

TECHNOLOGIES & MACHINES
FOR LIVESTOCK FARMING & BIOGAS PLANTS

SAVECO®



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.



SAVECO®

SEPCOM® CHIOR® WAM®

SECTORS OF APPLICATION



Livestock Farming

Manure treatment in livestock farms is a key application for the SAVECO® range in animal husbandry. SAVECO®'s expertise in separation, agitation and pumping technologies originates from this specific sector. The product range has been complemented over time with pumps and agitators allowing SAVECO® to provide highly reliable solutions in all phases of manure treatment. Products suitable for heavy-duty operation, a global distribution network, and an attractive price make the SAVECO® range the ideal solution for every farmer. With thousands of separators installed in cattle farms worldwide, SAVECO® is one of the main players on the global market.

Pig Farming

The large number of pig farms worldwide requires a specialised separator range for this sector. The particular characteristics of pig manure have led to the development of a specific machine for slurry treatment offering great advantages in terms of reliability and ease of maintenance.





Biogas Plants

For the umpteen thousands of biogas plants operating worldwide, SAVECO® offers first-class technologies for the separation of fermentation residues from anaerobic digesters. Micro-filtration treatment of the digestate provides maximum enhancement in fertigation as well as for the complex issue of nutrient distribution and treatment. The SAVECO® mixing and pumping equipment completes the range in the biogas sector.

		Livestock Farming	Pig Farming	Biogas Plants
SEPARATION	SEPCOM® Horizontal			
	SEPCOM® Bedding			
	SEPCOM® Vertical			
ADVANCED SEPARATION	MFT Micro-filter			
	PMF Micro-filtration Plant			
AGITATORS	CHIOR® SE			
PUMPS	CHIOR® VPH			
	CHIOR® SPH			
	CHIOR® SPB			
CONVEYORS	WAM® SSC Farm			
BIOMASS	WAM® TCB Bulk Biomass Digester Feeding Systems			



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 and pig 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 system with SINT® diaphragm, which ensures the formation and maintenance of the separated solids outlet plug.

- Solids separation with up to 30% DM (dry matter)
- Patented counter-pressure system with SINT® engineering polymer outlet diaphragm
- SINT® engineering 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 separated solids as bedding for livestock. The solids consist of cattle manure or biogas digestate. The pneumatic pressor, combined with the logic of the SAVECO® 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 outlet counter-pressure system for constant dry content
- Separator control panel









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 SINT® engineering polymer twin screws and their vertical orientation ensures efficient separation without 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 vertical twin-screws for optimised screen cleaning











MICRO-FILTERS FOR ENHANCING SEPARATED LIQUID

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









COMPACT MICRO-FILTRATION SYSTEMS

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 phase of the digestate or pig or livestock manure.

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





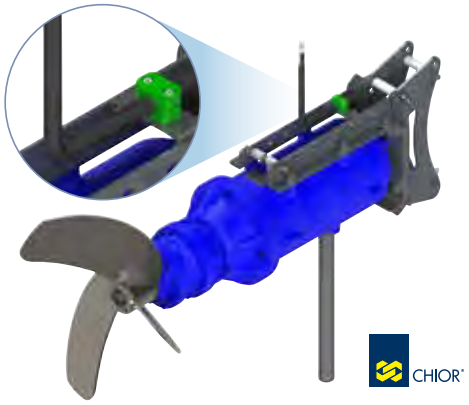


SUBMERSIBLE AGITATORS

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



Ex CERTIFIED **ATEX version zone 2 available for sizes 11 ~ 22 kW**









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











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 far 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^3/h
- Delivery diameter: 100 ~ 120 mm
- Material: Cast iron or 304L stainless steel
- Drive power installed: 7.5 ~ 22 kW
- Head: up to 22 m











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



SHAFTLESS SCREW CONVEYORS

WAM® SSC Farm Shaftless Screw Conveyors

SSC Farm 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 made of 304L stainless steel. SSC Farm are available in nominal diameters of 200 mm with 1.5 kW and 350 mm with 2.0 kW 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









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