



# Drum emptying system with follower plate

Mobile and hydraulic

## 2 Drum emptying system with follower plate

**The Lutz drum emptying system with follower plate is successfully used in the pharmaceutical, food and cosmetics industries. Due to its infinitely variable operation, the mobile, stand-alone system is especially designed for the gentle emptying of drums filled with highly viscous, paste-like and viscous substances.**

### Features/Benefits:

- High flexibility in contrary to stationary systems
- Manual infinitely variable control via control valve
- Can be used with cylindrical or slightly conical drums, plastic containers or containers with inliner
- Almost complete and gentle emptying of the drums
- Pulsation-free pumping/emptying
- Emptying speed adjustable
- No lateral squeezing out of the liquid, as the follower plate is guided almost without pressure and is flushed with the drum wall
- Simple and quick replacement of the sealing lip. Follower plate can be adapted to container/drum on request
- Without follower plate, it can also be used as a mobile pump stand with eccentric screw pump, no balancer required
- Quick removal of the pump or pump tube for cleaning
- Easy expansion of the system with a wide range of accessories
- Pump certified and approved according to current "3-A Sanitary Standards"
- Roughness depth of the pump below 0.8 Ra





- 1** Control unit
- 2** Hydraulic power unit with overpressure protection
- 3** Hydraulic lifting cylinder
- 4** Three-phase motor with frequency converter
- 5** Eccentric screw pump
- 6** Follower plate with sealing lip



Optionally  
possible with  
flow meter



### Liquid examples



#### ■ Beverages and food

Caramel, tomato paste, mustard, nut nougat cream, peanut butter, pasta, poppy seed paste, mayonnaise, honey, fruit concentrate, chocolate, marzipan



#### ■ Pharmaceutical/cosmetics

Mascara, lotion, creams, petrolatum, glycerine, toothpaste, lipstick



#### ■ Industry

Magnesium and aluminium paste, graphite grease, fillers, silicones, adhesives and glues, liquid plastics

### Features, Functions, Benefits

Surface roughness of the pump < 0.8 Ra	No bacteria lock	No contamination of the pumped liquid
Pumping of almost solid products	Follower plate + displacement principle	Pulsation-free pumping of viscous to non-flowable substances
Mobile unit	Mobile trolley for standardised pallets	Easy and mobile handling
Plate with sealing lip	The follower plate strips the drum wall and prevents dirt particles from penetrating into the drum	No contamination of the product and almost complete emptying
Quick and easy disassembly/assembly	Fast cleaning - COP	Less downtime for maintenance and cleaning
low, hydraulic upward movement with automatic stop	Simple operation with self-explanatory functions	Little training time required
Choice of materials and dimensions	Performance and design	Tailor-made solution
The system can be adapted to the product characteristics	Adjustable speed and downward pressure	Multiple use for pumping different products

**Technical data:**

Material trolley and hydraulic unit:	Polished stainless steel
Flow rate (depending on pump size):	up to 75 l/min. (optionally up to 120 l/min.)
Motors:	Three-phase motors from 1.5 KW, with foot/flange version and frequency converter or geared motors
Pump:	Eccentric screw pump with Tri-Clamp connection at pump foot
Sealing lip:	EPDM as standard
Max. Load capacity hydraulic arm:	100 kg
Infinitely variable lowering speed:	0-5 cm/s
Required power supply:	400 V/50 Hz 3-phase, 16 A
Dimensions:	Width 0.55 m Length 1.14 m Height (lowest position) 2.12 m Height (top position) 2.68 m
Weight trolley (without pump):	140 kg



### Examples of use

The Lutz drum emptying system with follower plate pumps highly viscous and non-self-flowing liquids, such as vaseline, mascara or glucose, continuously and with low pulsation. Heating of the liquid is normally not necessary.

The sealing of the follower plate prevents foreign bodies from entering the liquid. It prevents contamination and ensures a high level of safety in the filling process.

The Lutz B70V SanitaryPlus eccentric screw pump used was specially developed for pumping liquid foodstuffs, active pharmaceutical ingredients and cosmetic products from various containers and delivery packs.

The development of the pump consistently meets the constructional requirements of hygienic design and is certified and approved according to current "3-A Sanitary Standards".









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