80 mm, Spindle type: 20 mm pitch, Mounting bracket: 120 x 40 x 8mm with 2 x M8, Colour: White aluminium (RAL 9006), Stroke length: 650 mm, Installation dimension: 560 mm, Weight: 7.5 kg	
NEW 608283	DL6-650 mm - 1200N	Three-part lifting pillar, max. Speed (unloaded): 23mm/s, Max. Load (per column): 1200N, Pillar dimensions: 50 x 80 mm, Spindle type: 12 mm pitch, Mounting bracket: 120 x 40 x 8mm with 2 x M8, Colour: White aluminium (RAL 9006), Stroke length: 650 mm, Installation dimension: 560 mm, Weight: 7.5 kg	



Mounting material HL

Art. No.	Name	Description	Image
NEW 608293	AU-TPS	For DL5/6 series, mounting table top top small, sheet steel, thickness: 2 mm, colour: light grey (RAL7035)	
NEW 608294	AU-TPB	For DL5/6 series, large table top mount, sheet steel, thickness: 2 mm, colour: light grey (RAL7035)	
NEW 608295	AU-HS-top	For DL5/6 series, top mounting of lifting pillar, sheet steel, thickness: 2 mm, colour: light grey (RAL7035), mounting round tube with PC-CN (100004) and BS HKP 5 mm (BC000175)	
NEW 608296	AU-HS-bottom	For DL5/6 series, bottom mounting of lifting pillar, sheet steel, thickness: 2 mm, colour: light grey (RAL7035), mounting round pipe with PC-CN (100004) and BS HKP 5 mm (BC000175)	
NEW 608745	BSHub-AU-small	Small mounting kit for adapting the DL5/6 series to our 28 mm round pipe, consisting of: 1x AU-TPS (608293) incl. 6x SI0612 (110149), 4x SSPP4016 (124403) 1x AU-HS top (608295) incl. 2x PC-CN (100004), 4x SLI0512 (111196), 4x M05 (110141), 4x US05 (101847), 1x SLI0812 10.9 (118592) 1x AU-HS-bottom (608296) incl. 2x PC-CN (100004), 4x SLI0512 (111196), 4x M05 (110141), 4x US05 (101847), 2x SI0612 (110149)	
NEW 608746	BSHub-AU-large	Large mounting kit for adapting the DL5/6 series to our 28 mm round pipe, consisting of: 1x AU-TPB (608294) incl. 6x SI0612 (110149), 8x SSPP4016 (124403) 1x AU-HS top (608295) incl. 2x PC-CN (100004), 4x SLI0512 (111196), 4x M05 (110141), 4x US05 (101847), 1x SLI0812 10.9 (118592) 1x AU-HS-bottom (608296) incl. 2x PC-CN (100004), 4x SLI0512 (111196), 4x M05 (110141), 4x US05 (101847), 2x SI0612 (110149)	

Height-adjustable desk
ERGOLevel

ERGOLevel

- Desk with adjustable height
- In three different widths
- Frame colour in graphite black
- Max. load 80 kg
- Special construction on request

7 reasons for a height-adjustable desk

1. The cardiovascular system is sufficiently trained.
2. Stimulates the metabolism and increases concentration and performance.
3. Avoiding muscle loss and bone loss.
4. Less headaches and muscle tension in the back and neck due to adequate blood flow.
5. The standing-seat-variety increases your motivation.
6. Prevention of chronic diseases (e. g. diabetes), obesity and depression.
7. Improving the quality of life in the office and increased life expectancy.

Depth	**800 mm**
Table width	**Art. No.**
1400 mm	For further details please see the catalogue **„Office. Laboratory. Education 3.2“.**
1600 mm	
1800 mm	

SPACE FOR NOTES

LIGHTING

Lighting

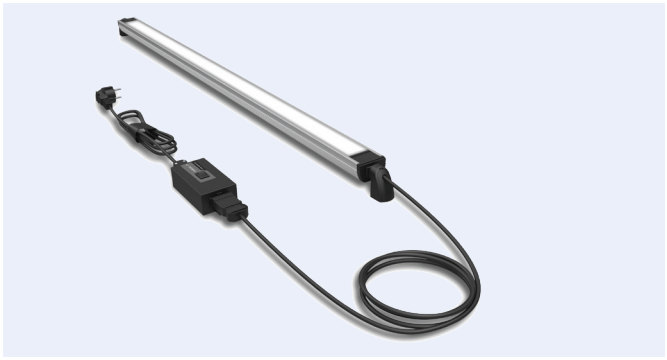
BEEWATEC LED 272

Lighting of industrial workplaces

The lighting of industrial workplaces must satisfy many requirements and must consider the safety and health of workers. Providing the right ligtht will increase the concentration and the wok quality.

Proved in numerous studies, a good lighting of industrial workplaces ensure better motivation and high commitment. The employees stay mentally fit and feel less tired.

The increased concentration capability leads to a better work quality, errors are reduced and the risk of industrial accidents is reduced.



Important parameters / units

Illuminance

- Illuminance, measured in LUX (lx) is the luminous flux from a light source falling on a surface of one square metre.

  Emax@1m = 100 lx is where an area of one square metre is uniformly illuminated by 100 lumen of luminous flux.

Colour temperature

- Indicates in degrees Kelvin, if the light source emits warm white light or cold white light.
- Warm white light: less than 3300 K (e. g. 60 Watt light bulb: 2700 K), cold white light: more than 5000 K (e. g. sunlight).
- Between 3300 K and 5000 K light is called neutral white.

Colour rendering index (Ra)

- Shows how the light reproduces the colours (perfect colour reproduction: Ra=100).
- Light bulbs reach about 100, energy-saving lamps 50-90 and LEDs up to 97.
- The colour rendering index in the EU shall be at least 80 within the EU.

UGR (Unified glare rating)

- The unified glare rating method evaluates the glare produced by the entire lighting system and is uniformly defined worldwide.
- For different applications maximum values apply, for office workspaces the UGR may not be more than 19.

Luminance (L)

- Luminance is the brightness of an illuminated or luminous surface as perceived by the human eye and is measured in candelas per unit area /cd/m2).
- This has an effect on visual performance and visual comfort.
- An increase in the luminance improves the visual acuity, contrast sensitivity and and improves the eye function.

Uniformity of illuminance (Uo)

- The uniformity of illuminance within a defined area is calculated by dividing Emin/Em of the minimum and average illuminance.

The BEEWATEC LED supports the visual performance at industrial workplaces

DIN EN 12464-1 makes a distinction between the area in which the visual task is carried out at a workplace and the area immediately surrounding it. What kind of ligthing system is installed primarily depends on the room height and the visual task performed by the workplace.

Concentrating lighting on the area where work is performed can reduce investment and energy costs, but it carries the risk of inferior lighting quality. This may be the case, for example, if the area where work is performed and less brightly illuminted surrounding areas lie so close together that the luminance distribution in the visual field is not well-balanced. The visual task area must be determined carefully.

If additional lighting is needed at individual workplaces, workplace lamps can be used. Higher levels of illuminance when working with small components or during check-operations are rarely illuminated spatially, but almost always with additional workplace lamps, this light is related to the visual task area.

Recommended DIN EN 12464-1 brightness levels for industrial workspaces

Area of activity	Em (lx):	UGR:	Uo:	Ra:
Assembly work	300	25	0,60	>80
Assembly work with average details	500	22	0,60	>80
Assembly work with fine details	750	19	0,60	>80
Assembly work with very fine details	1000	16	0,70	>80
Electronics workshop, testing, adjustment	1500	16	0,70	>80

Energy-efficient light

Additionally to the quality of a lighting system you have to take into account its economic efficiency. Lamps with high illuminance, electronic control gear, integrating available daylight and light management ensure energyefficient light production and reduce CO_2 emission.

Saving costs by using LED technology

Replacing old plants by modern, state-of-the-art lighting technology will save money after a short amortization period: the older the system to be replaced is, the higher the energy saving and the cost saving will be.

Improve work quality

When surfaces are checked for defects and irregularities, the human eye has an unmatched ability despite of intelligent machines, but optimum environmental conditions are required.

The right light in the right amount at the right place and time is essential.

Light control with the turn function

The pivotable BeeLED workplace lamps are specifically tailored to the demanding visual tasks in a laboratory, at assembly workstations and at workplaces in the electronics production. With a turn function (180°) the light can be pointed to a specific area of activity of the workplace.

BEEWATEC LED

- High durability; homogeneous and ergonomic light
- Energy saving
- Robust aluminium housing
- Rotatable light - the lighting demand can be oriented to the work requirements
- With different connecting and mounting options

BEEWATECLED
Feel the light, BEE the light

Connecting options

230 volt direct connection via shockproof plug

Versions:

- BEEWATEC LED SE fixed
- BEEWATEC LED
- BEEWATEC LED Multi S

Mounting options

Fixed on one side. Lateral assembly on aluminium profiles

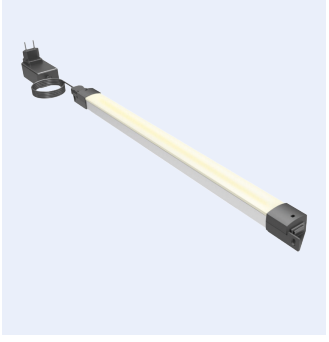
Versions:

- BEEWATEC LED SE lateral

Protection against electrostatic discharge

Versions:

- BEEWATEC LED SE fixed / lateral
- BEEWATEC LED SE rotatable



Integrated fixed mounting brackets for easy attachment

Variations:

- BEEWATEC SlimLED

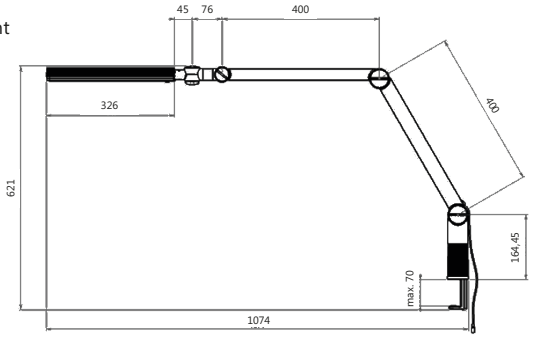
BEEWATEC LED SE rotatable

- Rotatable light
- External control unit with on/off switch
- Saves the last brightness set
- External dimmbale via Dimmbox
- Connecting cable 3 m to dim unit and 1,5 m connection cable to shockproof plug

Art. No.	Name	Operating mode	Power	Current	Colour temperature	Luminoux lux	Illumination	Dimensions (LxWxH)	Weight	Protection class
131717	BEEWATEC LED SE rotatable 1140	230 V~	13 W	0,08 A	4000 K	1331 lm	557 Lux from distance 1 m	535x51x51mm	0,95 kg	I/IP30
402210	BEEWATEC LED SE rotatable 1140 ESD					954 lm	531 Lux from distance 1 m			
131718	BEEWATEC LED SE rotatable 3140		21 W	0,1 A		2158 lm	903 Lux from distance 1 m	661x51x51mm	1,15 kg	
402211	BEEWATEC LED SE rotatable 3140 ESD					1547 lm	861 Lux from distance 1 m			
131719	BEEWATEC LED SE rotatable 4140		32 W	0,15 A		3368 lm	1409 Lux from distance 1 m	976x51x51mm	1,54 kg	
402212	BEEWATEC LED SE rotatable 4140 ESD					2415 lm	1345 Lux from distance 1 m			
130124	BEEWATEC LED SE rotatable 5140		40 W	0,2 A		4400 lm	1841 Lux from distance 1 m	1171x51x51mm	2 kg	
402213	BEEWATEC LED SE rotatable 5140 ESD					3156 lm	1856 Lux from distance 1 m			

BEEWATEC FlexLED... Adjustable arm light for interior use

- Flexible LED workstation light to direct the light
- Simple mounting via table clamp
- Very high service life
- Saves the last brightness set
- Via multi-function switch
- Via power supply unit



Art. No.	Name	Operating mode	Power	Colour temperature	Luminoux lux	Illumination	Dimensions (LxWxH)	Weight	Protection class
402160	BEEWATEC FlexLED 1740	220...240 V (AC)	17 W	4000 K	1510 lm	2480 Lux from distance 0,5 m	1070x52x550mm	1,66 kg	I/IP30
402223	BEEWATEC FlexLED 1757			5700 K				1,66 kg	

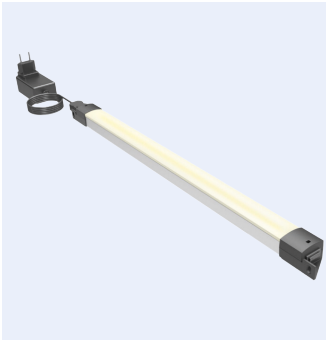
BEEWATEC WorkLED SE Duo... Daylight lamp

- LED workplace lights
- Integrated control gear
- Very high service life (about 50.000 hours)
- Saves the last brightness set
- Via multifunction push-button

Art. no	Name	Operating mode	Power	Colour temperature	Luminoux lux	Illumination	Dimensions (LxWxH)	Weight	Protection class
402026	BEEWATEC WorkLED SE Duo 3040	230 V~	42 W	2700 ... 6500 K	4518 lm	1847 Lux from distance 1 m	614x121x42,5mm	1,37 kg	I/IP30
402027	BEEWATEC WorkLED SE Duo 4040		63 W		6968 lm	2848 Lux from distance 1 m	900x121x42,5mm	1,88 kg	

Features Dimmable Connector

BEEWATEC SlimLED



- Simple and bright LED task light
- Slim aluminium luminaire housing with plastic caps with integrated screw-on bracket
- Dimmable via push-button on the light
- Connection cable 4 m with separate plug-in power supply unit (included)

Art. No.	Name	Operating mode	Power	Current	Colour temperature	Luminoux lux	Illumination	Dimensions (LxWxH)	Weight	Protection class
403605	BEEWATEC LED SlimLED 0840	230V~/24V DC	23 W	0,15 A	4100 K	2273 lm	923 Lux from distance 1 m	889 x 32 x 26 mm	0,344 kg	III/IP20
403606	BEEWATEC LED SlimLED 1040		29 W	0,15 A		2845 lm	1139 Lux from distance 1 m	1089 x 32 x 26 mm	0,420 kg	

BEEWATEC LED SE rotable

- Rotatable light and long service life (about 50.000 hours)
- Integrated operating unit
- Saves the last brightness set
- Via multifunction push-button
- Connection cable 4 m with shockproof plug

Art. No.	Name	Operating mode	Power	Current	Colour temperature	Luminoux lux	Illumination	Dimensions (LxWxH)	Weight	Protection class
130065	BEEWATEC LED SE rotatable 1040	230 V~	13 W	0,08 A	4000 K	1331 lm	557 Lux from distance 1 m	535x51x51mm	0,83 kg	I/IP30
130067	BEEWATEC LED SE rotatable 1040 ESD					954 lm	531 Lux from distance 1 m			
130069	BEEWATEC LED SE rotatable 3040		21 W	0,1 A		2158 lm	903 Lux from distance 1 m	661x51x51mm	0,95 kg	
130070	BEEWATEC LED SE rotatable 3040 ESD					1547 lm	861 Lux from distance 1 m			
130071	BEEWATEC LED SE rotatable 4040		32 W	0,15 A		3368 lm	1409 Lux from distance 1 m	976x51x51mm	1,24 kg	
130072	BEEWATEC LED SE rotatable 4040 ESD					2415 lm	1345 Lux from distance 1 m			
130073	BEEWATEC LED SE rotatable 5040		40 W	0,2 A		4400 lm	1841 Lux from distance 1 m	1171x51x51mm	1,42 kg	
130074	BEEWATEC LED SE rotatable 5040 ESD					3156 lm	1756 Lux from distance 1 m			

BEEWATEC LED SE fixed

- Integrated operating unit
- Saves the last brightness set
- Via multifunction push-button
- Connection cable 4 m with shockproof plug

Art.-No.	Name	ESD	Operating mode	Power	Current	Colour temperature	Luminoux lu	Illumination	Dimensions (LxWxH)	Weight	Protection class
130091	BEEWATEC LED SE fixed 3040		230 V~	21 W	0,08 A	4000 K	2158 lm	903 Lux im Abstand 1 m	627x51x38mm	0,54 kg	I/IP30

Features Dimmable Connector

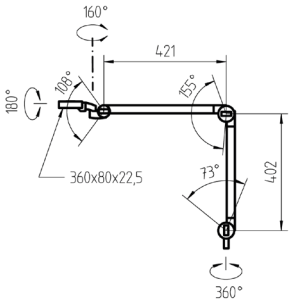
BEEWATEC LED SE lateral

- Rotatable light and long service life (about 50.000 hours)
- Integrated operating unit
- Saves the last brightness set
- Via multifunction push-button
- Connection cable 4 m with shockproof plug

Art. No.	Name	Operating mode	Power	Current	Colour temperature	Luminoux lux	Illumination	Dimensions (LxWxH)	Weight	Protection class
130083	BEEWATEC LED SE lateral 1040	230 V~	13 W	0,08 A	4000 K	1331 lm	557 Lux from distance 1 m	465x51x65mm	0,64 kg	I/IP30
130085	BEEWATEC LED SE lateral 1040 ESD					954 lm	531 Lux from distance 1 m			

ALD 1300/850/D Universal lamp

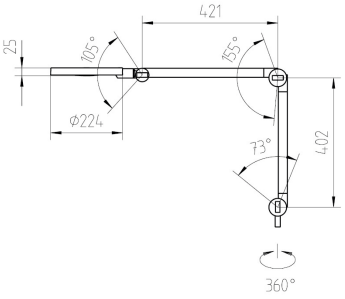
- LED boom light
- Power supply cable 3.20 m
- Multifunction button
- Save the set brightness
- Mounting by means of a plinth



Art. No.	Name	Operating mode	Power	Colour temperature	Luminous flux	Weight	Protection class
608486	Universal lamp	100-240 V	16 W	5000 K	1250 lm	1,9 kg	I/IP20

MLD 750/850/D Magnifier light

- LED magnifier light
- Power supply cable 3.20 m
- Multifunction button
- Save the set brightness
- Mounting by means of a plinth



Art. No.	Name	Operating mode	Power	Colour temperature	Luminous flux	Weight	Protection class
608485	Magnifier light	100-240 V	11 W	5000 K	800 lm	2,5 kg	I/IP20

Features Dimmable Connector

SPACE FOR NOTES

ADDITIONAL ACCESSORIES

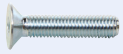
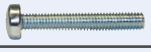
Additional accessories

Fastening materials 280
General accessories 282

Mounting materials

Mounting materials

- Bolts of all kinds for all concerns
- Nuts (hexagonal nut, nuts for T-slots, hammer-head nut, collar nut)
- Washers / cover plate
- Slot adapter
- T-slot nuts

Mounting materials	Art. No.	Name	Description	Thread type	Length | Height | Ø	Material
	109749	SA0645	Hexagon head bolt for pipe on MC	M6	Length: 45 mm	Galvanised
	124083	GM815	Hexagon head bolt	M8	Length: 15 mm	
	101854	SA0825	Hexagon head bolt for castors on MC		Length: 25 mm	
	109797	SA0830	Hexagon head bolt for castor mount		Length: 30 mm	
	100250	SA0835	Hexagon head bolt for fastening metal		Length: 35 mm	
	100267	SA0840	Hexagon head bolt for wheel kit		Length: 40 mm	
	100251	SA0850	Hexagon head bolt		Length: 50 mm	
	101658	SA0865	Hexagon head bolt for corner piece for square pipe		Length: 65 mm	
	109750	SA1025	Hexagon head bolt for castors on MC	M10	Length: 25 mm	
	100249	SA1225	Hexagon head bolt	M12	Length: 25 mm	
	100253	SA1-232	Hexagon head bolt	1/2"x32		Galvanised
	100246	M0610	Socket head cap bolt for steel joints	M6	Length: 10 mm	BK
	100255	M0625			Length: 25 mm	
	100266	M0630			Length: 30 mm	
	114337	M0610			Length: 10 mm	WZ
	117731	M0620			Length: 20 mm	
	114319	M0625			Length: 25 mm	
	116362	M0630			Length: 30 mm	
	110149	SI0612	Socket head cap bolt (DIN 912) for mounting part	M6	Length: 12 mm	Galvanised
	100248	SI1030	Socket head cap bolt (DIN 912) for castors on BS	M10	Length: 30 mm	
	110171	SI1230		M12	Length: 30 mm	
NEW	110159	SI0820	Hexagon socket head cap screw (DIN 912), steel 8.8	M8	Length: 20 mm	Galvanised
	112733	SI0830			Length: 30 mm	
	112028	SI0840			Length: 40 mm	
	130864	SSI0515	Countersunk screw with hex socket	M5	Length: 15 mm	Galvanised
	101849	SSI0516	Countersunk bolt DIN 7991 for 5 mm structure-core panel		Length: 16 mm	
	110122	SSI0520	Countersunk bolt DIN 7991 for 10 mm structure-core panel		Length: 20 mm	
	109752	SSP4020	Countersunk bolt 800 for GAP-23	M4	Length: 20 mm	Galvanised
	112697	SSPP4520	Self-tapping drill bolt type 801 for panels 19 mm	Nominal-Ø 4.5 mm	Length: 20 mm	Galvanised
	112486	SSPP4525	Self-tapping drill bolt type 801 for panels 26 mm		Length: 25 mm	
	110127	SSPP5020	Self-tapping drill bolt type 801 for panels 19 mm	Nominal-Ø 5.0 mm	Length: 20 mm	
	109762	SB3916	Self-tapping drill bolt type "N" for mounting to the pipe	Nominal-Ø 3.9 mm	Length: 16 mm	Galvanised
	109763	SB4816		Nominal-Ø 4,8 mm		
	109751	SGF0412	Thread rolling bolt type DIN 7500 C with taptite 2000, thread, flat head and hexalobular	M4 Head-Ø 8.0 mm	Length: 12 mm	Galvanised
	111311	SLK0320	Filister head bolt DIN 7985 for GAP-23	M3	Length: 20 mm	Galvanised
	126420		Hammer-head screw M8x25	M8	Length: 25 mm	Galvanised
	126419		Hammer-head screw M8x20		Length: 20 mm	
	126418		Hammer-head screw M8x16		Length: 16 mm	
	401005	HM0615	Bolt with star knob	M6	Length: 15 mm	Galvanised
	100548	HM0620			Length: 20 mm	
NEW	615349		Hook screw with metric thread M8	M8	Length: 80 mm	Stainless steel
	109753	M06	Hexagonal nut DIN EN 24032	M6	Height: 5,0 mm	Galvanised
	109754	M08		M8	Height: 6,5 mm	
	109755	M10		M10	Height: 8,0 mm	
	109756	M12		M12	Height: 10,0 mm	
	100270	M1-2		1/2''-12N		
	119380	N06-55	Hexagonal nut ISO 4032 for aluminium joints	M6	Height: 5,2 mm	Galvanised

Mounting materials	Art. No.	Name	Description	Thread type	Length | Height | Ø	Material
	101855	MS05	Hexagonal safety lock bolt DIN 982	M5	Length: 5 mm	Galvanised
	100244	MS06		M6	Length: 6 mm	
	100242	MS08		M8		
	100243	MS10		M10	Length: 10 mm	
	100256	TN06 W	Nut for T-slots and steel joints			WZ
	100257	TN06 BK				BK
	110140	M03	Nut DIN 934 für GAP-23	M6	Height: 2.4 mm	Galvanised
	126585		Hammer-head nut 10 for tener slot	M6	Web: 3 mm	Galvanised
	126423			M8		
	126425		Collar nut M8	M8		Galvanised
	100239	FR10	Spring washers with rectangular cross section form B, DIN 127	M10	In Ø: 8.1 mm | Out Ø: 14.8 mm Height: 4 mm | Thickness: 2 mm	Galvanised
	101847	US05	Flat washer DIN 125 (Hardness 140HV)	M5	In Ø: 8.3 mm | Out Ø: 10 mm Thickness: 1 mm	Galvanised
	109758	US06		M6	In Ø: 6.4 mm | Out Ø: 12 mm Thickness: 1.6 mm	
	101846	US08		M8	In Ø: 8.4 mm | Out Ø: 16 mm Thickness: 1.6 mm	
	100240	US10		M10	In Ø: 10,5 mm | Out Ø: 20 mm Thickness: 2 mm	
	109757	US12		M12	In Ø: 13 mm | Out Ø: 24 mm Thickness: 2,5 mm	
	109788	USG05	Cover plate DIN 9021	M5	In Ø: 5.3 mm | Out Ø: 15 mm Thickness: 1.2 mm	Galvanised
	109760	USG08		M8	In Ø: 8.4 mm | Out Ø: 24 mm Thickness: 2 mm	
	101851	USG10		M10	In Ø: 10.5 mm | Out Ø: 30 mm Thickness: 2.5 mm	
	130797	SA622A	T-slot nut made of aluminium	M6		Aluminium
	127413	SA822A		M8		
	126897	NST-10-M6	Swivelling T-slot nut with spring steel for tener groove	M6		Galvanised
	126427	NST-10-M8		M8		
	401292	NST-10-M4 F	Swivelling T-slot nut with spring ball and centering ring for tener groove	M4		Steel
	401293	NST-10-M5 F		M5		
	120262		Distance bush PA with radius D 24 mm		Inside drilling: 8.4 mm Radius: 12 mm Thickness: 24 mm	PA black
	126424		Thread form joint set 10, Profile type heavy			Galvanised

Set of mounting

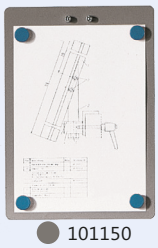
Art. No.	Name	Joint	Bolts, nuts, washers
109768	BS 9595	1 x Adjusting collar SF 9591	2 x Bolt M0610
116306	BS 9596-WZ	1 x Connection profile GA-15S-WZ	1 x Bolt M0610 1 x M06
112743	BS 9596-BK	1 x Connection profile GA-15S-BK	1 x Bolt M0610-BK 1 x M06
109770	BS 9597	1 x Clamp PC-C	2 x Bolt SLI0412 2 x M04 2 x US04
109771	BS 9598-Ni	2 x Connection profile GA-15S-Ni	2 x Countersunk bolt SSI0610 2 x M06
109772	BS 9599	1 x Adjusting collar SF 9591	2 x Countersunk bolt SSI0610 2 x M06
132924	BS-MFK-Alu	AT2829P as double pipe	2 x USG06 2 x MS0625 WZ
111727	BS 9527 BK	2 x GA-15S BK	2 x M0610 2 x Countersunk bolt SSI0510 2 x Countersunk bolt SSI0512 2 x USG05 2 x MS05

General accessories.

General accessories

- Various designs of pin boards
- Tool and cable holder
- Double socket
- Monitor and keyboard shelf
- Articulated Arms
- And many more...

PZ 9522 Pinboard



101150

- For DIN A4 documents
- WxH: 240x340mm
- Includes 4 magnets (color: blue)
- Mounting:
  1 x BS 9595 or
  2 x BS 9596

FS 9523 Pivoting sheet holder

127905

- Plans, item lists, assembly instructions and more can be stored in the 10 sheet folders
- Each holder can be removed individually
- Mounting Ø 28 mm:
  2 x BS 9596

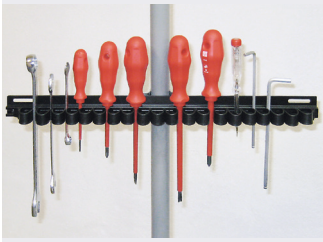
Clipboard

NEW

BK: 612910

- Clamp short side
- DIN A4
- Extra strong cardboard core
- Nickel-plated clamp mechanism
- incl. extendable hook eye

WH 9524 Tool holder



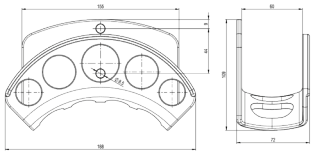
WZ: 101156

- Up to 19 tools can quickly and easily be attached to, and removed from elastic rubber ties
- Mounting:
  1 x BS 9595 or 1 x BS 9597

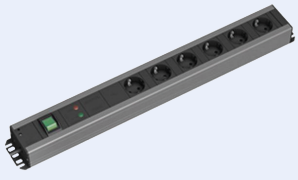
KH 9539 Cable holder

Aluminium: 114280

- With two holes for mounting with M8 bolts
- WxDxH: 210x65x125mm



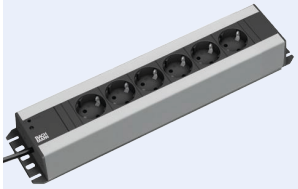
SL 9525 Power outlet strip with 6 sockets



401550

- With illuminated mains switch
- Includes 2.0 m lead
- Mounting with:
  115094 BS-SL-Ni,
  115093 BS-SL-BK or
  116307 BS-SL-WZ

SL 9520 6-socket power strip



401551

- without power switch
- 6 x socket outlets with earthing contact 90°
- 15 mm socket spacing
- Incl. 2.0 m supply cable
- Dimensions: 445 x 74 x 45 mm
- 19" installation possible

DS 9527 Double socket

101159

- With cord grip
- Without lead
- Mounting:
  1 x BS 9527

LS 9528 Light switch and socket

116277

- With cord grip
- Without lead
- Mounting:
  1 x BS 9527

MT 9706 Monitor rail

101103

- Range: about 105 mm
- Mounting:
  BS-MFK-Alu (Art. No. 132924)

Maximum load: 15 kg

NOVUS QuickMount

402905

- Particularly flat mounting of flat screens on the wall
- Simple monitor attachment thanks to QuickRelease
- Suitable for VESA standard 75/100
- Mounting of flat screens up to 25 kg
- Small space requirement: 20 mm

QuickRelease VESA

401190

- Quick monitor change
- Installation material included
- suitable for:
  Novus MY fix
  Novus MY arm
  Novus SKY arm
  Novus TSS Monitor holder

NOVUS SKY WallMount

402904

- Robust metal wall bracket (depending on the condition of the wall)
- Simple monitor attachment thanks to QuickRelease
- Suitable for VESA standard 75/100
- Rotatable and tiltable
- Mounting of flat screens up to 10 kg
- Small wall distance: 125 mm

TH 9712 Flat screen holder

117381

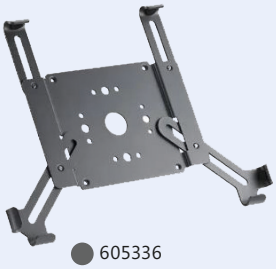
- Holder for tablets from 7 to 10“
- Clamping width: 160 - 300 mm
- Tablet can be inserted flat or horizontally
- for plugging on:
  Monitor support carriage MT 9706 or monitor folding arms MF 9705 and MF 9707

Tischhalterung für Tablet

131152

- Holder for tablets from 7 to 10“
- Use in portrait or landscape format
- Material: Metal with black grained epoxy coating

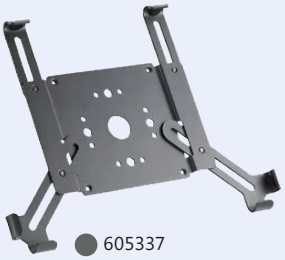
NOVUS Pos Tabletfix



605336

- for all common tablets up to 10.5“
- max. depth of the tablet: 10 mm
- Adjustment range:
  Height: 108 - 215 mm
  Width: 186 - 306 mm
- Suitable for VESA standard
  100 x 100 and connect inclusion
- made of high-quality metal with robust powder coating

NOVUS Pos Tabletfix XL



605337

- für große Tablets bis 12,9“
- max. depth of the tablet: 10 mm
- Adjustment range:
  Height: 173 - 272 mm
  Width: 231 - 346 mm
- Suitable for VESA standard
  100 x 100 and connect inclusion
- made of high-quality metal with robust powder coating

MF 9705 Monitor pivoting arm

101104

- Continuously adjustable in all directions
- Range: about 450 mm
- Mounting:
  BS-MFK-Alu (Art. No. 132924)

Maximum load: 10 kg

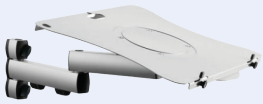
MF 9707 Monitor pivoting arm

101105

- Continuously adjustable in all directions
- Range: about 505 mm
- Mounting:
  BS-MFL-Alu (Art. No. 132925)

Maximum load: 15 kg

SA 9709 swivelling support



HA601821

- Dimensions: 400 x 288 mm
- with adjustment levers at the front
- Range: 589 mm
- max. load: 10 kg
- incl. fastening inside, at the front of the profile

TA 9708 swivelling support

HA601935

- Dimensions: 640 x 172 mm
- bevelled front
- Range: 528 mm
- max. load: ca. 10 kg

BS-MF ... Mounting kit (monitor pivoting arm)

132924 (181 mm)
132925 (263 mm)

- For monitor pivoting arm MF 9705, MT 9706, SA 9709, TA 9708 und MF 9707
- To mount with the double pipe AT2829
- Length:
  181 mm (132924) for MF9705, SA9709, TA 9708 and MT 9706
  263 mm (132925) for MF 9707

Keyboard shelf

119017

- Rotatable shelf 640 x 172 mm
- Chamfered at front
- Range: 528 mm

Maximum load: 10 kg

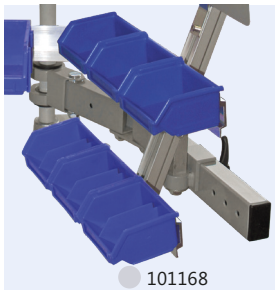
PC holder „TopGrip“

119397

- PC holder for under-table mounting
- Max. dimensions (WxDxH):
  335 x 205 x 635 mm

Maximum load: 20 kg

DG 9540 Double articulated arm



101168

- The articulated arms are fixed to the central boom
- Allow flexible movement
- Placed immediately above the feet
- Includes mounting material

Maximum load: 10 kg

PG 9552 Pinboard

110197

- For DIN A4 work documents
- Includes 4 magnets and mounting material
- WxH: 240 x 330 mm

RG 9542 Single articulated arm right

101171

- The articulated arms are fixed to the central boom
- Allow flexible movement
- Placed immediately above the feet
- Includes mounting material

Maximum load: 10 kg

LG 9541 Single articulated arm left

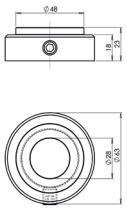
101170

- The articulated arms are fixed to the central boom
- Allow flexible movement
- Placed immediately above the feet
- Includes mounting material

Maximum load: 10 kg

SR 9590 Adjusting collar with plastic insert

WZ: 101164

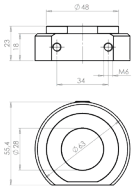


Weight: 239 g

SF 9591 Adjusting collar with plastic insert

WZ: 101165

- Surface with two M6 holes (Ø34 mm) and plastic insert



Weight: 205 g

AS 954 ... Adapter rail

Short: 101172
Long: 115979

- Inclined and pivotable
- For attaching up to 3 (short version, long version: 4) hanging rails
- With the distance freely selectable
- Includes mounting material

EG 954 ... Hanging rails

200 mm: 101175
300 mm: 101176
400 mm: 115978

- To take grab trays
- Supply includes mounting material

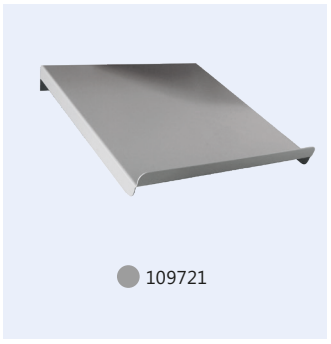
KA 9550 Small devices tray

101149

- 290 x 195 mm (WxD)
- With raised sections at front and rear
- Includes mounting material

Maximum load: 5 kg

BP 9551 Component pallets



109721

- 300 x 300 mm (WxD)
- With raised edge at front
- Angle 30°
- Includes mounting material

Maximum load: 3 kg

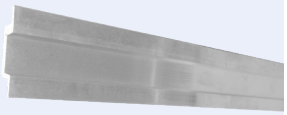
ES 95... Hanging rails

- 800 mm: 101181
- 1400 mm: 101183
- 2000 mm: 119171

- To take grab trays type "FPO Crate"
- Different widths on request
- Mounting with:
  2 x BS 9596 or
  2 x BS 9597
- Maximum load:
  40kg/m at <1 m
  20kg/m at >1 m and <2 m

PA 9100-3 Profile hanging rail

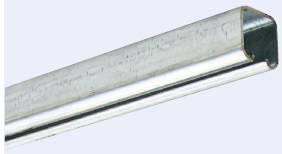
NEW



- Aluminium 615723

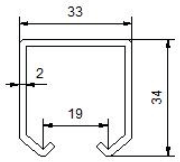
- To take grab trays
- Lenght 1000 mm

LS 9490 Galvanised running rail

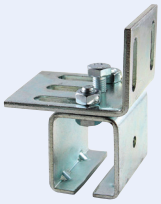


- WZ: 123302

- Standard length: 2.5 m
- Cut according to requirements

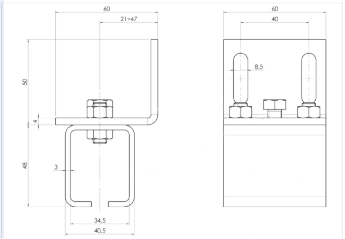


WB 9491 Wall attachment



- WZ: 112514

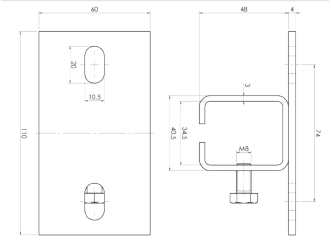
- For galvanised running rail



DB 9492 Ceiling attachment

- WZ: 112515

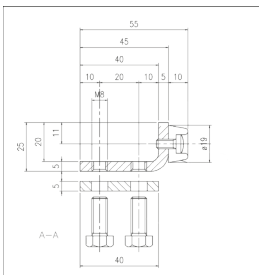
- For galvanised running rail



EA 9493 End arrester/buffer

- WZ: 112516

- For galvanised running rail



LW 9495 1-axle carriage

- WZ: 112517

- Castors: Ø 24 mm
- With M8x35 threaded bolt and 2 nuts
- Load capacity: 20 kg

LW 9496 2-axle carriage

- WZ: 112518

- Castors: Ø 24 mm
- With M8x35 threaded bolt and 2 nuts
- For galvanized and aluminium running rails
- Load capacity: 55 kg

LW 9497 1-axle carriage

- WZ: 112519

- Castors: Ø 24 mm
- With mounting plate
- Load capacity: 20 kg

Accessories available

- US08 (101846)
- M08 (109754)
- Hook screw (615349)

LW 9498 2-axle carriage

- WZ: 112520

- Castors: Ø 24 mm
- With mounting plate
- For galvanized and aluminium running rails
- Load capacity: 30 kg

Accessories available

- US08 (101846)
- M08 (109754)
- Hook screw (615349)

WW 9575 2-axle trolley

WZ: 112289

- Castors: Ø 24 mm
- With mounting plate suitable for carabineers
- Also suitable for galvanized and aluminium running rails
- Load capacity: 55 kg

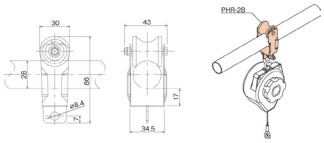
KBH-6 Snap hook

WZ: 110181

- For tool trolley or 2-axle trolley
- Length 60 mm
- Thickness 6 mm
- Galvanised

PHR-28 Tool trolley for pipe Ø28 mm

WZ: 114945



Weight: 45 g
Packaging unit: 500 pcs

Application examples WW9575 and KBH-6

Single/double pipe running rail
The WW 9575 tool trolley can also run in a double pipe of the BeeWaTec pipe racking system by G.S ACE, which is integrated in the optional extension of the QUATTRO system. Alternatively it is possible to connect two pipes in the required length with GA-9S double joints. PHR-28 may be used in a single pipe.

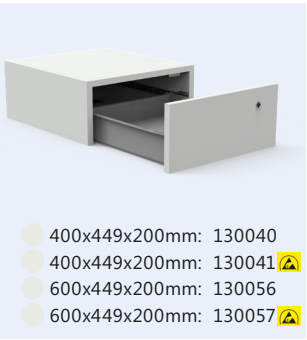
Drawers With lock

- Standard version with lock
- Material body: chipboard with melamine resin coating
- WxDxH: 400x449x140mm

130032
130033

Maximum load: 30 kg

Drawers With lock

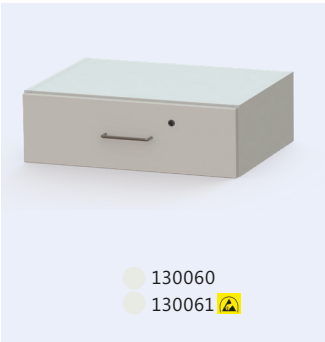


- Standard version with lock
- Material body: chipboard with melamine resin coating
- WxDxH: 400x449x200mm or 600x449x200mm
- Maximum load 30 kg

400x449x200mm: 130040
400x449x200mm: 130041
600x449x200mm: 130056
600x449x200mm: 130057

Maximum load: 30 kg

Drawers With grip and lock



- Standard version with grip and lock
- Material body: chipboard with melamine resin coating
- WxDxH: 600x449x200mm
- Maximum load 30 kg

130060
130061

Maximum load: 30 kg

Pull-out units Fully extendable telescopic runners

- With arrester to hold in closed position
- Materal mounting.
- Material: Steel, galvanised
- Other designs and sizes on request

Art. No.	Length of fitting	Length of extension	Width x height	Loading capacity per pair	Bearing retainers
403097	300 mm	320 mm	17.5x55.8mm	94 kg	4
403098	350 mm	375 mm		96 kg	
403099	400 mm	440 mm		97 kg	
403100	450 mm	495 mm		110 kg	
403101	500 mm	550 mm		119 kg	
403076	550 mm	600 mm		118 kg	
403063	600 mm	650 mm		123 kg	
403052	700 mm	750 mm		129 kg	

GF... Gas pressure springs

- Vertical installation
- Piston rod downwards
- Max. 60° inclination
- Attachment with threaded rods.
- Guaranteed service life: 50,000 strokes provided installation instructions are complied with
- Other designs and sizes on request.

Art. No.	Name	Extension force	Lift	End cushioning	Attachment thread
106457	GF 6-15-050-050-M5	50 N (±20 N)	50 mm	20 mm (±10 mm)	2 x M5
106456	GF 6-15-100-050-M5		100 mm		
106452	GF 8-19-100-200-M6	200 N (+40/-20 N)	100 mm		2 x M6
106453	GF 8-19-150-200-M6		150 mm		

Lug for gas pressure springs

- M5:
  Dimensions: 6.1 x 6 x 16 mm
  Material: Steel, galvanised, blue chrome-plated
- M6:
  Dimensions: 6.1 x 3 x 23 mm
  Material: Steel, galvanised

GVZ (M5): 106458
GVZ (M6): 604249

Clevis for gas pressure springs with bolt

- M6:
  Dimensions: 6x12mm
  Material: Steel, galvanised, blue chrome-plated

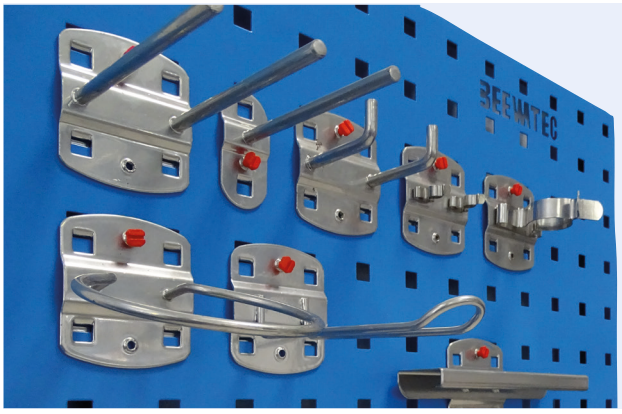
GVZ (M6): 106455

WORKSHOP EQUIPMENT

Workshop equipment

BeeWaTec perforated panels 291
Tool holders and accessories for perforated plates 292
Magnets 297
Workplace mats 301
Labelling and magnetic systems 305
Kanban and planning systems 309
Information and presentation systems 310
Plastic bins 312
Floor marking systems (BEEStripe) 315
Tools 317
FIFO station 321

Organisation might not be half the battle. But it saves half the work.



Workshop equipment

Work surfaces. Tools, machines and work material within reach. Storage space for finished parts and much more. While taking into consideration flexible workflows, personal preferences, safety standards ...

On the following pages, you will find versatile and flexible systems that allow you to design your work environment and work processes according to your ideas. We have a lot more to offer - too much to put it all in this catalogue. Please contact our sales staff for further information and individual consultation.

Workplace organisation

No need to search for various parts, work material and tools are within reach, order and cleanliness, eliminate legwork – in a word: waste-free working processes; the basic idea of lean management.

The basis for every quality product and high-quality service is a clean and neat working environment.

Our products help to make this basic state possible and to meet the customers' basic need regarding quality and fast delivery.

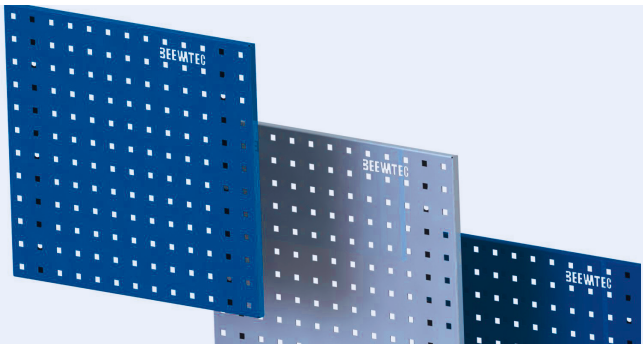
Our products:

- **BeeWaTec Perforated panels:**
  The perforated panel system systematically keeps everything in the right place and offers different application possibilities: as panel element for the tube plug-in system by G.S ACE, as wall-mount solution, as detached partition wall and as workshop and trolley cabinets.
- **Appropriate tool holder and accessories for the perforated panels**

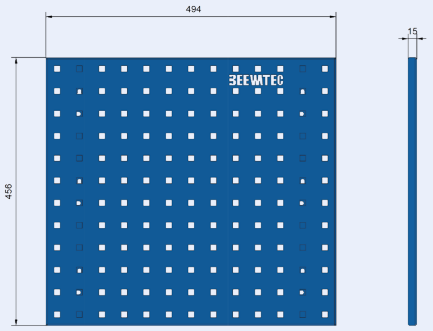
BeeWaTec perforated panels

- Material: Sheet steel 1.25 mm with powder coat
- Hidden mounting holes
- Appropriate tool holder systems on request
- Hole matrix: 28x28 mm
- Hole size: 10x10 mm
- Mounting possibilities: horizontal/vertical with M6 bolt
- Hooks can be mounted spanning over two panels

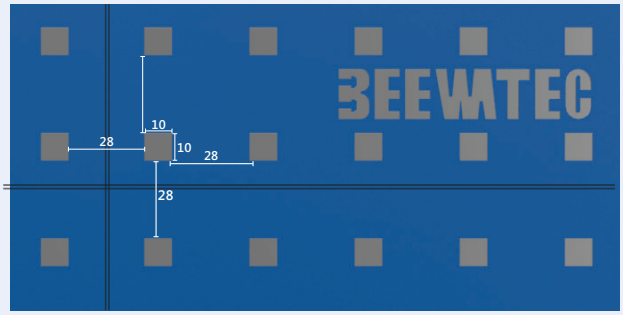
BeeWaTec perforated panels

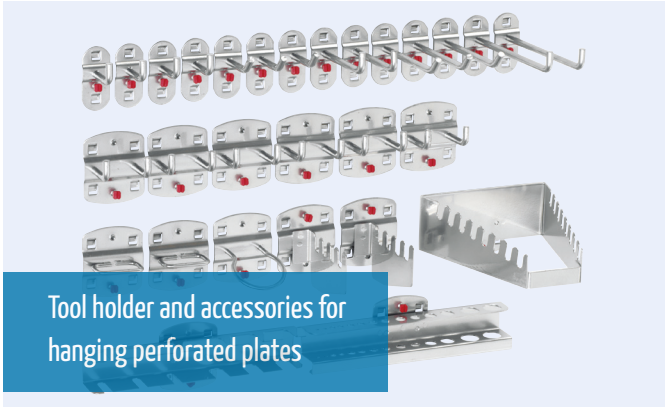


- Sheet steel 1.25 mm with powder coating
- Hole matrix: 28x28 mm
- Hole size: 10x10 mm
- Hidden mounting holes
- Matching tool holder systems on request
- Mounting possibilities: horizontal/vertical with M6 bolt
- Hooks can be mounted spanning over two panels
- Other sizes and colours on request
- Due to the stability and mounting possibilities, the perforated panels have the following amount of back beams



Panel dimensions	494x456mm	988x456mm	1482x456mm	1976x456mm
Sky blue (RAL 5015)	123943	123511	123946	123949
Light grey (RAL 7035)	123944	123512	123947	123950
Gentian blue (RAL 5010)	123942	123510	123945	123948
galvanized	207513	-	NEW 616713	NEW 616714
Back beams	2	3	4	5

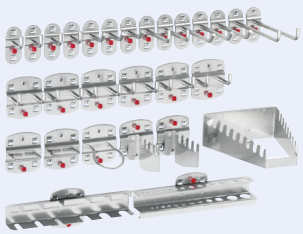




Tool holder and accessories for perforated panels

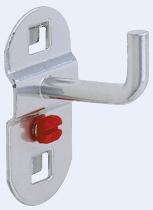
- Material steel
- coated with a protective layer of nano ceramic and a plastic coating with bonded aluminium pigments
- Complete tool holder sets in tried and tested combinations
- Embossed base plate 1.5 mm thick
- Durable due to multi-layered surface
- 5 years warranty
- Made in Germany

Tool holder sets



Art. No.	Content
102345	10 pieces tool holder set
102347	12 pieces tool holder set
102351	18 pieces tool holder set
102353	28 pieces tool holder set
102355	40 pieces tool holder set

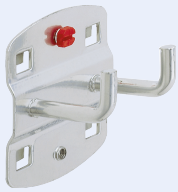
Tool holder



- With vertical hook end
- Material: Aluminium
- Ø 6 mm
- Length:
  35 mm
  75 mm
  125 mm

35 mm: 102365
75 mm: 102367
125 mm: 102369

Double tool holder



- With vertical hook end
- Material: Aluminium
- Ø 6 mm
- Length:
  35 mm
  50 mm
  75 mm
  125 mm

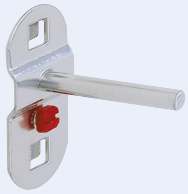
35 mm: 102372
50 mm: 102374
75 mm: 102376
125 mm: 102378

Tool holder

- With slanting hook end
- Material: Aluminium
- Ø 6 mm
- Length:
  50 mm
  100 mm
  150 mm
  200 mm

50 mm: 102357
100 mm: 102359
150 mm: 102361
200 mm: 102363

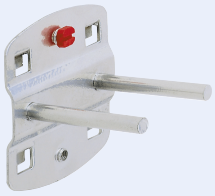
Tool holder



- With single straight pin
- Material: Aluminium
- Ø 6 mm
- Length:
  50 mm
  100 mm
  150 mm

50 mm: 102380
100 mm: 102382
125 mm: 102384

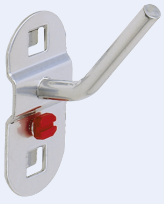
Double tool holder



- With straight pin
- Material: Aluminium
- Ø 6 mm
- Length:
  50 mm
  100 mm
  150 mm

50 mm: 102386
100 mm: 102388
125 mm: 102390

Slanting hock



- For spanner sockets and socket wrenches
- Material: Aluminium
- Ø 6 mm
- Length:
  14/40 mm

Aluminium: 102392

Pipe holder

- Suitable for hoses, cables, etc.
- Material: Aluminium
- Breite: 35 mm
- Length:
  60 mm
  100 mm

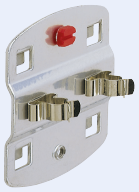
60 mm: 102418
100 mm: 102420

Single tool clamp

- 6 mm: 102481
- 10 mm: 102483
- 13 mm: 102485
- 16 mm: 102487
- 19 mm: 102489

- With small base plate
- Material: Aluminium
- Length:
  6 mm
  10 mm
  13 mm
  16 mm
  19 mm

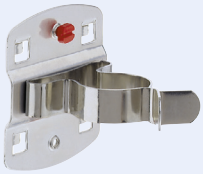
Double tool clamp



- 6 mm: 102491
- 10 mm: 102493
- 13 mm: 102495
- 16 mm: 102497
- 19 mm: 102499

- Material: Aluminium
- Length:
  6 mm
  10 mm
  13 mm
  16 mm
  19 mm

Single tool clamp



- 25 mm: 102501
- 28 mm: 102503
- 32 mm: 102505

- With large base plate
- Material: Aluminium
- Length:
  25 mm
  28 mm
  32 mm

Magnet holder

- Aluminium: 102507

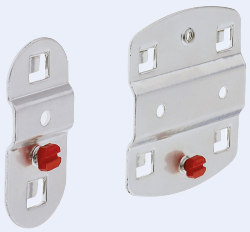
- Ø 40 mm
- Material: Aluminium

Holder for pliers

- 35 mm: 102394
- 55 mm: 102396
- 75 mm: 102398

- Material: Aluminium
- Depth: 20 mm
- Width:
  35 mm
  55 mm
  75 mm

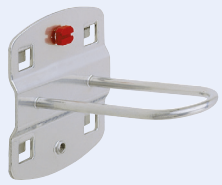
Base plate



- 25x56mm: 102509
- 55x64mm: 102511

- For individual solutions
- Material: Aluminium
- Dimensions (WxH):
  Small 25x56 mm
  Large 55x64mm

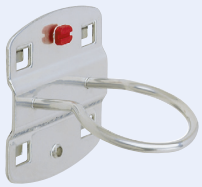
Round holder



- Aluminium: 102400

- With straigt and individual mandrel
- Material: Aluminium
- Width: 25 mm
- Length: 65 mm

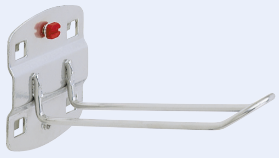
Machine holder



- 40 mm: 102402
- 60 mm: 102404
- 80 mm: 102406

- Material: Aluminium
- Ø inner:
  40 mm
  60 mm
  80 mm

Tool holder



- Aluminium: 102416

- For self-service packs
- Material: Aluminium
- Width: 30 mm
- Length: 125 mm

Tool holder

- Aluminium: 102410

- Triple
- Material: Aluminium
- Width: 45 mm
- Length: 150 mm

Tool holder

- For 6 tools
- Material: Aluminium
- Width: 45 mm
- Length: 140 mm

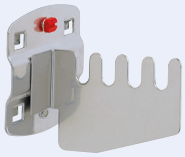
Aluminium: 102408

Cable holder

- 50 mm high end
- Material: Aluminium
- Width: 37 mm
- Length:
  150 mm
  200 mm

150 mm: 102412
200 mm: 102414

Saw holder



- For 4 saws
- Material: Aluminium
- Please order in pairs

Aluminium: 102422

Combination holder

- 2 parts
- Material: Aluminium
- Width: 55 mm
- Length: 150 mm

Aluminium: 102434

Screw wrench holder

- For 8 screws, horizontal
- Material: Aluminium
- Dimensions (HxWxD):
  50x130/60x150mm

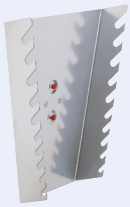
Aluminium: 102454

Screw wrench holder

- For 10 screws, vertical
- Material: Aluminium
- Dimensions (HxWxD):
  220x145/75x50mm

Aluminium: 102456

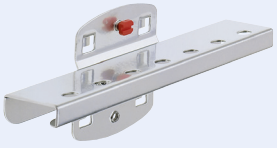
Box wrench holder



- For 10 screws, vertical
- Material: Aluminium
- Dimensions (HxWxD):
  255x225/125x50mm

Aluminium: 102458

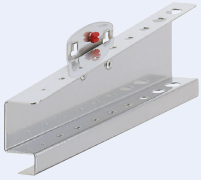
Bit holder



- For 7 bits
- Material: Aluminium
- Dimensions (HxWxD):
  50x150x35mm

Aluminium: 102460

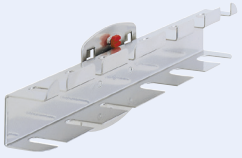
Inner hexagon holder



- For 9 keys with Ø 1 - 11 mm
- Material: Aluminium
- Dimensions (HxWxD):
  50/70x200x25mm

Aluminium: 102464

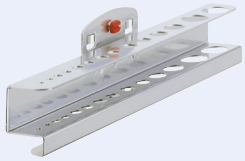
Screwdriver holder



- For 6 or 12 pieces
- Material: Aluminium
- Dimensions (HxWxD):
  40x200x30mm (for 6 pieces)
  40x390x30mm (for 12 pieces)

40x200x30mm: 102466
40x390x30mm: 102468

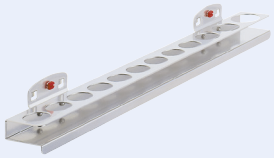
Drill or screw holder



- 35x200x30mm: 102470
- 35x390x30mm: 102479

- For 14 or 28 pieces
- Material: Aluminium
- Dimensions (HxWxD):
  35x200x30mm (for 14 pieces)
  35x390x30mm (for 28 pieces)

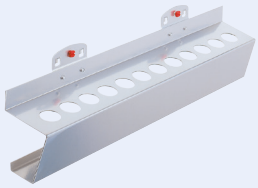
Spanner socket holder



- Aluminium: 102462

- For 12 spanner sockets
- Material: Aluminium
- Dimensions (HxWxD):
  30x390x45mm
- Ø:
  9 x Ø 25 mm
  1 x Ø 25 mm
  1 x Ø 32 mm
  1 x Ø 35 mm

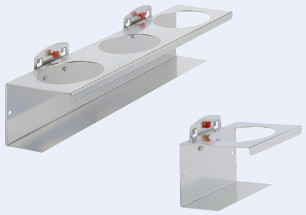
Tool holder



- 15 x Ø 17 mm: 102472
- 12 x Ø 23 mm: 102474

- For MK-2 and MK-3
- Material: Aluminium
- Dimensions (HxWxD):
  85x395x60mm
- Quantity:
  15 x Ø 17 mm
  12 x Ø 23 mm

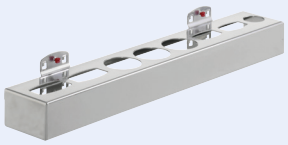
Can holder



- For 1 tin: 102438
- For 3 tins: 102440

- For 1 or 3 cans
- Material: Aluminium
- Ø 70 mm
- Quantity:
  For 1 can - Width: 100 mm
  For 3 cans - Width: 300 mm

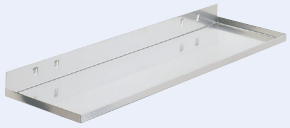
Holder



- Aluminium: 102442

- For cans and bottles
- Material: Aluminium
- Dimensions (HxWxD):
  50x500x80mm
- Quantity:
  15 x Ø 17 mm
  12 x Ø 23 mm

Shelf



- 350x125mm: 102450
- 445x150mm: 102452

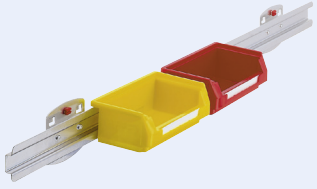
- Material: Aluminium
- Dimensions (WxD):
  350x125mm
  445x150mm

Euro bin holder

- For 5 bins: 102426
- For 9 bins: 102428

- For bin sizes 7, 500x58mm (LxH)
- Material: Aluminium
- Quantity:
  For 5 bins
  For 9 bins

Euro bin holder



- For 5 bins: 102430
- For 9 bins: 102432

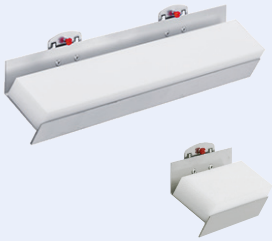
- For bin sizes 8, 990x58mm (LxH)
- Material: Aluminium
- Quantity:
  For 5 bins
  For 9 bins

Euro bin holder

- Aluminium: 102424

- Single for bin sizes 7 and 8
- Material: Aluminium

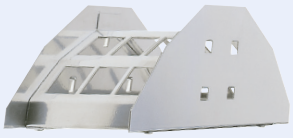
Tool shelf



- 110x55mm: 102513
- 380x45mm: 102515

- For self-drilling
- Material: Aluminium
- Dimensions (WxD):
  110x55mm
  380x45mm

Hose holder



Aluminium: 102476

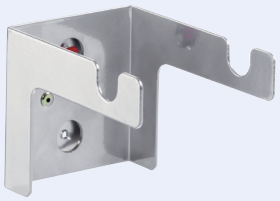
- Material: Aluminium
- Dimensions (WxD): 230x125mm

Dispenser holder

Aluminium: 102521

- Core diameter min. 22 mm, max. roll width 295 mm
- Material: Aluminium
- Dimensions (HxWxD): 120x355x100mm

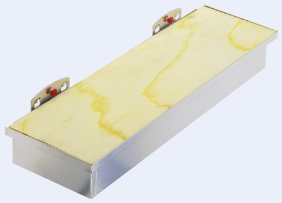
Coil holder



Aluminium: 102444

- Material: Aluminium
- Width: max. 78 mm
- Centre-to-centre distance: up to 17 mm
- Ø 170 mm

Tool shelf box



Aluminium: 102517

- With wooden plate for self-drilling
- Material: Aluminium
- Dimensions (HxWxD): 320x135x55mm

Steel base/shelf

Light grey: 102446

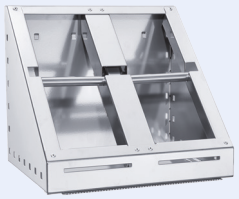
- Width: 435 mm
- Depth: 250 mm

Steel base with raised edge

Light grey: 102449

- Width: 490 mm
- Depth: 243 mm

Sandpaper dispenser holder



Light grey: 401092

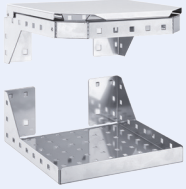
- Aluminium colour
- Dimensions (HxWxD): 265x342x290mm

Paper dispenser

Light grey: 102520

- For roll widths 300 mm
- Dimensions (HxWxD): 310x384x220mm

Trash bag holder



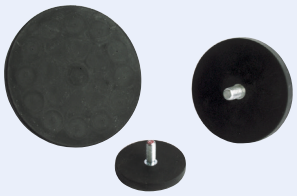
Light grey: 123938

- 2-piece aluminium coloured
- WxHxD top: 350x305x130mm / WxHxD bottom: 305x300x120mm

GraviFlex® magnets

- Extra secure and strong hold
- High friction forces sideways that prevent slipping and guarantee a good grip also on vertical surfaces
- Rubber-like surface
- Can also be used on metal sheets with sensitive surfaces (lacquer, chrome etc.)
- Three coupling possibilities with external thread, internal thread and threaded bush
- Magnetic foil with a thickness of 0.9 mm was used for the red and blue "shadows" in the picture above

Round GraviFlex® Magnets with external thread



- Black rubber casing
- Magnet core NdFeB
- Operation temperature max. 60°C
- Suitable for the screw connection with boards, machines etc.

Art.-No.	Ø	Thickness	Height	Thread	Weight	Adhesion force
113356	22 mm	6.0 mm	12.5 mm	M4 x 6.5	11 g	58 N
111005	43 mm		21.0 mm	M6 x 16.3	31 g	115 N
111006	66 mm	8.5 mm	23.5 mm	M8 x 15.0	105 g	250 N
111007	88 mm				190 g	550 N

Round GraviFlex® Magnets with threaded bush

- Black rubber casing
- Magnet core NdFeB
- Operation temperature max. 60°C
  Can be attached to e.g. screw, hooks

Art.-No.	Ø	Thickness	Height	Thread	Weight	Adhesion force
111000	12 mm	7.0 mm	14.8 mm	M4	6 g	13 N
113892	22 mm	6.0 mm	11.5 mm		13 g	58 N
111001	31 mm				22 g	89 N
111002	43 mm		10.5 mm		30 g	100 N
111003	66 mm	8.5 mm	15.0 mm	M5	105 g	250 N
111004	88 mm		17.0 mm	M8	192 g	550 N

Round GraviFlex® Magnets with internal thread

- Black rubber casing
- Magnet core NdFeB
- Operation temperature max. 60°C
- Ideal for the combination with other magnets for a double-sided adhesive effect

Art.-No.	Ø	Thickness	Thread	Weight	Adhesion force
113021	22 mm	6.0 mm	M4	9 g	38 N
111008	31 mm		M5	21 g	89 N
111009	43 mm		M4	29 g	100 N
111010	66 mm	8.5 mm	M6	100 g	250 N
111011	88 mm		M8	186 g	550 N

Rectangular GraviFlex® Magnets with internal thread

- Black rubber casing
- Magnet core NdFeB
- Operation temperature max. 60°C
- Mounting solution with one or two internal threads

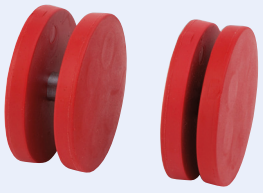
Art.-No.	Dimensions (WxHxD)	Thread	Weight	Adhesion force
113816	43x31x6.9mm	M4	27 g	105 N
113817		2 x M4	28 g	146 N

Round basic magnets with scratch protection

- Red rubber casing
- Magnet core NdFeB
- Operation temperature max. 60°C
- Suitable for tools, sample parts, signs and other ferrous items
- Ø 43 mm

Art.-No.	Height	Thread
113993	10.5 mm	M4 with threaded bush
113994	12 mm	M4 with external thread
113995	6 mm	M4 with internal thread

Round basic magnets



Red (height approx. 19 mm): 114005
Red (height approx. 15 mm): 113806

- The scratch protection
- As double package
- Red rubber casing
- Magnet core NdFeB
- Operation temperature max. 60°C
- Double package basis magnets with inserted nuts
- Ø 43 mm

Application examples basis magnets with scratch protection

When joining together two magnets with the screw thread, you will get a double-sided magnet that allows you to attach tools, sample parts, signs and other ferrous items to a ferrous surface.

Handle Individual

Stainless steel/red: 114006

- Magnet with screwed stainless steel handle

Double handle

Stainless steel/red: 114007

- 2 magnets with screwed stainless steel double handle

Hook Individual

Stainless steel/red: 114011

- Magnet with screwed stainless steel hook

Double hook

Stainless steel/red: 114009

- 2 magnets with screwed stainless steel double hook

Quadruple hook

Stainless steel/red: 114010

- 2 magnets with screwed stainless steel
- quadruble hook

Double bracket

Stainless steel/red: 114012

- 2 magnets with screwed stainless steel
- double bracket
- Adhesion force approx. 85N

Magnet clip ith 2 magnets

- With strong spring clamp about 10 mm capacity
- WxH: 130x43mm

● Black: 104123

Power magnet With twofold ring binder mechanism

- Direct access to several documents that are filed locally with or without transparent cover
- The filling height is 25 mm

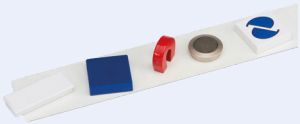
● Black: 131149

Power magnet With quadrubule ring mechanism

- Direct access to several documents that are filed locally with or without transparent cover
- The filling height is 25 mm

● Black: 123933

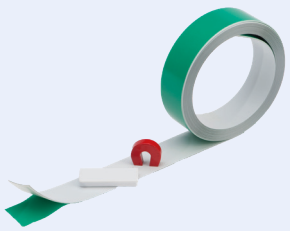
Magnet-adhering Of sheet steel



- Material thickness: 0.5 mm
- Is equipped with foam adhesive on the reverse
- Compensates minor unevennesses
- Dimension (LxW)

○ White (500x50mm): 131759
○ White (1000x50mm): 131761

Magnetic tape



- Flexibles, thin metal band
- Surface light grey
- Self-adhesive coating on rear (foam)
- Dimension (LxW)

○ White (5000x35mm): 131762
○ White (30000x13mm): 131763

Magnet hooks

- Magnet core mad of hard ferrite
- Finish white metal housing
- Threaded bush with internal thread and hook
- Different diameters and adhesive forces

Art.-No.	Ø	Hook	Adhesion force
111014	16 mm	M3	20 N
111015	20 mm		30 N
111016	25 mm	M4	40 N
111017	32 mm		80 N
111018	36 mm		100 N
111019	40 mm		110 N
111020	47 mm		180 N
111021	50 mm		200 N
111022	57 mm		280 N
111023	63 mm		320 N
111024	80 mm	M6 (Loop)	600 N
111025	53x275x28mm	M4	150 N

Metal disc As adhesive surface for magnets

- Galvanised
- Double-sided adhesive tape
- Packaging unit: 10 pcs.

Art.-No.	Ø	Height
110984	20 mm	
110986	30 mm	1.0 mm
110988	40 mm	
110990	60 mm	1.5 mm

Tool holder Made of magnet

- The construction technique with magnets and pole pieces allows for an high adhesive force

Art. No.	Dimensions (LxW)	Material
110996	300x30mm	Plastic housing
110997	500x60mm	Wood housing

Metal disc

With drill hole and 90° counterbore

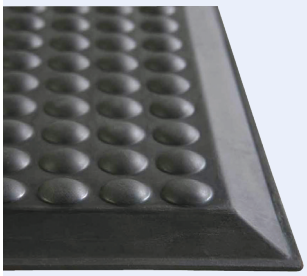
Art.-No.	Ø	Height	Inner Ø	Material
110992	23.7 mm	1.5 mm	5.0 mm	Sheet steel nickel-plated
113989	27.0 mm			
110994	45.0 mm	3.0 mm	5.5 mm	Sheet steel galvanised
110995	64.0 mm			

Workplace mats

An average assembly worker spends 35-40 hours a week in the same place. Over the year, this comes to about 1820 hours of standing. This illustrates the importance that should be attached to the way in which people stand. Workplace mats make an enormously important contribution to this. With us, you can choose the workplace mats that meet your requirements and the floor conditions. On the following pages you will find more detailed information about the products in terms of area of application, effect, soil condition and material.

BEEnomic for you

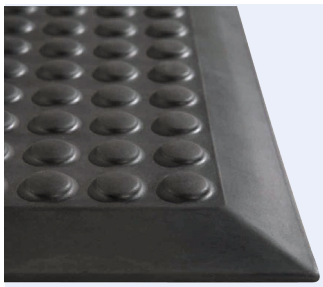
BEEMotion Standing mat with round nobs



- Highest standing comfort: Joint-friendly, stimulating the blood flow and cold-insulating
- Further properties: slip-resistant, shock-absorbing
- For dry and wet **standing** and **walking worktstations**
- Very elastic polyurethane in black
- Surface with **round nobs**
- Bottom side slip-resistant due to waved groove profile
- Hardness: approx. 23 – 24 Shore A

Art. No.	Name	Description	Dimensions (LxW)	Height	Weight
107555	BIO1200	BEEMotion Standard	Approx. 90x60cm plus entering edge of 2cm each	15 mm	ca. 2.6 kg
107558	BIO1000	BEEMotion Antistatic			
107561	BIO1100	BEEMotion Antistatic and fire-resistant			

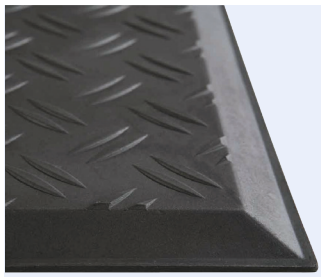
BEETwist Standing mat with flat nobs



- Highest standing comfort: joint-friendly, stimulating the blood flow and cold-insulating
- Further properties: slip-resistant, shock-absorbing, trafficable
- For dry and wet **standing, rotational** and **walking workstations**
- Very elastic polyurethane in black
- Surface with **flat nobs**
- Bottom side slip-resistant due to raised square profile
- Hardness: approx. 25 Shore A

Art. No.	Name	Description	Dimensions (LxW)	Height	Weight
107554	BIO3200	BEETwist Standard	Approx. 90x60cm plus entering edge of 2.5 cm each	12.5 mm	ca. 2.5 kg
107557	BIO3000	BEETwist Antistatic			
107560	BIO3100	BEETwist Antistatic and fire-resistant			

BEERelax Standing mat with groove structure



- For a high standing comfort: Joint-friendly, stimulating the blood flow and cold-insulating
- Further properties: Slip-resistant, shock-absorbing, trafficable
- For dry and wet **standing, rotational** and **walking workstations**
- Very elastic polyurethane
- Surface **groove structure**
- Bottom side slip-resistant due to waved groove profile
- Hardness: approx. 23 Shore A

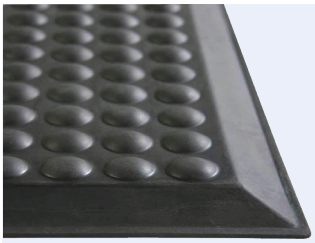
Art.-Nr.	Name	Description	Dimensions (LxW)	Height	Weight
107556	BIO2200	BEERelax Standard	Approx. 90x60cm plus entering edge of 2 cm each	12.5 mm	approx. 2.6 kg
107559	BIO2000	BEERelax Antistatic			
107562	BIO2100	BEERelax Antistatic and fire-resistant			

BEEWet Perforated mat

● 107569 (BIO6000)

- Perforated workplace mat
- Area of use: General use and in wet areas with water and little oil in place
- For **standing, rotational and walking workstations**
- From black natural rubber
- Open surface
- Bottom side good drainage
- Hardness: approx. 48 Shore A ±3
- Temperature resistant 0 – 90 °C, more for a short time
- Dimension (LxW): 151.5x91cm incl. starting chamfer
- Height: 14 mm
- Weight: Approx. 10.3 kg

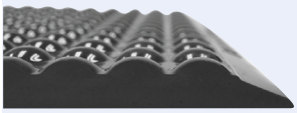
BEEVario Single Standing mats for tougher demands



107566 (BIO5000)

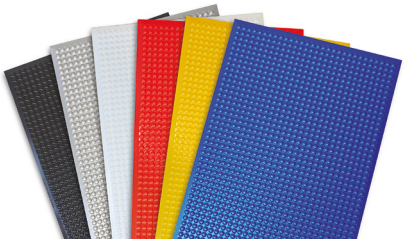
- Area of use: assembly areas, welding installations, turning centres and milling machines etc., where oil and grease can be found
- Properties: Slip-proof, slip-resistant, sound-absorbing; good to clean, also suitable for high pressure cleaners and industrial vacuum cleaners; robust and wear-resistant; resistant to mineral oils, grease and vegetable oils
- Made of **black** NBR
- Surface with elastic **nob structure**
- Bottom side hollow nobs
- Hardness: ca. 45 Shore A ±3
- Temperature resistant 0 – 90 °C, more for a short time
- Electrical resistance: insulating < 1012 Ω
- Dimensions (LxW): Approx. 91x60.5cm incl. starting chamfer
- Height: 14 mm
- Weight: Approx. 5.6 kg

BEEnomic Infinity Bubble

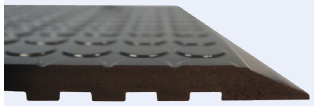


Black: 116049
Silver: 116051
Red: 116052
Yellow: 116053
Blue: 116054

- Properties:
  Slip-resistant, elastic and UV-light resistant
- Available in 5 different colours
- For dry **standing workstationss**
- Made of foamed polyurethane
- Surface with **nubs**
- Bottom slip-resistant due to raised square profile
- Dimensions (LxW): Approx. 91x60.5cm incl. starting chamfer
- Height: 14 mm
- Weight: Approx. 5.6 kg



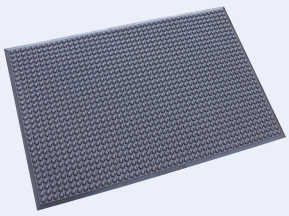
BEEnomic Infinity Smooth



Black: 116055
White: 116056
Silver: 116057
Red: 116058
Yellow: 116059
Blue: 116060

- Properties:
  Slip-resistant, elastic and UV-light resistant, **easy to drive on and clean**
- Available in 6 different colours
- For dry **standing** and **walking workstationss**
- Made of foamed polyurethane
- Surface with **flat nobs**
- Bottom slip-resistant due to raised square profile
- Dimensions (LxB): Approx. 90x60cm
- Height: 14.5 mm
- Weight: 2.6 kg

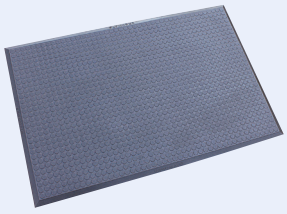
BEEnomic AFB Complete Bubble



116041

- Properties:
  Slip-resistant, resistant to many chemicals and oils, anstistatic, fire-resistant, highly elastic
- For dry **standing workstations**
- Made of **dark grey** polyurethan
- Surface with **nubs**
- Bottom slip-resistant
- Bleeder resistance: 5 x 10^9 Ω – 5 x 10^9 Ω
- Dimensions (LxW): 60x90cm
- Height: 15 mm
- Weight: 2.6 kg

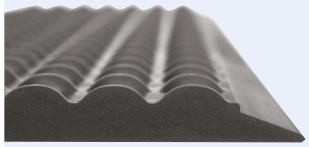
BEEnomic AFS Complete Smooth



116042

- Properties:
  Dry standing and walking workplaces, easy to drive on and clean, elastic, UV-light resistant
- For dry **standing** and **walking workstations**
- Made of **dark grey** polyurethan
- Surface with **nubs**
- Bottom slip-resistant
- Bleeder resistance: 5 x 10^9 Ω – 5 x 10^9 Ω
- Dimensions (LxW): 60x90cm
- Height: 11 mm
- Weight: 2.2 kg

BEEnomic AB Classic



116040

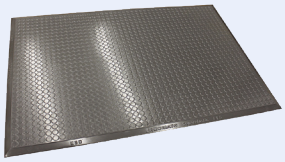
- Properties:
  Antistatic, highly elastic, resistant to many chemicals
- For dry **standing workstations**
- Made of **dark grey** polyurethan
- Surface with **nubs**
- Bottom slip-resistant
- Clean room class: ISO 5
- Bleeder resistance: 1 x 10^8 Ω – 5 x 10^9 Ω
- Dimensions(LxW): 60x90cm
- Height: 15 mm
- Weight: 2.5 kg

BEEnomic EFB Bubble

116043

- Properties:
  Resistant to many chemicals and oils, fireresistant, highly elastic
- For dry **standing workstations** and **ESD areas**
- Made of **light grey** polyurethan
- Surface with **nubs**
- Bottom slip-resistant
- Bleeder resistance: 1 x 10^9 Ω – 6 x 10^9 Ω
- Dimensions (LxW): 60x90cm
- Height: 15 mm
- Weight: 2.6 kg

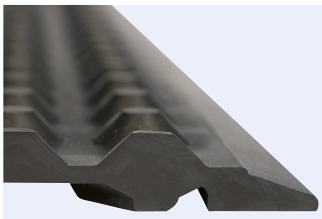
BEEnomic EFS Smooth



116044

- Properties:
  Easy to drive on and clean,fireresistant, highly elastic
- For dry **standing** and **walking workstations** and **ESD areas**
- Made of **light grey** polyurethan
- Surface with **flat nubs**
- Bottom slip-resistant
- Bleeder resistance: 1 x 10^9 Ω – 6 x 10^9 Ω
- Dimensions (LxW): 60x90cm
- Height: 11 mm
- Weight: 2.2 kg

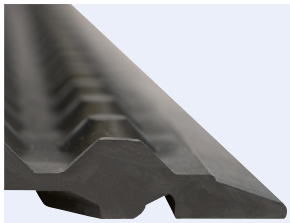
BEEnomic Nitril black



116045

- Properties:
  Temperature-resistant up to 600°C, resistant to many chemicals and oils
- For **dry** or **wet areas**
- Made of **black** nitril rubber (NBR)
- Surfaces with **flattened cone**
- Bottom slip-resistant
- Bleeder resistance ESD: > 1 x 10^{10} Ω
- Dimensions (LxW): 60x90cm
- Height: 11 mm
- Weight: 3.4 kg

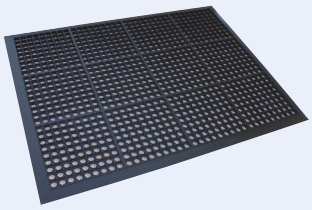
BEEnomic Nitril ESD



116046

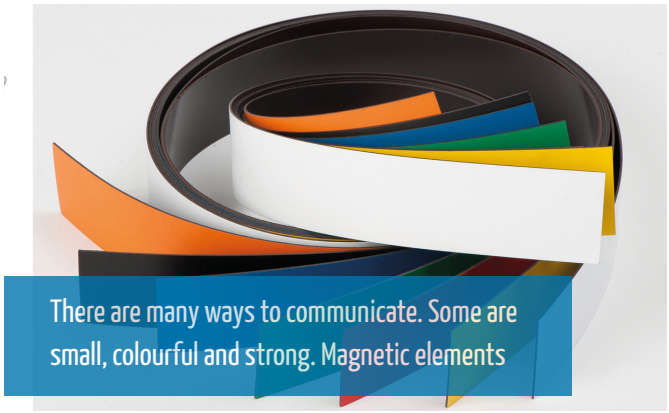
- Properties:
  Temperature-resistant up to 600 °C, resistant to many chemicals, oils and cooling lubricants
- For **ESD areas**
- Made of **black** nitril rubber (NBR)
- Surfaces with **flattened cones**
- Bottom slip-resistant
- Bleeder resistance ESD: 5 x 10^4 Ω – 1 x 10^7 Ω
- Bleeder resistance CON: 5 x 10^2 Ω – 1 x 10^5 Ω
- Dimensions (LxW): 60x90cm
- Height: 11 mm
- Weight: 3.2 kg

BEEnomic Nitril Industry



● 116047

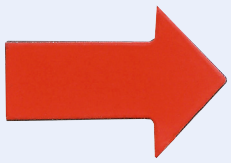
- Properties:
  Especially slip resistant, resistant to many chemicals, oils cooling lubricants and alcohol
- For **wet** and **chipping areas**
- Made of **black** nitril rubber (NBR)
- Surfaces with **perforated profile**
- Bottom slip-resistant
- Bleeder resistance: > 1 x 10^{10} Ω
- Dimensions(LxW): 90x120cm
- Height: 19.5 mm
- Weight: 1.3 kg



Labelling and magnetic element

Magnetic labelling of products in the storage area means considerable rationalisation: when goods are changed or rearranged, the labelling moves with them and is simply attached to the shelf at the new storage location. This saves re-labelling and the tedious removal of stuck-on labels.

Arrow signal Two-colour



Red/green: 110916

- Magnetically adhesive
- One side is red, one side is green
- Dimensions (WxH): 125x80mm

Packaging unit: 5 pcs

Ring mechanism with round magnets

123934

- 4-fold ring mechanism with a capacity of up to 25 mm

Colour register

105717

- Plastic register in five colours (white, blue, red, yellow, green)
- With display pouch on the front and back side made of non-reflecting foil

Pen clips

black/black:	105712
black/red:	105713
black/yellow:	105714
black/green:	105715
black/blue:	105716

- Plastic holder for writing utensils etc
- Ø40 mm
- Clamping width 5 – 15 mm

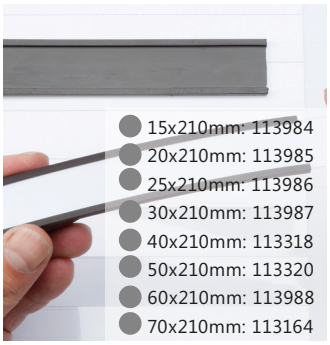
Packaging unit: 10 pcs

GraviFlex® Magnetic pouch

401006

- Adhesive on the entire surface
- Easily be adjusted to pallet racks
- Either upright at the rack or horizontally at the racking beams
- Custom pouch formats are possible
- External dimensions (WxH): 318x74mm
- Internal dimesions (WxH): 310x68mm
- Version: Long side open

Label bars C-profile



15x210mm: 113984
20x210mm: 113985
25x210mm: 113986
30x210mm: 113987
40x210mm: 113318
50x210mm: 113320
60x210mm: 113988
70x210mm: 113164

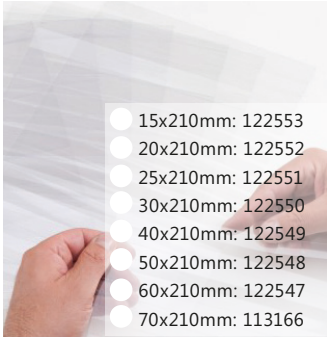
- Used on magnetic boards, for the marking of shelves, in storage organisation or for the labelling of metal cabinets
- Continuously magnetic, flexible C-profile in cut-outs with a length of 210 mm
- Format (HxL)
- Further dimensions upon request
- Also available as castor (length: 50 m)
- Packaging unit: 10 pieces/pack

Labelling sheets For C-profile

15x210mm: 113974
20x210mm: 113975
25x210mm: 113976
30x210mm: 113977
40x210mm: 113321
50x210mm: 113323
60x210mm: 113978
70x210mm: 113165

- Labelling sheets DIN A4 portrait and white
- Format (HxL)
- With horizontal perforation, writeable with printer or by hand
- Packaging unit: 3 sheets/package
- Stripes per sheet: 22 pcs (15x210mm), 16 pcs (20x210mm), 12 pcs (25x210mm), 10 pcs (30x210mm), 7 pcs (40x210mm), 6 pcs (50x210mm), 5 pcs (60x210mm), 4 pcs (70x210mm)

Predective strip



15x210mm: 122553
20x210mm: 122552
25x210mm: 122551
30x210mm: 122550
40x210mm: 122549
50x210mm: 122548
60x210mm: 122547
70x210mm: 113166

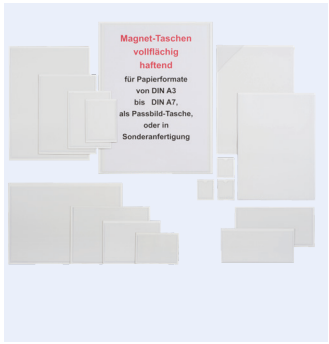
- To predect the labelling from getting soiled
- Portrait, transparent, with horizontal perforation
- Format (HxL)
- Packaging unit: 3 sheets/ package

VisuFlex® magnetic pouches With loops

- The transparent loops with magnetic lock are suitable for all pipe connecting systems with a diameter up to 40 mm
- The magnetic pouches are made of weather-resistant, tearresistant and wipeable PVC film

Art. No.	External dimension (WxH)	Internal dimension (WxH)	Version
122542	237x358mm	232x308mm	Upright format DIN A4, narrow side open
122543	237x208mm	232x158mm	DIN A5 landscape, long side open
122529	237x157mm	232x107mm	1/3 of DIN A4, long side open

Magnetic pouches In white



- Adhesive on the entire surface, from flexible white-coated magnetic foil
- Welded pouch is made of stable, transparent foil
- Back side that is completely magnetic guarantees an ideal clinging to all ferrous level or bulged surfaces.
- Further sizes upon request

Art. No.	For format	Internal dimension (WxH)	Open side
110569	DIN A3 portrait	305x425mm	Narrow side
110571	DIN A4 landscape	310x215mm	Long side
110570	DIN A4 portrait	215x315mm	Narrow side
110577		200x87mm	Long side
110573	DIN A5 landscape	220x150mm	Long side
110572	DIN A5 portrait	155x215mm	Narrow side
110575	DIN A6 landscape	155x110mm	Long side
110574	DIN A6 portrait	113x158mm	Narrow side

VisuFlex® magnetic pouch Extra strong self-adhesive

- A space-saving and reusable solution for the flexible attaching of accompanying documents, Kanban cards, data sheets and so on on all ferreous surfaces
- Robust and extra strong adhesive magentic pouches are the perfect tool for industry, trade and commerce
- Pouches are made of weather-resistant, tear-resistant and wipeable PVC film in whcih 2 resp. 4 high energy magnets are welded

Art.-Nr.	Außenmaß (BxH)	Innenmaß (BxH)	Format
122534	237x373mm	232x308mm	DIN A4 hoch, Schmalseite offen
122537	225x187mm	218x147mm	DIN A5 quer, Längsseite offen
122539	160x144mm	154x104mm	DIN A6 quer, Längsseite offen

Printable magnetic paper

White: 110554

- Perfectly suited for producing business cards, magnetic symbols, information signs etc.
- Only for inkjet printers
- Thin magnetic paper (thickness 0.2 mm) with white coating on the nonmagnetic side
- Not suitable for laser printers
- Once the paper has been printed, it can be cut using scissors, and will then cling to all ferrous surfaces
- Dimensions (WxH): DIN A4 (210x297mm)
- Packaging unit: 10 sheets/package

MagnetWrite M

With grid pattern: 110981
Without grid pattern: 110982

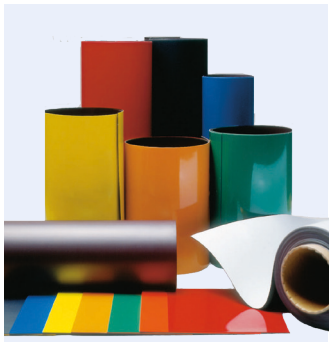
- Writeable whiteboard foil, magnetic
- 0.9 mm magnetic foil, which has a special magnetic foil on the non-magnetic side that can be written on using dry-erase markers
- The foil clings to ferrous surfaces such as e.g. steel doors, switchboards or metal walls
- Surface white, blank or with a printed grid pattern with a grid spacing of 50 x 50 mm
- Format: 600x1000mm

MagnetWrite K Writeable whiteboard foil, self-adhesive - removable

White: 110983

- MagnetWrite K has been developed for the use on plastic, wooden or glass surfaces in order to be able to use them as magnetically adhering and writing foil
- 0.7 mm ferrous plastic foil with a removable self-adhesive foil on the backside
- A special foil has been adhered to the front side, which can be written on using dry-erase markers
- Due to the content of iron in the foil, magnetic symbols, strips and organiser magnets cling to it
- Format: 600x1000mm (Further sizes upon request. width approx. 600 mm)

Magnet foil MF 165



- Semi-anisotropic magnetic foil can be cut with a knife or scissors
- It is suited for displaying the tools on shadow boards
- Use them directly, imprint them with screen prints or mount motives that have been produced with digital printing
- The colours are roughly the same as the mentioned RAL colours (colour variations possible in print)
- The magnetic foil is also available on rolls of up to 10 m

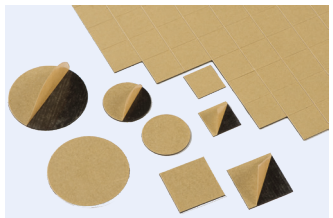
Thickness	Adhesive force	Dimensions (WxH)	blue (RAL 5017)	red (RAL 3020)	orange (RAL 2008)	yellow (RAL 1021)	green (RAL 6029)	white (RAL 9003)	black (RAL 9005)
0,9 mm	45 g/cm²	DIN A4 (210x297mm)	110839	110837	110841	110836	110838	110835	110840
		DIN A3 (297x420mm)	110846	110844	110848	110843	110845	110842	110847

Coloured magnetic strips

- From magnetic foil 165, multi-polar magnetised on one side
- Non-magnetic side alternatively available untreated (material strength: 0.8 mm), colour-coated (thickness: 0.9 mm) or self-adhesive
- The magnetic strips are also available as anisotropic version (strong adhesive force).

Thickness	Non-magnetic side	Width (length: 1 m)	blue (RAL 5017)	red (RAL 3020)	orange (RAL 2008)	yellow (RAL 1021)	green (RAL 6029)	white (RAL 9003)	black (RAL 9005)	Self-adhesive
0,8 mm	raw	10 mm	110888	110874	110902	110867	110881	110860	110895	110909
0,9 mm	colour coated	15 mm	110889	110875	110903	110868	110882	110861	110896	110910
		20 mm	110890	110876	110904	110869	110883	110862	110897	110911
		25 mm	110891	110877	110905	110870	110884	110863	110898	110912
		30 mm	110892	110878	110906	110871	110885	110864	110899	110913
		40 mm	110893	110879	110907	110872	110886	110865	110900	110914
		50 mm	110894	110880	110908	110873	110887	110866	110901	110915

Magnetic dots and squares from magnetic foil MF 165



- Self-adhesive magnetic foils to affix, e.g. information signs, laminated foils, etc. (with magnetic dots), e.g. tools, wooden to ferrous area.
- Simply cut out, remove predective foil and adhere to the backside of the object

- Stays on e.g. metal doors, white boards, electrical cabinets
- Can be easily removed
- Thickness 0.9 mm
- Packaging unit: 100pcs/package

Art. No.	Format	Dimensions
110956	square	20x20mm
110957		25x25mm
110958		30x30mm
110959		40x40mm
110960	round	Ø 20 mm
110961		Ø 30 mm
110962		Ø 40 mm
110963		Ø 50 mm

Magnetic boards From magnetic foil MF 165

- DIN A4 (210x297mm: 110977
- DIN A3 (297x420mm): 110978
- 620x1000mm: 110979
- 1000x1000mm: 110980

- Thickness: 0.9 mm
- Adhesive strength: 45g/cm²

Magnet tape With regular adhesive force

- 10 mm: 110964
- 15 mm: 110965
- 20 mm: 110966
- 25 mm: 110967
- 30 mm: 110968
- 40 mm: 110969
- 50 mm: 110970

- Self-adhesive tape from magnetic foil MF 165
- For the magnetic clinging to objects
- Thickness: 0.9 mm
- Adhesive strength: 45g/cm²
- Length: 10 m

Magnetic tape 160 with strong adhesive force

- 12,7 mm: 122544
- 19,0 mm: 110972

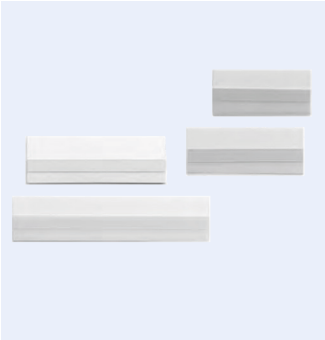
- non-magnetic side coated with self-adhesive
- Adhere textures, posters, pictures and other large areas without having to drill or screw
- Thickness: 1.5 mm
- Adhesive strength: 60g/cm²
- Length: 30 m

Magnet tape 170 with very strong adhesive force

- 12,5 mm: 110974
- 19,0 mm: 110975
- 25,0 mm: 110976

- non-magnetic side coated with self-adhesive
- For the affixing of heavy objects, e.g. tools, folding displays or fair stand decorations
- Thickness: 1.5 mm
- Adhesive strength: 80g/cm²
- Length: 30.5 m

VisuFlex® clamping rail



- Optimal for quickly changeable labellings and markings
- Rear magnetic tape adheres to all ferreous surfaces, and the transparent clamping rail made of flexible plastic material picks up blanks and info documents
- In standing or suspended position
- If there is no ferreous surface available, the clamping rail is combined with magnetic adhesive surfaces such as magnet-adhering bars, magnetic tapes, FerroPad or magnetic strips
- Packaging unit: 5 pcs

Art. No.	Dimensions (WxH)
131139	74x35mm
131140	85x35mm
131141	105x35mm
131142	148x35mm
131143	210x35mm
131144	297x35mm
131145	420x35mm
131146	510x35mm
131147	625x35mm

KVP stripes for clamping rails

- Dimensions (WxH): 508x55mm
- Packaging unit: 20 Pcs.

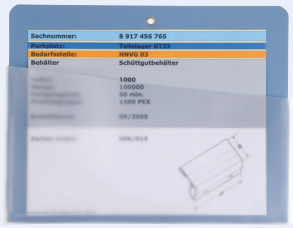
White: 131148

Save resources, time and effort: Lean production and lean. Kanban/ Planning systems

Kanban and planning systems

The primary goal of Kanban is to reduce costs. The smaller stocks because of the higher deployment efficiency and speed lead to less capital and flexibility.

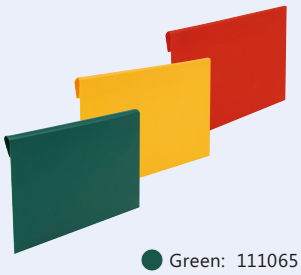
Receipt pouch



Powder blue: 104309

- With tear-proof metal loop centered at the top for the reliable fixing of kanban maps to products or containers
- The transparent pouch is welded to the hard foil back side and is thus often reusable
- Other formats and self-adhesive or magnetically adhesive version upon request
- For DIN A5 landscape format
- Volume capacity approx. 10 mm

Check boxes in traffic light colours

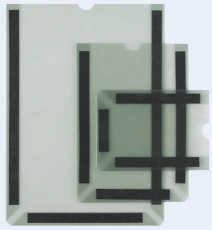


Green: 111065
Yellow: 111064
Red: 111063

- Length: 90 mm

packaging unit: 10 pcs

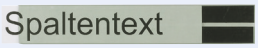
Display pouches



- Grey-transparent plastic display pouches that have been antistatically treated in a special procedure
- Sloped on 3 sides to the back and one narrow side open
- With handle press-cut for the easy removal of documents

Self-adhesive	Magnetically	Format (WxHxD)
106256	106257	DIN A3 (303x425x3mm)
106254	106255	DIN A4 (218x303x3mm)
106258	106259	DIN A5 (155x217x3mm)

Column text bar



106264

- Made of grey-transparent
- Antistatically treated plastic
- In C form sloped to the back
- Magnetically adhesive
- WxH: 700x100mm

Receipt dispenser

- Grey-transparent plastic display pockets (antistatically treated)
- On 3 sides to the back
- With handle press-cut for the easy removal of documents

Magnetically	Format (WxHxD)
106265	DIN A4 (218x303x16mm)
106266	DIN A5 (155x217x16mm)
106267	DIN A6 (112x153x16mm)

Team information, planning targets, sales documents: Important information has to be at hand.

Information and presentation systems

Our information boards, document and receipt holders make sure that your documents are visually present and immediately at hand when needed. Thus, they are an important element for the success of your planning, production and sales strategies.

Magnetic frame

- From non-reflecting, transparent foil
- Magnetically adhesive with three magnetic strips
- One narrow side open
- Usable for portrait and landscape formats

Dimensions	Blue	Red	Yellow	Green	Silver
DIN A4 (240x326mm)	119020	119018	119021	119019	119022
DIN A3 (326x450mm)	106418	106416	106417	106419	106421

"Griffsicht" system base unit

- Stable, modular presentation system for brochures, catalogues, magazines and other documents
- Desired number of the individual, stable powder-coated steel sheet containers
- Simply nested and form a clearly arranged scales that can also be extended subsequently
- Basic unit is screwed into the wall, high and heavily used scales can be additionally secured with intermediate mounts
- Basit unit consists of:
  - 2 x wall mounts
  - 2 x containers with a volume capacity of approx. 15 mm
  - 1 x end plate

Format	Blue	Yellow	Aluminium grey	grey-white
DIN A4 portrait	104384		104380	
DIN A4 landscape		104374		104375
DIN A5 portrait	104370			

Supplelemental element to mount into the basic unit

- Volume capacity approx. 15 mm

Format (WxH)	Page frame	Blue	Yellow	Aluminium grey	Grey-white
210x102mm (218x90mm)	25 mm				104347
DIN A4 portrait (235x290mm)	68 mm	104342		104338	
DIN A4 landscape (307x200mm)	45 mm		104332		104333
DIN A5 portrait (160x200mm)	45 mm	104328			

End plate

- Is hinged into the last container

Dimension (WxH)	Blue	Yellow	Aluminium grey	Grey white
210x102mm (215x65mm)				104432
DIN A4 portrait (232x222mm)	104427		104423	
DIN A4 landscape (304x155mm)		104417		104418
DIN A5 portrait (157x155mm)	104413			

Metal display pouches

- Grey aluminium: 105979

Incl. magnet mounting with two adhesive magnets

- Grey aluminium: 105986

- Simple steel sheet document holder
- Sloped on three sides
- Narrow side open
- For DIN A4 documents (WxH: 220x304mm)
- Usable as portrait or landscape format
- With 4 drilling holes for wall mounting
- Special dimensions upon request

Cover foil

- Transparent: 105619

- Predective foil for metal display pouch
- Surface matt or clear

Display box DIN A4

- Umber grey: 106411

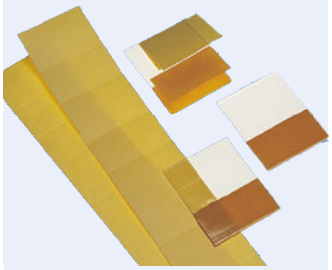
- Total dimensions: 360x295x80mm (WxHxD)
- 2 transparent plastic cases for receipts or other documents in DIN A4 landscape format
- Cushioned plastic base plate, umber grey, with 4 holes for wall mounting
- Page frame: 60 mm
- Display boxes can be arranged step-like due to the form of the cases that are wider towards the top

Display box DIN A5

- Umber grey: 104445

- Total dimensions:255x350x50mm (WxHxD)
- 4 cases in DIN A5 landscape format
- Page frame: 60 mm

Transparent tabs



- Transparent: 104629

- Self-adhesive tabs for system "Griffsicht" and display box
- Dimensions (WxH): 50x36mm

Packaging unit: 25 pcs

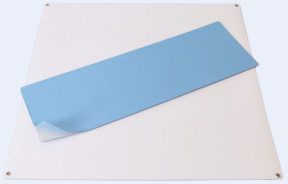
FerroPad®-Smileys

- White (detachable): 119454
- White (foam adhesive): 119455

- Detachable or with foam adhesive
- With two Ferro Smileys and two magnets, you can hang things on glass surfaces, cabinets and doors
- The Ferro Smiley has a diameter of 66 mm
- A white magnetic surface printed with a smiling face

Packaging unit: : 25 pcs

FerroPad® Holding surface for magnets, also with whiteboard surface



- FerroPad® for you and deliver it in almost any shape or size
- Special foil on the surface creates an individual whiteboard
- Can be written on using drywipe or wet-wipe markers and can be combined with magnets from the value-stream symbols range

Art. No.	Design	WxH
119446	Rear side, blank, with 4 eyelets for mounting	570x570mm
119447	Rear side with foam adhesive for rough surfaces	
119448	Rear with magnetic foil	
119449	Rear with foam adhesive for rough surfaces	570x190mm
119450	Rear with magnetic foil	

RasterPlan plastic bins

Robust plastic polyethylene boxes, unbreakable and undeformable due to their material and construction, measure up to even the most demanding requirements. Their special construction permits various applications: for storage and stacking (surrounding stacking rim), for use on runners, for hanging on hanging rails and perforated panels, and much more

- Operating temperature: –40 to 80 °C
- Resistant to acids, oils and leaches
- Easy to clean due to smooth internal walls
- Label holder with special restraints to prevent the labels slipping out

Plastic bins — 5 years guarantee

Secure, ergonomic handling thanks to the generously dimensioned, extra-strong recessed grips at both narrow ends (sizes 1 to 4).

Special hanging strip on the rear which makes it possible to keep even a full bin absolutely horizontal when attaching to, and removing from, a perforated panel (sizes 5 to 8).

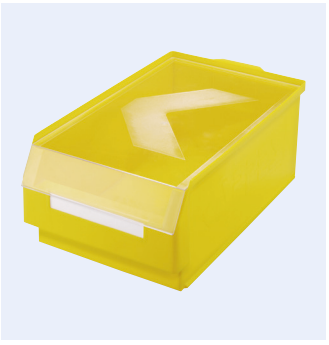
Designed for use on conveyors and runners.

ESD versions are available; these are ideal for storing electronic components. On request.

LxWxH (mm)	Size 1 500x300x250mm	Size 2 500x300x200mm	Size 3 350x200x200mm	Size 4 350x200x150mm	Size 5 290x140x130mm	Size 6 230x140x130mm	Size 7 160x105x75mm	Size 8 85x105x45mm
Blue	102884	102889	102895	102900	102906	102911	102917	102923
Red	102885	102890	102896	102901	102907	102912	102918	102924
Yellow	102886	102891	102897	102902	102908	102913	102919	102925
Green	102887	102892	102898	102903	102909	102914	102920	102926
Grey	102888	102893	102899	102904	102910	102915	102921	102927
ESD black	On Request							

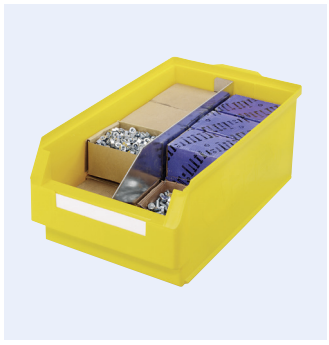
Accessories for plastic pins

White (paper) and transparent (plastic) labels



Transparent lid made of 2 mm polystyrene

Grip



Longitudinal divider made of galvanized sheet steel

LxWxH (mm)	Size 1 500x300x250mm	Size 2 500x300x200mm	Size 3 350x200x200mm	Size 4 350x200x150mm	Size 5 290x140x130mm	Size 6 230x140x130mm	Size 7 160x105x75mm	Size 8 85x105x45mm
Labels white	102940	102940	102942	102942	102944	102944	102946	102948
Labels transparent	102941	102941	102943	102943	102945	102945	102947	102949
Lid	102929	102929	102930	102930	102931	102932	102933	
Grip	102938	102938	102939	102939				
Divider	102934	102935	102936	102937				

Load stacked plastic bins

Size	Content	Stacking quantity	Load
1	40 kg	5 Boxes	200 kg
2	38 kg	5 Boxes	190 kg
3	25 kg	5 Boxes	125 kg
4	20 kg	5 Boxes	100 kg

Size	Content	Stacking quantity	Load
5	10,5 kg	5 Boxes	52.5 kg
6	8 kg	5 Boxes	40 kg
7	2,5 kg	5 Boxes	12.5 kg
8	0,7 kg	5 Boxes	3.5 kg

Storage rack box

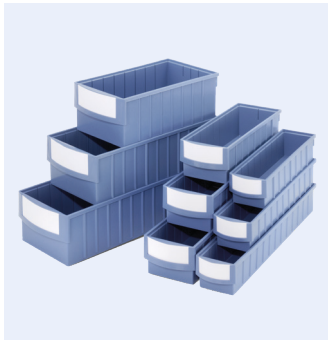
- Boxes made of shock-resistant polypropylene for any kind of small parts. Size adjusted to the established shelving dimensions.
- Working temperature: -40 to 70°C
- Resistant to common acids and alkaline solutions
- Integrated label case
- Partitions sit precisely and stably thanks to lateral guide and additional fixing on the base

Width x Height	120x65mm			240x65mm		
Depth	300 mm	400 mm	500 mm	300 mm	400 mm	500 mm
Blue	102979	102983	102990	102981	102985	102992
Red	102980	102984	102991	102982	102986	102993

Accessories Division plate for plastic pins

Width x Height	120x65mm	240x65mm
Division plate blue	**103003**	**103005**
Division plate rot	**103004**	**103006**

Volume storage rack box



Volume storage rack boxes made of shock-resistant, highly resilient polypropylene. Thanks to the many sizes – adapted to the established shelving dimensions – and the stacking rim around the edge, there are many possibilities for building small part storage facilities.

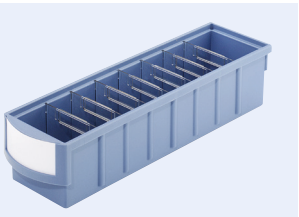
- Working temperature: -40 to 70°C
- Resistant to common acids and alkaline solutions
- Integrated label case
- Slot guide ensures a precise seat for the cross and longitudinal partitions

Colour	Width x Height	Depth		
		400 mm	500 mm	600 mm
Pigeon blue	113x85mm	**102987**	**102994**	**102997**
	153x105mm	**102988**	**102995**	**102998**
	235x145mm	**102989**	**102996**	**102999**

Longitudinal partitons for volume storage rack box

Length	Height	Art. No.
400 mm	105 mm	**103011**
	145 mm	**103012**
500 mm	105 mm	**103013**
	145 mm	**103014**
600 mm	105 mm	**103015**
	145 mm	**103016**

Cross paritions for volume storage rack box



- For storage (WxH)

- 113x85mm: 103000
- 153x105mm: 103001
- 235x145mm: 103002

Labels for volume storage rack box

- For storage (WxH)

- White (113x85mm): 103007
- White (153x105mm): 103008
- White (235x145mm): 103009

Euro transport containers

Robust polypropylene transport containers; dimensions adjusted exactly to standard Euro pallet. Thanks to the uniform grid dimension, the various sizes can be combined and stocked however you want. Extremely high load capacity (high compression resistance) thanks to strong reinforcing ribs and a stacking rim around the edge.

- High shock and break resistance
- Working temperature: -40 to 70°C
- Resistant to common acids and alkaline solutions
- Low-noise operation on conveyor lines and flow racks
- Further sizes on request
- with handle opening
- Cover on request

Length x Width	400x300mm			600x400mm				
Height	120 mm	180 mm	220 mm	120 mm	180 mm	220 mm	320 mm	420 mm
Blue	102955	102958	102961	102964	102967	102970	102973	102976
Red	102956	102959	102962	102965	102968	102971	102974	102977
Grey	102957	102960	102963	102966	102969	102972	102975	102978
ESD black	On Request.							

Floor marking systems BEEStripe

With the help of floor marking systems, travel times and transportation costs can be achieved by optimizing the necessary arrangements for the value-adding activities things are kept to a minimum.

Summary table for the appropriate use of BEEStripe

Adhesion	MeanLean	Supreme V	X-Treme
New floors	9	10	10
Sealed/epoxied	9	10	9
Unsealed floor	6	9	5
Chipped/gouged	-	6	-
Uneven	5	7	-
Oily	6	8	5
Wet	5	6	5
Non-skid/textured	Test	Test	Test
Heavy fork traffic	8	7	10
Skidding/pivoting	8	5	10
Dragged/pushed pallets	7	6	8
(10 = superior)			

BEEStripe MeanLean

- Thinner and more economical marking material (marking the "central aisle")
- Wear-resistant and easy to clean
- Thickness: 0.56 mm
- Roll length: 30 m

Width	White	Yellow	Orange	Red	Green	Blue	Black
5 cm	119772	119757	119766	119760	119775	119763	119769
7.5 cm	119773	119758	119767	119761	119776	119764	119770
10 cm	119774	119759	119768	119762	119777	119765	119771

BEEStripe Supreme V

- For non-ideal floor conditions
- Sloped edges also reduce the risk of stumbling and crashing
- Thickness: 0.86 mm
- Roll length: 30 m

Width	White	Yellow	Orange	Red	Green	Blue	Black
5 cm	116088	116082	116097	116085	116094	116091	116100
7.5 cm	116089	116083	116098	116086	116095	116092	116101
10 cm	116090	116084	116099	116087	116096	116093	116102

BEEStripe Hazard Surpreme

- Long and permanent floor marking
- In almost every environment
- Thickness: 0.86 mm
- Roll length: 30 m

Width	Black/yellow	Red/white
5 cm	116115	116112
7.5 cm	116116	116113
10 cm	116117	116114

BEEStripe X-Treme

- High performance floor marking system
- Used in critical environments and areas with heavy forklift traffic
- Special covered surface that is easy to clean
- Sloped edges so that it cannot be so easily damaged when they are crossed by fork lifts
- Thickness: 0.76 mm
- Roll length: 30 m

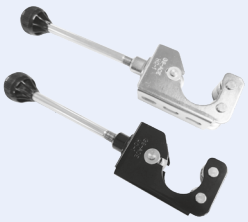
Width	White	Yellow	Orange	Red	Green	Purple	Light blue	Blue	Brown	Grey	Black
5 cm	116157	116145	116151	116139	116154	119778	119781	116142	119784	119787	116148
7.5 cm	116158	116146	116152	116140	116155	119779	119782	116143	119785	119788	116149
10 cm	116159	116147	116153	116141	116156	119780	119783	116144	119786	119789	116150

With the right tool do everything...

Tools

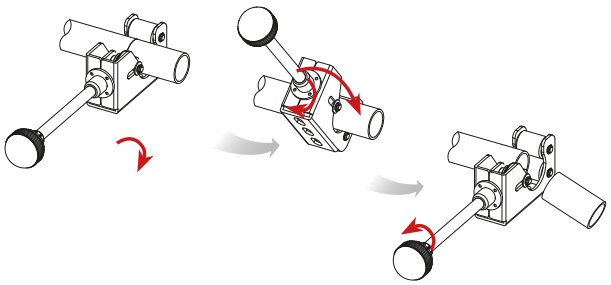
- Enables easy construction with our modular system
- Ideal for your daily work

HC-1 Pipe cutter



BK: 127507
Ni: 127506

- For quick and safe cutting
- Diameter: Ø26 mm ~ Ø30 mm
- For SUS-pipe, coated pipe and ECCO-star pipe
- Including pippe cutter knife
- Spare cutting wheel orderable *(Art. No. 131156 PK-1)*



Weight: 49 g

T7007 Compact pipe cutter

WZ: 103437

- For the accurate cutting of pipes up to Ø 35 mm
- Body made of powder-coated, die-cast zinc
- Four-castor guide
- With fast spindle feed running in steel bearings, complete with retractable deburring blade
- 20 mm cutting wheel *(103438)*
- Spare wheel in knob

Weight: 500 g

T7005 Internal and external mill

Aluminium: 111474

- For the internal and external deburring of Ø 8 – 35 mm pipes
- Aluminium body

Weight: 187 g

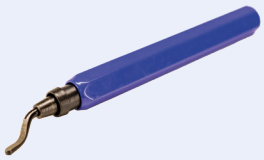
T7004 Drill adapter

WZ: 111475

- Adapter to take T7005 internal/ external milling tool
- Made of stainless steel

Weight: 120 g
Packaging unit: 70 pcs

T7006 Deburring tool



403491

- For light and medium deburring work
- Blade holder can be extended up to 125 mm
- Universal plastic grip with screw cap and retainer for spare blades
- Deburrer complete with grip, blade holder and one universal Ø 2.6 mm HSS blade for steel and aluminium and one Ø 2.6 mm blade for brass and plastic.

Weight: 122 g

Screwdriver T-handle, hexagon socket

NEW

607419

- with asymmetric 2K handle for a better grip and perfect power transmission
- Through-hole for storage on the wall hook
- Matt chrome-plated blade for increased corrosion resistance
- Spanner width 5 mm
- Blade length 115 mm
- Length of side drive 17 mm

Weight: 83 g

T7017 Soft face hammer

109710

- Recoilless
- Low-noise and easy on the joints
- Impact inserts made of special nylon with maximum strength
- Completely robot-welded
- Vibration-damping, ergonomically shaped, very stable and coated hickory handle
- Handle protection sleeve
- Handle and impact inserts replaceable.

Weight: 564 g

T7015 Torque wrench 1/4“

104095

- Adjustable from 4 to 20 Nm by micrometer scale, with locking against inadvertent displacement
- Integral ratchet to take socket wrench inserts
- Only for clockwise tightening
- Square Drive 1/4".
- *Order together with T7016 socket wrench insert!*

Weight: 44 g

T7016 Socket wrench insert 1/4“ SW 5

104096

- Suitable for assembling pipe joints
- 1/4" square drive SW5 for Allen bolts
- Base made of chrome vanadium steel, matt chrome-plated.
- Blade made of nickel chromium molybdenum steel; DIN 3120 / ISO 1174

Weight: 46 g
Packaging unit: 180 pcs

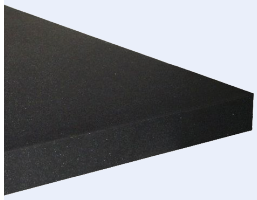
Shadow board with tools

115299

- Fully equipped shadow board for pipe mounting
- Dimension (DxWxH): 446x368x25 mm

Weight: 2680 g

E 50166 Shadow board panel



104071

- 1000x1000x10mm single colour foam plate
- Anthracite/black
- For selfconstruction of a shadow board
- Further thicknesses and wooden plates for the base frame on request

Weight: 700 g

Shadowboard

402403

- 2000x1000x30mm foam plate
- Grey (25 mm)/Anthracite (5 mm)
- For making a shadowboard yourself
- Wooden panel for the substructure on request

Weight: 2,7 kg

PBS 90/130/171 ECS Assembly saw

- Engine power: 0,95 kW/1,2 kW/1,5 kW / 230V
- Belt speed: 30-80 m/min-continuous
- Saw band dimensions (LxWxH): 1335x13x0.65mm/ 1440x13x0.65mm/ 2035x20x0.9mm
- Footprint (LxW): 310x650mm/ 350x650mm/ 430x960mm
- For cutting steel/stainless steel/alumiunium and plastic profiles
- Easy mitre adjustment
- PBS 171 ECS with
  - Precise saw bench, safe operation with jig and saw
  - Break-proof, ergonomic handle
  - Break-proof motor case

PBS 90 ECS 108906

PBS 130 ECS 108907

⊞	90°	110	110	130x110	1,05	H 13	19	B 350	30-80
⊡	45° Li.	95	95	85x85		s 0,65		L690	
⊠	60° Li.	60	60	60x70		L 1,440			

PBS 171 ECS 108908

	90°	172	170	170x170	1,5	H 20	38	B 430 L 960	30-80
	45° Li.	130	130	130x130		s 0,9			
	60° Li.	85	80	80x90		L 2,035			

Compact 250 Metal circular saw

- Engine power: 1 kW/400V
- Belt speed (D/d): Ø250/32mm
- Dimension (LxWxH): 800x300x750mm
- Automatic cooling directly on the saw blade
- Double bearing saw head
- For cutting steel/stainless steel/alumiunium and plastic profiles
- Safety switch 24 V integrated into handle with restart lock
- Length stop, assembly tools
- Base frame (optionally)

Compact 275 Metal circular saw

- Engine power: 1,1 kW/400V
- Belt speed (D/d): Ø275/32mm
- Dimension (LxWxH): 850x500x950mm
- Automatic cooling directly on the saw blade
- Double bearing saw head
- For cutting steel/stainless steel/alumiunium and plastic profiles
- Safety switch 24 V integrated into handle with restart lock
- Length stop, assembly tools
- Base frame (optionally)
- Cone safety clutch made of hardened steel to protect the saw blades
- 2 speeds: 33+66 min-1
- Massive cast-iron superstructures
- Mitre setting on the operator's side

Compact 250 108910

	90°	85	70	95 x 60	0,75/230V	D 250	73	B 300 L 800 H 750	52
	45° Li.	70	60	65 x 60	1,0/400V	d 32			

Compact 275 108911

	90°	90	80	100 x 70	1,1/1,3	D 275	112	B 500 L 850 H 950	33+66
	45° Li.	70	70	80 x 60		d 32			

GBS 185 ECO Autocut Horizontal mitre-cutting saw

- Engine power: 2,5 kW / 230V
- Belt speed: 30-80 m/min-continuous
- Saw band dimensions: 2085x20x0,9mm
- Footprint: 870x1550x1740mm
- For cutting steel, stainless steel and aluminum profiles
- Quick action vice with quick clamp device
- Saw band lateral guidance quadruple castors
- Saw band back guidance twin castors
- Electrical automatic cooling
- Engine base (enclosed disassembled)

GBS 185 ECO Autocut 108909

	○	□	□	KW 400 V		Kg		m/1	Variante
60° Li.	70	70	70x70	400V/0,8	L 2,085	205	B 870 L 1,550	35+70	AutoCut

Rechargeable bandsaw M12 BS-402C

118186

- Battery voltage: 12V/5.0Ah
- Belt speed: 0-85m/min
- Saw blade length: 687.57mm
- Inclusive:
  - 2x12V/4.0Ah Red Li-Ion Akku
  - Charger
  - 1x Sawblade
  - Carrying case

Not suitable for continuous operation

Weight: 6.3 kg

T7046 Pipe deburring machine REM 260S

115591

- Pipe deburring machine
- 230 V / 50Hz, 250 W, continuous adjustable speed from approx 33 - 350 1/min
- For steel and stainless steel
- Dimensions: 430 x 280 x 365 mm
- Without countersinking tools – please order as needed
  - Outer contersinks for T7046 *(Art. No. 115593)*
  - Inner contersinks for T7046 *(Art. No. 115592)*

Suitable for continuous operation

Weight: 26 kg

SRM 200 ESD measuring device

117483

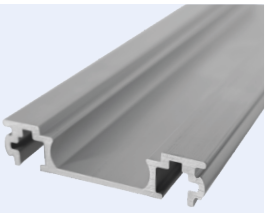
- Device including conductive carry case, earth cable, USB
- Cable and read-out software
- Measurement range: 10^3–10^12 ohms
- Measurement voltage: 100 V no-load voltage
- Operating mode: battery operation and display: LCD display
- Electrodes: bar electrodes with conductive rubber
- Includes data storage and USB interface to PC connection of 2 external electrodes possible

Weight: 380 g

FIFO station

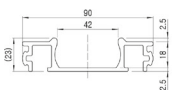
- Optimise your material flow, for reliable material provision Material provision
- Flexibly customisable in width and length thanks to our modular system
- Can be extended as required, lanes can be selected as required
- One guide rail is sufficient per track
- Can be linked to the floor

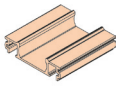
AGR-001 Guide rail



Aluminium: 603287

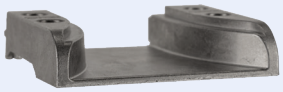
- The wheels of the trolleys are guided in the guide rail
- The guide rail can be cut to the required length
- Do you need a longer guide rail? Then two guide rails are connected with a connecting element





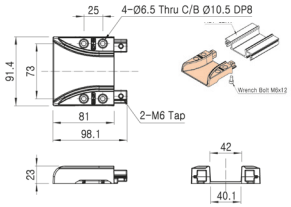
Weight: 1,343 kg/m
Length: 4 m

AGR-002 Insertion element



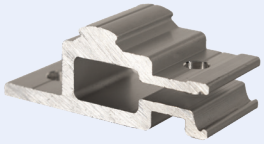
Aluminium: 603285

- Insertion element is attached to the
- guide rail with two M6x12 screws



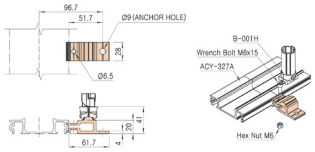
Weight: 135 g

AGR-003 Connecting element



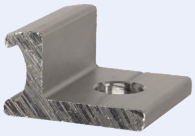
Aluminium: 603282

- Connecting element with profile connection and option to screw the guide rail to The floor



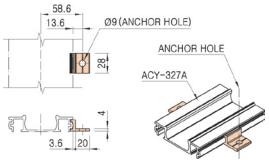
Weight: 40 g

AGR-004 Connecting element



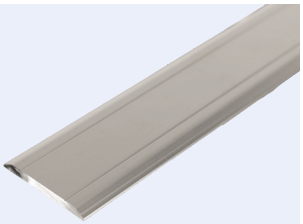
Aluminium: 603283

- Connecting element for screwing the guide rail to the floor



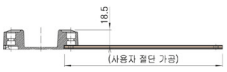
Weight: 12 g

AGR-005 Connection rail



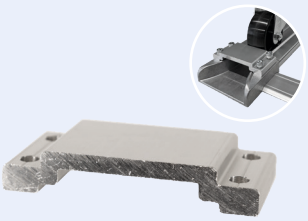
Aluminium: 603286

- Connects two guide rails together in a lateral direction
- Cut to the appropriate length and cut with two M6 threads at each end, the width of the „lanes“ can be customised
- Screwed to the insertion element with M6x12, M6x30 is required when using the end stop



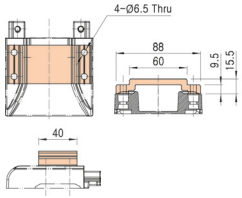
Weight: 0,453 kg/m
Length: 4 m

AGR-006 End stop



Aluminium: 603284

- End stop as a stop at the end of the guide rail
- Can be screwed onto the insertion element with four M6x30“



Weight: 71 g

AGRA-003 Connecting element set

Aluminium: 604808

- with profile connection
- screwing the guide rail to the floor is possible
- Tighten the screw for fastening to the guide rail by hand

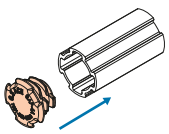
The set consists of the following parts:

- 1 x AGR-003
- 1 x M0615 WZ
- 1 x N06-55 W

GAP-4 Plastic cover cap grey

Grey: 117716

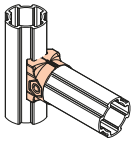
- Plastic cover cap inside



Weight: 3 g
Packaging unit:1500 pcs

BA-001H Basic joint set, internal clamping

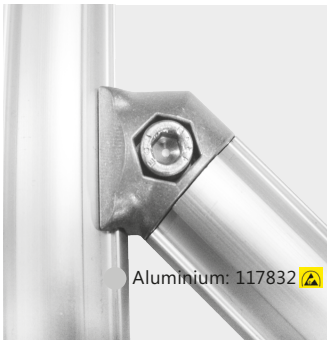
- The aluminium profile pipe AP... can only be inserted and clamped onto the inner joint in 90° steps along the axis of rotation.

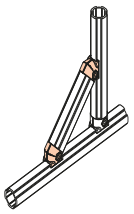


The set consists of the following parts:

- 2 x B-001H (402059)
- 1 x M0620
- 1 x N06-55 W

BA-013 Angle joint set 45 °

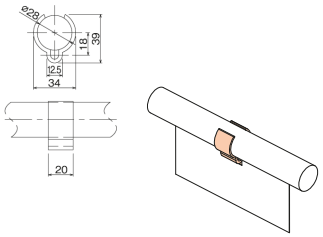




The set consists of the following parts:

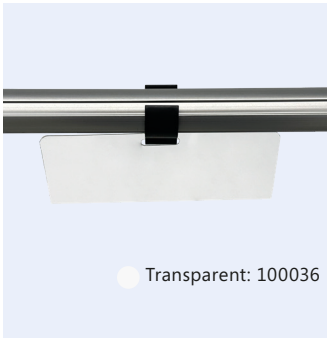
- 1 x B-013L (117010)
- 1 x M0620
- 1 x B-013R (117711)
- 1 x N06-55 W

GAP-06-B Holder for LA-D



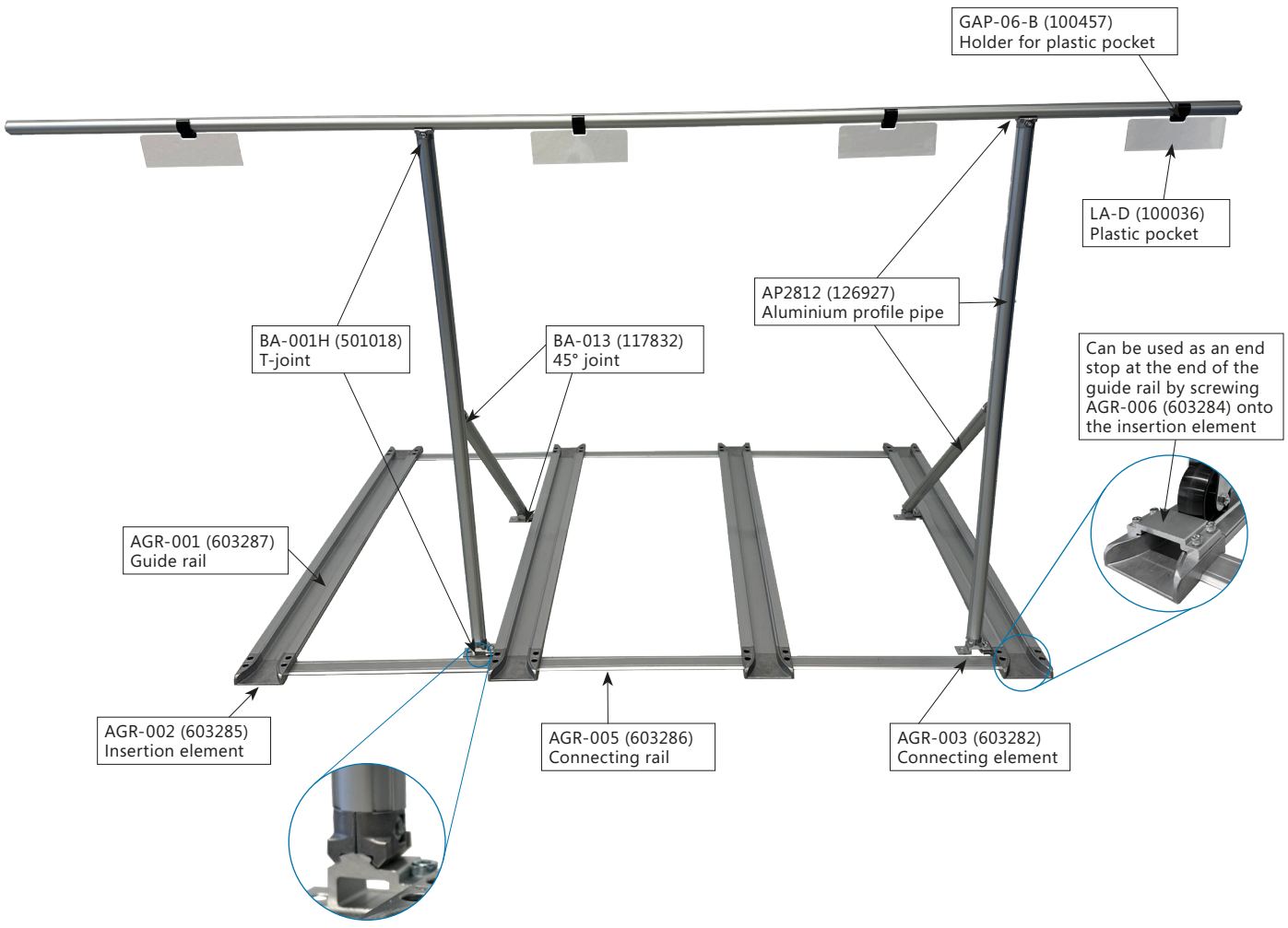
Weight: 5 g
Packaging unit: 1200 pcs

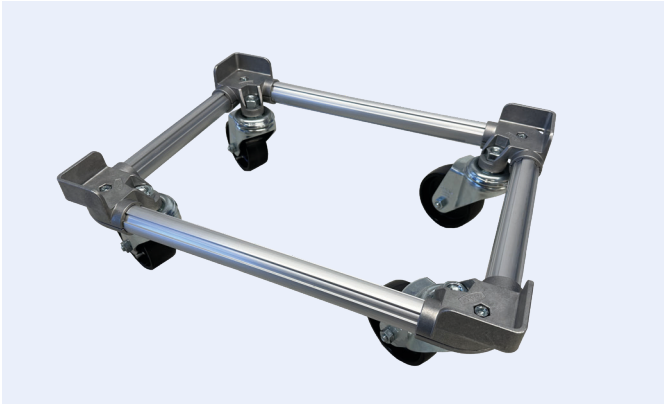
LA-D Transparent plastic pocket



- Format: 150x60mm

Weight: 12 g
Packaging unit: 300 pcs

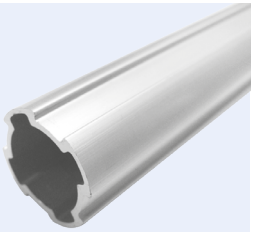


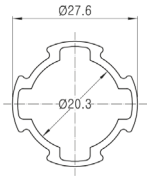


Transport trolley made of profile pipe

- with aluminium profile pipe
- for transporting KLTs, cartons and crates
- Trolley can be built easily and individually depending on the box size
- Max. Max. load approx. 300 kg (depending on the transported goods, the stacking height and the trolley size (risk of tipping))

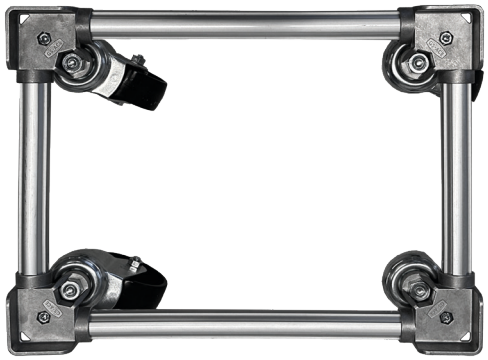
AP2812 Profile Pipe



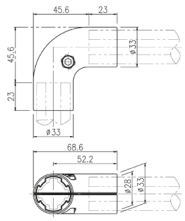


Aluminium: 126927

Wall thickness: 1.2 mm
Weight: 0.380 kg/m
Length: 4 m



A-090 Angle joint, 90°



Aluminium: 117701

Weight: 50 g
Packaging unit: 80 pcs

ACB-G28A Corner joint, 90°

Aluminium: 603945

Weight: 116 g
Packaging unit: 30 pcs

ACBA-G28A Corner joint set, 90°

Aluminium: 603976

- for aluminium profile pipe 28 mm
- for easy production of a transport trolley

The set consists of the following parts:

- 1 x ACB-G28A
- 1 x A-090
- 1 x M0625 WZ
- 1 x N06-55 W

AR-13-80-L-M-POA-G-O Swivel castor with back hole

605056

- Back hole: 13 mm
- Wheel diameter: 80 mm
- tread: polyamide black
- max. load capacity: 120 kg
- Overall height: 108 mm
- Bearing type: plain bearing

Weight: 400 g

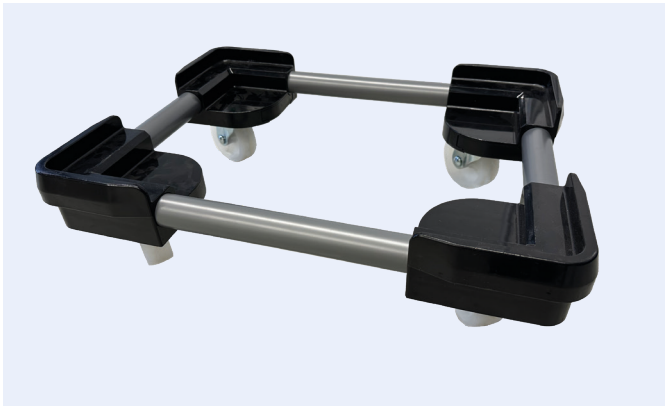
Corner joint set with swivel castor

Aluminium: 605153

- Corner joint set with swivel castor and stop nut for aluminium profile pipe 28 mm
- for easy production of a transport trolley

The set consists of the following parts:

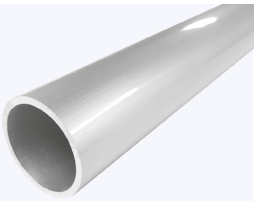
- 1 x ACB-G28A
- 1 x A-090
- 1 x M0625 WZ
- 1 x AR-13-80-L-M-POA-G-O
- 1 x N06-55 W
- 1 x SI1235 8.8
- 1 x MS12

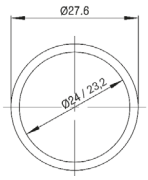


Transport trolley made of round pipe

- possible with aluminium or steel round pipe
- for transporting SLCs, cardboard boxes and crates
- Trolley can be built easily and individually depending on the box size
- max. load approx. 150 kg (depending on the transported goods, the stacking height and the trolley size (risk of tipping))"

AL2818 Round pipe





Aluminium: 125274

Wall thickness: 1.8 mm
Weight: 0.401 kg/m
Length: 4 m

Steel round pipes

- see catalogue page 14

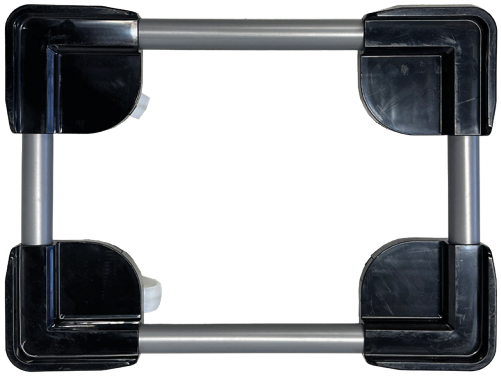
Corner joint set with roller

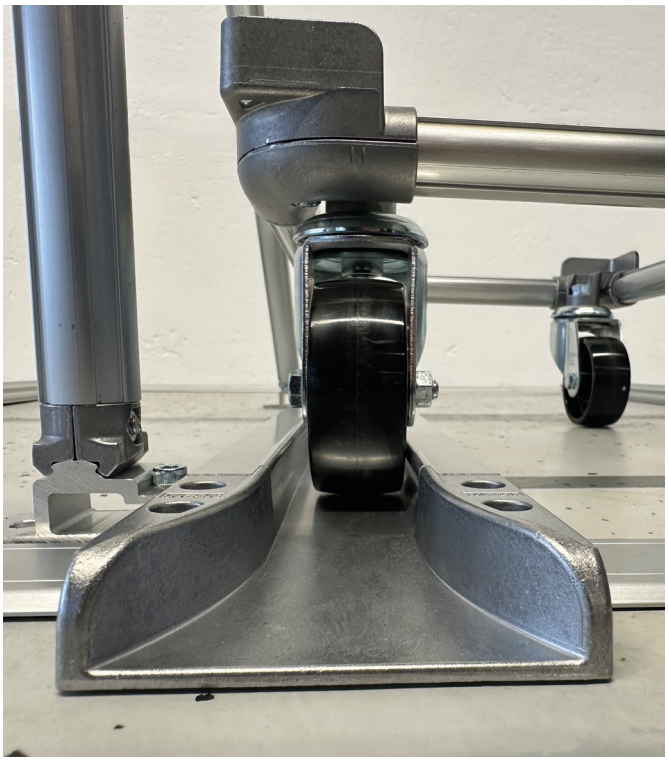
501041

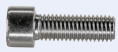
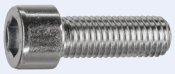
- for round pipe 28 mm
- Pipes are fixed with the help of the drilling screw

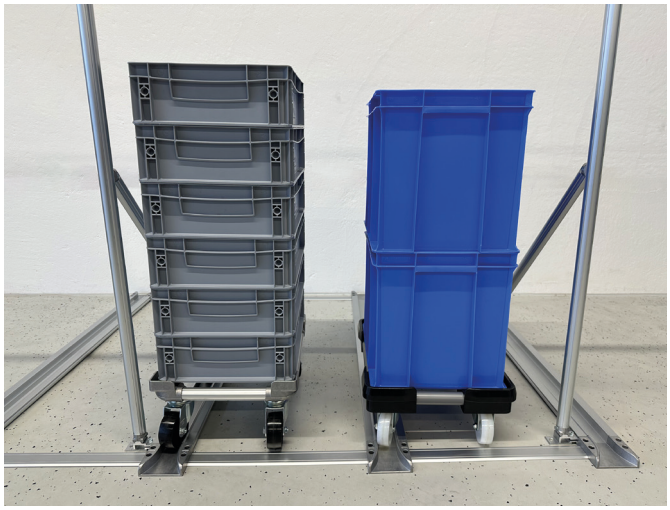
The set consists of the following parts:

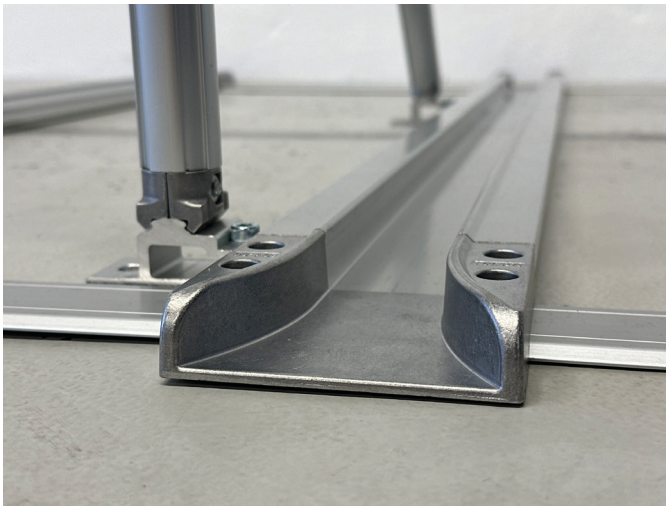
- 1 x GAP-64 BK
- 1 x GAP-65 BK
- 1 x P-363S-3
- 2 x SB4816





Mounting material	Art. No.	Name	Description	Thread type	Length | Height | Ø	Material
	605161	M0612	Hexagon socket head cap screw with low head	M6	Length: 12 mm	galvanised
	402845	M0615	Cap screw for connecting element	M6	Length: 15 mm	WZ
	116362	M0630	Cap screw for joint	M6	Length: 30 mm	WZ
	119380	N06-55	Hexagon nut for aluminium joints	M5	Height 5,2 mm	galvanised
	301657	SI1235	Hexagon socket head cap screw	M12	Length: 35 mm	galvanised
	109756	M12	Hexagon nut	M12	Height: 10,0 mm	galvanised
	109763	SB4816	Self-tapping drilling screw „N“ with pan head and cross recess, for fastening to the pipe		Nominal Ø 4,8 mm Length: 16 mm	galvanised





SPACE FOR NOTES

ASSEMBLY WORKPLACES

Assembly workplaces

BeeWaTec Standard workplace 328
BASIS system table 330
BASIS alaboratory tabel LT range 330
BASIS system tables AT 331

It does not get more flexible than this

BeeWaTec standard workplace

- Completely flexible and freely configurable with many different accessories.
- The BeeWaTec standard workplace always adjusts to your needs!

Tables made out of the BeeWaTec pipe racking system by G.S. ACE are always a versatile solution; regardless of whether you just need a finished table or whether you want to flexibly rebuild or add to an existing table, change the panel size or combine the table with other pipe construction modules – thanks to our pipe construction system, the only limit to your structures is your own imagination.

The coated steel pipe with Ø 28 mm is lightweight yet sturdy, available in various colours and offers an enormous range of joints and accessories.

The standard construction shown with a table height of 900 mm can take a load of up to 200 kg (under an evenly distributed load). It is available with different tabletops, in various pipe colours and in an ESD design.

The pipe construction technology features bolt-on, reusable metal joints, is lightweight yet sturdy, and provides just the flexibility that you are looking for.

Diagonal braces and heightadjustable feet ensure a secure stand.

Options

- Movable design with castors
- Height-adjustable feet
- Hydraulic height adjustment
- ESD design
- Individual tabletops
- Wide range of pipe colours (on request)

BeeWaTec standard workplace with tabletop

Basic element, individually adaptable for any application with diverse attachments.

Art. No.	Name	Dimension (LxWxH)
126826	BeeWaTec standard workplace	800x1074x2200mm
130259	Tabletop	

BeeWaTec standard workplace with tabletop and full equipment (also in ESD version)

Basic element with all available components such as:

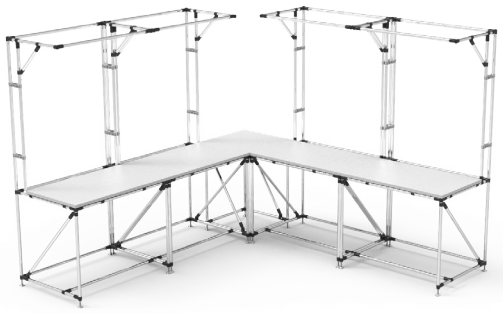
- Peforated plate
- Pivoted slotted plate
- Drawer
- Lifting system
- Storage level
- Foil pocket
- Articulated boom
- Pivoting arm system
- Guide rail
- Light (BeeWaTec LED)
- Mounting rail
- Drink holder
- Six-fold power socket
- Tool holder

The workplace is also available in electrically conductive version

Application example assembly line

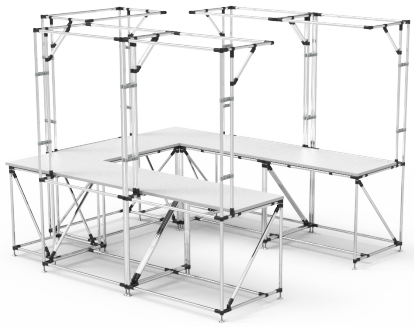
BeeWaTec standard workplace | I-Line design

Arrangement of several standard workplaces a row, in order to get an assembly line.



BeeWaTec standard workplace | L-line design

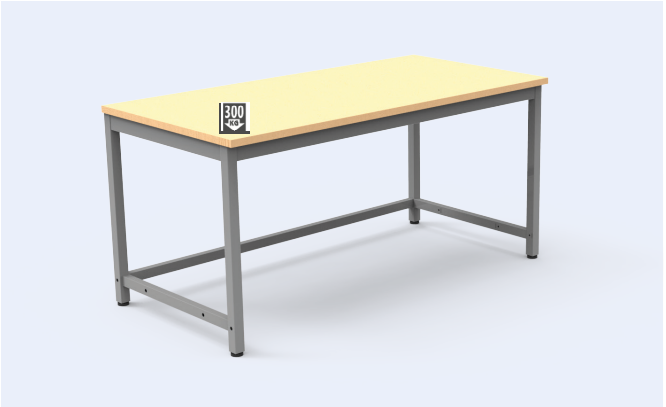
Arrangement of several standard workplaces plus corner module in order to get a L-shaped mounting corner.



BeeWaTec standard workplace | U-line design

Arrangement of several standard workplaces plus two corner moduls in order to get a U-shaped assembly island.

The standardised assembly workplace



BASIS system table

BASIS is a diverse and functional equipment system for laboratories and technical workplaces. The solid table frame made of powder-coated steel tube is available in different widths and depths, making any individual combination possible. The construction is very rigid so that it can also bear heavy superstructures and make unsupported corner solutions with leg room possible. The BASIS system with its extensive range of base units, rolling filing cabinets, table superstructures and cabinets provides the right equipment for every workplace.

Key facts

- Powder-coated steel tube frame
- Table height 780 mm
- Option of setting back when assembled in a row
- ESD version available
- Customer-specific frame colour possible
- Coloured tabletop possible
- Mobile version available
- Corner combination with leg room
- High load-bearing capacity with maximum stability guaranteed
- Option of delivery unassembled for LT/AT

BASIS Laboratory tables, LT range

The BASIS range includes solid laboratory tables for your workplace set-up. Laboratory tables from BeeWaTec always have a modular structure. A few basic components can be combined to create laboratory tables with virtually any conceivable dimensions.

With the standard modular set, there are 3 possible depths and 13 widths. Special dimensions are available. This table series features an impressively high load-bearing capacity with maximum stability guaranteed.

All of the tables are also available in ESD versions. The frames are all powder-coated, whilst the table legs are fitted with levelling screws.

Depth	800 mm	900 mm	1000 mm
Table width	**Art. No.**		
800 mm - 2000 mm (in 100 mm intervalls)	For further details please see the catalogue **„Office. Laboratory. Education 3.1“.**		

AT BASIS work table

The Basis furniture system (*you will find more information in the product category Laboratory & Office*) combines solid frames made of powder-coated steel pipes and various worktops perfectly crafted by hand to produce a harmonious and timeless overall impression.

Functionality is always at the forefront. What is more, the Basis system offers unlimited options when it comes to customised workplace solutions, including a wide range of standard components, creative freedom and an experienced team ready to turn all your ideas into reality.

Details on the BASIS worktable AT

With their clean optical design, solid structure and excellent craftsmanship, the side part, crossbars and tabletop combine to create a harmonious overall impression in all tables.

The construction principle: crossbars of the requested width are fastened to the securely welded side parts – using a stable M12 bolt connection.

We also deliver every AT table in the movable design.

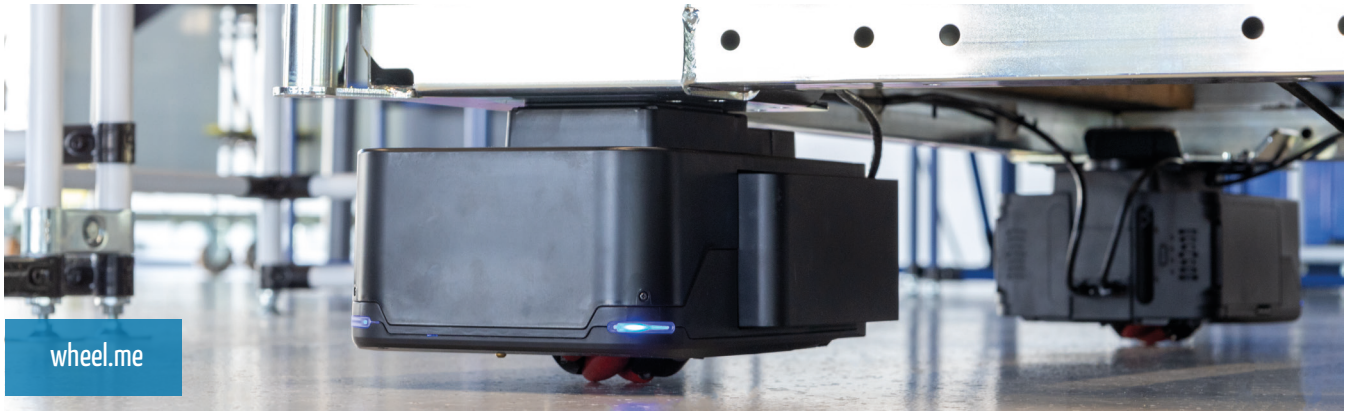
Four generously dimensioned, stable fixed castors (100 mm diameter) – two of which have total locking devices – ensure mobility. Unless otherwise requested by the customer, we mount shortened side parts.

This means that moveable tables are the same height – 780 mm – as all fixed tables.

One structure height is not always sufficient for every table.

The height adjusters are a simply way of adjusting the height. These adjusters mean that the height of every table is continuously adjustable in a range from 780 mm to 920 mm.

Depth	800 mm	900 mm	1000 mm
Table width		Art. No.	
800 mm	AT 1100	AT 1130	AT 1160
1000 mm	AT 1101	AT 1131	AT 1161
1200 mm	AT 1102	AT 1132	AT 1162
1600 mm	AT 1103	AT 1133	AT 1163
1800 mm	AT 1104	AT 1134	AT 1164
2000 mm	AT 1105	AT 1135	AT 1165



GENIUS 2

Automation of transportation tasks, with **unbeatable ROI.**

The Genius 2 module from Wheel_me transforms racks, trolleys, pallets and more into **fully-fledged autonomous mobile robots (AMR).**

250 kg
load capacity with 4 wheels

100%
flexibility in terms of basic dimensions, superstructures and intended use

Premium-Features
ADVANTAGES AT A GLANCE

Freely scalable dimensions of the robot platform

Simple implementation of use cases

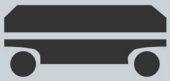
Low downtimes thanks to plug-and-play

In-process-charging for seamless material flow

Reliable connectivity through WiFi & 5G

User-friendly & cross-device in-app control

IN COMPARISON

	4 Wheels (Genius 2)	Other AMR	Manual transport
			
Prices			
One-time coasts	€€	€€€€€	€
Running coast (per year)	€	depending on provider	€€€€€
Premium service (per year)	€	—	—
Features			
Simple implementation	✓	✗	✓
Easy maintenance	✓	✗	✓
Flexibility	very high	medium	low
Load capacity	250 kg	depending on provider	up to > 1.500 kg
Dynamic obstacle detection	✓	✓	✗
Lane-free, autonomous navigation	✓	✓	✗

Prices and technical data can be found on our homepage

wheel_me
Authorized partner

RACKS

These projects have already been realised

601608

601616

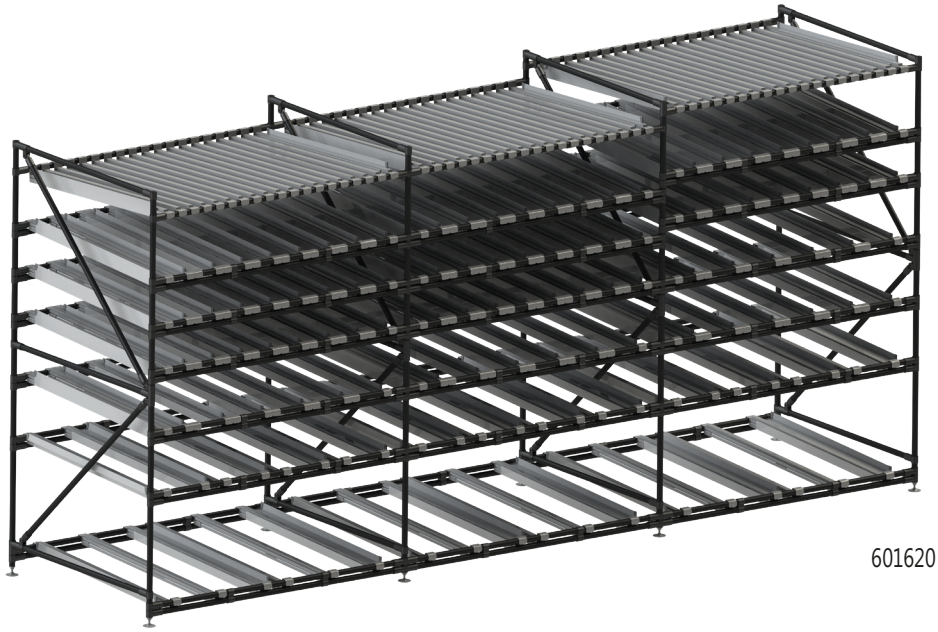
Standard racking, fixed or with mounted rollers possible to optimize material flow and minimize waiting times.

BC108443

FLOWRACKS

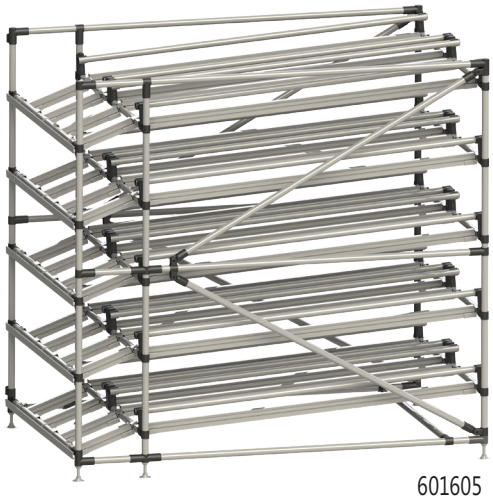
These projects have already been realised

Flow/supply racks are best for keeping material supplies flowing.



601620

Double-sided access.



601605

Storage compact – small base area.

Slight gradient ensures that the next unit slides in.

601606

ASSEMBLY WORK STATIONS | WORK TABLES

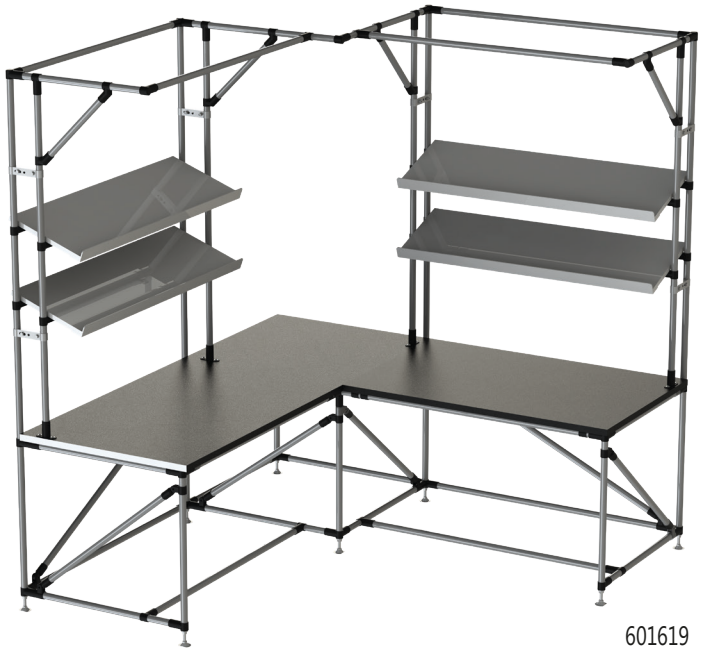
These projects have already been realised

126843

Your assembly workstation: flexible, ergonomic, efficient and (optionally) height-adjustable. Can be completed with any accessories from the BeeWaTec modular system, such as lamps, perforated plates, sockets or drinks bottle holders and much more.

Can be combined with Kanban, flow or material supply racks.

601601



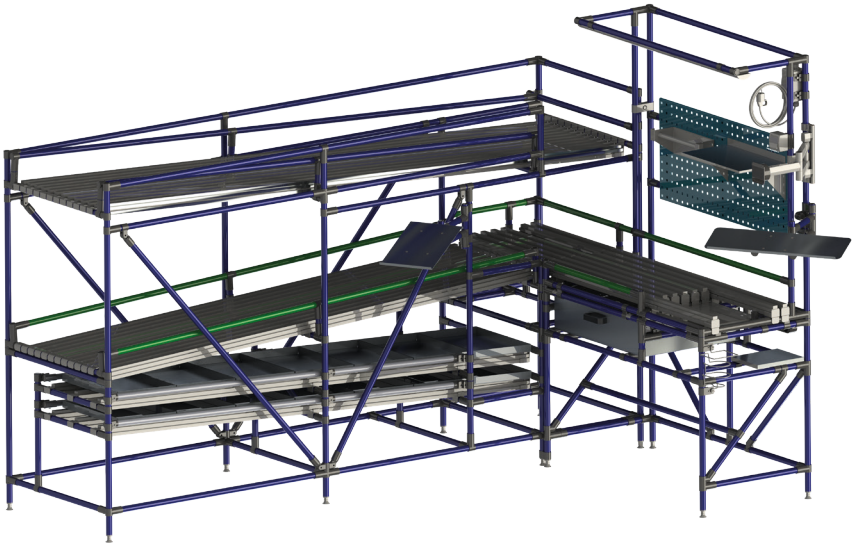
601619

Healthy working position for increased productivity and efficiency through optimized workflows.

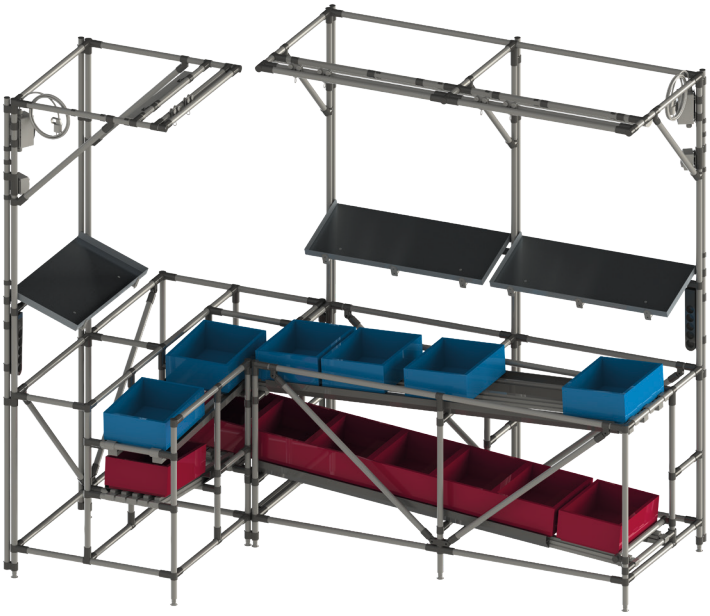
ASSEMBLY LINES | PRODUCTION PLATFORMS

These projects have already been realised

Assembly platforms increase effectiveness and productivity through flow production (one-piece flow).



601617



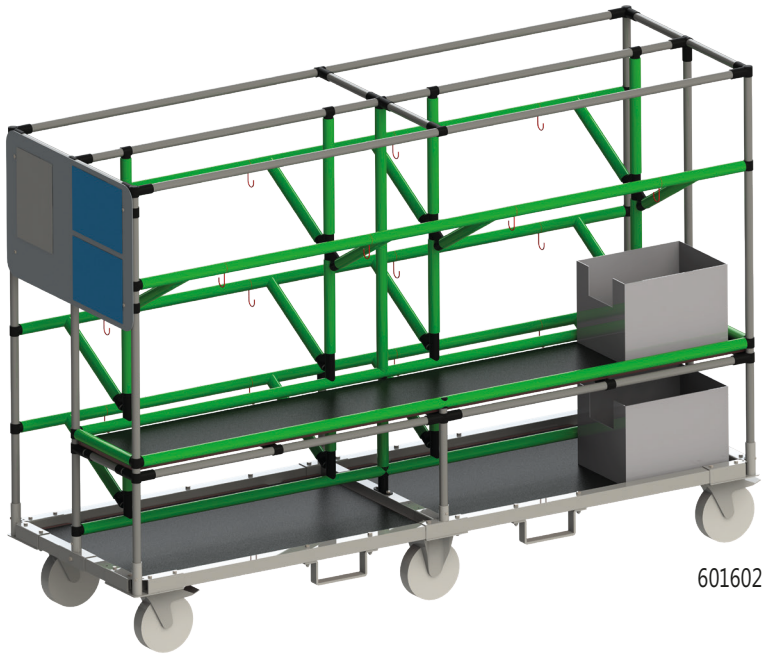
601603

Ergonomic superstructures -
Fast reaction times with high flexibility.

124039

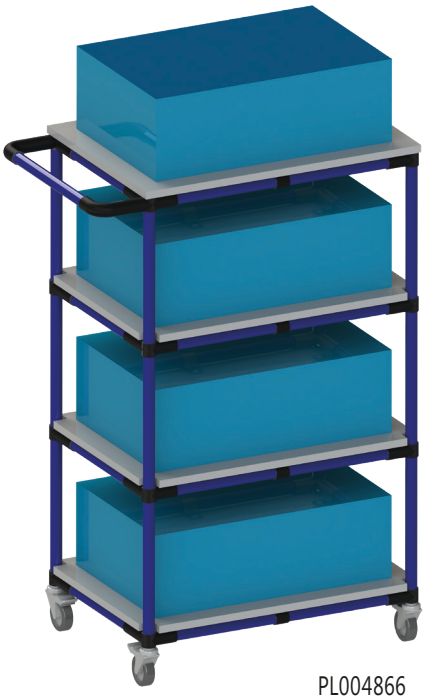
TRANSPORT TROLLEY

These projects have already been realised



601602

In principle, there are no standard transport trolleys. Each material transport trolley should be adapted to your process and your products in order to achieve the highest possible efficiency.



PL004866

601640

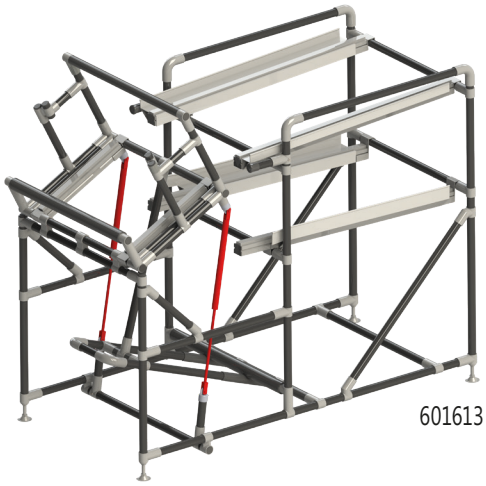
Depending on your load requirements, base frames made of square profile system can also be used. These withstand even greater loads and can be combined with steel or aluminium pipe plug-in system superstructures.

Reduction of transfer and automation of material flows possible.

124807

CONSTRUCTIONS WITH ROCKER FUNCTION

These projects have already been realised

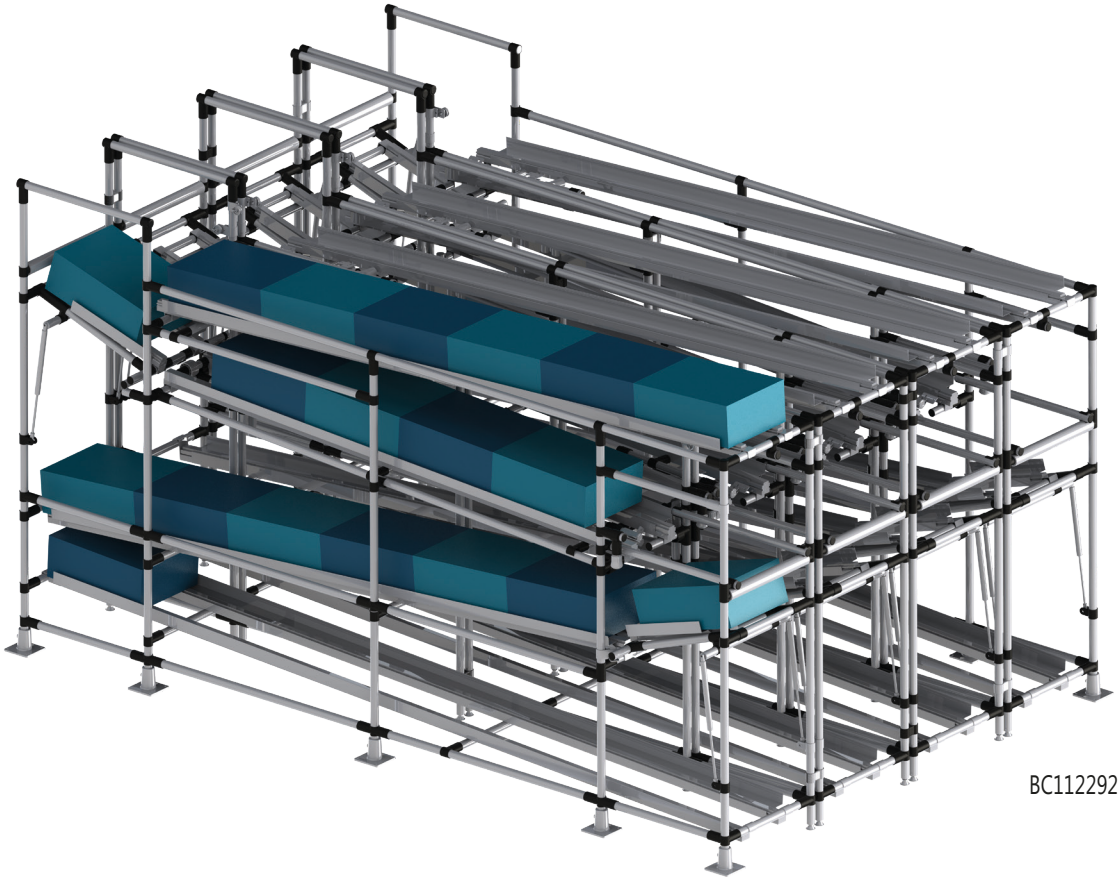


601613

The integrated rocker function simplifies the material transport - and reduces the handling time.

601607

Flexibly expandable and scalable.



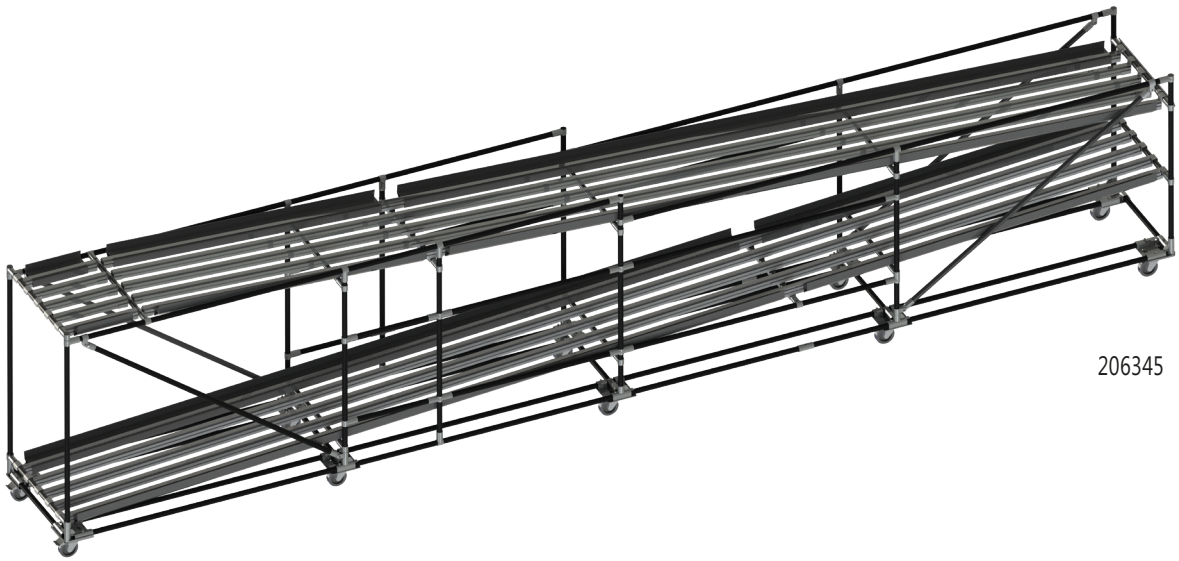
BC112292

CONVEYORS

These projects have already been realised

601648

601649



206345

CONSTRUCTIONS WITH TEXTILE AND FOIL MESHES

These projects have already been realised

601644

601650

RACKS FOR HANGING DELIVERY

These projects have already been realised

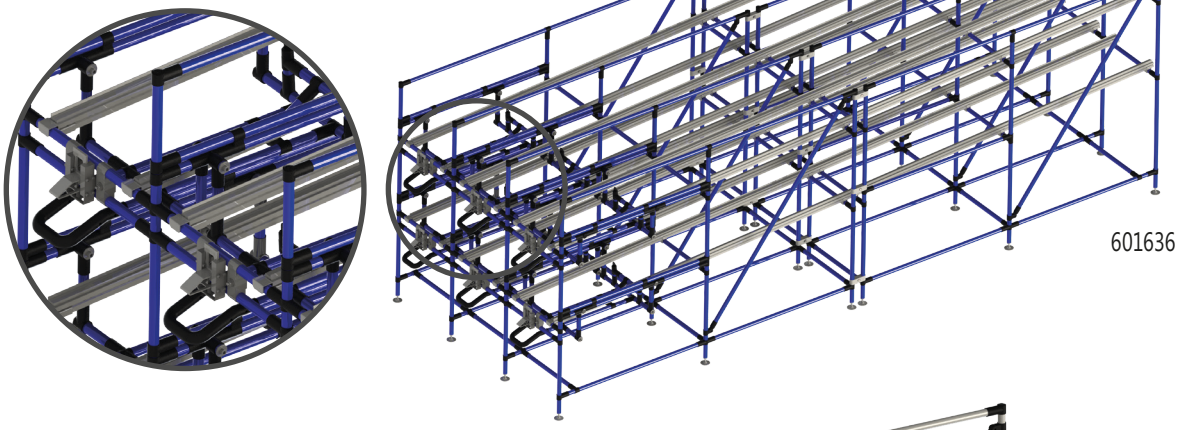
124204

601630

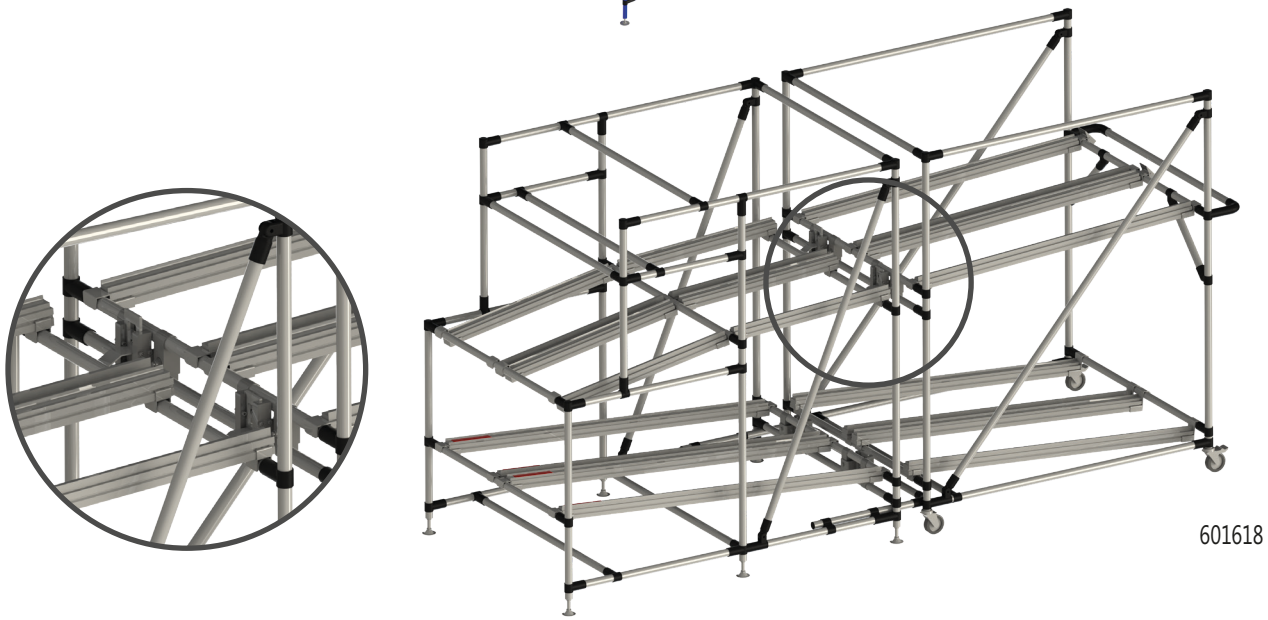
601639

CONSTRUCTIONS WITH SHOOTER FUNCTION

These projects have already been realised

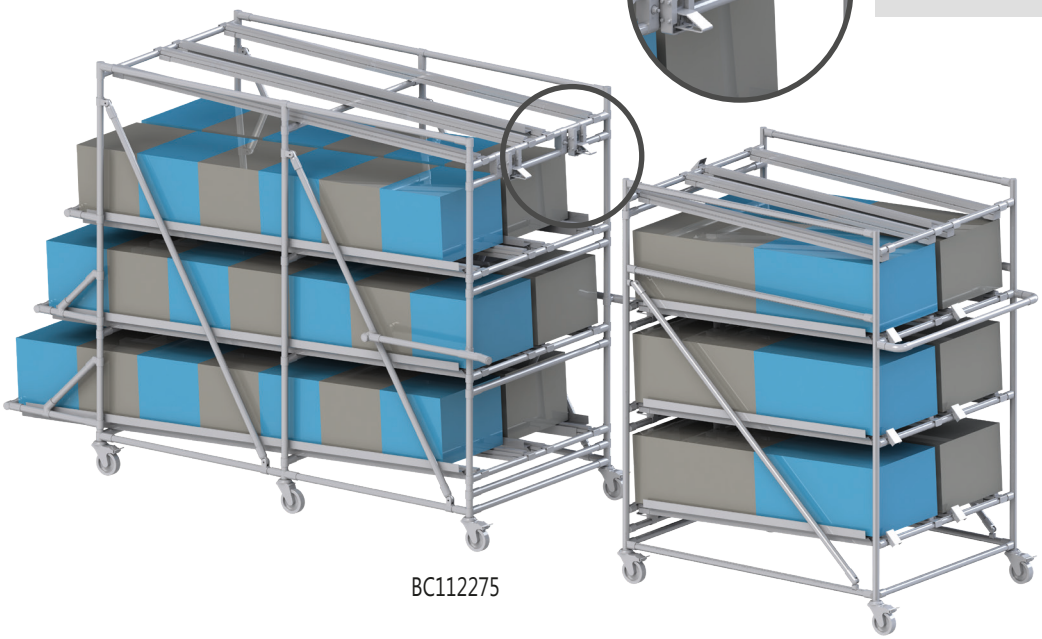


601636



601618

Docking on the shelf triggers the shooter function and the container starts moving by itself.



BC112275

BC112273

ADDITIONAL CONSTRUCTIONS

These projects have already been realised

BC110854

Individual add-on structures - depending on requirements. Can be combined and extended as required.

601635

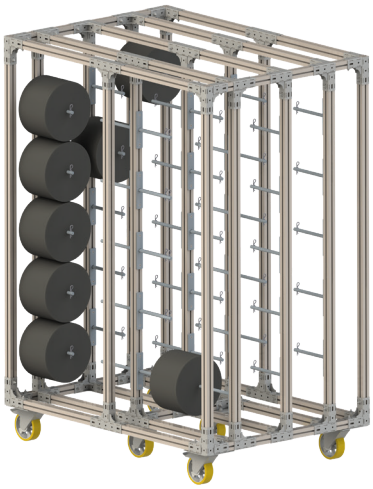
601615

The attached wheels minimize unnecessary walking distances.

SQUARE SYSTEM MC-STRONG – FOR APPLICATION WITH HEAVY LOADS

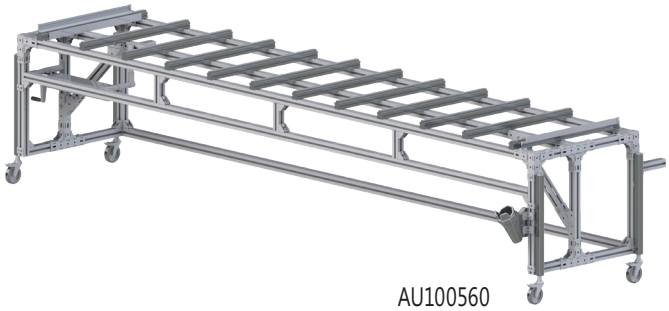
These projects have already been realised

601629



122639

... can be adjusted to any length.



AU100560

601645

The MC connectors make it easy to build up/continue with the round pipe and still guarantee a stable square base frame.

VM 1601

Integrated forklift guides allow additional movement by a forklift truck.

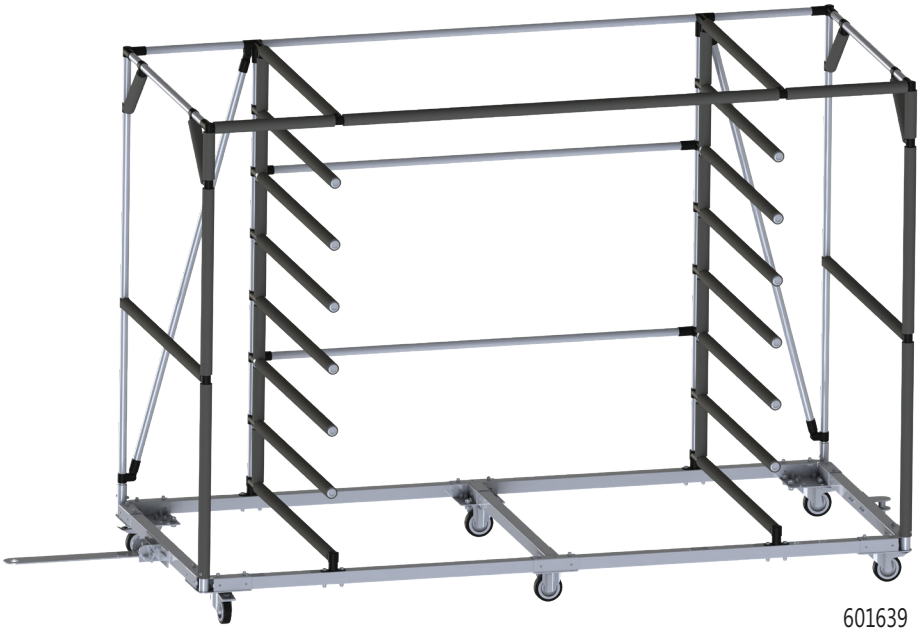
VM 1612

CANTILEVERED TROLLEY

These projects have already been realised

131677

601630



601639

SIGHT PROTECTION | BOUNDARIES

These projects have already been realised

601627

601643

KANBAN AND WHITEBOARD RACKS

These projects have already been realised

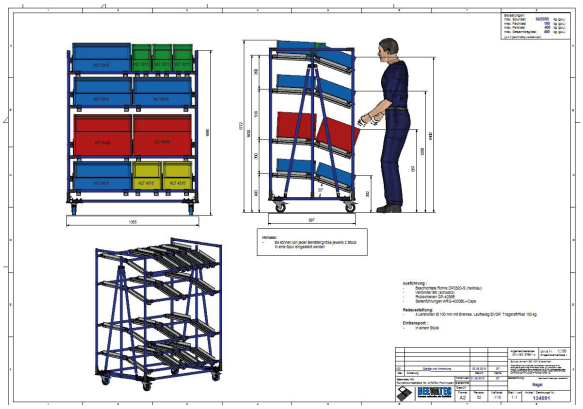
601621

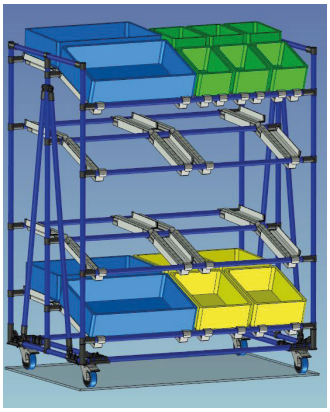
Visualization made easy with the customisable Kanban and whiteboard racks.

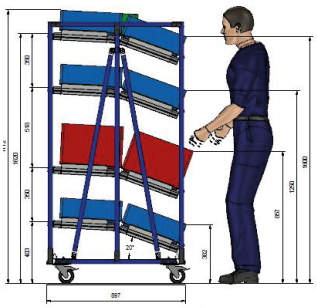
601622

601638

SPACE FOR NOTES







Planning and contruction software

BeeWaTec offers two software tools for designing, planning and implentation of constructions made of the Lean production pipe racking system by G.S ACE: the **3D planning and presentation program BEEVisio**, as well as the **cut optimization program BEELopt** for the optium use of the pipe materials (pipes, roller tracks, lateral guides and other profiles).

BEEVisio to design

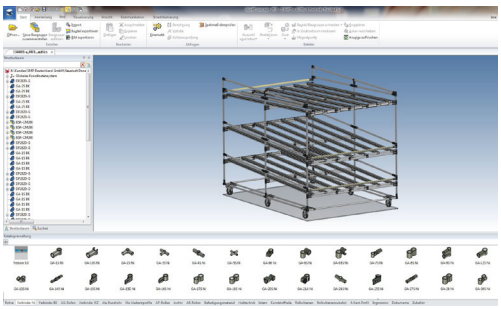
The **planning software BEEVisio** is an easy-to-use program for the construction, presentation and production planning of pipe structures using the BeeWaTec pipe racking system by G.S ACE on the basis of 3D models.

101319 BEEVisio design program for lean production solutions made from pipe racking system including accessories

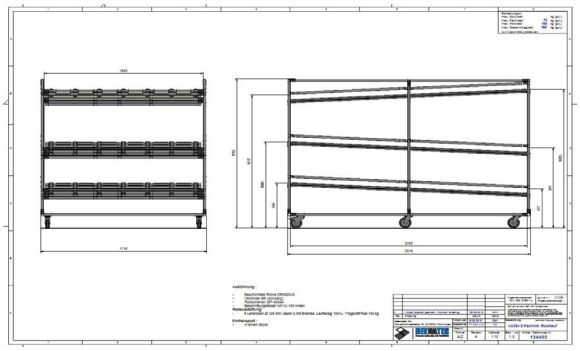
Why the innovative BEEVisio planning software makes your daily project work easier...

Easy planning, 3D design and visualisation of your lean production solutions - including parts list

- Quick and easy drag & drop access to 3D part geometries, making available to you the BeeWaTec intelligent kit system for all standard components
- Quick placing of components with magnets
- Piece lists for sourcing and calculation can be generated at the touch of a button



Example of a 3D drawing with the individual elements in the structure tree (left) and standard elements in the catalogue (below).



Export of 2D views and building plans from the 3D model

Fast and impressive rendered 3D presentation

- Impressive and realistically rendered 3D representations offering improved discussion and information processes by means of meaningful, visual models
- Optical basis for team discussions; the construction can be adapted to requirements and wishes at any time during the discussion
- Transfer to the hall plan possible (option)

Easy 2D export and import from cut optimisation program BEELopt

- Export of 2D views and building plans from the 3D model

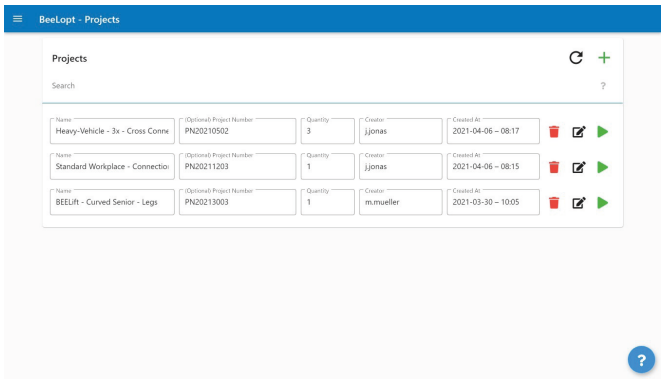
Do you need your planning software for temporary use only or should several colleagues work on a project at short notice, or are you looking for software for permanent use?

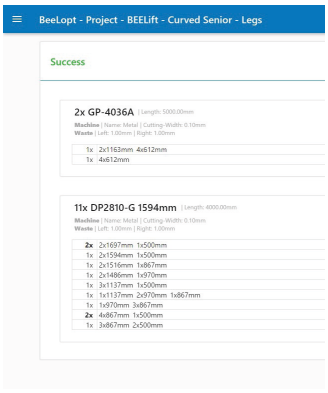
Choose your matching licence model and adapt it as flexible as needed.

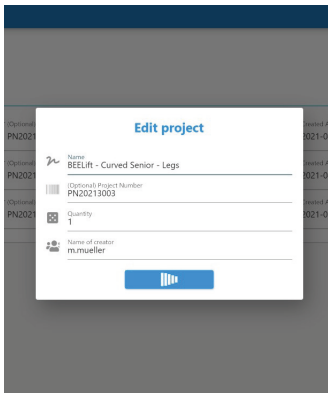
Our customer-oriented licensing models

- BEEVisio-4D licence 1 month
- BEEVisio-4D licence 3 months
- BEEVisio-4D licence 6 months
- BEEVisio-4D licence 1 year
- BEEVisio-4D licence 2 years
- Follow-up leasing

Request DEMO version



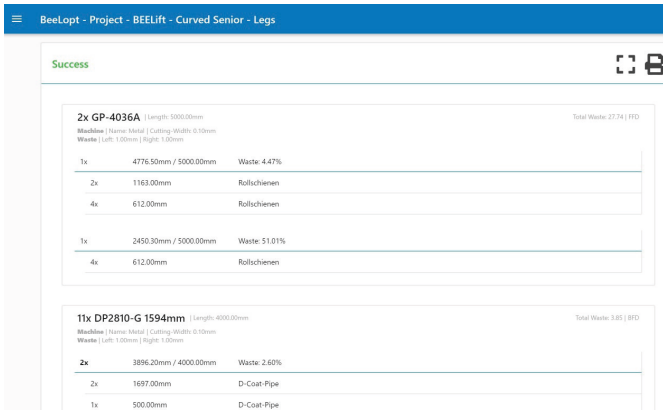




BEELopt
to optimize

The **cutting length optimization software BEELopt** is a program for creating cutting lists for raw material (pipes, roller tracks, lateral guides and other profiles). Based on a parts list, the optimum cutting quantity can be calculated. This enables an efficient use of materials, saving time and money.

The worker receives a visually simple and practical cutting list of the raw material, which has been optimized to produce as little waste as possible.



BEELopt

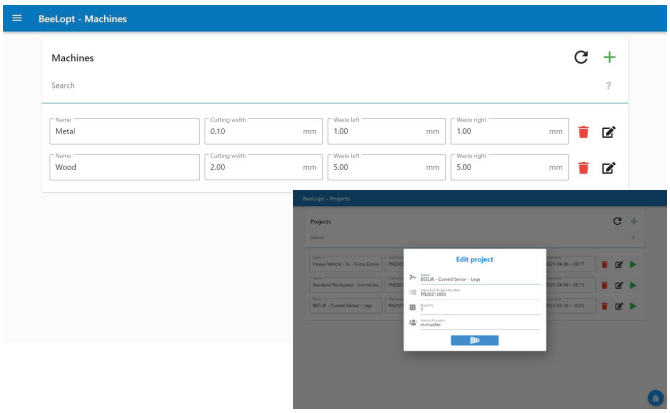
Why the innovative cut length optimization BEELopt saves material and time...

Attractive and practical software for calculating the optimum utilisation of pipe material (pipes, roller tracks, lateral guides and other profiles).

- Attractive and modern programme layout
- Simple and appealing operation
- Modern material design
- Dynamic single-page application
- Based on the Google Web Design Guidelines
- Fast data entry
- Quick calculation of length optimisation
- Clear printout
- Consideration of the cutting width
- Extensive search function
- No installation necessary

Easy import and compatibility with BeeWaTec planning software BeeVisio.

- Compatibility with the BeeWaTec planning software BEEVisio: Simple import of the parts lists from the cutting length optimisation tool BEELopt, with which the optimum length of the raw material has already been calculated, into the advanced design program BEEVisio.



Quick export of data and calculations to Excel, which simplifies further import into ERP systems

- Quick and easy
- Export of information as Excel file - enables import into ERP systems

System requirements

- The web application should run on any modern web browser.
- Optimized for Microsoft Edge and Google Chrome.
- Adapted and optimised for the desktop environment.

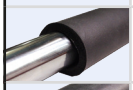
Interested in access to our cutting length optimization software BEELopt?

Please send us an e-mail to: *info@beewatec.de*

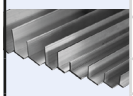
Send request

New

NEW OVERVIEW: NEW PRODUCTS

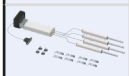
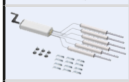
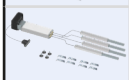
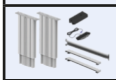
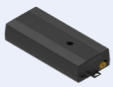
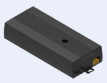
Image	Art. No.	Name	Category	Application | Features	Technical data | Drawing
	Overview table of all new DP2809xx pipes, see page 14, the matching drive-in bushes, see page 46				
	610843	PS-D	Joints, Steel Ø28 mm	Swivel joint, roller track mounting (Series 40), Set up vertically, a roller track can be used as a lateral guide	Weight: 128 g, Packaging unit: 126 pcs
	611553	BRA-32	Add-on parts, Steel Ø28 mm	Cord roller made of plastic, with ball bearing, Diameter 32 mm, Thickness 11 mm	Weight: 12 g, Packaging unit: 1000 pcs
	403409	Holder M12		Holder for all attachments with M12 thread, e.g. castors and adjustable feet. Fastening to Ø28 mm pipe with one M6 through bolt or two M8 clamping screws	Weight: 240 g
	403410	Holder M10		Holder for all attachments with M10 thread, e.g. castors and adjustable feet. Fastening to Ø28 mm pipe with one M6 through bolt or two M8 clamping screws	Weight: 230 g
	607426	GAP-4AF	Cover caps, Aluminium Ø28 mm	Internal plastic cover cap, for ATF2812, ALF2812 or ACF2812	Weight: 3 g | Packaging unit: 1500 pcs
	610618	AA-201	Joints, Aluminium Ø28 mm	Hybrid joint set, Adaption to G.S. ACE AP28xx to 30 mm pipe and aluminium round profile pipe (I system)	The set consists of following parts: 2 x A201, 1 x M0625 WZ, 1 x N06-55W
	610619	ACY-318B-Set		Hybrid joint set, For adapting various aluminium profiles round and square 28 mm with the corresponding joints (I-system)	The set consists of following parts: 1 x ACY-318B, 1 x M0620 WZ, 1 x N06-55W
	607962	ACM-400		Corner joint for roller mounting, for aluminium profile pipe, or roller mounting suitable rollers: AG, AR and certain AP rollers	Weight: 142 g | Packaging unit: 40 pcs
	607964	ACMA-400		Corner joint set for roller mounting, for aluminium profile pipe, or roller mounting suitable rollers: AG, AR and certain AP rollers	The set consists of following parts: 2 x ACM-400, 2 x SI0820 8.8, 1 x M08
	605131	MCY-304C	Accessories, round pipe Ø28 mm	for labelling plate NP-F	Weight: 22 g | Packaging unit: 250 pcs
	615750	FG-436		Pipe protection cover made of EPDM, Density: 0,5 mm, Øinside: ca. 31 mm, Wall thickness: ca. 6 mm, Colour: black, talcum-coated	Weight: 350 g/m | Material: closed-pore EPDM | Length: 1000 mm
	615779	FG-3735		Pipe protection cover made of EPDM, antistatic <10^8 Ohm, Tolerance: DIN ISO 3302-1 E2, Ø inside ca. 30 mm, Ø outer ca. 37 mm	Wall thickness: ca. 3,5 mm | Length: 1000 mm
	615766	FG-3535		PVC-hose without liner for unpressurised use, Dimensions: (LxD): 35 x 3,5 mm, Colour: transparent	Length: 1000 mm
	615739	FG-384		PVC-hose without liner for unpressurised use, Dimensions: (LxD): 35 x 4 mm, Colour: transparent	Length: 1000 mm
	607390	Cup dispenser		Cup dispenser for placing bottles, glasses and cups with a maximum diameter of 95 mm, Can be clamped onto a pipe diameter of 11 to 30 mm using a metal clamp	Weight: 133 g
	615699	C-045	Joints, Aluminium square 28 x 28 mm	Corner joint 90°, quick joint /snap joint, for stabilising 28 mm AST2020D and 40 mm AST4040A/D	Weight: 37 g | Packaging unit: 120 pcs
	615702	CA-045		Corner joint set 90°, quick joint /snap joint, for stabilising 28 mm AST2020D and 40 mm AST4040A/D	The set consists of following parts: 2 x C-045, 1 x M0615 WZ, 1 x N06-55W
	605005	Q-445	Joints, Aluminium square 45 x 45 mm	Angle joint 45°, quick joint /snap joint, for stabilising square-edged aluminium profiles 40 mm groove 8 mm and 45 mm groove 10 mm	Weight: 75 g | Packaging unit: 80 pcs
	605006	QA-445		Angle joint set 45°, quick joint /snap joint, for stabilising square-edged aluminium profiles 40 mm groove 8 mm and 45 mm groove 10 mm	The set consists of following parts: 2 x Q-445, 1 x SI0825 8.8, 1 x M08
	605037	Q-513L		Angle joint 45° left, quick joint /snap joint, for stabilising square-edged aluminium profiles 40 mm groove 8 mm and 45 mm groove 10 mm, at the front, the joint only fits in P4545A-B and P4545C-B, Profiles with groove 8 and groove 10 can be clamped on the long side	Weight: 76 g | Packaging unit: 80 pcs
	605038	Q-513R		Angle joint 45° right, quick joint /snap joint, ffor stabilising square-edged aluminium profiles 40 mm groove 8 mm and 45 mm groove 10 mm, At the front, the joint only fits in P4545A-B and P4545C-B, Profiles with groove 8 and groove 10 can be clamped on the long side	Weight: 76 g | Packaging unit: 80 pcs
	605036	QA-513		Angle joint set 45°, quick joint /snap joint, for stabilising square-edged aluminium profiles 40 mm groove 8 mm and 45 mm groove 10 mm, At the front, the joint only fits in P4545A-B and P4545C-B, Profiles with groove 8 and groove 10 can be clamped on the long side	The set consists of following parts: 1 x Q-513L, 1 x Q-513R, 1 x SI0825 8.8, 1 x M08

NEW OVERVIEW: NEW PRODUCTS

Image	Art. No.	Name	Category	Application | Features	Technical data | Drawing
	605436	MC-SF	MC-Joints square-edged profile 45 x 45 mm	Forklift shoe, with two fixing holes in the square pipe, for square pipe 45 x 45 mm	Material: Galvanised steel | Weight: 1790 g
	605440	MC-SFO		Forklift shoe, with two fixing holes in the U-profile, square pipe 45 x 45 mm	Material: Galvanised steel | Weight: 1500 g
	PL009655			Mounting plate for CB-MCP 1-2 corner protection on MC-BP corner	Required for mounting: 2 x M6x30
	112051	GP-R4040B Roller	Accessories for GP roller tracks	cylindrical roller, for GP-R4040B, required: 25 pieces per metre or 5 pieces per guide (1 guide = approx. 20 cm)	Diameter: 34,3 mm | Material: PE | Packaging unit: 25 pcs
	115552	GP-4050C Roller		cylindrical roller, for GP-4050C	Diameter: 34 mm, 49 mm | Packaging unit: 25 pcs
	114098	UR-60 Roller		UR all-round castor for UR-6067	Diameter: 60 mm | Packaging unit: 60 pcs
	612291		lateral guides metal	Aluminium angle 35 x 30 x 3 mm	Length: 1000 mm | Material: blank aluminium
	618308			Aluminium angle 35 x 30 x 3 mm	Length: 4000 mm | Material: blank aluminium
	612299			Aluminium angle 40 x 40 x 4 mm	Length: 1000 mm | Material: blank aluminium
	618299			Aluminium angle 40 x 40 x 4 mm	Length: 4000 mm | Material: blank aluminium
	612283			Aluminium angle 50 x 50 x 4 mm	Length: 1000 mm | Material: blank aluminium
	618152			Aluminium angle 50 x 50 x 4 mm	Length: 4000 mm | Material: blank aluminium
	608256	AP-03-160-LB-M-EXPU-K-ST	Castors with fixing plate Coating: EXPU	Swivel castor with brake, Stop-Top, Ball bearing, Load capacity 400 kg (4 km/h) | 1000 kg (statically), Wheel Ø160 mm, Construction height: 195 mm, Panel: 140 x 110 mm	Weight: 3,3 kg
	618092	AP-40-80-B-K-TG-K-E	Castors with fixing plate especially for mounting on aluminium square profiles Coating: TG	Fixed castor, Ball bearing, Load capacity 65 kg (4 km/h) | 165 kg (statically), Wheel Ø80 mm, Construction height: 111 mm, Panel: 120 x 40 mm	Weight: 500 g
	618093	AP-40-100-B-K-TG-K-E		Fixed castor, Ball bearing, Load capacity 70 kg (4 km/h) | 175 kg (statically), Wheel Ø100 mm, Construction height: 136 mm, Panel: 120 x 40 mm	Weight: 600 g
	618094	AP-40-125-B-K-TG-K-E		Fixed castor, Ball bearing, Load capacity 80 kg (4 km/h) | 200 kg (statically), Wheel Ø125 mm, Construction height: 161 mm, Panel: 120 x 40 mm	Weight: 700 g
	403524	AP-13-100-L-K-EVGP-R-SB	Castor with bolt hole Coating: EVGP	Swivel castor, Roller bearing, Load capacity 150 kg (4 km/h) | 375 kg (statically), Wheel Ø100 mm, Construction height: 125 mm, Hole: 13 mm	Weight: 614 g
	614254	AP-13-100-LB-K-EVGP-R-SB		Swivel castor with brake, Roller bearing, Load capacity 150 kg (4 km/h) | 375 kg (statically), Wheel Ø100 mm, Construction height: 125 mm, Hole: 13 mm	Weight: 700 g
	618080	Knotted chain	Accessories castors & wheels	Thickness: 2,5 mm, Material: Galvanised steel, can be used as an ELF discharge chain if wheels without ELF are under construction, At least 3 chain links must be in contact with the ground.	Length: 250 mm
	618081				Length: 350 mm
	127898				Length: 30000 mm
	HA200262	Contact disc		1 piece, suitable for M6 screw thread, interlocked, Ø inside: 6,1 mm, Ø outer 12 mm, Thickness: 1,2 mm	Material: Galvanised steel
	618082	Mounting set for Ø28 mm		Chain length: 250 mm, can be used as an ELF discharge chain if wheels without ELF are under construction, At least 3 chain links must be in contact with the ground.	The set consists of following parts: 1 x Knotenkette, 1 x GA-15S WZ, 1 x M0615 WZ, 1 x MS06, 2 x Contact disc M6
	618083			Chain length: 350 mm, can be used as an ELF discharge chain if wheels without ELF are under construction, At least 3 chain links must be in contact with the ground.	
	617869	Polystone® MR AST	Plastic panels	Material: Polystone® MR AST with regenerated material, planed, **antistatic** (volume resistivity DIN EN 62631-3-1 Ω * cm <10^9)	Panel dimensions(LxB): 3000 x 1250 mm | Thickness: 8 mm, | Colour: black, similar to RAL9004
	617873	Polystone® MR AST		Material: Polystone® MR AST with regenerated material, planed, **antistatic** (volume resistivity DIN EN 62631-3-1 Ω * cm <10^9)	Panel dimensions(LxB): 3000 x 1250 mm | Thickness: 10 mm, | Colour: black, similar to RAL9004
	HA203495	RS ROH	Wooden panels	Material: Chipboard with multilayer melamine Krono coating, Dimensions: 2750 x 2050 x 19,6 mm	Colour: light grey
	605618	RS ROH		Material: Chipboard with multilayer melamine Krono coating, Dimensions: 2800 x 2070 x 26,6 mm	Colour: light grey

New

NEW OVERVIEW: NEW PRODUCTS

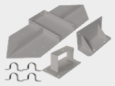
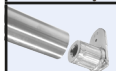
Image	Art. No.	Name	Category	Application | Features	Technical data | Drawing
	614817	Hubset 3.3	Lifting technology HE Hydraulic lifting sets	4 Lifting elements (LA), 300 mm lifting height, Hand crank, 300 kg max. total capacity load	
	614977	Hubset 4.3		4 Lifting elements (LA), 290 mm lifting height, Motor drive, 350 kg max. total capacity load	
	614985	Hubset 5.3		6 Lifting elements (LA), 290 mm lifting height, Motor drive, 350 kg max. total capacity load	
	614989	Hubset 6.3		6 Lifting elements (LA), 300 mm lifting height, Hand crank, 350 kg max. total capacity load	
	614992	Hubset 7.3		4 Lifting elements (LH), 390 mm lifting height, Motor drive, 350 kg max. total capacity load	
	614997	Hubset 13.3		4 Lifting elements (TA), 400 mm lifting height, Motor drive, 350 kg max. total capacity load, ohne Adaption und Befestigungsmaterial	
	609465	Hubset 20 SK-ESD	Lifting technology HE Electric lifting sets	2 lifting pillars SK, 400 mm lifting height, purely electric motorised drive, 600 kg max. total capacity load	
	System selection table for hydraulic systems, see page 257				
	401368	EU power cable	Lifting technology HE Accessories for electric lifting sets HE	Two-pole power cable with European power plug, voltage 230 V, plug type CEE 7/7, application: systems with compac- control units	Cable length: 3000 mm
	600687	Cable remote control/memory		Cable remote control HSU/Memory, up and down, save and move to 4 positions, height indication on display, incl. fixing screws. Cable remote control can be pulled forwards by sliding mounting plate	Cable length: 1700 mm
	613425	PBD 230 Compact EU drive set		Drive set	The set consists of following parts: 1 x Motor PXD.2, 1 x motor cable, 1 x control unit PXD Compact, 1 x power cable, 1 x memory handset
	System selection table for electrical systems, see page 262				
	615761	Holder for 10A rechargeable battery	Lifting technology HE Accessories for electrical Systems	The mounting bracket is required for fixing to the construction. The exchangeable battery can be snapped into the holder and is connected to the control unit via a cable.	
	615767	SCT4 iMPS 24V V1891 control unit		Control unit for spindle lifting system SLA/SLG 1330, supply voltage 230 V, standby power < 0.5 W, connection for cable remote control, 1 - 4 motor connections, software version V1891 → for lifting set 11	
	615772	SCT4 iMPS 24V V1890 control unit		Control unit for spindle lifting system SLA /SLG 1340, supply voltage 230 V, standby power < 0.5 W, connection for cable remote control, 1 - 4 motor connections, software version V1890 → for lifting set 12	
	609464	SCT2 iSMPS 230V V1400 control unit	Lifting technology HE Accessories for SK electrical systems (lifting set 20)	Control unit for spindle lifting system SL/SK 1340, supply voltage 230 V, connection for cable remote control, 2 motor connections, parallel operation possible via SYNC cable, software version V1400 --> for lifting set 20	
	609521	SCT4 iSMPS 230V V1400 control unit		Control unit for spindle lifting system SL/SK 1340, supply voltage 230 V, connection for cable remote control, 4 motor connections, parallel operation possible via SYNC cable, software version V1400 --> for up to max. 4 x SK lifting pillars	
	609466	Table base SL/SK/ TL/TT 680 complete		Length: 680mm, width: 80mm consisting of: 1x table base SL/SK/TL/TT 68, 2x adjusting feet M10x25	
	609519	Telescopic traverse T8 900-1550 - 90°		The crossbar is for the SL/SK lifting pillars and can be extended from a length of 900 - 1550 mm.	
	608749	Hubset 30.0	Lifting technology HL Electric lifting sets	4 Lifting pillar, 300 mm lifting height, 320 kg max. total capacity load	
	608751	Hubset 31.0		2 Lifting pillar, 300 mm lifting height, 160 kg max. total capacity load	
	608752	Hubset 32.0		4 Lifting pillar, 500 mm lifting height, 320 kg max. total capacity load	
	608753	Hubset 33.0		2 Lifting pillar, 500 mm lifting height, 160 kg max. total capacity load	
	608754	Hubset 34.0		4 Lifting pillar, 650 mm lifting height, 320 kg max. total capacity load	

NEW OVERVIEW: NEW PRODUCTS

Image	Art. No.	Name	Category	Application | Features	Technical data | Drawing
	608755	Hubset 35.0	Lifting technology HL Electric lifting sets	4 Lifting pillar, 650 mm lifting height, 480 kg max. total capacity load	
	608756	Hubset 36.0		4 Lifting pillar, 650 mm lifting height, 320 kg max. total capacity load	
	612009	Hubset 37.0 Mono		1 Mono lifting pillar, 650 mm lifting height, 400 kg max. total capacity load	
	608278	Control DP1CS	Lifting technology HL Accessories for electric lift sets	Control panel with memory function. 3 memory positions, display with white LEDs. Colour black (RAL9005).	Cable length: 1700 mm
	608279	Control DPF1C		Control panel. Up and down movement, display with white LEDs, colour black (RAL9005)	Cable length: 1700 mm
	608720	Mounting bracket for DPF1C		Mounting bracket for DPF1C, 90°, no distance to the table top. Control panel is snapped onto the fitting.	
	608284	CBD6S-200W		Control unit for 1 or 2 pillars, incl. switching power supply. Power supply: 230V AC, 50Hz or 120V AC, 60Hz. Dimensions: 210 x 96 x 38 mm (LxWxH), without cable	Weight: approx.. 400g | Colour: black
	608285	CBD6S-300W		Control unit for 2, 3 or 4 pillars, power supply: 100-240V AC, 50-60Hz (universal), dimensions: 265 x 96 x 38 mm (LxWxH),	Weight: approx. 500g, Colour: black
	608286	Cable lifting pillar		Connecting cable from lifting pillar to control unit, required per system: 2 or 4 (1 per lifting pillar)	Cable length: 500 mm | Colour: black (RAL9005)
	608287	Cable lifting pillar		Connecting cable from lifting pillar to control unit, required per system: 2 or 4 (1 per lifting pillar)	Cable length: 1000 mm | Colour: black (RAL9005)
	608288	Cable lifting pillar		Connecting cable from lifting pillar to control unit, required per system: 2 or 4 (1 per lifting pillar)	Cable length: 2000 mm, Colour: black (RAL9005)
	608289	Connecting cable		1 x required per system	Cable length: 2000 mm, Colour: black (RAL9005)
	108891	IEC connecting cable Swiss standard type 13		IEC connecting cable NKSK CH 500, type: appliance cable, version: with earthing contact plug, CH, load limit: 6A, cable cross-section: 3x 0.75mm2, connection: IEC-60320 C13	Cable length: 5000mm | Colour: black
	608290	BA001		Rechargeable battery box, battery capacity: 2.15 Ah/52 Wh, rated voltage: 24 V DC; discharge current: 9 A (max.); maximum charging voltage: 40 V DC; charging current: 0.5 A; weight: 600 g; incl. mounting bracket for easy mounting/dismounting when charging is required. The rechargeable battery is also charged via the control unit when it is supplied with 230 V	Colour: black
	608291	DC cable		DC cable for connecting a CBD6S control unit to the BA001 rechargeable battery pack, 2-pin with straight minifit connector at both ends	Length: 200 mm
	608292	SMPS006		External switched-mode power supply unit for charging the rechargeable battery box BA001, EU connection cable and DC cable (608291) must be ordered separately if required.	
	608723	Power cable for SMPS006		Straight power cable with EU plug	Length: 3000 mm
	611589	Serial cable for multi-parallel operation		Serial cable for parallel operation of two CBD6S control units	Length: 2000 mm
	611593	Programming cable		Programming cable for CBD6S control unit with serial and USB plug. The Desk Control Basic software is also required	Length: approx. 2000 mm
	611609	Desk Sensor 1		The Desk Sensor 1 (DS1) is an anti-collision solution that can prevent serious damage to desks and objects caused by collisions during desk movement. It detects a tilt of the table top as well as hard and soft obstacles. It is a small, compact plug-in device that can be easily plugged into the table systems on either the CBD6S controller or the DL lifting pillars.	
	608280	DL5-300 mm - 800 N	Lifting technology HL Lifting pillar HL	Two-part lifting pillar, max. Speed (unloaded): 38mm/s, Max. Load (per column): 800N, Pillar dimensions: 50 x 80 mm, Spindle type: 20 mm pitch, Mounting bracket: 120 x 40 x 8mm with 2 x M8	Colour: white aluminium (RAL 9006) | Stroke length: 300 mm | Installation dimension: 445 mm | Weight: 6,5 kg
	608281	DL5-500 mm - 800 N		Two-part lifting pillar, max. Speed (unloaded): 38mm/s, Max. Load (per column): 800N, Pillar dimensions: 50 x 80 mm, Spindle type: 20 mm pitch, Mounting bracket: 120 x 40 x 8mm with 2 x M8	Colour: white aluminium (RAL 9006) | Stroke length: 500 mm | Installation dimension: 645mm | Weight: 6,5 kg
	608282	DL6-650 mm - 800 N		Three-part lifting pillar, max. Speed (unloaded): 38mm/s, Max. Load (per column): 800N, Pillar dimensions: 50 x 80 mm, Spindle type: 20 mm pitch, Mounting bracket: 120 x 40 x 8mm with 2 x M8	Colour: white aluminium (RAL 9006) | Stroke length: 650 mm | Installation dimension: 560mm | Weight: 7,5 kg

New

NEW OVERVIEW: NEW PRODUCTS

Image	Art. No.	Name	Category	Application | Features	Technical data | Drawing
	608283	DL6-650 mm - 1200 N	Lifting technology HL Lifting pillar HL	Three-part lifting pillar, max. Speed (unloaded): 23mm/s, Max. Load (per column): 1200N, Pillar dimensions: 50 x 80 mm, Spindle type: 12 mm pitch, Mounting bracket: 120 x 40 x 8mm with 2 x M8	Colour: white aluminium (RAL 9006) |Stroke length: 650 mm | Installation dimension: 560mm | Weight: 7,5 kg
	608293	AU-TPS	Lifting technology HL	For DL5/6 series, mounting table top small, sheet steel	Thickness: 2 mm | Colour: light grey (RAL7035)
	608294	AU-TPB		For DL5/6 series, large table top mount, sheet steel	Thickness: 2 mm | Colour: light grey (RAL7035)
	608295	AU-HS-top		For DL5/6 series, top mounting of lifting pillar, sheet steel, mounting round tube with PC-CN (100004) and BS HKP 5 mm (BC000175)	Thickness: 2 mm | Colour: light grey (RAL7035)
	608296	AU-HS-bottom		For DL5/6 series, bottom mounting of lifting pillar, sheet steel, mounting round pipe with PC-CN (100004) and BS HKP 5 mm (BC000175)	Thickness: 2 mm | Colour: light grey (RAL7035)
	608745	BSHub-AU-small	Mounting material	Small mounting kit for adapting the DL5/6 series to our 28 mm round pipe	The set consists of following parts: 1x AU-TPS (608293) incl. 6x SI0612 (110149), 4x SSPP4016 (124403), 1x AU-HS-top (608295) incl. 2x PC-CN (100004), 4x SLI0512 (111196), 4x M05 (110141), 4x US05 (101847), 1x SLI0812 10.9 (118592), 1x AU-HS-bottom (608296) incl. 2x PC-CN (100004), 4x SLI0512 (111196), 4x M05 (110141), 4x US05 (101847), 2x SI0612 (110149)
	608746	BSHub-AU-large		Large mounting kit for adapting the DL5/6 series to our 28 mm round pipe	The set consists of following parts: 1x AU-TPB (608294) incl. 6x SI0612 (110149), 8x SSPP4016 (124403), 1x AU-HS-top (608295) incl. 2x PC-CN (100004), 4x SLI0512 (111196), 4x M05 (110141), 4x US05 (101847), 1x SLI0812 10.9 (118592), 1x AU-HS-bottom (608296) incl. 2x PC-CN (100004), 4x SLI0512 (111196), 4x M05 (110141), 4x US05 (101847), 2x SI0612 (110149)
	608486	ALD 1300/850/D	Lighting	Universal lamp, LED boom light, Multifunction button, save the set brightness, mounting by means of a plinth	Power supply cable: 3,20 m
	608485	MLD 750/850/D		LED magnifier light, Multifunction button, save the set brightness, mounting by means of a plinth	Power supply cable: 3,20 m
	110159	SI0820	Mounting materials	Hexagon socket head cap screw (DIN 912), steel 8.8	Length: 20 mm
	112733	SI0830		Hexagon socket head cap screw (DIN 912), steel 8.8	Length: 30 mm
	112028	SI0840		Hexagon socket head cap screw (DIN 912), steel 8.8	Length: 40 mm
	130864	SSI0515		Countersunk screw with hex socket, Steel 8.8, M5	Length: 15 mm
	615349			Hook screw with metric thread	Length: 80 mm
	612910	Clipboard	Additional accessories for modular systems	Clamp short side, DIN A4, Extra strong cardboard core, Nickel-plated clamp mechanism, incl. extendable hook eye	Colour: black
	615723	PA 9100-3		Profile hanging rail, to take grab trays	Length: 1000 mm
	130033			Drawers with lock, Material body: chipboard with melamine resin coating, WxDxH: 400x449x140mm	max. load: 30 kg
	607419		Workshop Equipment	Screwdriver with T-handle, with asymmetric 2K handle for a better grip and perfect power transmission, Through-hole for storage on the wall hook, Matt chrome-plated blade for increased corrosion resistance	Spanner width: 5 mm | Blade length: 115 mm | Length of side drive : 17 mm | Weight: 83 g
	617880	GS-2070C 0,9	Drive-in sleeve	Drive-in sleeve without thread with stop and hole Ø3.4 mm, A=23.7 mm, galvanised steel for use with DP/EP 2809 pipes.	
	617569	Mounting end piece	add-on parts Steel	Suitable for: drive-in sleeve M10, Alternative to: GS-2070C, Required for mounting: suitable screw and threadlocker	Material: anodised aluminium Dimensions: 55.6 x 27.6 x 4 mm
	619176	MJC-G6S	Accessories Ø28 mm round pipe	Joint protection, Half-shell, suitable for: GA-6S	Weight: 10g, Packaging unit: 150 pcs, Material: PP
	619177	MJC-G7A		Joint protection, Half-shell, Suitable for: the joint half-shell G-7AS from the GA-7S set	Weight: 8g, Packaging unit: 300 pcs, Material: PP
	619178	MJC-G7B		Joint protection Half-shell, Suitable for: the joint half-shell G-7BS from the GA-7S set	Weight: 8g, Packaging unit: 300 pcs, Material: PP
	619395	SA640AH	Joints, Aluminium square profile 40 x 40 mm	for all 40 x 40 mm profile pipes with 6.5 mm slot, flush finish. Required for mounting: 1 x SN306, 1 x M0610	Weight: 25 g, Packaging unit: 160 pcs

NEW OVERVIEW: NEW PRODUCTS

Image	Art. No.	Name	Category	Application | Features	Technical data | Drawing
	603925	MC-B4545	Steel-square profile 45 x 45 mm	Steel square profile 45 x 45 mm	Weight: 2,65 kg/m | Lenght: 2 m | material thickness: 2 mm
	611554	MC-BTFS30	Drawbars and couplings	with damping of the drawbar plate via friction dampers, downward with adjustable stop, distance from mounting plate to drawbar eye = 625 mm	Max. tractive force: 3500 kg | Weight: ca. 6 kg | Colour: RAL 1003
	613434	Control set SCT4 BATTERY V1891	Lifting technology HE	Control set consisting of control unit SCT4 iMPS 24V with software version V1891, cable remote control SCT Memory T6, holder for exchangeable battery, exchangeable battery 24V A10, charging station for exchangeable battery	power cable: 3000 mm
	613435	Control set SCT4 BATTERY V1890	Individual lifting components	Control set consisting of control unit SCT4 iMPS 24V with software version V1890, cable remote control SCT Memory T6, holder for exchangeable battery, exchangeable battery 24V A10, charging station for exchangeable battery	power cable: 3000 mm

COMING SOON

Expected to be available from June/July 2025

Please contact us.

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Request catalogue:

Index

STEEL Ø 28 mm

Cover caps 16
Attachment joints 36
Band holder 61
C-rail 54
D-Coat pipes 14
Swivel and sliding joints 33
ECCO-Star pipes 15
Drive-in sleeves 46
Fixations 55
Sliding pipes 14
Basic joints 20
Hook with adaptation to the pipe 60
Holders 41
Parallel joints 37
Wheel mounting elementse 43
Swivel joints 24
Shooter 53
Stoppers 58
SUS pipes 15
Deflection joints 50
Joining elementse 42
Joints for holding round and sliding pipes 40
Joint for panel fastening 29
Further add-on parts 56
Angle joints 26

ALUMINIUM Ø28 mm

Cover caps 71
Double pipes 92
Swivel and sliding joints 84
Drive-in sleeves 89
Sliding pipes 70
Basic joints 74
Parallel joints 85
Profile covers 94
Profiles for panel attachment 92
Profile pipes 68
Profile tracks 93
Wheel mounting elements 87
Round pipes 67
Swivel joints 77
Stopper 93
Joint for panel fastening 83
Joining elements 86
Further add-on parts 95
Angle joints 80

ACCESSORIES Ø28 mm round pipe

Labelling panels 100
Plastic joints 103
Pipe protection 104
Joint protection 104
Futher add-on parts 108

ALUMINIUM Ø43 mm

Cover caps 116
Drive-in sleeves 123
Basic joints 118
Parallel joints 122
Profiles for panel attachment 126
Profile pipes 116
Round pipes 116
Swivel joints 119
Joining elementse 123
Further add-on parts 127
Angle joints 121

SQUARE SYSTEMS

Aluminium square profile 28x28mm 131
Aluminium square profile 40x40mm 139
Aluminium square profile 45x45mm 149
Drawbars and couplings 168
MC joint 162
MC4 joint 165
Steel square profile 45x45mm 161

ROLLER TRACKS

Cover caps 200
Fastening elements 188
GP Roller tracks 174
GP-R Roller tracks 178
Lateral guides 204
Series 35 188
Series 40 190
Series 60 195
Series 70 197
Series 85 198
Safety caps 210
Special concepts for roller conveyors 212
UR all round castors 180
Accessories GP Roller tracks 184
Accessories für Roller tracks 202

SUPPORT FEET & CASTORS

Support feet 217
Castors & Wheels 223

PLANELS

BEESave 243
Twin-wall panels 241
Wooden panels 245
Plastic panels 242
Structure-core panels 241

LIFTING TECHNOLOGY

ERGOLevel 269
Lifting sets 250

LIGHTING

BEEWATEC LED 272

ADDITIONAL ACCESSORIES

General accessories 279
Fastening materials 280

ASSEMBLY WORKPLACES

BASIS system tables AT 331
BASIS laboratory table LT range 330
BASIS system table 330
BeeWaTec Standard workplace 328

WORKSHOP EQUIPMENT

Workplace mats 301
BeeWaTec perforated panels 291
Labelling and magnetic systems 305
Floor marking system BEEStripe 315
FIFO station 321
Information and presentation system 310
Kanban and planning system 309
Plastic bins 312
Magnets 297
Tools 317
Tool holders and accessories for perforated plates 292

AUTONOMOUS MOBILE ROBOTS (AMR) 332

APPLICATIONS EXAMPLES 336

PLANNING AND CONSTRUCTION SOFTWARE

BEELopt 353
BEEVisio 352

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Technical changes, further developments, changes of products and modifications are reserved, even without previous notification. We assume no guarantee for mistakes in printing, writing and translation. In either case the German catalogue version has precedence. All information is not binding and subject to change.

Please refer to the BeeWaTec user manual for the information relevant to the holding and tightening forces.

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