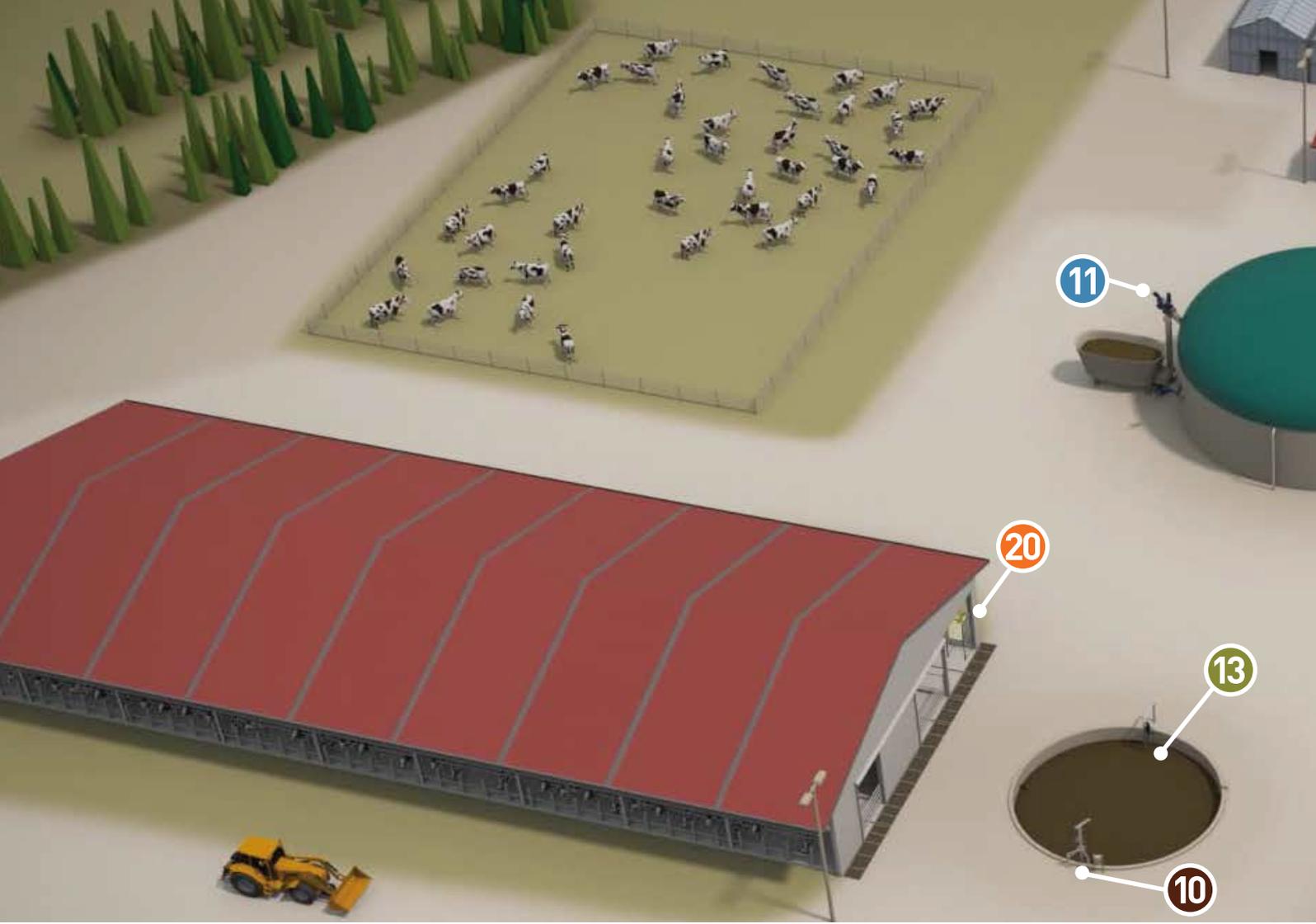




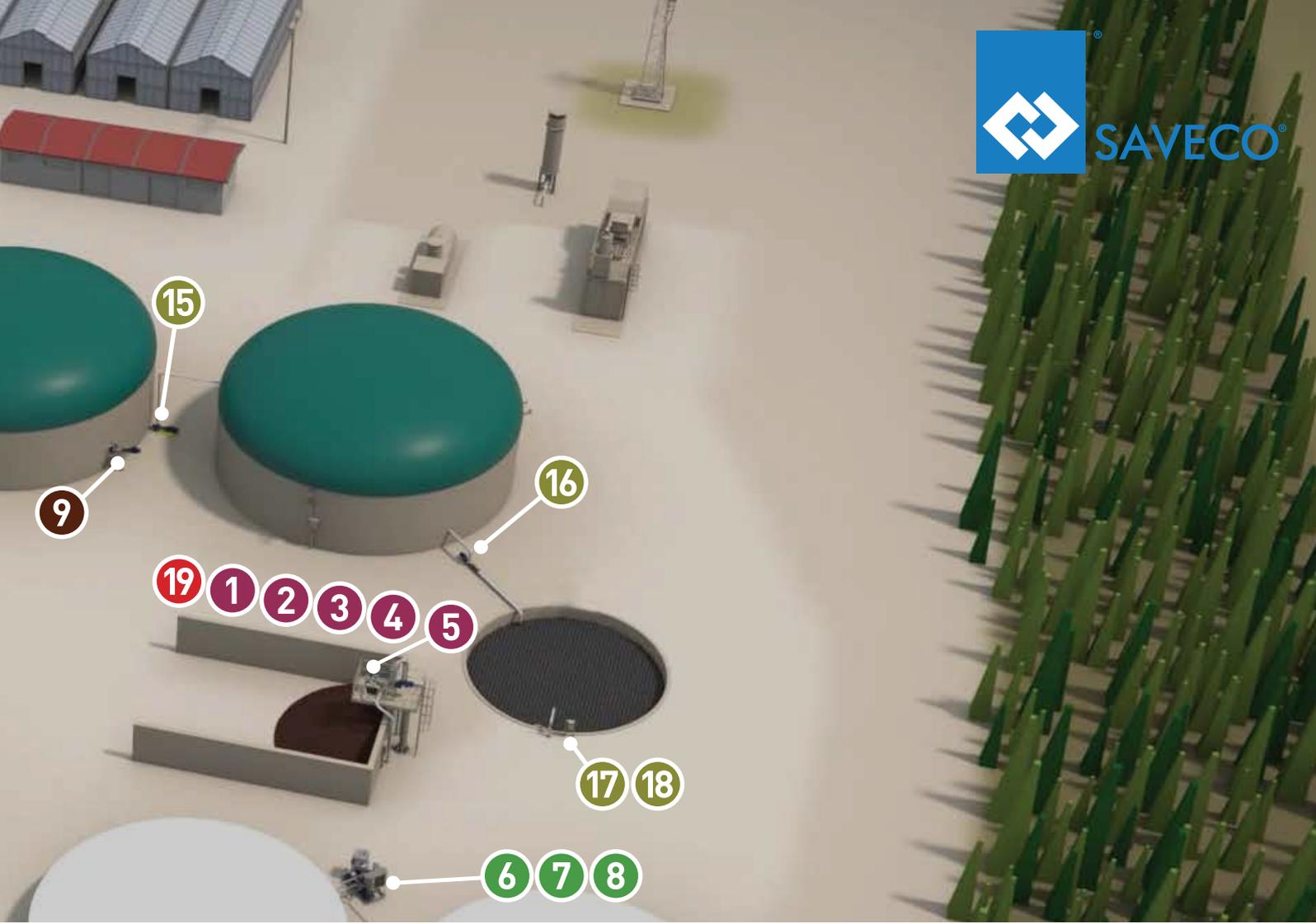
SAVECO®



TECHNOLOGIES & EQUIPMENT  
for **LIVESTOCK FARMING**  
& **BIOGAS**



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- 2 SEPCOM® Bedding Screw Press Separators for Cow Bedding 🇦🇺 🇬🇧
- 3 SEPCOM® Vertical Screw Press Separators for Slurries 🇦🇺
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SAVECO® provides state-of-the-art solutions through a comprehensive range of machines and accessories for manure treatment on farms and digestate management in biogas production.

SAVECO® develops innovative, industrially manufactured, market-oriented products for the world market.

SAVECO®'s goal is to provide the one-stop-solution in the field of solids-liquid separation.

SAVECO® strives to provide the highest possible degree of quality in its products and services at the most competitive price to reach customers all over the world through the global SAVECO® distribution network.

 Livestock Farming

 Pig Farming

 Biogas Plants



## SOLIDS-LIQUID SEPARATORS

### SEPCOM® Horizontal Screw Press Separators

The SEPCOM® Horizontal Screw Press Separator, with its range of sizes and configurations, specialised for different applications, enables the efficient separation of livestock manure as well as biogas digestate. The key components are the SINT™ engineering polymer screw that improves cleaning of the screen and the patented counter-pressure SINT™ diaphragm, which ensures the formation and maintenance of the separated solids outlet plug.

- Solids separation up to 30% DM (dry matter)
- Patented counter-pressure SINT™ polymer diaphragm
- SINT™ polymer screw for optimum screen cleaning



## SOLIDS-LIQUID SEPARATORS

### SEPCOM® Bedding Screw Press Separators

The SEPCOM® Bedding Screw Press Separator is designed for safe re-use of cattle manure or biogas digestate as bedding for livestock. The pneumatic pressor, combined with the logic of the control panel, guarantees full control over the performance of the machine ensuring separated solids with constant dry content.

- Solids separation with up to 40% DM (dry matter)
- Pneumatic counter-pressure system for constant dry content
- Automatic control



### SEPCOM® Vertical Screw Press Separators

The SEPCOM® Vertical Screw Press Separator is the ideal solids-liquid separator for pig slurry. Its unique design, consisting of two vertical SINT™ engineering polymer screws ensures efficient separation and reduces the possibility of losing the solids plug even when dealing with low dry-content manure.

- Ideal for pig manure or any other slurry with low dry content
- Unique design allows constant retention of the solids plug
- SINT™ engineering polymer screws for optimum screen cleaning



### SEPCOM® X Screw Press Separators

The SEPCOM® X is highly versatile and can be integrated into nearly any cattle breeding application, thanks to its excellent cost-benefit ratio. It delivers ease of use, simple installation, and low-maintenance requirements, all while maintaining top-level performance. As an evolution of the SEPCOM® Horizontal, the SEPCOM® X enhances the benefits already offered by SINT™ components, including the screw and patented outlet diaphragm.

- Easy access to the core of the machine
- Ready to go in the blink of an eye
- Quick assembly system
- Recyclable parts for a reduced environmental footprint





## SOLIDS-LIQUID SEPARATORS

### SEPCOM® EVO Solids-Liquid Separation Systems

SEPCOM® EVO is a compact separation system for a quick and easy ground installation. This integrated solution combines the SEPCOM® X with a vertical screw conveyor system on a single metal stand. The screw conveyors efficiently convey and lift the solid phase produced by the separator.

- Cost-effective and integrated solution
- No gantry structures required to stack separated solids
- Simple commissioning and safe installation
- Easy maintenance





**MICRO-FILTERS FOR ENHANCING SEPARATED LIQUID**

**POLYLESS® MFT Micro-Filter**

The MFT Micro-Filter is the ultimate solution for the enhancement of the liquid phase of biogas digestate, as well as pig and cattle manure downstream of the main separator. The rotation speed of the centrifugation tool, combined with the fine spacing of the screen, improves the quality of the separated liquid in terms of solid particle content, resulting in a nutrient-rich liquid that can be used for fertigation and as filler material for complete treatment.

- Filtration efficiency up to 25µm screen spacing
- Concentration of nutrients in the liquid phase
- Streamlining of the separated liquid
- Low operating costs





**COMPACT MICRO-FILTRATION SYSTEMS**

**POLYLESS® PMF Micro-Filtration Plant**

The compact PMF Micro-Filtration Plant operates as an autonomous separation system, consisting of: micro-filter, storage tank, feed pump, control panel and level sensors. The plant refines the liquid fraction downstream a process of solids-liquid separation on digestate, pig or livestock manure.

- Maximum micro-filtration efficiency
- No civil works required
- Small footprint



**POLYLESS® PLS Dynamic Sludge Thickening System**

POLYLESS® is a compact, transportable, fully automatic solution based on the MFT Micro-Filter that includes pumps and electronic sensors under the control of a PLC.

It can be used in treatment for the nitrogen reduction in livestock effluents or after anaerobic digestion (nitro-denitro plants, ammonia stripping processes) to enhance the liquid fraction produced by a solid-liquid separator and improve the efficiency of downstream processes and equipment (centrifuges, membranes).

- Filtration efficiency up to 25 µm
- Micro-filter for advanced high efficiency solids-liquid separation



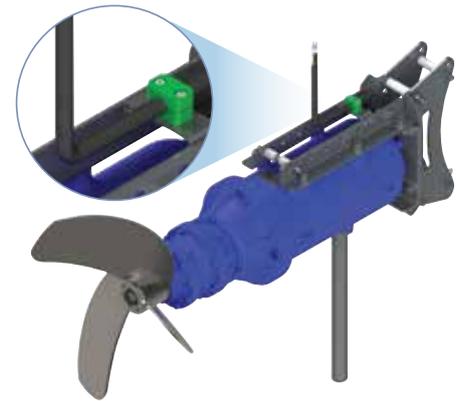


## SUBMERSIBLE AGITATORS

### CHIOR® SE Submersible Agitators

The CHIOR® SE Submersible Agitator is ideally suited for use with digestate, as well as pig or livestock manure. Due to different propeller diameters, optimum efficiency can be achieved in every case, depending on rotation speed. Low power consumption, easy maintenance thanks to a modular concept and the innovative propeller design are the main features of CHIOR® SE Submersible Agitators.

- High efficiency thanks to innovative propeller shape
- Different speeds and propeller diameters adapted to a number of areas of application
- Adjustable support system
- Low power consumption
- Easy maintenance



ATEX version zone 2 available  
for sizes 11 ~ 22 kW



### CHIOR® HMT Agitators With External Electric Motor

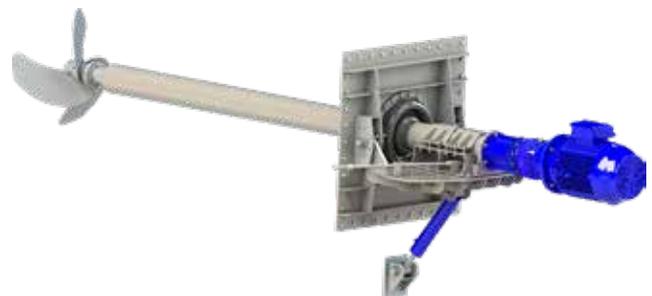
HMT Agitators with External Electric Motor are designed for optimised performance in environments such as anaerobic digesters, digestate tanks and pre-tanks.

The specially shaped stainless-steel propeller ensures highly efficient mixing, even with effluents rich in solids.

Each model has a modular design with propellers of different shapes and sizes, in order to maximise the balance between performance and energy consumption.

The agitators are installed on the side of tanks, integrating perfectly with a mounting frame in concrete. A distinctive advantage of the HMT B (bi-directional) model is the ability to adjust both horizontally and vertically, offering high operational flexibility.

- Dynamically balanced 3-blade 304 stainless-steel propeller
- 304 stainless-steel external tube  $\varnothing 168.3$  mm
- Modular 304 SS  $\varnothing 88.9$  mm internal transmission tube





## BIOMASS FEEDING SYSTEMS FOR ANAEROBIC DIGESTERS

### WAM® TCB Bulk Biomass Digester Feeding Systems

TCB by WAM® is a versatile screw lift system for discharging of the solid fraction of biomass from the mixer / batcher and subsequent lifting and feeding of the material into the anaerobic digester in biogas plants.

- Vertical screw conveyor system with supporting structure
- Heavy-duty extra-thick steel screws
- Standard connection for mixer / batch hopper





## CHOPPER PUMPS FOR TRACTOR ASSEMBLY

### CHIOR® CPT Chopper Pump for Tractor Assembly

The CHIOR® CPT Tractor-Driven Pump is specially designed for shredding and transferring slurry from animal husbandry, biogas digestate or industrial wastewater containing lumpy and fibrous solids.

The highly efficient size reduction of the fibrous components in the material is caused by an innovative cutting system that ensures optimum pump operation even under harsh working conditions.

- Innovative, efficient chopping system preventing clogging
- Self-adjusting chopping system
- Safe thanks to the anti-contamination system of gear
- Visual inspection of lubricant oil through the external container
- Easy maintenance and low operating costs
- Suitable for a variety of different sectors such as Agriculture, Biogas, Environmental Technology and the Food Industry





**VERTICAL CHOPPER PUMPS**



### CHIOR® VPH Vertical Long-Shaft Chopper Pumps with Electric Motor

The CHIOR® VPH is a Long-Shaft Chopper Pump with external motor drive. It is used for pumping manure on farms, as well as effluents from biogas production and industrial plants.

A stainless-steel structure and oil bath transmission ensure long service life. The cast-iron or stainless-steel design of the pump casing allows a wide range of applications. VPH is available in two versions, a standard version (ST) and the MX version with built-in mixing nozzle for partial mixing of the slurry.

High shredding efficiency, even with high solids content, is ensured by the 3-point shredding system.

The VPH pump is far less susceptible to impurities, but can implement much higher pressures and flow rates due to suction from the top.

- Delivery pipe equipped with vertically and horizontally adjustable mixing nozzle
- Flow rate: 138 ~ 320 m<sup>3</sup>/h
- Delivery diameter: 100 ~ 120 mm
- Material: Cast iron or 304L stainless steel
- Drive power installed: 7.5 ~ 22.0 kW
- Head: up to 22 m



**ST-VERSION**

**MX-VERSION**





## FLUSHING PUMPS

### CHIOR® VPF Flushing Pumps

CHIOR® VPF is a solution for the efficient transfer of separated liquids, milking parlour slurry and waste water

Thanks to its ability to handle large flow rates, this externally driven vertical pump is the ideal choice for optimising the cleaning of cow bunks.

- Energy saving: High-efficiency, low-energy consumption electric motor
- Maximum throughput: The advanced design of the pump housing increases productivity by reducing working time
- Reliability and durability: The anti-leakage design protects components, extending durability and reducing maintenance costs
- Versatile and flexible: Adaptable to different tank depths with various options




**SUBMERSIBLE CHOPPER PUMPS**


### CHIOR® SPH Heavy-duty Submersible Chopper Pumps

CHIOR® SPH Heavy-duty Submersible Chopper Pumps are designed for lifting and breaking up lumpy solids or fibres in slurry from animal husbandry, biogas digestate or industrial effluents. The high-efficiency mechanics are the result of an innovative top suction system that prevents the pump from clogging even under harsh working conditions. The triple chopping system enables shredding of coarse matter, while the compact design and reduced overall dimensions ensure easy handling and installation.

- High-efficiency, low-energy consumption electric motor
- Drive power installed: 11.0 ~ 18.5 kW
- High lifting efficiency thanks to top suction
- Efficient chopping system preventing clogging
- Leak-proof design for extended durability
- Easy maintenance thanks to modular design
- Pole-mounted or free-standing
- Head: up to 19 m



### CHIOR® SPB Submersible Chopper Pumps

CHIOR® SPB Submersible Chopper Pumps are designed for shredding and lifting slurry from animal husbandry, biogas digestate or industrial wastewater containing lumpy and fibrous solids. The highly efficient size reduction of the fibrous components in the material is carried out by an innovative cutting system that ensures optimum operation of the pump even under rough working conditions.

- High-efficiency, low-energy consumption electric motor
- Drive power installed: 2.2 ~ 7.5 kW
- Innovative, efficient chopping system preventing clogging
- Leak-proof design for longer service life
- Easy maintenance thanks to modular design of the chopping unit
- Self-adjusting chopping system
- Pole-mounted or free-standing in vertical or horizontal position
- Head: up to 18 m





## HORIZONTAL SHREDDING PUMPS

### CHIOR® HPD Horizontal Shredding Pumps With Electric Motor

CHIOR® HPD is an externally driven horizontal shredding pump designed specifically for the transfer and shredding of biogas digestate, livestock manure and industrial effluents.

At the heart of the innovation is the state-of-the-art cutting system, which guarantees the effective shredding of any material, even the toughest filamentous substances. This means that CHIOR® HPD is always ready to guarantee optimum performance, even under extreme working conditions.

- Class IE3 (Premium Efficiency) electric motor
- Three-phase 4-pole motor; IP55 protection class
- Oil-bath lubricated drive unit with bearings
- Elastic coupling between motor and drive shaft
- Knives, impeller and helical conveyor manufactured from treated and hardened material
- Refill container and oil level control

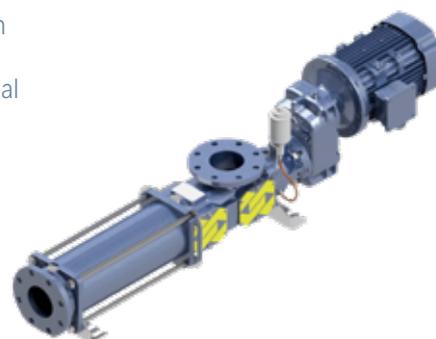


### CHIOR® PCP Progressive Cavity Pump

The PCP by CHIOR® is ideal for the transfer of liquids, even those with high viscosity, both with or without solids in suspension.

The screw within the pump ensures effective pumping of non-homogeneous liquids typical of water treatment plants, biogas plants and farms.

- Pressure nozzle with exhaust and connection for pressure sensor (option)
- Low-wear stator
- Rotor and mixing elements in very low wear, hardened steel
- Cast iron housing with large flow rate capacity
- Robust universal joint with protective sleeve
- Double-acting oil-hardened cartridge seal (standard single-acting mechanical seal version available)
- WAM® S4 gear reduction unit



## WAM® SSC Shaftless Screw Conveyors

SSC Shaftless Screw Conveyors are used for handling separated solids in the animal husbandry and biogas sectors. The material is gently conveyed by a shaftless heavy-duty screw helix sliding on a low-friction, wear-resistant liner in the conveyor trough. Fabricated components are manufactured from 304L stainless steel. SSC Farm are available in nominal diameters of 200 mm with 1.5 kW and 350 mm with 2.0 kW installed drive power.

- Easy to access and clean
- Low maintenance
- Modular components ensure easy adaptation to different requirements resulting in an extremely versatile conveyor for a wide variety of difficult-to-handle materials
- High degree of self-cleaning



## SBB-HFF High-Flow-Rate FIBC Dischargers

High-Flow-Rate FIBC Dischargers SBB-HFF are efficient and safe FIBC discharging systems with innovative petal-shaped flow aids for dust-tight material handling and a clean workplace environment.

- Internal footprint (no protruding parts) allowing optimised battery configuration
- No labour required for complete FIBC emptying
- Full pre-equipment for subsequent retrofitting of accessories
- Easily adaptable to a wide range of bulk materials and different FIBC types, sizes and weights
- Large-scale industrial production ensuring an attractively priced high-quality product
- Problem-free complete emptying of bag corners even with compressed bulk materials





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