2027

FlowExperts

PUMP CATALOG



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A SMOOTH FLOW COMPANY

FlowExperts

We are a trusted **equipment supplier** serving customers across Finland and the Baltic countries, specializing in commercial and industrial processes as well as wastewater treatment applications.

With over 40 years of experience, we provide high-quality industrial specialty pumps, liquid handling solutions such as pulsation dampeners and suction stabilizers, and robust chopping equipment including crushers and shredders.

Our offering is completed by **spare parts supply** and **professional maintenance services** to ensure reliable, long-term operation.

OUR PRODUCTS SERVE A WIDE RANGE OF INDUSTRIES

Biogas

Paper & chemicals

Wastewater

Food & beverage

Petrochemicals

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LEWA
Metering Pumps

Achieve Unrivaled Accuracy and Reliability in Fluid Handling

Discover LEWA's advanced metering pumps, delivering precise, safe, and reliable fluid handling for demanding industries.

Designed for efficiency, durability, and accuracy — excellence in every drop. High-precision dosing with ±0.5% accuracy.

PUMPS

LEWA ecoflow®: Diaphragm Metering Pump

Hydraulic actuated diaphragm metering pump.



Performance data	
Flow rate	19 m3/h per pump head
Discharge pressure	1200 bar

LEWA ecoflow®: Hygienic Diaphragm Metering Pumps

Hydraulically actuated diaphragm metering pump for hygienic applications.



Performance data	
Flow rate	6 m3/h per pump head
Discharge pressure	500 bar

LEWA ecoflow®: Packed Plunger Metering Pumps

Packed plunger pump — robust, reliable, and trusted for consistent fluid metering across industries.



Performance data	
Flow rate	9 m3/h per pump head
Discharge pressure	500 bar

LEWA ecosmart®: Diaphragm Metering Pumps

Innovative compact hydraulic diaphragm pump with multiplex options, delivering reliable performance and the trusted quality of 70 years' expertise.



Performance data	
Flow rate	2,000 l/h per pump head
Discharge pressure	80 bar

LEWA ecodos®: Mechanical Diaphragm Metering Pumps

Mechanically actuated diaphragm pump with monitored 4-layer sandwich diaphragm, offering reliable, cost-efficient, and adaptable metering for diverse applications.



Performance data	
Flow rate	16 to 1460 l/h per pump head
Discharge pressure	20 bar

LEWA ecodos®: Sanitary / Hygienic Diaphragm Metering Pumps

Mechanically actuated diaphragm pump in sanitary design, meeting the highest standards for pharmaceutical and food industry applications.

Performance data	
Flow rate	16 to 1460 l/h per pump head
Discharge pressure	20 bar



LEWA intellidrive®: Mechatronic Diaphragm Metering Pump Technology

Mechatronic diaphragm pump with intelligent servomotor drive, allowing fully customizable pumping for precise application needs.

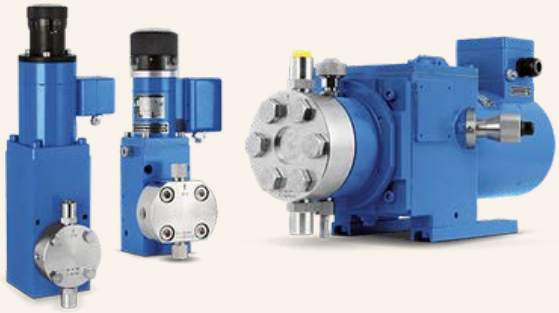
Performance data	
Flow rate	4 m3/h per pump head
Discharge pressure	1000 bar



LEWA MAH, MBH, MLM Series: Micro-Metering Pumps

Hydraulically actuated metal diaphragm pump with solenoid actuator — precise, ultra-low flow metering, offering cost-effective solutions for variable fluid dosing.

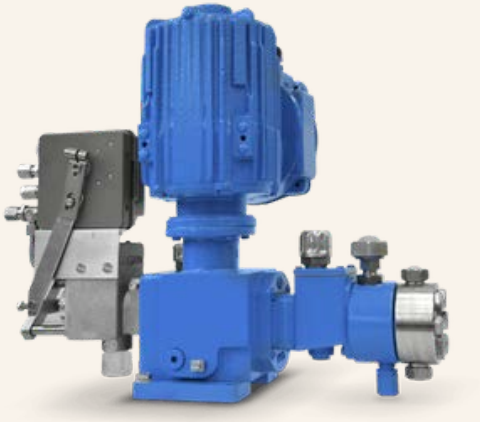
Performance data	
Flow rate	10 ml/h to 55 l/h
Discharge pressure	560 bar



LEWA FC: High-Precision Laboratory Metering Pumps

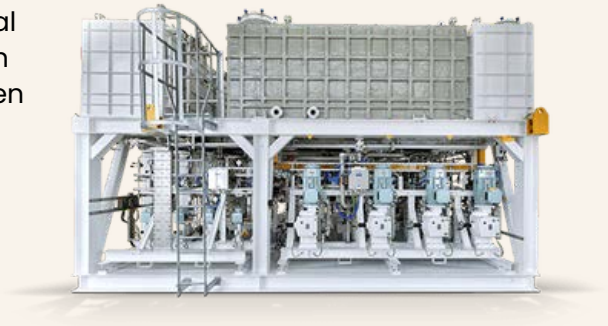
Hydraulically diaphragm and mechanically actuated packed plunger pump — FC series delivers ultra-precise, ideal for labs and test centers.

Performance data	
Flow rate	1.5 ml/h to 65 l/h
Discharge pressure	160 bar / 400 bar



LEWA Chemical Injection Packages

For specialist applications in the oil, gas, and chemical industries. LEWA's expertise and years of experience in various industries make LEWA the perfect partner when it comes to building top-quality, reliable, and high-performance Chemical Injection Packages.



Performance data	
Flow rate	Between 5 ml/h and 180 m3/h
Discharge pressure	Up to 3500 bar

LEWA Pump Skids

Ready-to-operate, custom-designed pump skid units with a small-footprint design. LEWA pump expertise and years of experience across various industries enable us to handle every stage in the creation of a pump skid – from design right through to commissioning.



Performance data	
Flow rate	Between 10 ml/h and 180 m3/h
Discharge pressure	Up to 3500 bar

LEWA Odorizing Systems

Trust in odorizing systems from the market leader: LEWA supplies complete solutions consisting of pumps, tanks, and measuring and regulation units.
For over 40 years, LEWA has been building odorizing systems for natural gas, oxygen, nitrogen, carbon dioxide, and other gases.



Performance data	
Flow rate	0 l/h to 40 l/h
Discharge pressure	Between 2 bar and 300 bar

MYTHO
Dosing pumps
Solutions for you

Founded in 2011 by experienced watertreatment professionals. Mytho designs and manufactures high-performance metering pumps and chemical analysis systems for global markets.

Initially supplying leading OEMs and private labels. Mytho expanded in 2020 to serve the wider water treatment and industrial sectors with its proven solutions.

Hyperion Series: SOLENOID-DRIVEN DOSING PUMPS

Powerful microprocessor technology delivers precise, consistent and reliable chemical dosing for water-treatment systems and industrial processes where superior chemical compatibility is required.

M Series

Compact wall-mounted solenoid-driven dosing pumps for water treatment applications. The M Series offers reliable, space-saving solutions with analogue and digital models to suit common installation needs.



- Flow rate range: 3 l/h @ 10bar; 5 l/h @ 8 bar
- Wetted parts: PVDF, PTFE, EPDM, FKM-B and ceramic
- Analogue and digital range with constant or proportional dosage

Y Series

Base-mounted solenoid-driven dosing pumps delivering precise, reliable dosing for water treatment and industrial applications. The Y Series offers a wide flow range and excellent chemical compatibility, while the T Series features Modbus RTU RS485 connectivity for remote management via MythoLink.



- Flow rate range: 2.5 – 110 l/h, up to 20 bar
- Wetted parts: PVDF, PTFE, FFKM, EPDM, FKM-B and ceramic

T Series

Base-mounted solenoid-driven pumps with mechanical stroke-length regulation. The T Series delivers precise, reliable dosing for water treatment and industrial applications, offering wide flow ranges, chemical compatibility, and optional Wi-Fi connectivity for remote management via MythoLink.



- Flow rate range: 2.5 – 110 l/h, up to 20 bar
- Wetted parts: PVDF, PTFE, FFKM, EPDM, FKM-B and ceramic

H Series

Wall-mounted solenoid-driven dosing pumps. The H Series, Mytho's best-selling range, offers reliable analogue and digital models for a wide variety of water-treatment applications, developed and refined with global user feedback.

- Flow rate range: 0.4 – 110 l/h, up to 20 bar
- Wetted parts: PVDF, SS316L, PTFE, FFKM, EPDM, FKM-B and ceramic
- Analogue and digital range with constant or proportional dosage



O Series

Wall-mounted solenoid-driven dosing pump for hazardous environments. Mytho's O Series features an IP65 stainless-steel body, digital interface, and constant or proportional dosing, ideal for mining, quarrying, and oil & gas applications.

- Flow rate range: 0.4 - 110 l/h
- Stroke rate: 120 - 300 strokes/minute
- Maximum backpressure: 20 bar



Titan Series: MOTOR-DRIVEN DOSING PUMPS

Motor-driven dosing pumps — robust, reliable solutions for aggressive chemicals in water-treatment, petroleum, chemical, and gas industry applications.

D1 Series

Spring-return mechanical diaphragm dosing pump. The D1 offers flexible configurations of pump heads, motors, stroke lengths, and materials, providing a safe, leak-free solution where chemical leakage is not acceptable.

- Flow rate range: 5.5 - 500 l/h, up to 16 bar
- Wetted parts: SS316L, PVC, PP, PVDF, PTFE, FPM, EPDM and ceramic

D1 HF Series

Spring-return diaphragm pump with Assisted Vacuum System® (AVS). The D1 HF improves performance by increasing dosing frequency without compromising diaphragm lifespan.

- Flow rate range: 450 - 1,200 l/h, up to 4.5 bar
- Wetted parts: SS316L, PVC, PP, PVDF, PTFE, FPM, EPDM and ceramic



R1 R Series

Spring-return plunger piston dosing pump. The R1 offers flexible configurations for low-flow applications, with multiple pump head, motor, and stroke options to suit a wide range of processes.

Flow rate range: 1.5 - 304 l/h, up to 20 bar

Wetted parts: SS316L, PVC, PTFE, FPM, EPDM and ceramic



R2 R Series

Spring-return plunger piston dosing pump. The R2 offers versatile pump head, motor, and stroke configurations, with a robust aluminium housing and special high-pressure pump body for multiple applications.

Flow rate range: 40 - 1,000 l/h, up to 20 bar

Wetted parts: SS316L, PVC, PTFE, FPM, EPDM and ceramic



R2 HP Series

Spring plunger piston dosing pump for high pressure. The R2 HP features a spring-return mechanism in a robust aluminium housing with a special high-pressure pump body for versatile applications.

Flow rate range: 2.5 - 12 l/h, up to 100 bar

Wetted parts: SS316L, PTFE, NBR

V Series: WITH ELECTRONIC CONTROL FOR PROPORTIONAL DOSING

Mytho brings IoT (the Internet of Things) to mechanical chemical dosing. The V Series controller, compatible with Titan motor-driven pumps, provides live and historical data remotely via PC, tablet, or smartphone, enabling precise digital dosing, process optimization, and cost control 24/7.

V Series

Motor-driven spring-return pumps with electronic control and IoT. V Series combines robust aluminium construction with MythoLink connectivity, allowing local and remote monitoring, programming, and signal-linked dosing for reliable, precise performance.

Flow rate range: 1.5 - 304 l/h, up to 20 bar

Wetted parts: SS316L, PVC, PTFE, FPM, EPDM and ceramic



For precision, consistency and reliability, choose N Series.

A range of electric motor-driven pumps with mechanical diaphragm liquid ends and mechanical return designed to deliver exceptional performance across a wide range of flow and pressure environments.

NX N Series

Mechanical-return diaphragm dosing pump. The NX Series offers compact designs for lower flow rates while handling slightly higher pressures, with features similar to the NY models.

Flow rate range: 9 - 530 l/h, up to 12 bar

Wetted parts: SS316L, PVDF, PTFE, FPM, EPDM and ceramic



NY N Series

Mechanical-return diaphragm dosing pump. The N Series NY delivers superior dosing performance for demanding applications, with a durable metal and cast-aluminium construction supporting high flow rates.

Flow rate range: 80 - 2,300 l/h, up to 10 bar

Wetted parts: SS316L, PVDF, PTFE, FPM, EPDM and ceramic



ACCESSORIES

Probes & Sensors

Water Treatment Probes - Monitoring limits, values, or closed-loop control is easy with MYTHO sensors. Measurements are delivered in real time and can be flexibly connected via bypass, immersion or installed fittings.

MYTHO inductive conductivity system outperforms conventional methods. With no electrodes in contact with the fluid, it is virtually maintenance-free and requires minimal recalibration. The sensor range covers everything from basic water treatment to industrial process waters with demanding requirements for temperature, pressure, contamination tolerance, and chemical resistance.



GEMMECOTTI
Chemical pumps

Safe and reliable industrial pumps

For over 30 years, GemmeCotti has designed and manufactured high-quality chemical pumps for acids and corrosive liquids.

Their range includes magnetic drive, mechanical seal, vertical, and double diaphragm pumps, all built with premium Italian components and backed by expert customer support.

MAG-DRIVE CENTRIFUGAL PUMPS

Seal-less mag drive centrifugal pumps. Torque is transmitted from the motor to the impeller via magnetic coupling, allowing contact-free rotation and hermetic separation between the hydraulic and motor sections.

HTM PP/PVDF: Thermoplastic mag-drive centrifugal pumps

For handling highly corrosive liquids. The contact-free magnetic drive eliminates mechanical seals, reducing leakage, emissions, and maintenance while ensuring safe and efficient operation. The liquid must be clean and free of suspended solids.

- Flow rate range: up to 130 m3/h
- Head up to 48 mlc
- Made of PP or PVDF



HTM SP PP/PVDF: Thermoplastic self-priming mag-drive centrifugal pumps

HTM SP pumps combine seal-less magnetic drive safety with self-priming up to 6 m, offering chemical resistance while minimizing leakage, emissions, and maintenance.

- Flow rate range: up to 25 m3/h
- Head up to 22 mlc
- Made of PP or PVDF



HCM PP/PVDF: Thermoplastic mag-drive centrifugal pumps

Made of thermoplastics (Polypropylene or PVDF), these mag drive pumps are built for highly corrosive fluids and heavy-duty applications. The solid-block casing and contact-free magnetic drive ensure maximum safety, efficiency, and minimal risk of leakage or emissions.

- Flow rate range: up to 130 m3/h
- Head up to 48 mlc
- Made of PP or PVDF



HTM SS 316: Metallic mag-drive centrifugal pumps

Made of AISI 316, handle hydrocarbons and hazardous liquids safely. Contact-free magnetic drive eliminates mechanical seals, reducing leakage, emissions, and maintenance, with ATEX versions available for Zone 1 and 2.

- Flow rate range: up to 32 m3/h
- Head up to 24 mlc
- Made of stainless steel AISI 316



MAG-DRIVE TURBINE PUMPS

Seal-less magnetic drive turbine pumps transmit torque from the motor to the turbine via magnetic coupling, enabling contact-free rotation and hermetically separating the hydraulic section from the motor.

HTT PP/PVDF: Thermoplastic mag-drive regenerative turbine pumps

Suitable for highly corrosive liquids, use contact-free magnetic drive to reduce leakage, emissions, and maintenance, ensuring maximum safety and efficiency.

- Flow rate range: up to 9 m3/h
- Head up to 48 mlc
- Made of PP or PVDF



HTT-SP PP/PVDF: Thermoplastic mag-drive regenerative turbine pumps - self-priming

Self-primes up to 5 m with water at ambient temperature. Maximum chemical resistance, minimize maintenance, withstand external corrosion, handle up to 20% entrained gas, and resist cavitation.

- Flow rate range: up to 6 m3/h
- Head up to 24 mlc / Self-priming up to 5 m
- Made of PP or PVDF / Machined from a block



HTA AISI 316: Metallic mag-drive regenerative turbine pumps

Suitable for solvents, hydrocarbons, and hazardous liquids, use contact-free magnetic drive to minimize leakage, emissions, and maintenance, ensuring hermetic safety and efficiency. ATEX versions are available for Zone 1 and 2 (EM-T AISI 316).

- Flow rate range: up to 7 m3/h
- Head up to 76 mlc
- Made of stainless steel AISI 316



MAG-DRIVE ROTARY VANE PUMPS

Seal-less mag drive vane pumps transmit torque via magnetic coupling, enabling contact-free rotation of the rotor and vanes. This design ensures smooth fluid transfer and hermetic separation between the hydraulic section and the motor.

HPP/HPF PP/PVDF: Thermoplastic mag-drive rotary vane pumps

Suitable for corrosive, toxic, and carcinogenic fluids, reduce leakage and maintenance thanks to contact-free magnetic drive. Ideal for low-flow, high-head applications such as pilot plants and sampling.

- Flow rate range: up to 980 L/h
- Pressure up to 5 bar
- Made of PP or PVDF



HTP AISI 316: Metallic mag-drive rotary vane pumps – dry self-priming

For handling hydrocarbons, solvents, and other challenging liquids with minimal leakage, emissions, and maintenance. Ideal for low-flow, high-head applications, with ATEX versions for Zone 1 and 2 (EM-P AISI 316).

- Flow rate range: up to 2100 L/h
- Pressure up to 13 bar / Dry self-priming
- Made of stainless steel AISI 316



MECHANICAL SEAL CENTRIFUGAL PUMPS

Mechanical seal centrifugal pumps are ideal for liquids containing solids. Their open-impeller design handles dirty fluids, while the mechanical seal—comprising a static and rotating ring on the pump shaft—uses the pumped liquid for lubrication.

HCO PP/PVDF: Thermoplastic mag-drive rotary vane pumps

HCO pumps handle highly corrosive liquids with solids in suspension and offer three mechanical seal options: elastomeric lip seal (sizes 95–10), internal PTFE bellows/ceramic seal (sizes 110–170), and single or double back-to-back seals (sizes 180–200).

- Flow rate range: up to 130 m3/h
- Head up to 48 mlc
- Made of PP or PVDF



VERTICAL CENTRIFUGAL PUMPS

Vertical centrifugal pumps are suitable for installations with the pump immersed directly in the tank.

HV PP/PVDF

- Flow rate range: up to 40 m3/h
- Head up to 22 mlc
- Column length up to 1000 mm



HTM-V PP/PVDF:

- Flow rate range: up to 23 m3/h
- Head up to 20 mlc
- Column length: 320 mm





HVL PP/PVDF

- Flow rate range: up to 130 m3/h
- Head up to 48 mlc
- Column length up to 2000 mm

PVA AISI 316

- Flow rate range: up to 24 m3/h
- Head up to 26 mlc



Scherzinger Gear pumps

SCHERZINGER PUMP TECHNOLOGY

Keeps your application running

SCHERZINGER Pump Technology has been designing and manufacturing gear pumps for industrial applications for over 70 years.

This traditional German manufacturer specializes in dosing and transfer solutions for the automotive, chemical, petrochemical, pulp and paper, environmental, energy, and machinery industries, ensuring reliable performance in every application.

High-Quality Stainless Steel Pumps

SCHERZINGER stainless steel gear pumps have kept systems and processes running smoothly. The individually designed Series 3030–5030 reliably handles a wide range of corrosive liquids, meeting the highest performance standards.

More safety

All pumps are magnetically coupled and therefore hermetically sealed.

More reliability

All pumps are impressive in their quality and are available with detailed product documentation.

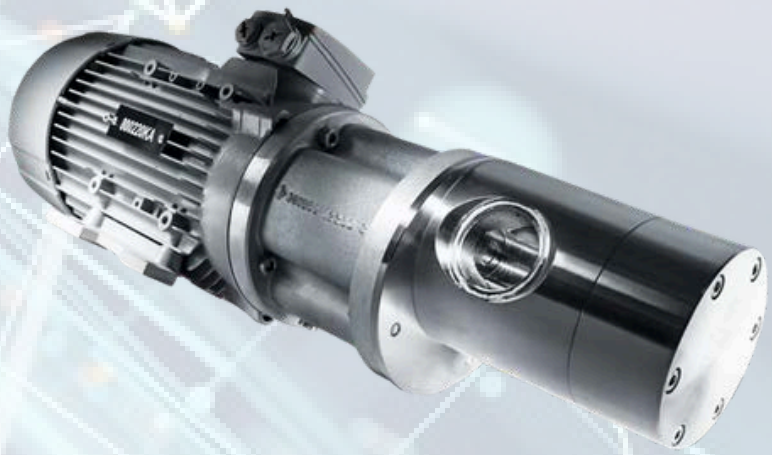
More variety

All pumps are specifically designed for their individual intended application.

Pump variety for your sector and application

Size	Geometric conveyed volume [ml / u]	Max. rotation speed [1 / min]	Max. volume flow [l / min]	Max. differential pressure [bar]	Max. input pressure [bar]	Viscosity [mPas]	Temp. range [°C]
2876	0,32	5500	1,6	10	15	0,8 ... 1200	-10 ... 80
3030	0,45 0,7 1.1 *	4000	1.8 2.8 4.4	10 30	60 90	5 ... 3000 5 ... 20,000	-20 ... 130 -40 ... 200
4030	2.8 4.5 7.1 *	3500 3000	1.8 2.8 4.4	20 30	60 90	0.5 ... 5000 0.5 ... 20,000	-20 ... 130 -40 ... 200
5030	13 21 35 *	3000 2800 2600	39 58 91	30	30 90	0.5 ... 6000 0.5 ... 20,000	-20 ... 130 -40 ... 200
5G	13 21 35 *	1800 1800 1800	39 58 91	30	160	0.5 ... 6000 0.5 ... 10,000	-20 ... 130 -40 ... 200

* maximum possible application area with application-specific and constructive adjustments



High-Tech Pumps of Hastelloy®

The versatility of this product group will certainly increase your heart rate: Every component of the pump is designed to fulfill the highest requirements.

Corrosion-resistant

All components of the pump are highly corrosion-resistant.

Application range

All pumps in this category can convey oxidizing, reducing and chlorine-containing mediums.

Reliability

All process steps of our development and production are designed for maximum operation safety – for maximum safety in your application.

Hermetically sealed Hastelloy® pumps

Size	Geometric conveyed volume [ml / u]	Max. rotation speed [1 / min]	Max. volume flow [l / min]	Max. differential pressure [bar]	Max. input pressure [bar]	Viscosity [mPas]	Temp. range [°C]
3040	0.45 0.7 1.1 *	4000	1.8 2.8 4.4	7 30	60 90	.5 ... 3000 0.5 ... 20,000	-20 ... 70 -40 ... 200
4040	2.8 4.5 7.1 *	3500 3000	9.8 15 21	7 30	60 90	0.5 ... 5000 0.5 ... 20,000	-20 ... 70 -40 ... 200
5040	13 21 35 *	3000 2800 2600	39 58 91	7 30	60 90	0.5 ... 6000 0.5 ... 20,000	-20 ... 70 -40 ... 200

* maximum possible application area with application-specific and constructive adjustments

Titanium Gear Pumps

Power products made of highly corrosion-resistant active substance combinations

Corrosion-resistance

All components of the pumps are highly corrosion-resistant.

Combination fortitude

All pumps in this category can convey chlorine-containing and highly oxidizing acids.

Reliability

All process steps of our development and production are designed for maximum operation safety – for maximum safety in your acid application.

Size	Geometric conveyed volume [ml / u]	Max. rotation speed [1 / min]	Max. volume flow [l / min]	Max. differential pressure [bar]	Max. input pressure [bar]	Viscosity [mPas]	Temp. range [°C]
3050	0.45 0.7 1.1 *	4000	1.8 2.8 4.4	7 30	60 90	0.5 ... 3000 0.5 ... 20,000	-20 ... 70 -40 ... 200
4050	2.8 4.5 7.1 *	3500 3000	9.8 15 21	7 30	60 90	0.5 ... 5000 0.5 ... 20,000	-20 ... 70 -40 ... 200

* maximum possible application area with application-specific and constructive adjustments

Reliable Gray Cast Iron Pumps

A variable range for your application: A heart adapts its performance capacity to the energy demand. This is exactly how SCHERZINGER adapts its pumps to the application area of your concrete application. Our gray cast iron pumps are available in various designs and in numerous configurations – so you will always have the ideal properties.

Application area

According to need: variable configurable.

Design

According to application: various seal designs.

Construction

According to request: Gerotor pumps or external or internal gear pumps.

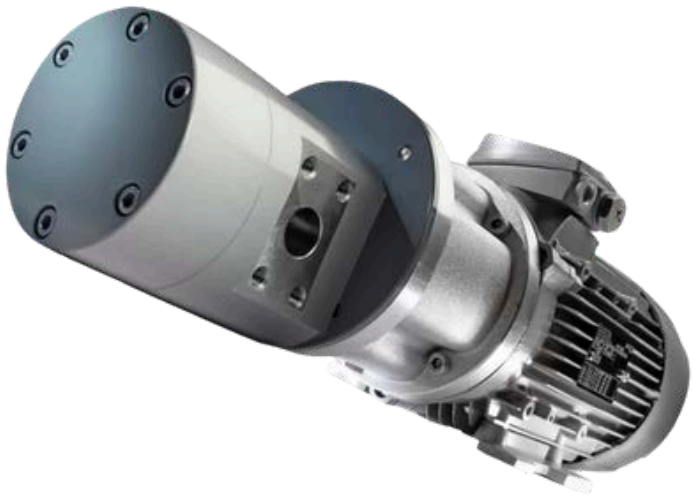
Gray cast iron pump with shaft seal

Size	Geometric conveyed volume [ml / u]	Max. rotation speed [1 / min]	Max. volume flow [l / min]	Max. differential pressure [bar]	Max. input pressure [bar]	Viscosity [mPas]	Temp. range [°C]
51	2.1	1800	3.8	25	10	2 ... 30,000	-20 ... 160
76	2.8		5.0				
	*			40		1 ... 50,000	-40 ... 250
101	4.0	1800	7.2	25	10	2 ... 30,000	-20 ... 160
151	5.7		10	30			
251	10.9		19				
	*			40		1 ... 50,000	-40 ... 250
351	20.9	1800	38	30	10	2 ... 30,000	-20 ... 160
451	31		56				
551	49		88				
	*			40		1 ... 50,000	-40 ... 250

Hermetically sealed gray cast iron pumps

Size	Geometric conveyed volume [ml / u]	Max. rotation speed [1 / min]	Max. volume flow [l / min]	Max. differential pressure [bar]	Max. input pressure [bar]	Viscosity [mPas]	Temp. range [°C]
5020	13	1800	23	50	60	2 ... 6000	-30 ... 160
	21		38	30			
	35		63	20			
	50		90	15			
	*			60	160	0.5 ... 50,000	-40 ... 250

* maximum possible application area with application-specific and constructive adjustments



WANGEN PUMPS

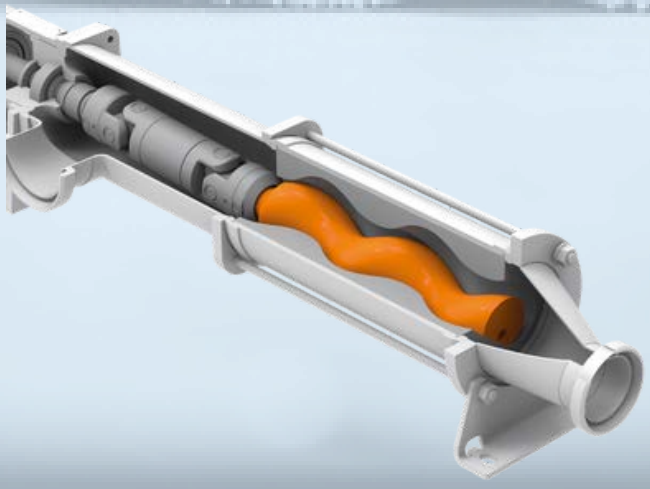
Robust and reliable pumps

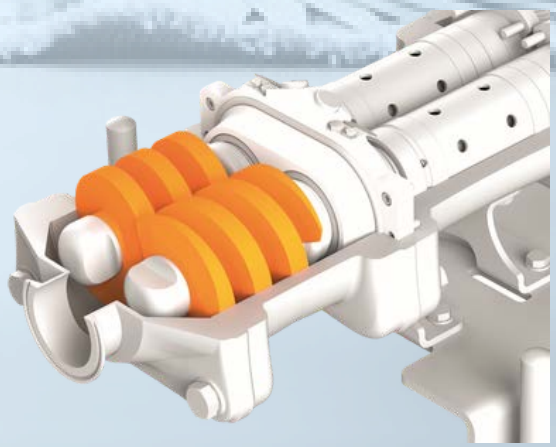
WANGEN PUMPS is a mechanical engineering company supplying high-quality positive displacement pumps for demanding industrial applications.

Its range includes progressive cavity and twin screw pumps for industries such as food and beverage, pharmaceuticals, wastewater, biogas, chemicals, paper and shipbuilding.

Applications of pumps

Product group / Application	Hygienic pumps		Industrial pumps						Modules
	Twin screw pumps	Progressing cavity pumps	Self-priming pumps	Special hopper feed pumps	Standard hopper feed pumps	High performance hopper feed pumps	PTO shaft pumps	Immersion pumps	Debris removal / mixing
	Twin NG VarioTwin NG	KL-SL KB-SL KL-TL HYLINE KL-RL / -RF MX	KL-S KB-S KB22S Xpress BIO-FEED	BIO-MIX BIO-MIX 200	KL-R	KL-RÜ KL-RQ KL-RS KL-R Triplex	GL-F GL-S	KL-T	BIO-ROXX
Sewage water treatment			•		•	•		•	•
Biogas / anaerobic digestion			•	•	•			•	•
Construction, stone, earths			•		•	•		•	
Chemicals	•	•	•		•			•	
Paints and surface coatings	•	•	•		•			•	
Cosmetics	•	•							
Agriculture							•		•
Food and beverage	•	•							
Pharma-ceuticals	•	•							
Paper	•		•					•	
Petro-chemicals			•					•	
Ship building			•					•	



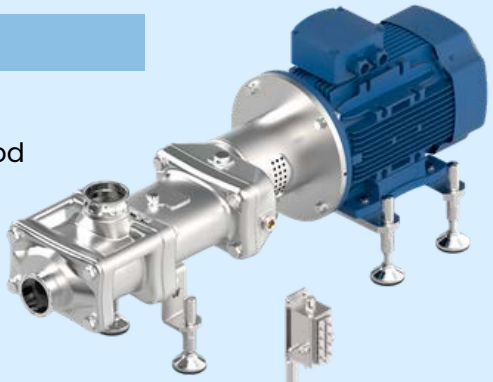


HYGIENIC PUMPS

Twin screw pumps: Twin NG

Convey with up to 30 bar liquid and paste-like food products with viscosities up to 1,000,000 mPa·s hygienically and efficiently.

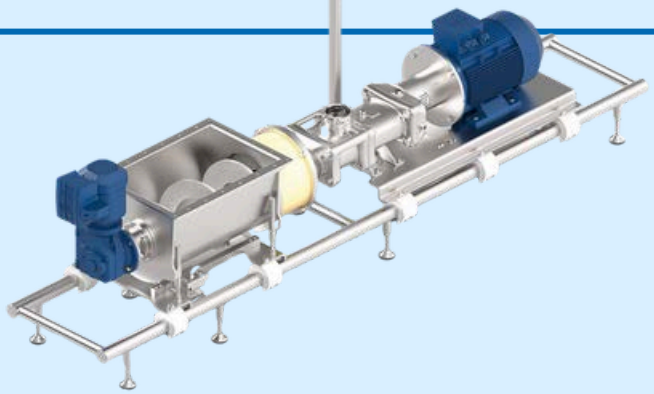
Max. flow rate 200 m^3/h
Max. differential pressure 30 bar



Twin screw pumps: VarioTwin NG

Hygienic and gentle conveying of food with viscosities up to 3.000.000 mPa·s.

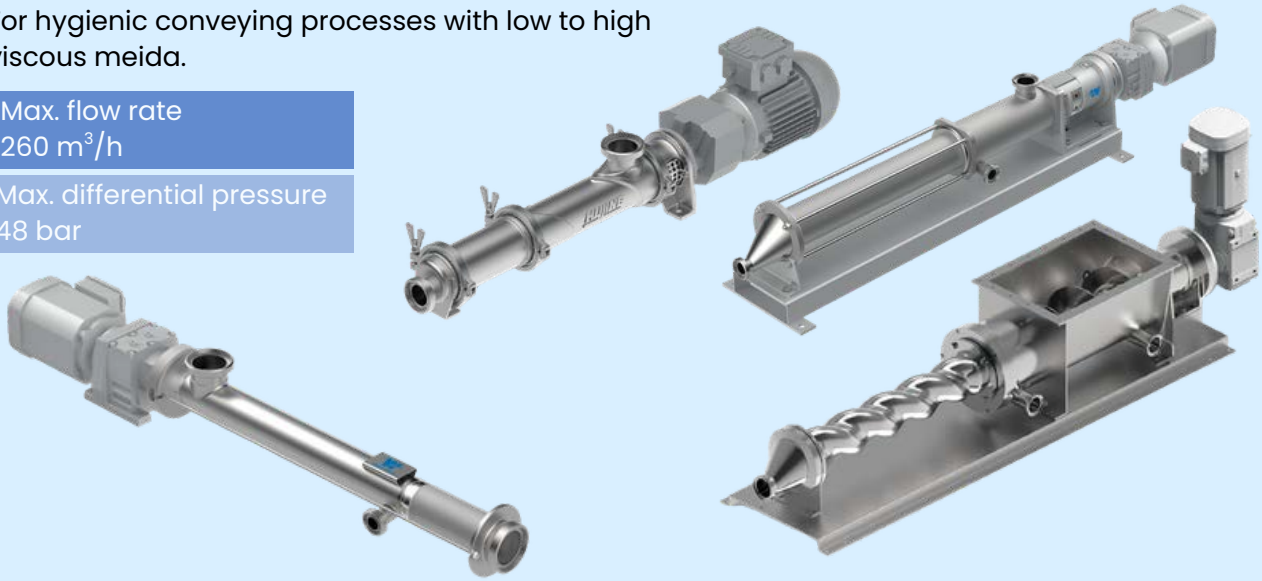
Max. flow rate 10 m^3/h
Max. differential pressure 25 bar



Progressing cavity pumps: Self-priming pumps KL-SL, KL-TL, HYLINE, KB-SL, MX

For hygienic conveying processes with low to high viscous meida.

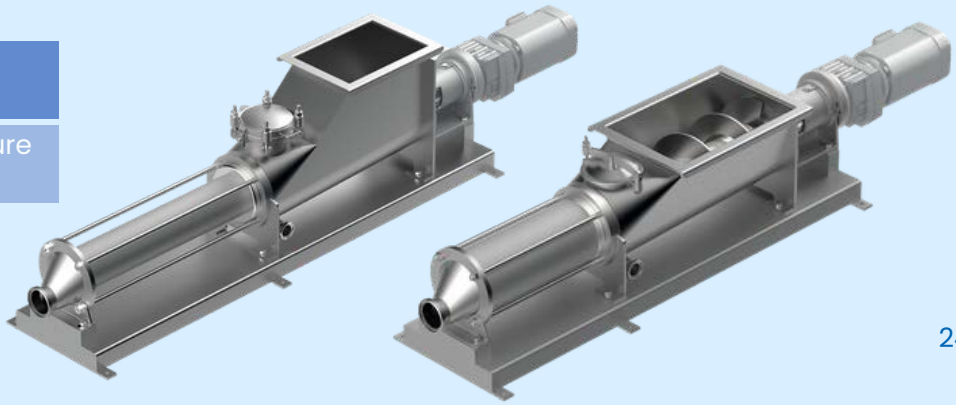
Max. flow rate 260 m^3/h
Max. differential pressure 48 bar



Progressing cavity pumps: Hopper feed pumps KL-RL, KL-RF

Hygienic and gentle conveying of food with up to 1.000.000 mPa·s

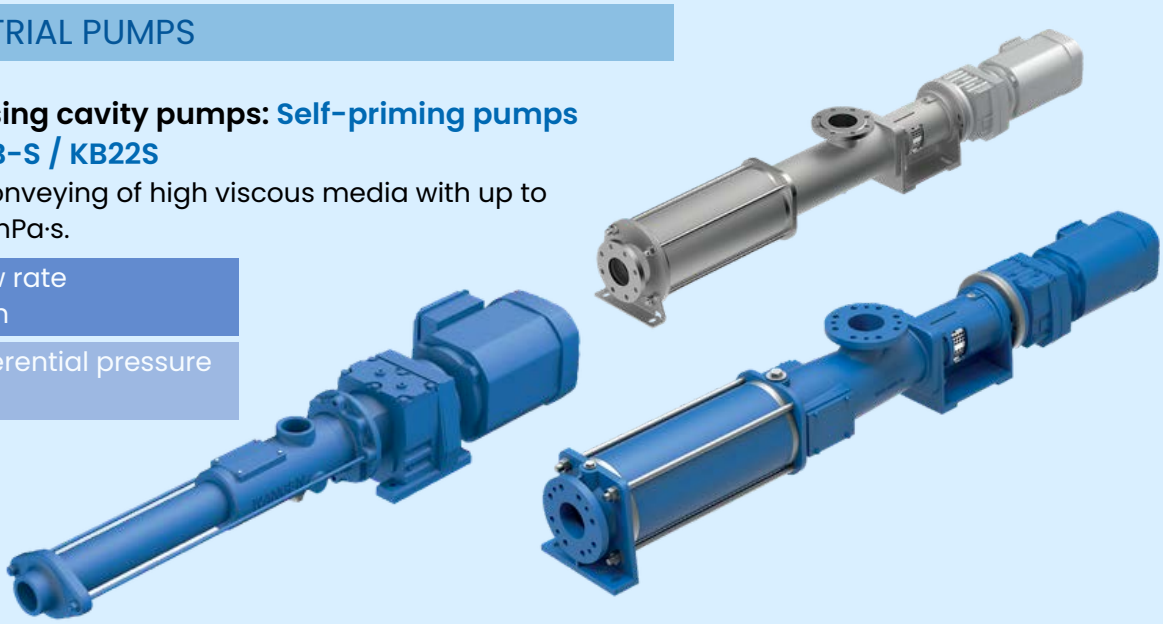
Max. flow rate 65 m^3/h
Max. differential pressure 48 bar



Progressing cavity pumps: Self-priming pumps KL-S / KB-S / KB22S

Secure conveying of high viscous media with up to 200.000 mPa·s.

Max. flow rate 560 m^3/h
Max. differential pressure 48 bar



Progressing cavity pumps: Self-priming pumps Xpress with X-LIFT

Reliable conveyance of digested sludge and low viscous media with up to 8 % DS.

Max. flow rate 102 m^3/h
Max. differential pressure 6 bar

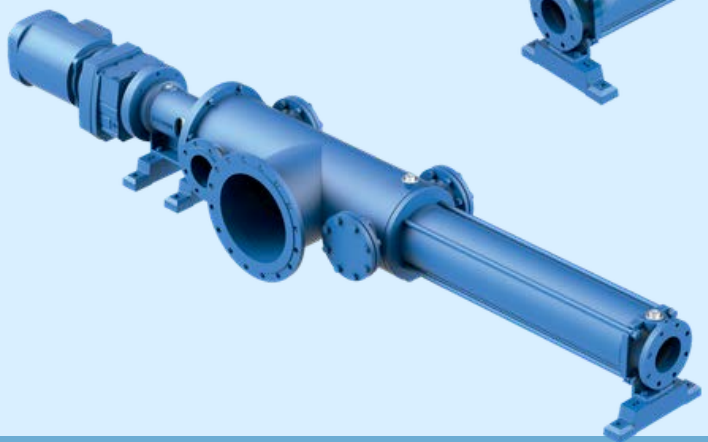


Progressing cavity pumps: Self-priming pumps KL-R BIO-FEED with X-LIFT

Combines liquid feeding with screw technology directly at the substrate storage container. For biogas plants and waste water treatment plants.

Max. flow rate 50 m^3/h
Max. differential pressure 6 bar

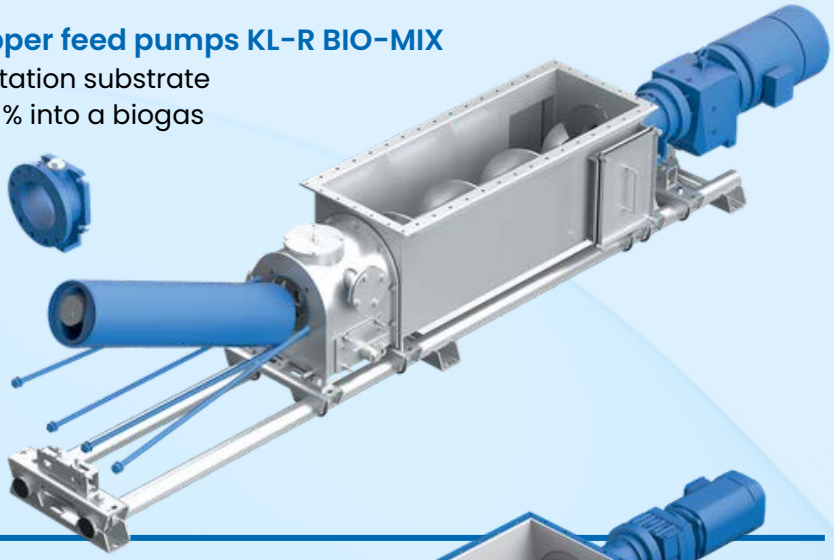




Progressing cavity pumps: Hopper feed pumps KL-R BIO-MIX

Efficiently introduce a solid fermentation substrate with a high solids content of up 45 % into a biogas plant.

Max. flow rate 150 m^3/h
Max. differential pressure 12 bar



Progressing cavity pumps: Hopper feed pumps KL-R

Reliably convey solid slurries and pastes with a high solids content of up to 45 %.

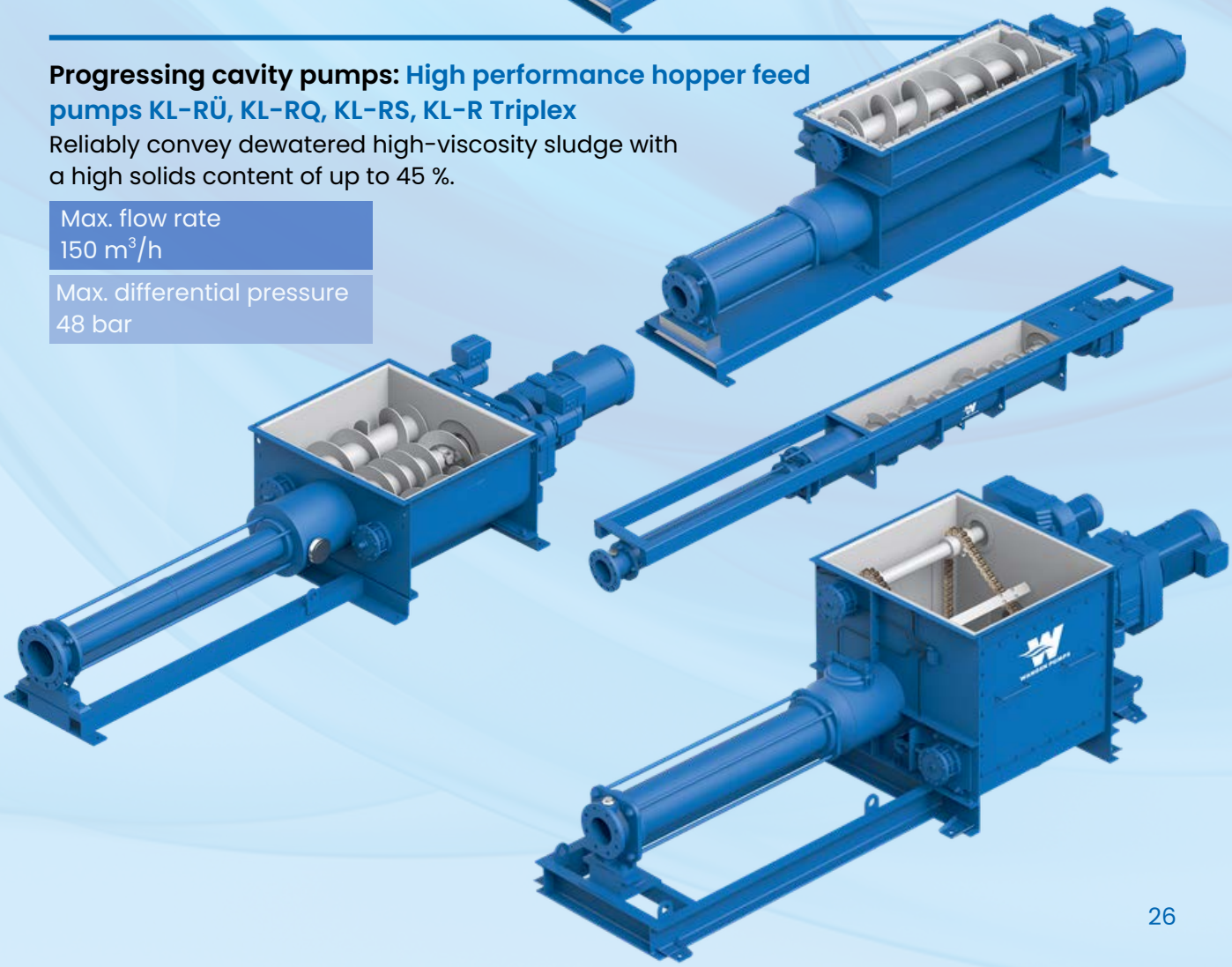
Max. flow rate 160 m^3/h
Max. differential pressure 48 bar



Progressing cavity pumps: High performance hopper feed pumps KL-RÜ, KL-RQ, KL-RS, KL-R Triplex

Reliably convey dewatered high-viscosity sludge with a high solids content of up to 45 %.

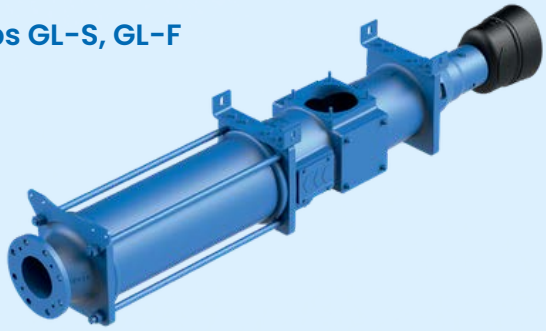
Max. flow rate 150 m^3/h
Max. differential pressure 48 bar



Progressing cavity pumps: **PTO shaft pumps GL-S, GL-F**

Reliable conveying of agricultural materials containing up to 15 % high solids content.

Max. flow rate 470 m^3/h
Max. differential pressure 16 bar

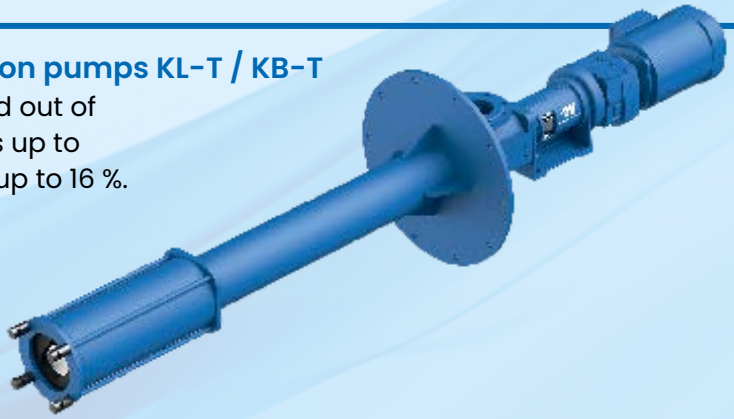




Progressing cavity pumps: **Immersion pumps KL-T / KB-T**

High-viscosity liquids are safely pumped out of basins and tanks. Suitable for viscosities up to 200,000 MPA·s and a dry solids content up to 16 %.

Max. flow rate 525 m^3/h
Max. differential pressure 12 bar



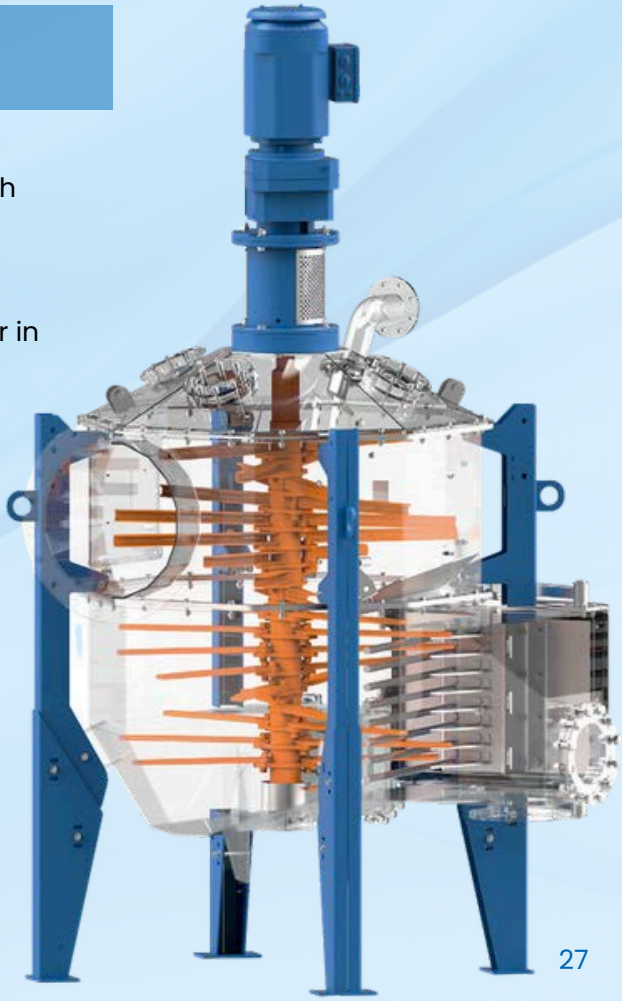
SUBSTRATE PREPARATION AND STONE REMOVING

BIO-ROXX

Module for mixing difficult, long-fibre substrates with liquids and automatic separation of contaminants. Optimised system performance and improved efficiency, thanks to large-volume substrate preparation by mixing the solids and liquid together in your biogas plant.

Max. flow rate 80 m^3/h
Nominal engine power 7,5 kW





SYDEX

We adapt to every request

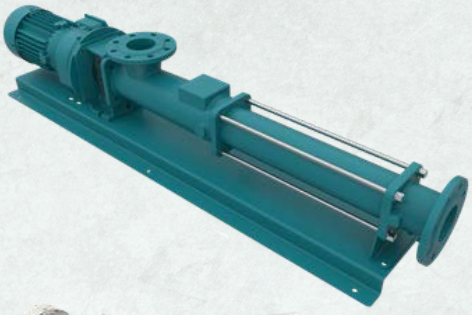
Sydex provides a wide range of positive displacement pumps including progressing cavity pumps, conveyors and grinders to meet specific requirements of a multitude of applications and markets.

Thanks to its expertise and markets knowledge, Sydex can adapt its products according to the customers' constraints with a variety of materials and components.

PROGRESSING CAVITY PUMPS

Sydex progressing cavity pumps deliver a constant, steady flow, ensuring gentle pumping with no pulsations and minimal shear effect. Reliable and versatile, they are the ideal choice for any process requiring a stable flow, regardless of pressure or fluid viscosity.

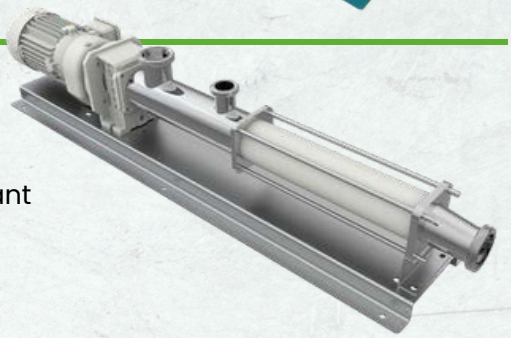
Industrial pump: K range



| Highly configurable
| Low-pulsation flow
| Space-saving design
| Heavy-duty build
| Quick servicing (SyQuick)
| 60 models

Flow rate: 0,1 to 300m³/h
Pressure: up to 48 bar

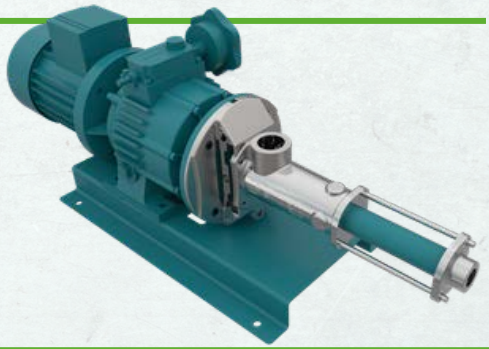
Hygienic pump: H range



| Durable and reliable
| Easy maintenance
| 36 models
| Customizable design
| CIP (Cleaning In Place)
| M.O.C.A and EC 1935/2004 compliant

Flow rate: up to 140 m³/h
Pressure: up to 24 bar

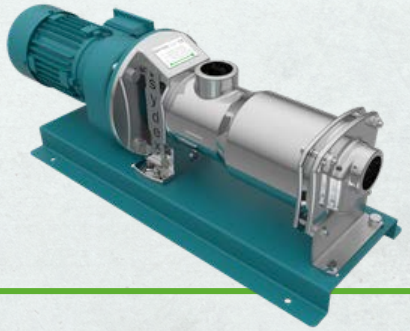
Metering pump: M range



| Accurate dosing
| Versatile
| Easy maintenance
| Compact
| ATEX version available
| 4 models

Flow rate: 3 l/h to 300 l/h
Pressure: up to 72 bar

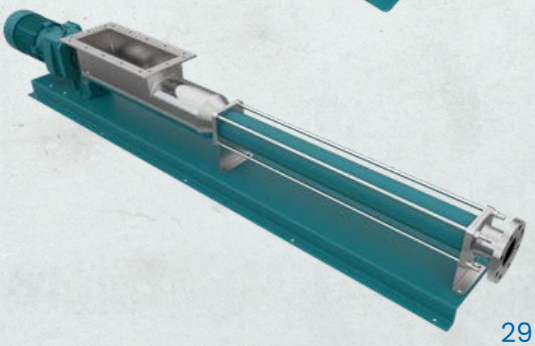
Free moulded: FM range



| Compact design
| Easy maintenance
| Cost effective solution
| Several materials available
| Different configurations available
| 8 models

Flow rate: up to 18 m³/h
Pressure: up to 4 bar

Hopper pump: W range



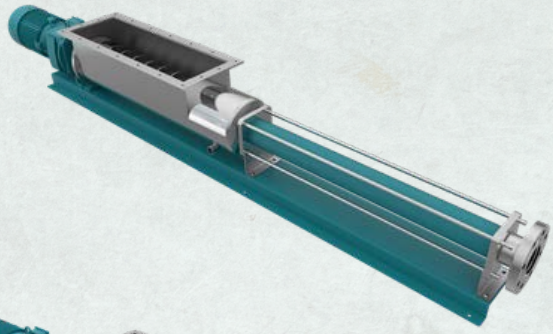
| Robust
| Compact design
| Hopper with feeding screw
| Customizable design
| Ideal for high-viscousity products
| 34 models

Flow rate: 0,1 to 200 m³/h
Pressure: up to 24 bar

High-dry content pump: G range

| Robust design
| Ideal for dehydrated and high-density fluids
| Customizable design
| Quick access for service
| Bridge breaker available
| 22 models

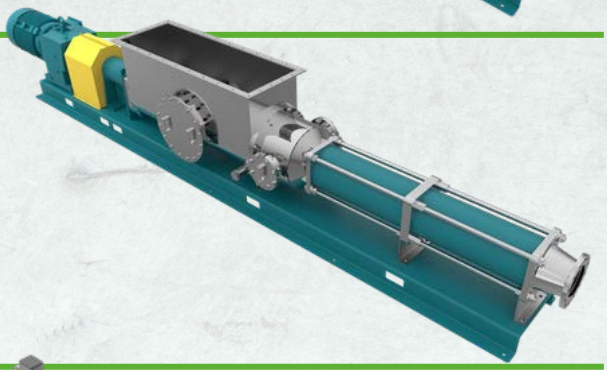
Flow rate: up to 100 m³/h
Pressure: up to 48 bar



Biogas pump: G Bio range

| Heavy duty
| Continuous feeding
| High mixing efficiency
| Robust and reliable
| Low maintenance
| Large vertical hopper

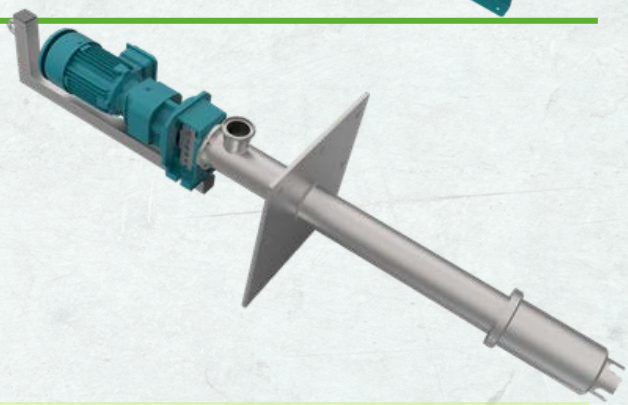
Flow rate: up to 80 m³/h
Pressure: up to 12 bar



Vertical pump: E range

| Semi-submersible design
| Ideal for low NPSH conditions
| BE version for barrel use
| Compact and space-saving

Flow rate: 0,1 m³/h to 5 m³/h
Pressure: up to 12 bar

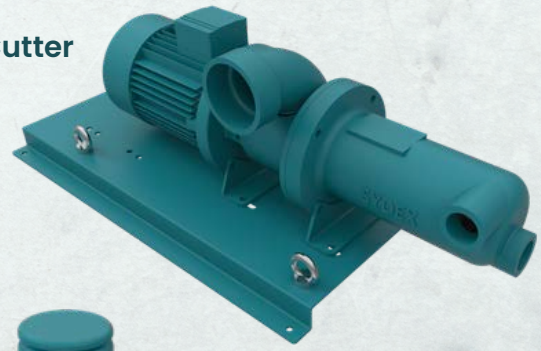


INDUSTRIAL GRINDERS & MACERATORS

Free moulded pump with blades: Eliminator C031 Cutter

| Engineered to macerate soft particles
| Compact design
| Easy maintenance
| Ideal for marine applications and portable toilets

Flow rate: up to 3,5 m³/h
Pressure: up to 6 bar

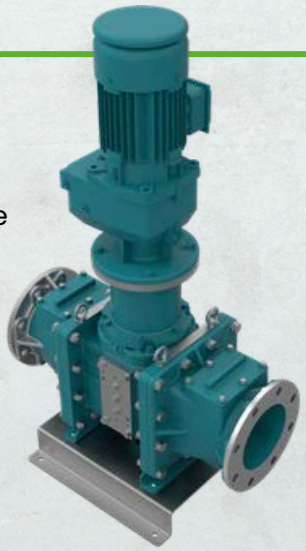


Industrial grinder: Defender

Protects pumps and plant from the risk of damage and downtime

| Heavy duty
| Minimum head loss
| Bidirectional blades rotation
| Cost effective maintenance
| 3 models

Flow rate: up to 200 m³/h



OMAC POMPE S.r.l.

Italian excellence

OMAC is a leading Italian manufacturer of volumetric lobe pumps in AISI 316 stainless steel and special alloys.

The company focuses on meeting customer requirements and has developed a Quality Management System to continuously improve products, manufacturing, and service.

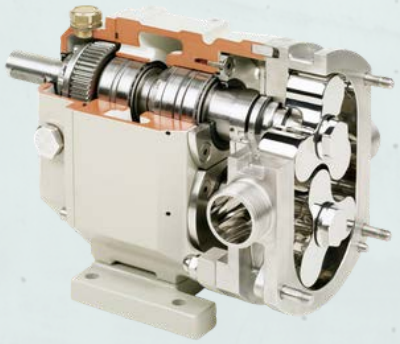
Lobe rotor pumps

The OMAC Lobe Pump is modular in design allowing the main parts such as the rotor and seals, to be changed quickly and easily. A wide range of rotors, seals and gaskets is also available.

Series B

OMAC B Series lobe pumps are designed for hygienic and chemical transfer applications. Robust construction, oversized gears, and rigid bearings ensure high precision, durability, and reliable performance.

Flow rate range: Up to 200 m3/h
Pressure: Up to 20 bar



Series BA-BB

The BA series is **3A Sanitary Standard certified**, and BB pumps meet the new 3A standard (No. 02-10). Key improvements include self-draining rotor case with vertical ports, flush cover O-ring, built-in fixing nuts to reduce product entrapment.

Flow rate range: Up to 200 m3/h
Pressure: Up to 20 bar



Series BE

OMAC BE series offers simple, robust monoblock lobe pumps with a compact drive unit directly fixed to the pump via a hollow shaft and IEC flange. The new smooth cover design with built-in fixing nut improves cleanability.

Flow rate range: Up to 1150 l/min
Pressure: Up to 5 bar



Series BF-F

Designed for hygienic and chemical transfer applications. The modular design allows fast replacement of rotors and seals, while the cast iron gearbox and separate rotor chamber support balanced mechanical seals to prevent contamination.

Flow rate range: Up to 200 m3/h
Pressure: Up to 20 bar



Peristaltic pumps

Peristaltic pumps ensure contamination-free transfer, gentle handling of sensitive or abrasive products, high suction capacity up to 8 m, dry-run capability and accurate dosing. Compact and easy to use, they require minimal maintenance, with hose replacement completed in just a few minutes.

Series AMP

Die-cast aluminum body, pressing elements consisting of two rollers mounted on bearings and fixed to a sturdy central rotor, possibility of shimming the rollers according to the operating pressure. Rotors with three rollers available to reduce pulsations.

Flow rate range: Up to 1100 l/h

Pressure: Up to 20 bar



Series FMP

Cast iron body, pressing elements consisting of two rollers mounted on bearings and fixed to a sturdy central rotor, possibility of shimming the rollers according to the operating pressure.

Flow rate range: Up to 28 m3/h

Pressure: Up to 8 bar



Series RBT

Cast iron body and pressing elements consisting of two shoes adjustable in height according to the pressure. Unlike the rollers, the shoes exert a more gradual pressure on the tube.

Flow rate range: Up to 28 m3/h

Pressure: Up to 15 bar



Series DS-M

The peristaltic pumps of the DS-M series are industrial, robust and reliable peristaltic pumps developed for dosing, low flow rates and low working pressures. DS-M pumps have corrosion-resistant plastic body, stainless steel rotor with three rollers for a constant flow rate and a more precise dosage.

Flow rate range: Up to 180 l/h

Pressure: Up to 6 bar (with special hoses)



VARISCO

Solid Pumping Solutions

Founded in 1932 Varisco provides effective services and specific assistance to select, install and service the best pumping solution.

As a leading pump manufacturer, Varisco specializes in the production of self-priming pumps and internal gear pumps, designed to handle various fluids, including abrasive, high-viscosity, and contaminated liquids.

Self-priming centrifugal pumps

Series J

Varisco J Series - solids handling pumps are designed for efficiency and reliability across various demanding applications.

The J self-priming centrifugal pumps are specifically designed for applications requiring fast priming from challenging suction heights while effectively handling polluted, waste, and abrasive fluids with suspended solids. These pumps are particularly useful in industries where solids handling pumps are required, including open impeller pumps, which are engineered for heavy-duty, high-head pumping.



Flow rate range: Up to 1200 m3/h
Head: Up to 110 m
Solid handling: Up to 76 mm

Series ST-R

The Varisco ST-R Series self-priming centrifugal trash pumps are engineered for maximum durability and performance in the most demanding field conditions. Designed specifically for handling solids-laden fluids, these pumps are ideal for municipal, industrial, and wastewater applications where reliability and ease of maintenance are critical.



Flow rate range: Up to 420 m3/h
Head: Up to 35 m
Solid handling: Up to 76 mm

Gear pumps

Series V: Internal Gear Pumps

V volumetric internal gear pumps are used in applications where the management of clean fluids with high viscosities is required. They are used in all industrial applications where a delicate treatment of the pumped product is necessary, preventing chemical-physical alterations.



- Flow rate range: Up to 240 m3/h
- Pressure: Up to 16 bar
- Viscosity: 20 - 100.000 [mm2/s - cSt]

Series SAGMA V: Magnetic internal gear pumps

Magnetic internal gear pumps are a type of positive displacement pump designed for handling high-viscosity fluids, chemicals, and hazardous liquids with maximum safety and efficiency. Unlike traditional gear pumps, they utilize a magnetic coupling instead of a mechanical shaft seal, eliminating the risk of leaks and ensuring zero emissions of hazardous substances.



- Flow rate range: Up to 82 m3/h
- Pressure: Up to 12 bar
- Viscosity: 20 - 20.000 [mm2/s - cSt]

Series G: External gear pumps

Varisco G external gear pumps are designed to ensure an extremely stable flow rate and minimal pressure pulsations. These pumps are commonly used for dosing and transferring low viscosity fluids with no suspended solids.



- Flow rate range: Up to 96 000 l/h
- Pressure: Up to 15 bar
- Viscosity: 0,2 -150.000 mPas

Progressing cavity screw pumps

Series VULCAN

Varisco progressing cavity screw pumps designed to handle liquids of any viscosity, including those that contain abrasives, solids, or fibers. These pumps are ideal for a wide range of challenging applications where traditional pumps might struggle, especially in industrial plants dealing with complex fluids.



- Flow rate range: Up to 400 m3/h
- Pressure: Up to 48 bar
- Viscosity: Up to 1.000.000 [cPs]

YTS Japan Co., Ltd.

Air Operated Double Diaphragm pumps

YTS produced its first injected plastic chemical pumps in the 1970s and since then has become one of the world's leading diaphragm pump manufacturers with many satisfied customers all around the world.

All YTS pumps are designed for ease of use and maintenance over a long lifetime.

Air Operated double diaphragm (AODD) Pumps

YTS offers a wide range of products options of metallic, plastic and fluorocarbon polymer casings. YTS have around 400 products in our standard line-up and over thousands customized products to meet customer needs.

Air Operated double diaphragm (AODD) Pumps are a type of positive displacement pump operated by compressed air. AODD pumps are used in a variety of industries for assorted reasons. There are pumps specialized for chemicals, semiconductor, food and beverages, cosmetics, mining, etc., which do not only transfer liquid but capable of transferring powder.

Flow rate range: From 0,3 l/min to 1 050 l/min

Sizes: From 1/4" to 3"







Benefits of AODD Pumps

- *Transfer slurries*: Pumps are capable of handling slurries containing large and abrasive particles and can deal with high viscosity.
- *Safe transfer*: With no electrical connections, AODD pumps can be used in explosive environment and transfer flammable materials.
- *Dry-running*: The pump will not cause heat generation which leads to overheating. It can run safely when no liquid is transferred.
- *Deadhead*: The liquid discharge may be closed fully at any time and repeatedly without causing damages or wear to the pump.
- *Self-priming*: They generate a relative high vacuum pressure, thus allowing the pump to self-prime with no prime water.
- *Submersibe*: pump can be operated by fully submerging it in liquid, provided that the pump materials are compatible.



Markets & Applications





Chemical: All chemical transfer applications including flammable & toxic, chemical dosing, waste transfer.

Mining: Underground and above mining, Dewatering, solids & some chemical transfer.

Automotive: Fuels (diesel fuel, gasoline, kerosene), oils (gear, engine, waste), windshield fluids, brake fluid, radiator fluid & anti-freeze applications.

Paints & Coating: Paints, lacquers & Automobile industry (spraying), furniture production (coatings), high-resolution coating (marine and shipbuilding).



Semiconductor: All semiconductor & microelectronics solar panels industries. High purity clean room applications for water cuttin cleaning, polishing & etching.

Paper & pulp: Manufacturing paper, cardboard boxes, book binding & labels.



Food & Beverage: Loading, unloading, cleaning, washing, sanitizing, transferring liquid hops, bottling & keg filling at distillers / breweries / wineries.

Pharmaceuticals: Alcohol plants, filter press, batching, bulk transfer personal hygiene, chemical feed & powder transfer.



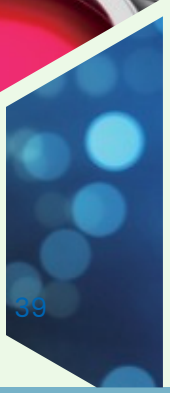


Marine: Bilge, ballast & seawater transfer, ship cleaning, painting & coatings.

Ceramic: Ceramic slip, highly abrasive & dense applications.

Oil & gas: On & offshore oil, gas applications, fuel, automotive & machinery lubrication transfer.





Waster treatment: Chemical dosing, waste transfer, filter press, sumps, circulation to avoid sedimentation, drain & refill tanks.

Made in Japan

Provides the quality you look for

Looped C®

The unique Looped C® -spool valve offers reliable switching operation with no lubrication.



Outside Accessible Air Valve
simple and fast service

Reser Button
Enables the restart the pump immediately if stalled

Robust Designed Casing
Designed for user in any applications

High Flow Rates
Designed to facilitate high discharge volume

Replaceable valve guide
Maintenance without replacing entire casings

In-House manufactured PTFE diaphragm



Unique Pilot Valve
Springs to reduce impact force and increase life expectancy

Efficient Air Consumption

Compatibility
Parts and foot dimensions match many other brands

Machined Mating Surface
Reducing leakage possibility

Air EcoRing

Designed to operate efficiently and reduce air leakage or loss.



SAER Elettropompe S.p.A.

Centrifugal and submersible pumps for clear and waste water

SAER Elettropompe is an Italian manufacturer of electric pumps and motors with more than 70 years of experience in the pumping industry. Combining technical expertise, modern production and continuous product development, SAER offers reliable pumping solutions for a wide range of applications.

Its product range includes surface and submersible pumps, centrifugal and high-pressure pumps, split-case and in-line pumps, booster sets and electric motors for industrial, agricultural, civil and other demanding applications.

Line pumps: L-IN

Ductile cast iron pressure parts for liquids up to 140 °C. Minimum efficiency index > 0.4 for most models. Available in cast iron, stainless steel, bronze and ductile iron.

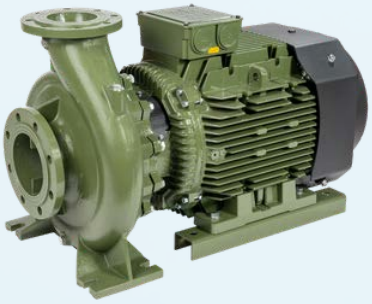
Flow rate: up to 800 m³/h
Max. head: 102 m
Max. power: 110 kW



Close coupled electric pumps: IR

One of SAER's longest-running series, fully redesigned for improved performance and efficiency. Available in cast iron, stainless steel, bronze and super duplex.

Flow rate: up to 850 m³/h
Max. head: 129 m
Max. power: 110 kW



Stub shaft pumps: MG

Solid and reliable design for easy maintenance and disassembly. Suitable for various applications where compact dimensions are required. Available in cast iron, stainless steel, bronze and super duplex.

Flow rate: up to 850 m³/h
Max. head: 129 m
Max. power: 110 kW



Centrifugal pumps EN 733: NCB

EN 733-compliant centrifugal pumps with various seals and wear rings. Available with diesel engine coupling. Cast iron, stainless steel, bronze, super duplex and ductile iron.

Flow rate: up to 850 m³/h
Max. head: 129 m
Max. power: 110 kW



High flow rate pumps: NCBK

For high-flow applications in firefighting, water supply, irrigation, HVAC, industrial, naval and mining sectors. Available in cast iron, stainless steel, bronze, super duplex and ductile iron.

Flow rate: up to 2700 m³/h
Max. head: 130 m
Max. power: 560 kW





High flow rate split casing pumps: SKD

Designed and manufactured in Italy, offering short delivery times, high efficiency and reliability with minimal maintenance costs. Available in cast iron, stainless steel, bronze, super duplex and aluminium bronze.

- Flow rate: up to 5000 m³/h
- Max. head: 315 m
- Max. power: 1200 kW



Multi-stage horizontal pumps: OP

Suitable for clean water and non-corrosive liquids in residential, irrigation, agricultural and automated water distribution applications. Available in cast iron and stainless steel.

- Flow rate: up to 110 m³/h
- Max. head: 162 m
- Max. power: 22 kW



Multi-stage vertical pumps: MK

Compact vertical multistage pumps for high-pressure applications. MKM version offers reduced dimensions and cost. Available in cast iron and stainless steel.

- Flow rate: up to 110 m³/h
- Max. head: 394 m
- Max. power: 55 kW



Multi-stage horizontal pumps: TM

Axial inlet suction body for high-pressure applications, offering low noise and high wear resistance. Available in cast iron, stainless steel, bronze and super duplex.

- Flow rate: up to 850 m³/h
- Max. head: 642 m
- Max. power: 710 kW



Multi-stage vertical pumps: TMV

Suitable for high-pressure applications, with flexible inlet and outlet orientation. Available in cast iron, stainless steel, bronze and super duplex.

- Flow rate: up to 850 m³/h
- Max. head: 642 m
- Max. power: 710 kW

Multi-stage horizontal pumps: TMB

Radial inlet suction body for water supply, irrigation, refrigeration, heating and snowmaking. Oversized ball bearings ensure high wear resistance. Available in cast iron, stainless steel, bronze and super duplex.

Flow rate: up to 850 m³/h
Max. head: 642 m
Max. power: 710 kW



Commercial pumps

A complete range of residential pumps, including centrifugal, peripheral, self-priming, double-impeller, gear and swimming pool pumps. Available in cast iron, brass and stainless steel.

Flow rate: up to 210 m³/h
Max. head: 92 m
Max. power: 22 kW



Multi-stage vertical pumps: MBS, MBSH, MBS-L

Three solutions in one: MBSH multi-stage pump with suction base, MBS-L booster pump and MBS submersible pump. Durable even in sandy conditions. Available in stainless steel and technopolymer.

Flow rate: up to 18 m³/h
Max. head: 113 m
Max. power: 4 kW



Pressurisation system: T ONE

Maintains constant output pressure regardless of flow demand. Up to 8 modules can operate in parallel, communicating wirelessly via Bluetooth®.

Flow rate: up to 15 m³/h
Max. head: 66 m
Max. power: 1,5 kW



Drainage and waste water for dry installation: NCA

Suitable for domestic and industrial wastewater, viscous and corrosive liquids, liquids containing fibrous and solid matter, agricultural slurry, and generally dirty or muddy water.

Flow rate: up to 2400 m³/h
Max. head: 70 m
Max. power: 200 kW



Submersible waste water pumps: SD

SAER's new SD series submersible wastewater pumps combine extensive expertise in borehole pumps and submersible motors. Designed for handling waste, raw and sewage water.

Flow rate: up to 2000 m³/h
Max. head: 54 m
Max. power: 132 kW



Submersible pumps

Highly reliable even under demanding conditions, with easy maintenance. Available in radial and semi-axial versions from 4" to 14".
Materials: cast iron, stainless steel, bronze and Super Duplex.

Flow rate: up to 800 m³/h
Max. head: 955 m
Max. power: 300 kW



Salvatore Robuschi

Process centrifugal pumps

Salvatore Robuschi pumps are used for various applications: thanks to the different types of impeller, they can be used in the chemical and petrochemical sectors, pharmaceutical industry (preparation of active ingredients), distillation, purification, food industry (washing, conveying, evaporation and concentration), water treatment, textiles, tannery, paper pulp, mining and in all those processes where pumping problems arise (suspended solids, high viscosity, liquids that are difficult to convey, etc.).

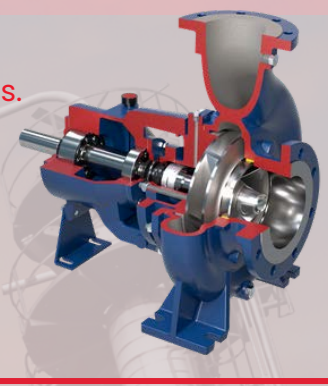
PROCESS

Closed impeller: RD

Centrifugal pumps built according to ISO 2858/ISO 5199 norms.

For aggressive liquids in chemical and petrochemical industries, as well as desalination, environmental engineering, power plants, steel industry and hot water systems.

Flow rate: up to 500 m³/h
Max. working pressure: 16 bar
Differential head: up to 140 m

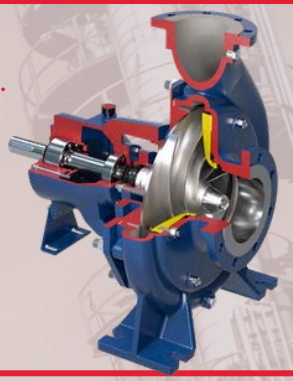


Open impeller: RG

Centrifugal pumps built according to ISO 2858/ISO 5199 norms.

For contaminated liquids and non-abrasive slurries, including liquids with up to 15% gas content. Suitable for chemical, petrochemical and general industrial applications.

Flow rate: up to 300 m³/h
Max. working pressure: 16 bar
Differential head: up to 95 m



Channel impeller: RB

Centrifugal pumps built according to ISO 5199 norms.

For wastewater, cooling water, condensate and viscous liquids in food, chemical and general industrial applications. Also suitable for refineries, desalination and power plants.

Flow rate: up to 2400 m³/h
Max. working pressure: 10 bar
Differential head: up to 70 m

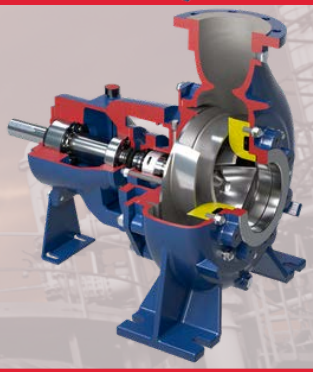


Open channel impeller: RE

Centrifugal pumps built according to ISO 5199 norms.

For contaminated liquids, wastewater and paper pulp up to 8%, as well as viscous liquids in food, chemical, sugar and fertilizer industries. Also suitable for refineries, desalination and power plants.

Flow rate: up to 300 m³/h
Max. working pressure: 16 bar
Differential head: up to 95 m

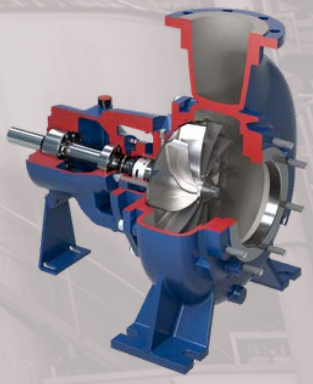


Vortex impeller: RC

Centrifugal pumps built according to ISO 5199 norms.

For chemical and crystalline suspensions, viscous and fibrous liquids, wastewater and sludge. Suitable for pulp & paper, food, sugar, desalination and general industrial applications.

Flow rate: up to 800 m³/h
Max. working pressure: 10 bar
Differential head: up to 60 m



VERTICAL

Closed, Open, Channel and Vortex Impeller

Vertical immersible sump pump (ISO 5199 norms) line-shaft with bearing bushes.



The pump casing is immersed in the liquid, while the motor is mounted above the plate. The discharge pipe is separate from the column pipe, with line bearings lubricated by the pumped fluid or an external source for abrasive applications.

Customizable mounting plate dimensions, discharge flange position and column length allow easy adaptation to different sumps and tanks.

Suitable for industrial applications, refining, oil & gas, chemical, pulp & paper and water facilities, as well as drainage and oily water sumps and tank transfer.

Pump length: up to 6 m

Materials: Standard: Cast Iron, AISI 316. On request: Superduplex, AISI 904L and other alloys

Vortex, Channel and Closed impeller

Cantrilever

Vertical cantilever sump pumps with non-clogging vortex and channel impeller.



The pump casing is immersed in the liquid, while the motor is mounted above the plate. A heavy-duty bearing support and oversized shaft allow operation without bearing bushes or external lubrication. The pump can run dry and handle aggressive liquids, solids and hot fluids.

Suitable for sludges, slurries and liquids containing large or long solids.

Also used in drainage and oily water sumps, tank transfer, food processing, irrigation, heavy oil, oil sands, paper stock, sewage treatment and slurry processing.

Pump length: Up to 1,8 meters with bearing house above the plate.
Up to 2,2 meters with bearing house below the plate.
Total lenght can be improved with a suction extension pipe

Materials: Standard: Cast Iron, AISI 316. On request: Superduplex, AISI 904L and other alloys

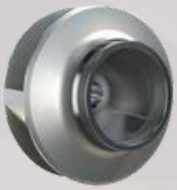
IMPELLER TYPE



Closed impeller
For clean liquids.



Open impeller
For slightly contaminated liquids or fluids containing gas up to 15%.



Channel impeller
For non-abrasive slurries, low NPSHa applications and liquids containing up to 5% non-abrasive solids.



Open channel impeller
For slightly contaminated liquids, with wide free passage.



Vortex impeller
For liquids with fibers and solids up to 10%, max. 150 mm.

LIGHT PROCESS PUMPS

Closed impeller: HD

Heavy duty close-coupled centrifugal pumps.

For handling aggressive organic and inorganic liquids in the chemical industry, as well as applications in food, water/solvent recovery, power and steel industries.

- Flow rate: up to 250 m³/h
- Max. working pressure: 8 bar
- Differential head: up to 60 m

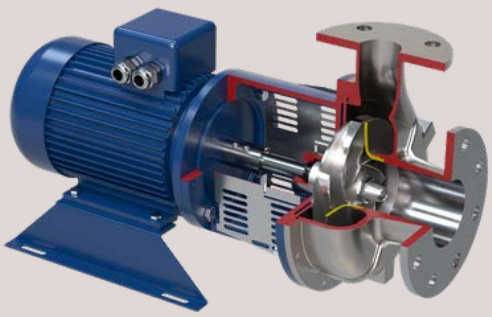


Open impeller: HG

Heavy duty close-coupled centrifugal pumps.

For handling slightly contaminated liquids and non-abrasive slurries in chemical and petrochemical industries, including liquids with up to 10% gas content. Also suitable for food, industrial, water/solvent recovery, power, steel and textile applications.

- Flow rate: up to 250 m³/h
- Max. working pressure: 8 bar
- Differential head: up to 60 m



Vortex impeller: RS

Heavy duty close-coupled centrifugal pumps.

For handling chemical and crystalline suspensions, viscous liquids, fibrous suspensions, wastewater and all types of sludge. Also suitable for food, industrial, sugar, water/solvent recovery, power, steel, textile and tannery applications.

Flow rate: up to 100 m³/h
Max. working pressure: 8 bar
Differential head: up to 60 m



WATER PUMPS

Closed impeller: RN

Centrifugal pumps built according to EN 733 norms.

For clean and non-aggressive liquids with up to 0.2% solids content. Also suitable for water supply, heating, cooling, circulation, industrial and civil applications, fire-fighting and irrigation.

Flow rate: up to 480 m³/h
Max. working pressure: 10 bar
Differential head: up to 90 m

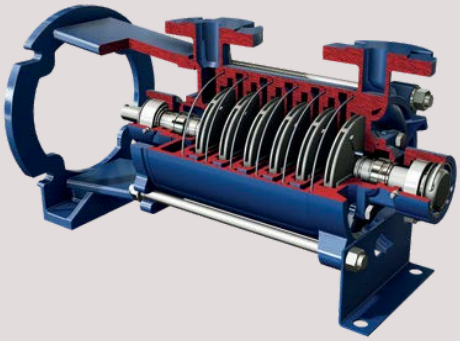


Multistage: TS

Multistage centrifugal pumps.

For clean or slightly contaminated liquids, including boiler feeding, firefighting, water supply, washing, irrigation and hydrocarbon pumping applications where high pressure is required.

Flow rate: up to 45 m³/h
Max. working pressure: 40 bar
Differential head: up to 350 m

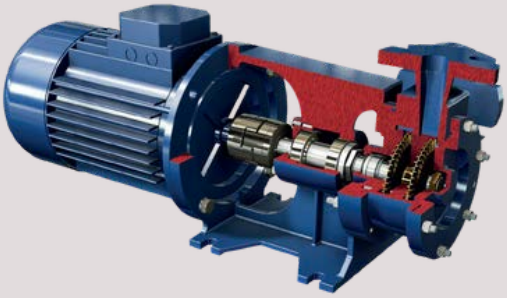


Peripheral impeller: RAM

Multistage centrifugal pumps.

For clean liquids without suspended solids, suitable for boiler feeding, washing and wastewater flotation plants, and applications requiring low flow rates and high pressure.

Flow rate: up to 6,3 m³/h
Max. working pressure: 25bar
Differential head: up to 180 m



VACUUM PUMPS

VS pumps are single-stage liquid ring vacuum pumps with exhaust valves, available in close-coupled, coupling-mounted or baseplate configurations. The new VS series features improved reliability and usability, with optimized service liquid consumption.



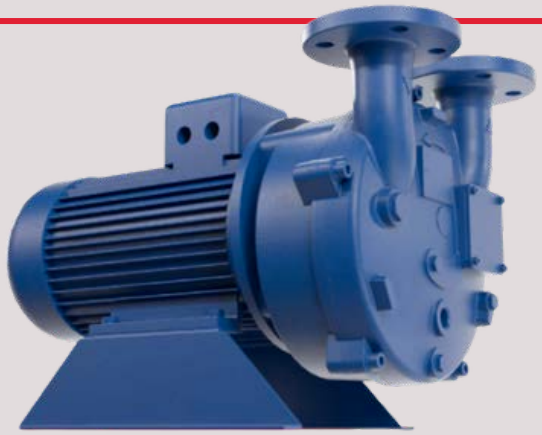
VSB PUMP

Single-stage valve pump with distribution plate in stainless steel or ductile cast iron.



VSL PUMP

Lantern-mounted pump with IEC standardized motor for easier maintenance.



VSM PUMP

Close-coupled pump with IEC standardized motor for easier maintenance.

Häny

Pumps, Turbines and Systems

Pumps and systems for municipal water supply, sewage tratment plants, process pumps for industrial applications and sanitary installations.

Häny-Ecoline

High-performance pumps for urban drainage and sewage transport.

- High-quality design in gray cast iron
- Grinding unit of hardened special steel for sewage and faeces
- Field of use: sewage disposal for individual properties and parts of villages
- ATEX as standard
- Two mechanical seals connected in series in oil bath
- SIC/SIC mechanical seal on the medium side
- Heavy-duty double row bearing as a fixed bearing on the hydraulic side
- Three Klixon (Opener) connected in series for temperature monitoring
- Leakage detection
- Special heat dissipation system for high running times out of water
- Heavy-duty cable type NSSHÖU
- Each pump individually tested (hydraulic)
- Production site certified to ISO 9001/14001 and ATEX 2014/34/EU

ECOCUT 2405

Grinder pumps with 1-stage centrifugal hydraulics. Straight lengths of line (De50) of up to 700 m can be overcome.

Flow rate range: Up to 4 l/s

Head: Up to 40 m



ECOCUT 2406

Grinder pumps with 2-stage centrifugal hydraulics. Straight lengths of line (De50) of up to 1400 m can be overcome.

Flow rate range: Up to 3,7 l/s

Head: Up to 80 m



Franklin Miller Inc.

World-Class Quality Products

For over 100 years and for three generations, Franklin Miller Inc. has been a leader in size reduction technology, involving crushers, shredders, grinders, wastewater treatment systems and more.

TASKMASTER® TM6500

High Performance Compact Grinder



The TASKMASTER® TM6500 is a ruggedly constructed twinshaft grinder that features a highly compactdesign. The TM6500 offers excellent grindingperformance for protection of pumps, valves, centrifuges and more in sludge and raw sewage applications.

The TM6500 is designed from top to bottom for easy maintenance. It features unique Cutter Cartridge® technology for high strength and fewer moving parts. With its true drop-in flange housing design, the cutter assembly can be removed for maintenance without disturbing the pipeline and without the use of bottom bolts, plates or gaskets. The TM6500 also features highly reliable mechanical seals located in convenient bearing/seal cartridges.

The TM6500 requires little space from flange to flange. The unit is powered by a 2hp (1.5kw) gear motor.

Cutter Cartridge® Technology | Small Footprint | Hardened, Alloy Steel Cutters
Tungsten CarbideSeal Faces | One-Piece Drop-in Housing| Effective & Economical

Options
- A Choice of Cutter Profiles
- 3 HP (2.2kW) Motor
- Gear Reducer and Separate Motor
- Shaft Extension
- Mounting Frames
- 4" or 6" Flanges
- Flange Spacers



Cutter Cartridge® Technology
With Cutter Cartridge® technology, individual cutter and individual spacer disks are combined into high strength, one piece elements. This design eliminates weak individual cutter and spacer disks, greatly increasing unit strength.

With Cutter Cartridge technology, there's no stack re-tightening required, no shaft scoring problems and no catastrophic stack collapse – problems found with other units. The TM6500 is provided standard for 4" (100mm) pipe sizes. Other configurations can be provided for 6" (150mm) pipe sizes as well as open channels.

TASKMASTER® TM8500

The TASKMASTER® TM8500 grinders set the standard for effective solids reduction, reliability and ease of maintenance. These units combine unique construction features with outstanding performance to provide optimal protection of plant processes and equipment as well as trouble-free operation. These versatile, processors finely reduce such materials as rags, plastics, wood, debris, tampons, sanitary napkins, solid waste and more. They are invaluable in plant operations worldwide, keeping pipelines flowing, reducing pump downtime, enhancing screenings handling and protecting dewatering equipment such as centrifuges, filter presses and more.



The Cutter Cartridge Advantage

- With 1/16th the parts, maintenance is far easier
- Cutters are sharper because they are fully machined and precision ground.



No Re-tighteing EVER!



Taskmaster Cutter Cartridges

The TM8500 Cutter Cartridge replaces 12 cutter and spacer disks with a one-piece monolithic cutter element. These two counter-rotating cutter stacks intermesh at close clearance to intensively shear and shred solids into fine bits. This results in markedly increased unit strength and reliability, increased unit and cutter strength, resistance to cracking and the complete elimination of stack loosening and subsequent re-tightening requirements.

TASKMASTER® TM8500

Configurations

TASKMASTER TM8500 grinders are heavily constructed for long life. These versatile units are available in a choice of configurations for channel, inline or gravity installations. These units are provided in standard ductile and steel construction with hardened alloy shafting and cutters or in optional stainless steel construction. The TM8500 features a unique and highly reliable, severe duty, 90 psi mechanical seal system, housed in a convenient cartridge.

TASKMASTER CHANNEL

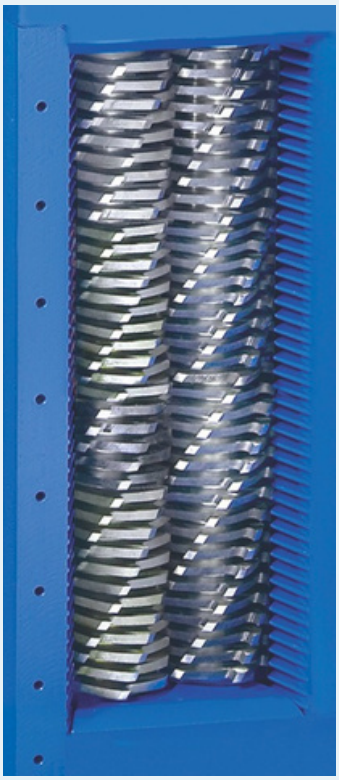
The TM8500is available in a variety of heights to match channel configuration requirements. The units are provided with a choice of convenient channel frames or guide rails for easy installation and unit removal.

TASKMASTER DUPLEX

The TASKMASTER Duplex (TM8500D) features four intermeshing cutter stacks and twice the cutting area and flow capability of a single TM8500. These units employ one common drive and motor to power all four cutting stacks.

TASKMASTER GRAVITY

The TASKMASTER TM8500 can be supplied with a stand and hopper for dry or wet gravity systems. This makes the TM8500 an excellent solution for screenings reduction and washing or general waste applications.



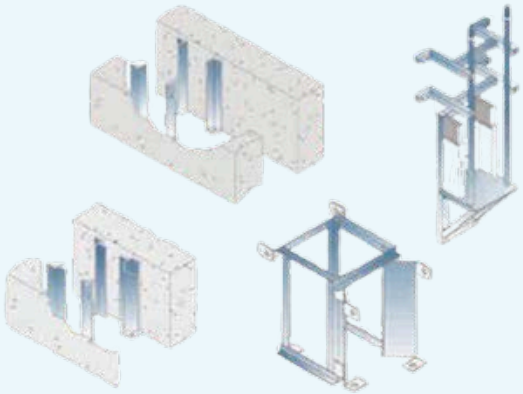
TASKMASTER INLINE – TASKMASTER Inline Grinders reduce solids in gravity or pressurized pipelines to efficiently keep sludge, slurry or sewage systems flowing. These units feature the same reliable construction as the channel units and add a unique drop-in housing design, wherein the entire unit can be quickly and easily removed from the housing without disturbing the pipe system. For application with high tramp solids, the optional TT housing features a trap area designed to allow heavy tramp materials to settle out protecting the grinder and downstream equipment.



Channel Frames & Options

The TASKMASTER is available with hopper and stands, both standard and custom designed. These are usually typically applicable to horizontal and gravity feed applications.





Taskmaster With Frp Manhole

This pre-engineered manhole is constructed with a built-in channel designed for a standard TASKMASTER TM8500 grinder. The complete manhole system can quickly be up and running - simply dig a hole, drop it in and hook it up -protecting downstream equipment and providing savings. The Manhole design makes accessing the grinder as easy as lifting a hatch. Franklin Miller Grinder Manholes are custom designed to match the site requirements. They are available complete with an access ladder, a choice of hatches and optional grinder guide rails, our fully submersible drive motors and control systems.



The TASKMASTER can be provided with a choice of channel frames for easy slide in of the unit without fasteners including:
CF1000: For channels with dimensions that closely match the width of the TASKMASTER.
CF1200: For channels moderately wider than the TASKMASTER. Four angles are fitted with spacers and flow diverters to adapt to the channel walls.
CF3000: For channels significantly wider than the TASKMASTER. This is a one piece frame design that spaces the unit from each side wall.
CF4000: For mounting a TASKMASTER to the walls of a wet well. Typically provided with an overflow screen and and a guide rail for easy unit removal.
GR1000: Guide Rail system supports the grinder in position and guides it in and out of a wetwell.



TASKMASTER® TT

Grinder with Built-in Tramp Trap

The TASKMASTER® TT combines TASKMASTER inline grinding technology with a unique tramp trap built right into its housing. This unit can protect systems from waste streams with heavy tramp materials. With the TM8500TT, the solids are finely ground to a size more easily handled by downstream equipment, while rocks and tramp materials settle out in the unit's trap area. The collector design employs a unique serpentine flow path that optimizes tramp separation. The grinder assembly simply slides in and out of the drop-in housing for fast maintenance.

Collects Tramp Materials to Protect Systems
Convenient "Drop-in" Housing Design | Gate Valve for Convenient Tramp Removal

Construction

The TASKMASTER® TT housing is provided in standard ductile iron or optional stainless steel construction. It features an internal baffle arrangement, tramp collection area and gate valve for fast discharge of accumulated materials. The housing is provided with legs that allow space for a collection bin or conveyor. The grinder is provided with proven mechanical seals which are housed in an easy to maintain cartridge design. .



DELUMPER® Industrial Lump Breakers & Crushers

Franklin Miller's lump breakers and crushers excel at enhancing material processing efficiency. DELUMPER® crushers are expertly designed to reduce solids, lumps, and agglomerates to precise sizes through a once-through, non-churning action, minimizing fines and ensuring consistent product quality. Built for peak performance, these units boost processing speed, reduce plant downtime, and ensure smooth, reliable operations.





Industrial Shredders

Frank Miller manufacture industrial shredders designed with durability and efficiency in mind for handling various materials. Their shredders handle materials such as electronic waste, plastics, glass, car tires, wood, and metals. They offer dual-shaft and quad-shaft shredders, perfectly suitable for any kind of application.



Be it reduction of waste, recycling, or general material processing, these machines provide the power and reliability necessary for businesses to promote their efficiency and streamline operations.





Liquid Dynamics International

Home Of PulseGuard, ShockGuard & HydroTrole

Liquid Dynamics, founded in 1963, is a well-known manufacturer.

Liquid Dynamics' standard product range covers almost all liquid pulsation damping needs, and the products can be customized for any application.

Pulsation Dampers

Membrane Type

A pulsation damper is a pressure vessel that reduces pressure and flow fluctuations caused by the mass of a liquid system. A flexible membrane separates a gas-filled side (OFN) from the product side. Pressure peaks are absorbed and released as the pulse fades, smoothing flow and reducing spikes. This improves safety, system performance, and equipment lifespan.



PipeGuard

PipeGuards are generally manufactured using a stainless-steel body and end closure however PVC, Carbon Steel and Duplex along with many more alternatives can be used depending on the requirements of the customer.



PipeHugger

The advantage of a PipeHugger is it has the liquid in its bladder therefore, the gas cushion shell does not have to be manufactured from high cost stainless and other materials.



PumpGuard

PumpGuards are a true flow-thru design and a much superior design than the standard hose type damper. Able to work a higher pressure and be far more responsive over the whole pressure range.



Flexorber

Flexorber (high pressure): The Largest chamber diameter to port hole ratio (best high frequency pulse interception with flow velocity smoothing). Both types of damper work in the same way but are manufactured differently.



ShockGuard

ShockGuards (low pressure): The Largest chamber diameter to port hole ratio (best high frequency pulse interception with flow velocity smoothing). Both types of damper work in the same way but are manufactured differently.

Bladderless

Bladderless (maintenance-free) pulsation dampers are solid-state devices with no moving parts, bladders, or gas. Their main advantage is that they require no maintenance. The trade-off is a larger vessel size and higher initial cost compared to bladder/diaphragm dampers, but the investment balances out over the damper's lifespan.

WaveGuard

The WaveGuard Pulsation Damper works by accelerating the pressure wave of the working liquid to release it into a large volume of slightly compressible liquid (the working fluid). This then absorbs the pulse before releasing the dampened liquid back into the pipeline.



Surge Alleviators

Shock & Surge Alleviators protect piping systems from pressure spikes caused by pump start/stop or sudden valve closure. They absorb excess pressure and release it safely, reducing wear, downtime, and risk of leaks.
For best results, install close to the source of the surge.

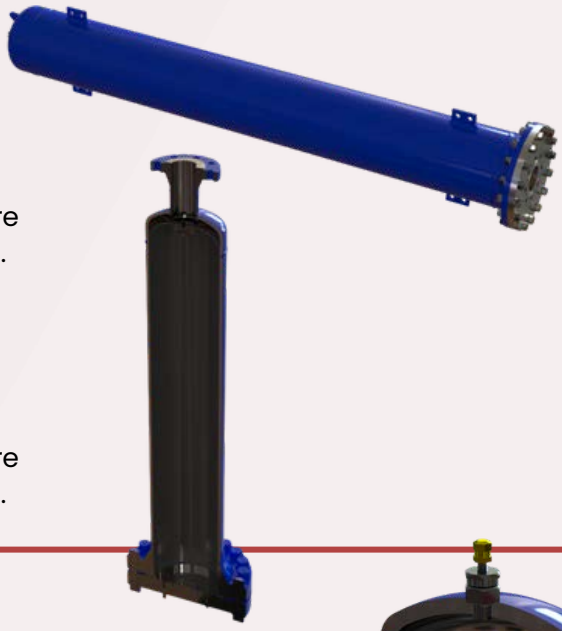
Large Volume Vessels 50 Litres +

SurgeGuard

With the liquid inside the bag, as the pressure increases the bladder simply expands until it is supported by the wall of the shell. This feature enables SurgeGuard to work in applications that are required to operate over a wide range of pressures.

JumboFlex

With the liquid inside the bag, as the pressure increases the bladder simply expands until it is supported by the wall of the shell. This feature enables SurgeGuard to work in applications that are required to operate over a wide range of pressures.



Small Volume Vessels Up to 50 Litres

PipeHugger

The advantage of a PipeHugger is it has the liquid in its bladder therefore, the gas cushion shell does not have to be manufactured from high cost stainless and other materials.

PipeGuard

PipeGuards are generally manufactured using a stainless-steel body and end closure however PVC, Carbon Steel and Duplex along with many more alternatives can be used depending on the requirements of the customer.



Accumulators / Thermal Expansion Vessels

Hydropneumatic accumulators are bladder, diaphragm, or piston type pressure vessels that store large amounts of energy by combining the incompressibility of fluids with the compressibility of an inert gas (OFN – Oxygen Free Nitrogen), separated by a bladder, diaphragm, or piston. Thermal expansion vessels provide a space for liquid when its volume increases due to temperature changes, helping to balance system pressure and prevent damage from expansion.

Piston Type

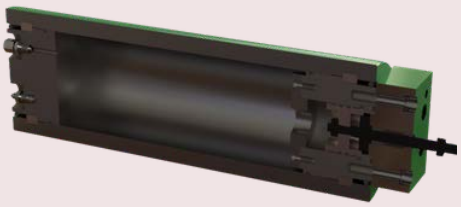
Pistolite

A Pistolite is a piston-type accumulator featuring a solid, lightweight piston with close-coupled seals and dual graphite-filled bearing strips for low friction. Seal materials can be selected based on the fluid or gas used.



Indacc

Indicating accumulator with piston position rod, lightweight piston, low-stiction seals, zero leakage, fast relocking, and flow-through port.



Magdacc

Magnetic switching Accumulator with magnets and limit switches for automated pump delivery.



Membrane Type

PipeGuard

PipeGuards are generally manufactured using a stainless-steel body and end closure, however PVC, Carbon Steel and Duplex along with many more alternatives can be used depending on the requirements of the customer.



PipeHugger

The advantage of a PipeHugger is it has the liquid in its bladder therefore, the gas cushion shell does not have to be manufactured from high cost stainless and other materials.



ShockGuard / Flexorber

FlexOrber (high pressure) and ShockGuard (low pressure): Large chamber-to-port ratio for optimal high-frequency pulse absorption and smooth flow. Both dampers function similarly, though built differently.



PumpGuard

SPumpGuards are flow-through dampers designed for higher pressure and better responsiveness than hose-type units. Suitable for sludge, oils, chemicals, and food applications, they work on both suction and discharge.



Authorized pump service

FlowExperts

Keep your pumps running with timely maintenance!

Ensure smooth production and reliable pump operation by utilizing FlowExperts authorized service team.

Our skilled, manufacturer-trained service technicians help prevent costly downtime and maintain production efficiency.

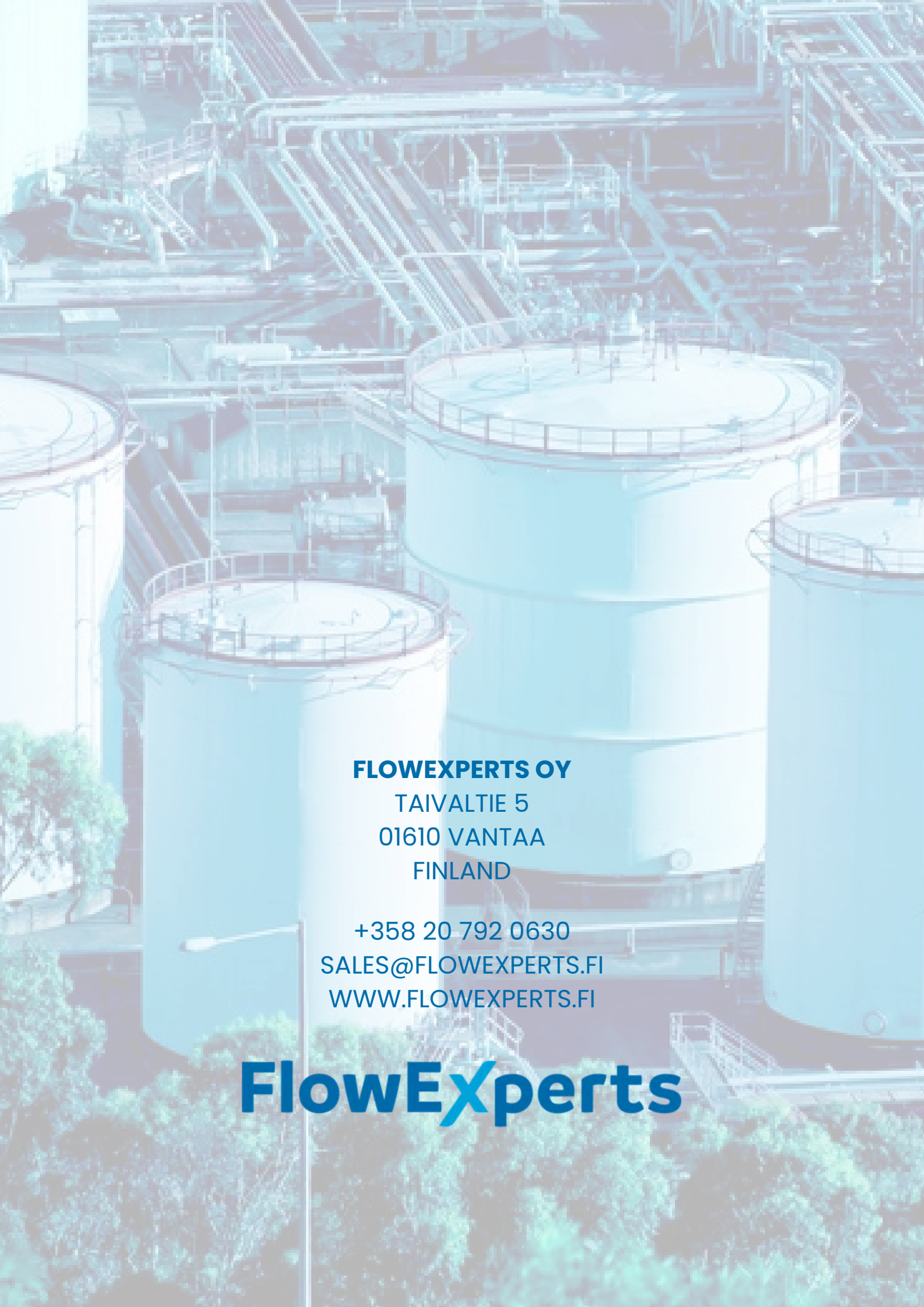
Our service is built on expertise and genuine components:

- Our technicians are professionally trained by LEWA and Wangen
- We always use original spare parts, ensuring long pump life, optimal performance and factory warranty
- Thorough maintenance reduces production stoppages and lowers overall costs

Timely authorized service ensures improved pump availability, minimized risks, and keeps your production running efficiently day after day.

Contact our service team:

📞 +358 400 707 726
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