



KNIPLEX

PRECISION TOOLS
FOR BICYCLE PROFESSIONALS

An aerial, black and white photograph of a mountainous landscape. A prominent, light-colored road winds through the terrain, curving sharply to the right in the foreground and then continuing into the distance. The surrounding hills are covered in dense, dark vegetation. The lighting creates strong shadows, emphasizing the ruggedness of the terrain. In the upper right corner, the word "FOR" is printed in a large, bold, white, sans-serif font.

FOR



OPTIMUM

PERFORMANCE

FOR MAXIMUM EXCITEMENT.

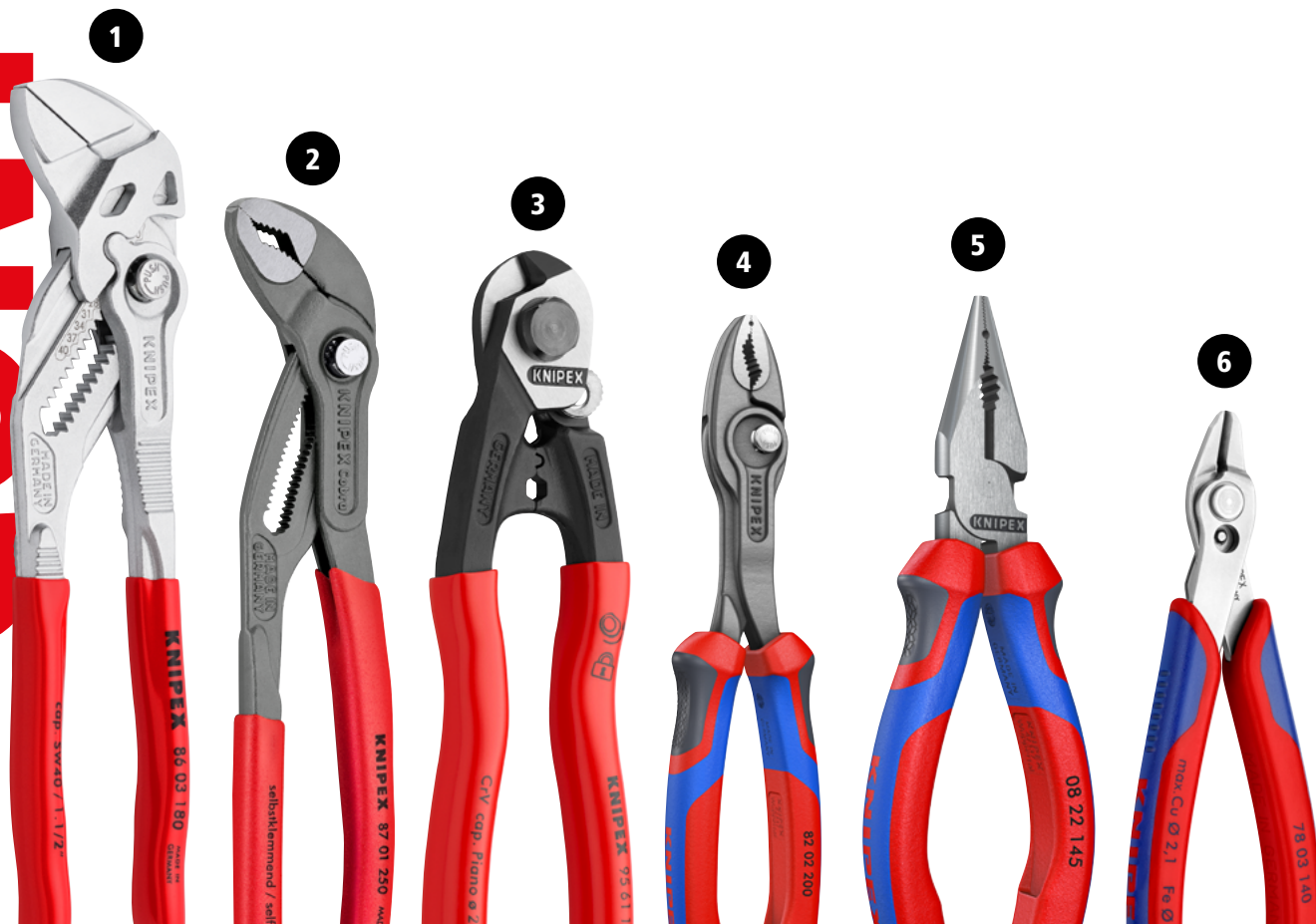
Cycling has many fascinating factors, and each of them inspires people all over the world. Whether you're riding from Paris to Roubaix, looking for new challenges on the 401 trail in Colorado or riding up your local mountain – your bike must work perfectly for you to perform well. Precise braking, optimum wheel running characteristics or smooth and responsive gear shifting make a real difference in the battle against the elements or your own personal best.

Many bikers are deeply invested in their passion, constantly seeking out new technologies and valuing high quality. This is exactly why KNIPEX products can be found in the toolboxes and workshops of professional mechanics from successful racing teams, just as they can in those of ambitious amateur drivers and mechanics.

Every pair of forged KNIPEX pliers is made in Germany and is the result of over 140 years of tradition in the manufacture of high-precision tools. Just like those people involved in cycling, we too are passionate about striving for perfection and constantly improving our products. This ensures strong performance and safety at the highest level, off-road or on the road.

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The handles of some of the pliers illustrated have just been changed. It is therefore possible that the previous generation is still available on the market.



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For demanding precision work
Page 33



THE PERFECT ALL-ROUNDER.

If we take a look in the toolboxes of professional bike mechanics, we'll probably find at least one KNIPEX Pliers Wrench. Beautifully manufactured, not too heavy, and well thought out down to the last detail – the Pliers Wrench, which is both a pair of pliers and a wrench, rightly bears the title of the most popular KNIPEX tool for bikers.

Its smooth, parallel jaws protect even the most sensitive materials while maximising efficiency, ensuring the force is always evenly distributed. Another highlight: The stroke between the gripping jaws allows for screwing in a manner similar to a ratchet or screwdriver. Screw connections can be loosened or tightened without having to reapply the spanner at every turn, thus saving time.

All this makes our Pliers Wrench a real super tool for mechanics and bikers – for fitting and removing wheels with hexagon fittings, fitting and removing pedals with the corresponding mount and many other jobs on the bike.





1

**PLIERS AND
A WRENCH IN A
SINGLE TOOL**

ART. NO.:
86 03 180

PLIERS WRENCH



ADVANTAGES AT A GLANCE

- Replaces the need for sets of metric and imperial spanners
- Smooth jaws for the gentle assembly of sensitive components
- Very suitable for gripping, holding, pressing and bending
- Secure quick setting at the touch of a button
- Stepless gripping of spanner widths by means of parallel jaws

IN DETAIL



ASSEMBLY AND DISASSEMBLY OF PEDALS

KNIPEX Pliers Wrench really come into their own when removing and fitting pedals. They sit flat and provide the necessary power thanks to their high transformation ratio. Thanks to their smooth contact surface, they also leave no unsightly marks.





INSTALLATION AND REMOVAL OF WHEELS

Anyone working on the wheels, drive or brakes is delighted if the axles can be released quickly and without damage. The Pliers Wrench grips securely on all axles with a hexagon socket, while sparing more sensitive surfaces such as anodised aluminium.

TIP

When working on the hydraulics, remove the impeller and brake pads beforehand, as some oil can always drip out. And nobody really wants that on their braking system.



CONVERSION OF BRAKE SYSTEMS

If new or more powerful brake callipers are to be fitted, the hydraulic brake lines need to be opened. The brake lines are connected to the brake lever or brake calliper using a hexagon union nut. The Pliers Wrench is ideal for opening and tightening them. The flat jaws prevent the contact surface from rotating.

**A crucial point:
the jaws always
remain parallel.
This distributes
the force evenly
and greatly
reduces the risk
of slipping.**

ALIGNING BRAKE DISCS

Intensive use of the brakes, especially on long and steep descents, can cause the brake disc to warp due to the heat generated. Discs can also bend during transportation or in a crash. The brake pads are then subject to increased attrition and may wear irregularly, requiring them to be straightened – almost everyone recognises the squeaking of the discs as a clear symptom. With its straight and smooth contact surfaces, the Pliers Wrench is the ideal tool for this task. The even contact of the pliers wrench on the brake disc allows you to apply targeted and controlled force to the bent area of the brake disc.





ADJUSTING HEADSET BEARING CLEARANCE

The headset or headset clearance must of course also be checked from time to time and adjusted if necessary. Relatively large spanner sizes are required when tightening and retightening headsets with an external hexagon. Here, you benefit from the Pliers Wrench's wide range of adjustment widths, which can be set in the blink of an eye.

TIP

Simply apply the front brake and move the wheel forwards and backwards a little (if you have suspension, switch it off first). This will enable you clearly to see whether the headset has clearance.



CORRECTING DENTS IN ALUMINIUM RIMS

Downhill riding can cause "dents" in the lightweight aluminium rims, for example after jumps or crashes. With tubeless systems in particular, this often leads to leaks in the tyre. The Pliers Wrench, with its straight jaws and high gear ratio, is a powerful tool for pressing out such dents with precision, and realigning the rims; so nothing stands in your way as you head back out to the bike park!

**FOR ON THE GO:
XS PACKS A PUNCH**

If you're out travelling with your bike, the XS models of our Pliers Wrench and water pump pliers are great companions. These small all-rounders combine minimum size with maximum power and weigh less than a mobile phone. Screws with the appropriate mounts are securely gripped and if, for example, your eye or your fingers find your spokes loose during a quick check, they will tighten them reliably. The XS Pliers Wrench is also useful if the wheel is clearly running unevenly and perhaps rubbing against the rim brake. The specially hardened teeth of the KNIPEX Cobra® grip when something needs to be held securely or pulled hard – such as the brake cable.



TWO PROFESSIONAL WRENCHES "TO GO"

THE KNIPEX MINI WRENCH SET XS IN
A PRACTICAL BELT POUCH – PERFECT
FOR TRAVELLING

- XS Pliers Wrench and KNIPEX Cobra® XS in practical belt pouch
- With Pliers Wrench XS: 100 mm tool length, parallel jaw opening gently grips up to 21 mm width across flats
- With KNIPEX Cobra® XS: 100 mm tool length, grips round workpieces up to 28 mm, with self-locking effect
- Tool bag made from durable polyester fabric, with hook-and-loop fastener and belt loop
- Dimensions (W x H x D): 60 x 110 x 40 mm

SET ART. NO.:
00 20 72 V04 XS



KNIPEX 8/01

KNIPEX Cobra

MADE IN GERMANY

selbstklemmend / self-locking

**COBRA
TAKES
HOLD.**





The KNIPEX Cobra® reliably grips and loosens tight screw connections with great force transmission, and it has a strong enough bite to help even when tightening Bowden cables. Its fine settings with extremely durable and efficient gearing always makes it easy to adjust. It's available in different lengths – the XS, for example, is a practical solution for travelling, and the 250 mm version is clearly the classic, a real “multitool” and an indispensable piece of equipment in many workshops around the world.



ADVANTAGES AT A GLANCE

- Settings at the touch of a button directly on the component
- Fine adjustment for optimum fit
- Self-clamping: no slipping on the component, effortless working
- Gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC: high wear resistance and stable gripping
- Box-joint design for high stability due to double guide
- Reliable catching of the hinge bolt: no unintentional shifting
- Pinch guard prevents operators' fingers being pinched



CUTS WITHOUT CRUSHING.

Bowden cables and cable pulls are used in a wide range of applications in bicycle construction, such as mechanical gears, bicycle brakes or height-adjustable seat posts. With our powerful wire cable cutters, you can work with precision and minimal effort. They can also be used to efficiently shorten Bowden cables made of robust steel, with no crushing thanks to the precise cutting – no need for laborious reworking, and the resulting “round” cut enables the cable to slide easily through the sheath.

Important: Further extending the range of applications for this high-quality tool are two press profiles for end collars on Bowden sheaths and end caps for cable lengths.

THE KNIPEX CABLE CUTTER FOR PERFECTLY ...

... cutting Bowden
cables to size

①

... cutting outer
sheaths

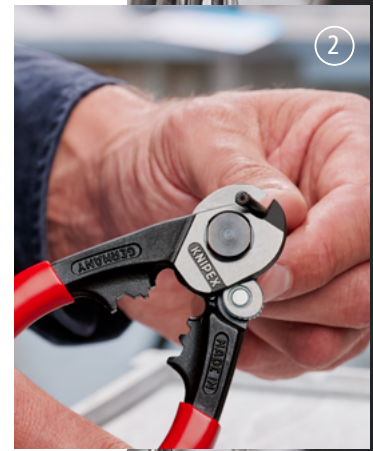
②

... crimping of
end collars.

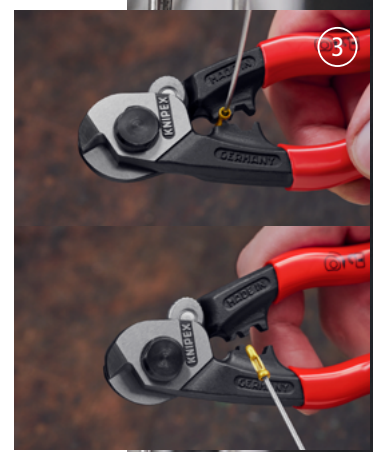
③



①



②



③

3

FOR CLEAN CUTTING OF
BOWDEN CABLES FOR BRAKE
AND CONTROL CABLES

ART. NO.:
95 61 190

WIRE ROPE SHEARS



ADVANTAGES AT A GLANCE

- Clean cutting of leads and cable lengths
- With two crimping dies for end caps on Bowden cable sheaths and end ferrules for traction cables
- Comfortable work thanks to handy, slim design and internal opening spring
- Bolted joint for precise blade guidance, re-adjustable
- High leverage for reduced effort
- Cutting edge hardness approx. 64 HRC

SOMETIMES THE SOLUTION IS **QUITE** **SIMPLE.**

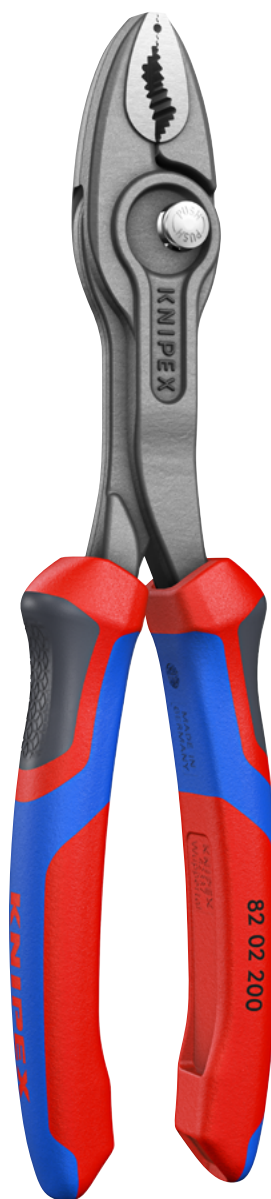
Worn or broken screw heads are always a challenge. In these extreme cases, the KNIPEX TwinGrip grips easily thanks to its powerful front and side gripping function and solves the problem with ease. Its slim shape is ideal for reaching even places that are hard to access. The right grip width can be selected quickly and precisely using the five-position adjustable sliding joint with push button – these pliers are really well thought out, and many mechanics now see them, with good reason, as an indispensable tool.



FRONT GRIPPING AND SIDE GRIPPING FUNCTION

ART. NO.:
82 02 200

KNIPEX TwinGrip



ADVANTAGES AT A GLANCE

- Gripping, tightening and loosening screws
- Very slim pliers: Work even on difficult places to reach on the bike, with a narrow turning radius for fast screwing
- High-grip front jaw with robust teeth and high gear ratio at the tip of the mouth
- Large front and side gripping capacity for diameters and widths across flats 4 – 22 mm
- Reliable front gripping of flat workpieces due to the three-point system
- Five-way adjustable slip joint with push button adjustment for precise adjustment of gripping capacity
- Pinch stop reduces the risk of crushed fingers
- Durable and resilient due to the robust box joint



GRIPS, PULLS AND HOLDS – EVEN IN TIGHT SPACES.

No tool collection should – or, indeed, can – be without our top-quality combination pliers. They are used, for example, when working on the brakes or to loosen the sometimes very tight union nuts on tyre valves. They also prove their worth in holding work, such as tensioning cable lengths, thanks to the remarkably tight grip of their jaws. Their particularly good ergonomics, high transmission ratio and cutting force, as well as details such as the precisely milled groove in the gripping area, also facilitate highly efficient work.

**FOR ALL STANDARD
INSTALLATION AND
REPAIR WORK**

ART. NO.:
08 22 145

Of course, the disc brakes on your bike are components that are crucial to safety, and brake pads are accordingly replaced on a regular basis. For this, you should not only make sure you have the right pads, but also the right tools.

Our top-quality combination pliers are a high-quality and practical helper in this case. If the brake pads are fully secured by a sturdy cotter pin, this must be bent open or straightened in order to pull it out.

After replacing the pads, simply push through a new cotter pin of the correct size, and secure it again by bending it. The pliers' strong grip pays off during this work, as the cotter pin can be bent very precisely and held securely. This tool, which is popular with mechanics, is also a real help for many other jobs.



ADVANTAGES AT A GLANCE

- Particularly handy: ideal for working in hard-to-reach areas such as brake pads thanks to the slim head shape with tapered jaws (very stable for twisting)
- Convex gripping surface on one side – for secure gripping of flat parts
- Milled groove in the gripping area enables small workpieces to be held and pulled securely
- Easy cutting thanks to the high leverage joint
- Long service life and stable tips
- Forged from special high grade tool steel, manifold oil-hardened

**PRECISE AND
FLUSH CUTTING.**





The Electronic Super Knips XL not only cuts cables precisely, but also cable ties, which are used as little helpers by many bikers and workshops. For example, they are used to attach cables and Bowden cables to the frame.

The bevelled edge is precision-ground and enables cable ties to be cut flush with the surface, so there is no risk of injury from sharp cutting edges. Thanks to the ergonomics and compact size, these pliers allow you to work very efficiently, even in hard-to-reach places. The extremely high quality of materials and workmanship guarantees a very long service life.



ADVANTAGES AT A GLANCE

- Precision-ground cutting edges without bevelled edges for precise and flush cutting of cable ties or the thinnest wires
- Durable and stainless, made of INOX surgical steel
- Cutting edge hardness approx. 54 HRC
- Precisely shaped tips cut wires close to a surface from $\varnothing 0.2$ mm
- With spring opening and opening limiter for comfortable, ergonomic and fast working
- Extremely easy movement for fatigue-free work due to precise joint with stainless steel rivet

6

FOR ULTRA FINE
CUTTING WORK

ART. NO.:
78 03 140

ELECTRONIC SUPER KNIPS XL

HANDLEBARS, FORKS AND SEAT POSTS **PRECISELY CUT.**





The KNIPEX TubiX® is the ideal tool for cutting aluminium and steel tubes with a diameter of 6 mm – 35 mm quickly and cleanly. Easy to use, extremely robust and cleverly designed, it is a powerful helper in any workshop. It is used to shorten steer tubes, cut handlebars to the right width and seat posts to the right length – always with high precision and effortless ease. The high-quality needle bearings of the guide rollers and the cutting wheel significantly reduce friction and make working on the bike even more comfortable.

The QuickLock one-hand locking mechanism is extremely practical – by simply pushing the slide, you can easily adjust the TubiX® to the right pipe diameter. The overall length of the tool is unchanged despite the quick adjustment and thanks to the spring pre-tensioning, the TubiX® immediately holds securely to the pipe. The burr created during the cutting process can be thoroughly removed using the integrated deburring tool. There is a spare wheel in the rotary knob – which can be changed without tools and in no time at all. It's an all-round good thing.



ADVANTAGES AT A GLANCE

- QuickLock one-hand locking mechanism: independent holding and clamping on the pipe
- Quick and precise positioning of the cutting wheel on different pipe diameters
- Comfortable: easy cutting with high-quality needle bearings on the cutting wheel and guide rollers
- Cuts pipes with \varnothing 6 - 35 mm (1/4" - 1 3/8") and with wall thickness up to 2 mm
- Cutting wheel made of high-quality ball bearing steel
- Quick replacement of the cutting wheel without any tools – spare cutting wheel stored in the handle
- Removable, precision-ground deburring tool

7

**PRECISE POSITIONING
AND EASY SEPARATION**

ART. NO.:

90 31 02 BK

KNIPEX TubiX® PIPE CUTTER



FIT CIRCLIPS EASILY AND SECURELY.

Circlips can be found in many different places on the bike, and precision tools such as KNIPEX circlip pliers provide a real advantage. If, for example, bearings need to be replaced on a full-suspension mountain bike, it's also a chance to replace the retaining rings.

The tips of these high-quality pliers are made of piano wire and are therefore extremely durable – a real advantage for difficult tasks. When fitting circlips, the contact surface on the working tips ensures that the circlip fits snugly and does not jump off the pliers.



**HIGHLY RESILIENT IN
CONTINUOUS USE**

ART. NO.:

48 11 J1/J2

49 11 A1/A2

48 21 J11/J21

49 21 A11/A21

We offer our pliers with different tip sizes and angles for various applications: straight and bent at an angle of 90°. Incidentally, the letters in the model designations here stand for A = outer ring and J = inner ring.

48 21 J11



49 11 A2



49 21 A21



48 11 J1



ADVANTAGES AT A GLANCE

- Inserted tips for high load capacity and safe working
- Smooth-running screw joint
- Large contact surfaces at the tips (no distortion of the rings)
- Slim plier head for easy access to the component
- Opening spring in the joint (protection against loss and external influences)
- Handles with non-slip plastic coating



**PRECISION GRINDING
WITH FINE SERRATION FOR
A CLEAN, NON-SLIP CUT**

ART. NO.:
95 05 190

MAXIMUM QUALITY FOR OPTIMUM CUTTING RESULTS.

All handlebar tapes are replaced at regular intervals for reasons of hygiene or wear. This is where our universal scissors come into play, cutting handlebar tapes easily and precisely.

Thanks to their precision grinding, our scissors cut very cleanly and, above all, without slipping. The quality is typical KNIPEX and offers an excellent cut, while the heavy-duty cutting edge is suitable for a wide range of materials.

- Precision-ground, hardened blades
- With opening spring and locking device
- Adjustable bolted joint



10

**COMPACT
BOLT CUTTER**
ART. NO.:
71 01 200

KNIPEX CoBolt

HAND FORCE TIMES 20. NO CHANCE FOR SPOKES.

Here is where maximum performance meets high cutting comfort. If, for example, you really want to dismantle a wheel and re-spoke it with new spokes, the KNIPEX CoBolt doesn't do things by halves. The spokes of the wheel are inserted close to the joint of the pliers and cut with little effort using the micro-structured cutting edge. The small CoBolt cuts extremely hard spring steel up to 3.6 mm in diameter – so wheel spokes are no great challenge for this powerhouse. The practical gripping surface on the joint also makes it easy to pull or fix cables.

- Micro-structured cutting edge reduces slippage in cutting materials
- With gripping surface below the joint for gripping and pulling wires from \varnothing 1.0 mm
- With precision cutting edges for soft, hard and piano wire
- Cuts soft components up to \varnothing 5.2 mm, hard components up to \varnothing 3.6 mm
- Efficient joint design ensures exceptional cutting performance with little effort
- Cutting edges additionally induction hardened, cutting edge hardness approx. 62 HRC



11

FOR PLASTIC, WITH
FLAT-GROUND CUTTING
SURFACES

ART. NO.:
72 11 160

DIAGONAL CUTTERS FOR PLASTICS.

In off-road cycling, professionals often adapt their tyre profiles to the conditions in order to further maximise performance. Shortening larger and medium-sized lugs, for example, improves rolling behaviour on certain terrains. It can also influence how tyres clog with mud or dirt. These cutting tasks must of course be carried out with the necessary precision, and our compact side cutter for plastic does this with flying colours. The flat-ground cutting edges are angled at 45° and cut very flush.

- Compact side cutter for plastic and soft materials
- Cutting edges angled at 45°; also for hard-to-reach areas
- For smooth, flush cutting
- Surface-ground cutting edges (no bevelled edge)
- Vanadium electric steel; forged, oil-hardened



**INSULATES CABLES
WITH STANDARD
MATERIALS**

ART. NO.:
12 62 180



CUTTING AND STRIPPING IN A SINGLE TOOL.

We often encounter electric cables, especially on bicycles with permanently installed lighting, and this is exactly where our compact and lightweight wire strippers come into their own. They automatically adapt to different cable cross-sections and have very precise fine adjustment – there is no damage to the cables. Cables from 0.2 to 6 mm² are cut and stripped quickly and precisely. The slim head shape means that even hard-to-reach areas are accessible.

- Compact wire stripper for all standard cable cross-sections and insulation materials
- For single, multiple and fine stranded cables of 0.2 up to 6 mm² with standard insulation
- Automatic adjustment to cable cross-section
- Handy design for convenient one-handed operation
- Slim head shape for hard-to-reach working areas
- With wire cutter for copper and aluminium cables up to max. 2.5 mm²
- Adjustable length stop from 6.0 to 18.0 mm for equal stripping lengths



13

FOR MULTILAYER
AND PNEUMATIC HOSES

ART. NO.:
90 10 185



GOES THROUGH SMOOTHLY.

When cutting the cables of hydraulic brake systems to size, it is crucial that the cut is smooth and the cable is not crushed, as a pin will have to be inserted into the cable opening later. As a first-class cutting tool, our pipe cutter is ideal for this work and delivers a very good cut with minimal effort.

- With universal support for right-angled positioning
- Easy on the hands even in continuous use thanks to low force required and automatic opening thanks to the spring mechanism
- Replaceable blade
- With opening spring and catch

FOR DEMANDING
PRECISION WORK

ART. NO.:

92 34 36

92 22 35

UNIVERSAL
TWEEZERS



HOLD THIS.

Bicycle components also include some very small parts – suspension elements and their adjustment units in particular are complex and delicate in structure. Small springs, bearings, discs and threaded parts are often found here.

To be able to work precisely with such parts, it is crucial to be able to grip and guide them accurately. This is where our high-quality tweezers show their strengths. They can be used to hold and thread small parts safely and reliably during service work, even in hard-to-reach places.

- KNIPEX tweezers are suitable for demanding applications and precision work
- High-quality stainless steel: high toughness and very good corrosion resistance for a wide range of atmospheric environments and many corrosive materials



92 22 35

92 34 36

EVEN MORE POWERFUL TOOLS FOR YOUR BIKE AND YOUR WORKSHOP.



WIRE ROPE SHEARS

ART. NO.:
95 62 160

Specially optimised for
precise cutting of tyre
cords and wire cables



DIAGONAL CUTTER

ART. NO.:
70 02 160

The indispensable
diagonal cutter for
all-round use



COMBINATION PLIERS

ART. NO.:
03 02 160

With gripping zones
for flat and round
material



SNIPE NOSE SIDE CUTTING PLIERS

ART. NO.:
26 22 200

Suitable for finer
gripping and
cutting work



ELECTRICIAN'S JACKKNIFE

ART. NO.:
16 20 50 SB

Universal folding
cutter for everyday
use

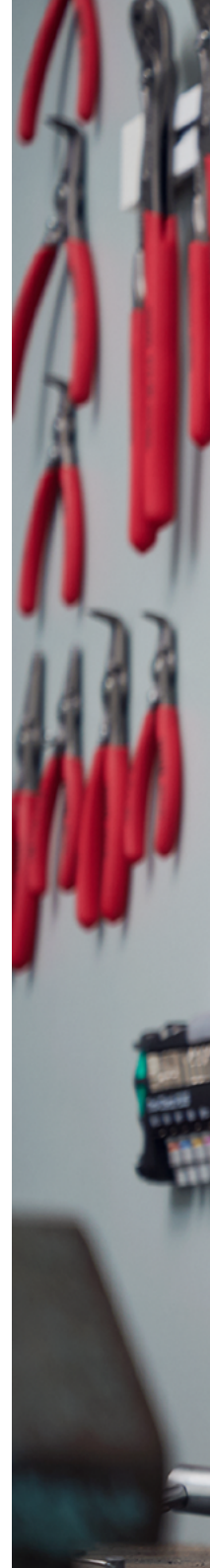


KNIPEX CUTIX UNIVERSAL KNIFE

ART. NO.:

90 10 165 BK

Innovative, variably
extendable
stabilisation rail



A collection of various Knipex tools including pliers, wrenches, and sockets hanging on a grey wall. The tools are arranged in a neat, organized manner. In the foreground, a large hammer with a wooden handle and a metal head is visible. To the right, a red plastic bin contains several more pliers. The background shows a variety of other tools like sockets and a pressure gauge.

You can find many other models in
different versions, lengths, finishes
and much more on our homepage:
www.knipex.com/products



www.knipex.com



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