

VISCOFLUX mobile S Drum Emptying System



More than just pumps



New!

VISCOFLUX mobile S

The drum emptying system with many advantages



Advantages

For pumping demanding, high-viscosity media out of drums

- ▶ For high-viscosity, paste-like and non-self-flowing media

Highly efficient drum emptying

- ▶ Significantly reduced processing times compared to a manual drum emptying
- ▶ Usually no heating of the media necessary
- ▶ Cost reduction due to efficient use of media (residual amounts in drum up to less than 1 %)
- ▶ Reduced disposal efforts and costs

High process safety

- ▶ Impurities are prevented from entering while pumping
- ▶ High process reliability even if the transfer process is interrupted

Mobile use

- ▶ Can be moved to desired operation site, without the need for a crane or forklift
- ▶ Potential replacement of multiple stationary devices

Low space requirement

- ▶ Designed to be transported with freight lifts
- ▶ Operation even possible in areas with low ceiling

Designed for use in hygienic areas

- ▶ Stainless steel process device with protection class IP 66
- ▶ Safe operations, even in wet or humid production environments
- ▶ FOOD version according to EC 1935/2004 and FDA CFR 21



Easy cleaning

- ▶ Quick disassembly of motor, pump, follower plate and process seal
- ▶ Process device can be cleaned with a water jet

Gentle pumping of the media

- ▶ Low-shear transfer of the media
- ▶ Continuous, transfer with low pulsation

For various types of drums and bundles

- ▶ Diverse standard drums, conical drums, sea container drums, carton drums (with and without aseptic bags)
- ▶ For drums with the common transport dents
- ▶ Suitable for approaching pallets with four drums

Easy to operate

- ▶ Easy and safe to operate
- ▶ Optimal layout of all components

Diverse control options

- ▶ From easy emptying to batch operations
- ▶ Equipment available for contact-free flow measurements



Designed for use in pharmaceutical, food and cosmetics industries.

For example: efficiently pumping caramel out of drums.



VISCOFLUX mobile S

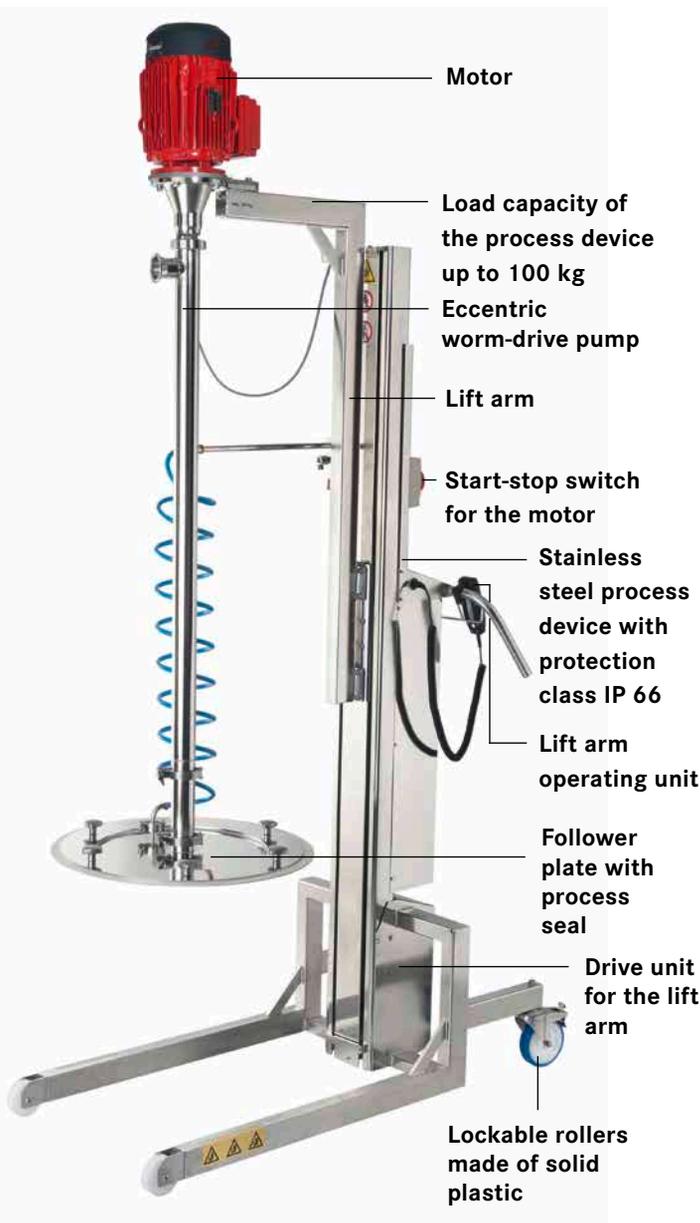
The mobile solution for pumping high-viscosity media

The VISCOFLUX mobile S drum emptying system was specifically designed for use in pharmaceutical, food and cosmetics industries. It is perfectly suited for ensuring efficiency and process safety while pumping high-viscosity, paste-like, non-self-flowing media out of diverse drums – either with or without aseptic bags. Media can be transferred low-shear and continuously. The residual amount remaining in the drum is up to less than 1 %. The mobile drum emptying system offers a high degree of flexibility and can also be operated in wet or damp production environments. The systems stainless steel process device bears the protection class IP 66.

Functional description

VISCOFLUX mobile S is a stand-alone system that contains a process device and a pump unit consisting of a motor, eccentric worm-drive pump and a follower plate with a process seal. The pump unit can be customised for the specific application. Steerable rear wheels make it easy to move the system to the drum.

Prior to transferring the material, the pump unit is lowered using a rechargeable battery powered lifting arm until the follower plate rests on the material. The pump motor is then activated. The automatic freewheel now assumes the decoupling of the lifting arm and power unit. The self-priming eccentric worm-drive pump creates a vacuum below the follower plate, causing it to lower. This guarantees especially gentle transport of the media. Moreover, the process seal hermetically seals the media and ensures a high degree of process safety even if the transfer process is interrupted. The flexible process seal also adapts to beads and conical constrictions when transferring so that almost no residue is left on the wall of the drum. Drums with common transport dents can also be emptied without difficulty. After the transfer of the media, the follower plate is released from the bottom of the drum by means of compressed air. The entire pump unit is raised once again. When emptying drums with aseptic bags, the inliner automatically remains on the drum wall. At first it is pressed against the wall by the media. Once the follower plate is moving upwards, the inliner is pressed to the wall by compressed air. A minimal amount of residue amounting to less than 1 % remains in the drum. The stainless steel process device bears the protective class IP 66 and can be cleaned using a water jet if required.



The chassis is free of dead space and is manufactured as a single-piece welded construction.

Typical areas of application



Food



Pharma



Cosmetics

General product features

- ▶ Mobile, compact drum emptying system
- ▶ Pumps high-viscosity, paste-like and non-self-flowing media
- ▶ For use with diverse standard drums, conical drums, carton and sea container drums (also with aseptic bags), drums with common transport dents
- ▶ Motor, pump, follower plate and process seal are customised to media and process conditions
- ▶ Eccentric worm-drive pumps and process seal available in FOOD versions
- ▶ Processing of the media carried out in a closed process
- ▶ Eccentric worm-drive pumps provide for low-shear and low pulsation media transfer
- ▶ Residual amount in drums up to less than 1 %
- ▶ Additional blind covers for interruptions in the pumping procedure
- ▶ Motor can stay attached to process device while cleaning the pump
- ▶ Eccentric worm-drive pumps, follower plate with process seal can be disassembled quickly
- ▶ Pumps with impulse sensor available for contact-free flow measurement
- ▶ Available with customisable control unit

Process device features

- ▶ Designed for use in hygienic areas
- ▶ Mobile and compact
- ▶ With an integrated, automatic freewheel
- ▶ Stainless steel construction, electronics and battery encapsulated to protect against moisture
- ▶ Designed with minimal dead space and protection class IP 66
- ▶ Narrow chassis for emptying drums on euro pallets
- ▶ Wide chassis for emptying drums standing on the floor and for approaching pallets with four drums
- ▶ Chassis can subsequently be exchanged
- ▶ Sinking depth of follower plate can be limited

Media-examples food

- ▶ Tomato puree
- ▶ Caramel
- ▶ Fruit and vegetable concentrates
- ▶ Peanut butter
- ▶ Mayonnaise
- ▶ Nut nougat paste
- ▶ Chocolate (heated)
- ▶ Concentrates for making sauces
- ▶ Grease

Media-examples pharma and cosmetics

- ▶ Vaseline
- ▶ Ointments
- ▶ Hair and body care products
- ▶ Wax, semi-solid
- ▶ Glycerine
- ▶ Lip gloss
- ▶ Mascara
- ▶ Facial masks

Technical data

- ▶ Process device: battery operated, made of stainless steel with rollers made of solid plastic, IP 66, carrying load up to 100 kg, chassis available in two standard sizes: 470 mm for euro pallets, 890 mm additionally for free-standing drums, drum dollies and universal pallets with 4 drums
- ▶ For drum diameters: 560 mm or 571 mm, for conical drums (550 mm on top, 515 mm at the bottom), for drums with small openings Ø 540 mm on top, Ø 571 mm at the bottom
- ▶ Pumps: Ø 54 mm, length 1,000 mm and 1,200 mm F 560 also for left/right operation, also in FOOD version conform EC 1935/2004 and FDA CFR 21 for food uses (F 550 for industrial applications)
- ▶ Motors: Three-phase motors from 0.75 kW, spur gear drive motors, compressed air motors
- ▶ Process seal: NBR material conform EC 1935/2004, or FDA or FKM
- ▶ Power supply for motor and switching cabinet
- ▶ Ball valves for pressurised air provision, aeration and venting

Pharmaceutical and cosmetics application area

Application example: Vaseline



The VISCOFLUX mobile S allows for high-viscosity and non-self-flowing media, such as Vaseline, to be continuously transferred with low pulsation. Compared to manual drum emptying, users benefit from significantly reduced processing times. Usually no heating of the media is necessary. The system's high degree of process safety is also maintained during process interruptions. The VISCOFLUX mobile S achieves residual amounts of up to less than 1 %.



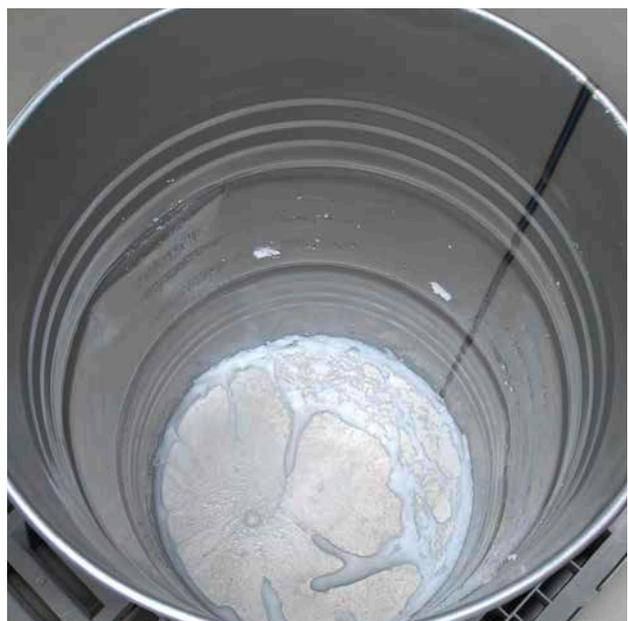
VISCOFLUX mobile S – for pumping high-viscosity, non-self-flowing media such as Vaseline.



High degree of process safety even if the transfer process is interrupted.



Gentle, continuous pumping based on the example of Vaseline.



VISCOFLUX mobile S achieves minimal residual quantities, even for drums with standard transport dents.

Food application area

Application example: tomato puree

VISCOFLUX mobile S is designed to achieve gentle, low-shear pumping of high-viscosity media, such as tomato puree. Users benefit from increased process safety due to the hermetic sealing of the media during processing: Impurities are unable to enter during the pumping process. With the help of a special inliner suction protection, the system achieves residual amounts of up to less than 1 % in the drum, even in drums with aseptic bags. The process device version with the wider chassis allows to approach and to empty bundles with four drums per pallet.



VISCOFLUX mobile S – for pumping high-viscosity, paste-like media such as tomato puree.



Hermetic sealing of the media – processing in a closed process.



Basic food such as vegetable and fruit concentrates can be gently transferred with low-shear.



VISCOFLUX mobile S achieves residual quantities of up to less than 1 %, even for drums with aseptic bags.

VISCOFLUX mobile S

Mobile and flexible



In comparison to stationary devices the VISCOFLUX mobile S can quickly and easily be moved to wherever it is needed without the need of a crane or a forklift. A wide variety of drum types can be emptied – depending on the type of chassis, whether or not they are on pallets. Cables, manual operation unit and discharge spout can easily be stowed onto the multifunctional bracket.



Fits into a freight elevator.



Also suited for emptying bundles with four drums per pallet.



A single system for the most diverse drum types.



The multifunctional bracket keeps everything neatly organised.

Special equipment and accessories

For the most diverse applications



VISCOFLUX mobile S offers numerous control options for the most diverse applications.

VISCOFLUX mobile S offers diverse control options, e.g. batch operations.

External signals from a scale or a fill level measurement sensor can be processed for use in batch operations. For example, when a certain filling weight has been reached, the pump can be switched off and the solenoid valve can be closed at the same time. The control unit with integrated FLUXTRONIC® provides even more possibilities for batch processing. It processes the incoming impulse signals from a flow meter or a speed sensor on the pump and controls the switch-off of the pump and solenoid valve upon reaching the desired filling quantity.



A pump with a impulse sensor is available for contact-free flow measurements.

Pump with impulse sensor for contact-free flow measurements.

The FLUX eccentric worm-drive pumps are also available with a bearing flange along with an integrated impulse generator for contact-free flow measurements. This allows users to indirectly measure flow rates. The pump shaft rotations are counted to acquire a measurement. The information is then communicated for evaluation via an impulse transfer so that a measurement can be taken while avoiding any direct contact with the media. Finally, data analysing and programming can, at the user's discretion, be carried out either via the electronic system FLUXTRONIC®, a control cabinet or a stored program control system (PLC). This means that the bearing flange with impulse sensor can also be utilised for batch filling.

Supplimental accessories.

Inliner suction protection

For optimally emptying drums with aseptic bags, FLUX offers a special inliner suction protection.

Holder for the spout

Using the optional holder for the discharge spout allows for easy storage onto the multifunctional bracket before and after the pumping process.



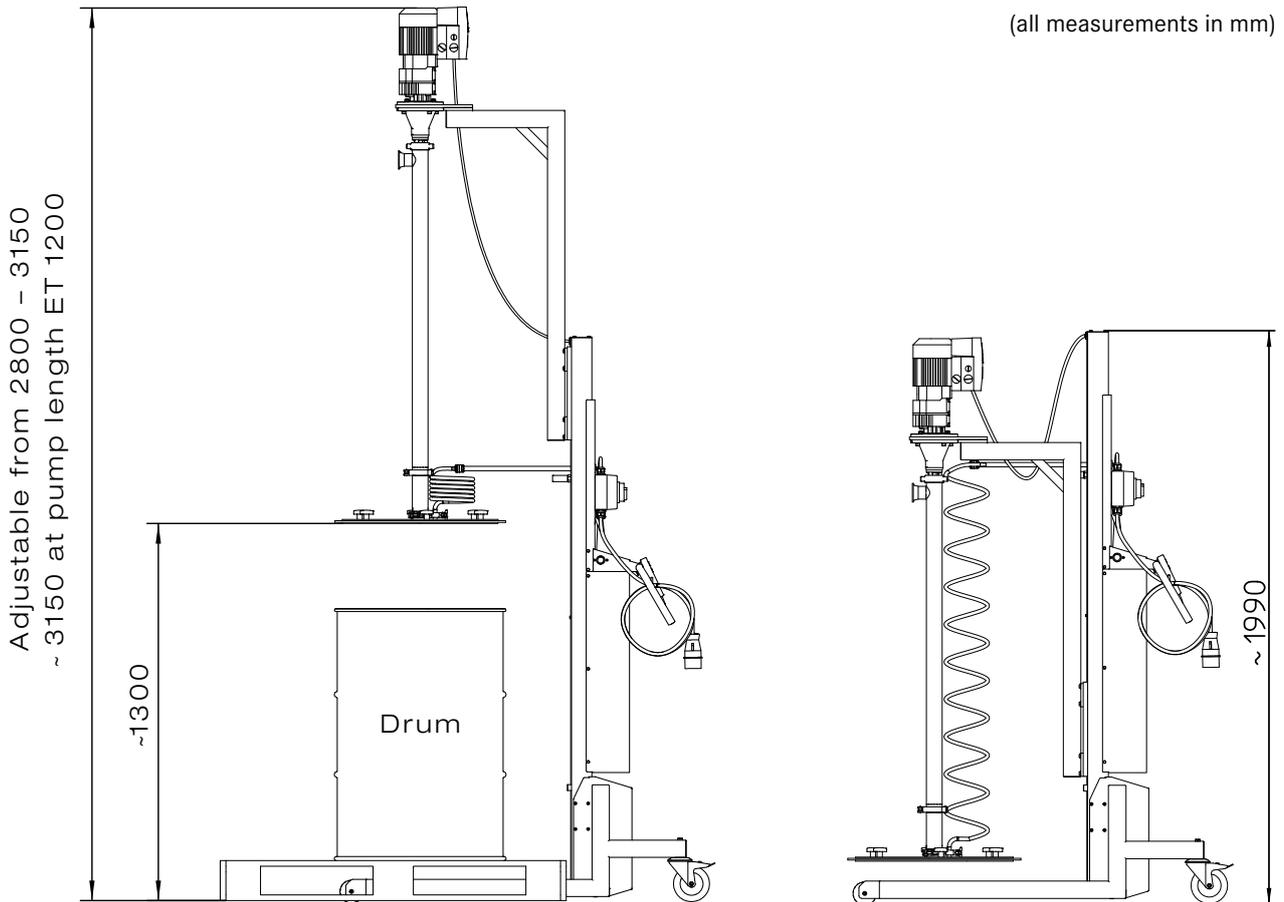
Useful – the optional holder for the discharge spout.

VISCOFLUX mobile S

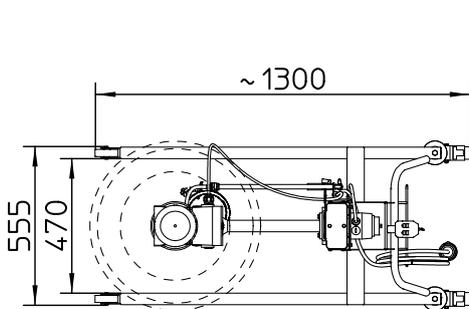
Compact in design – mobile in use



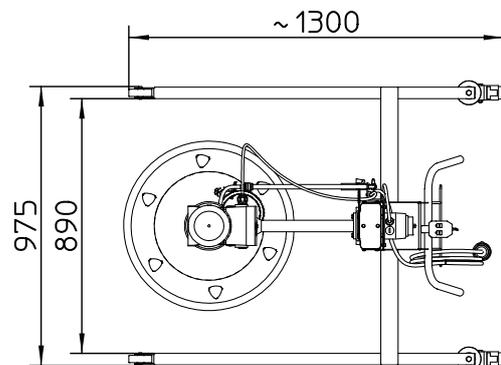
Thanks to its mobile process device, the VISCOFLUX mobile S can quickly and easily be transported to the application site or to the cleaning area – even across numerous floors. Due to its extremely compact design, the system can also be transported in a freight lift. After use, the pump unit, consisting of motor, pump and follower plate, can be quickly dismantled for cleaning.



VISCOFLUX mobile S – its compactness is an advantage over other systems.



VISCOFLUX mobile S with a narrow standard chassis – for euro pallets.



VISCOFLUX mobile S with a wide chassis – also for free-standing drums, drum dollies and universal pallets for 4 drums.



More than just pumps

FLUX is a world renowned brand for the highest standards in pump technology. It all began in 1950 when the electric barrel pump was invented. Today, our wide range of products includes drum and container pumps, centrifugal immersion pumps, eccentric worm-drive pumps and air-operated diaphragm pumps as well as mixers, flow meters and, of course, an extensive range of accessories.

Apart from the outstanding quality of our FLUX products, our customers appreciate our staff's excellent expertise and real customer orientation.

Put us to the test. We are looking forward to hearing from you.

