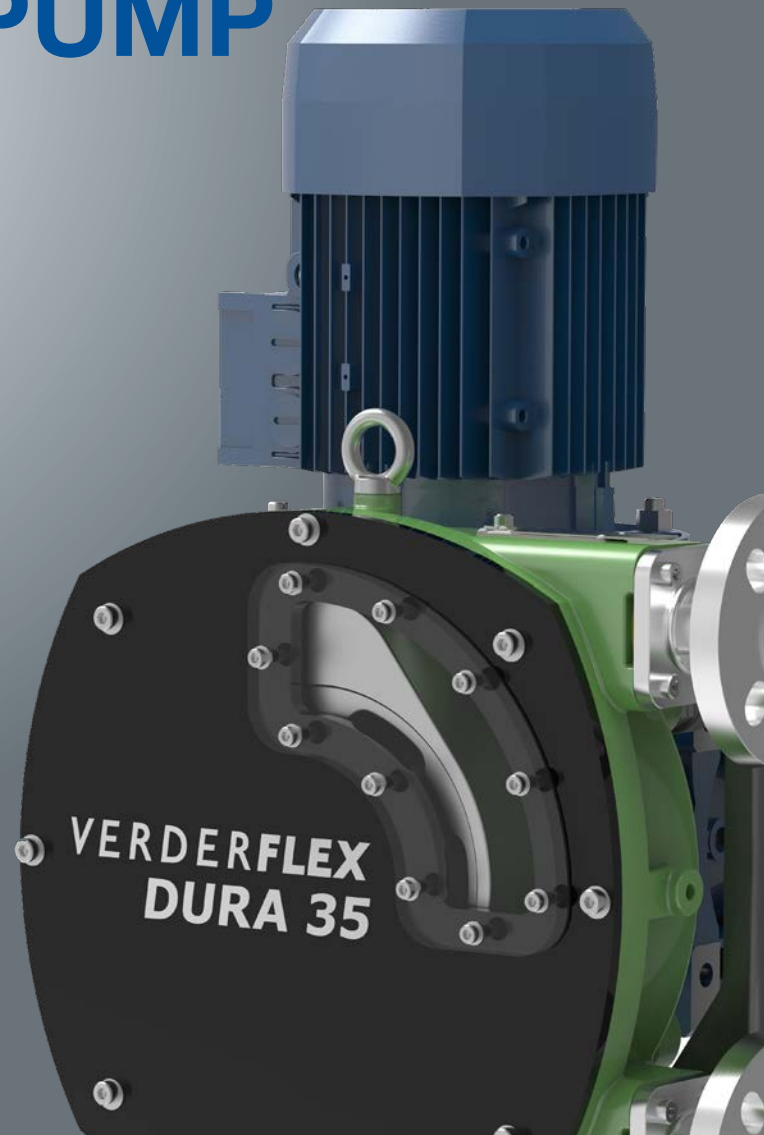


INNOVATIVE INDUSTRIAL PUMPING SOLUTIONS

INDUSTRIAL PUMP PROGRAM

Peristaltic pumps
Double diaphragm pumps
Centrifugal pumps
Gear pumps
Mag-drive centrifugal pumps
Screw centrifugal pumps
Dosing pumps
Static mixers

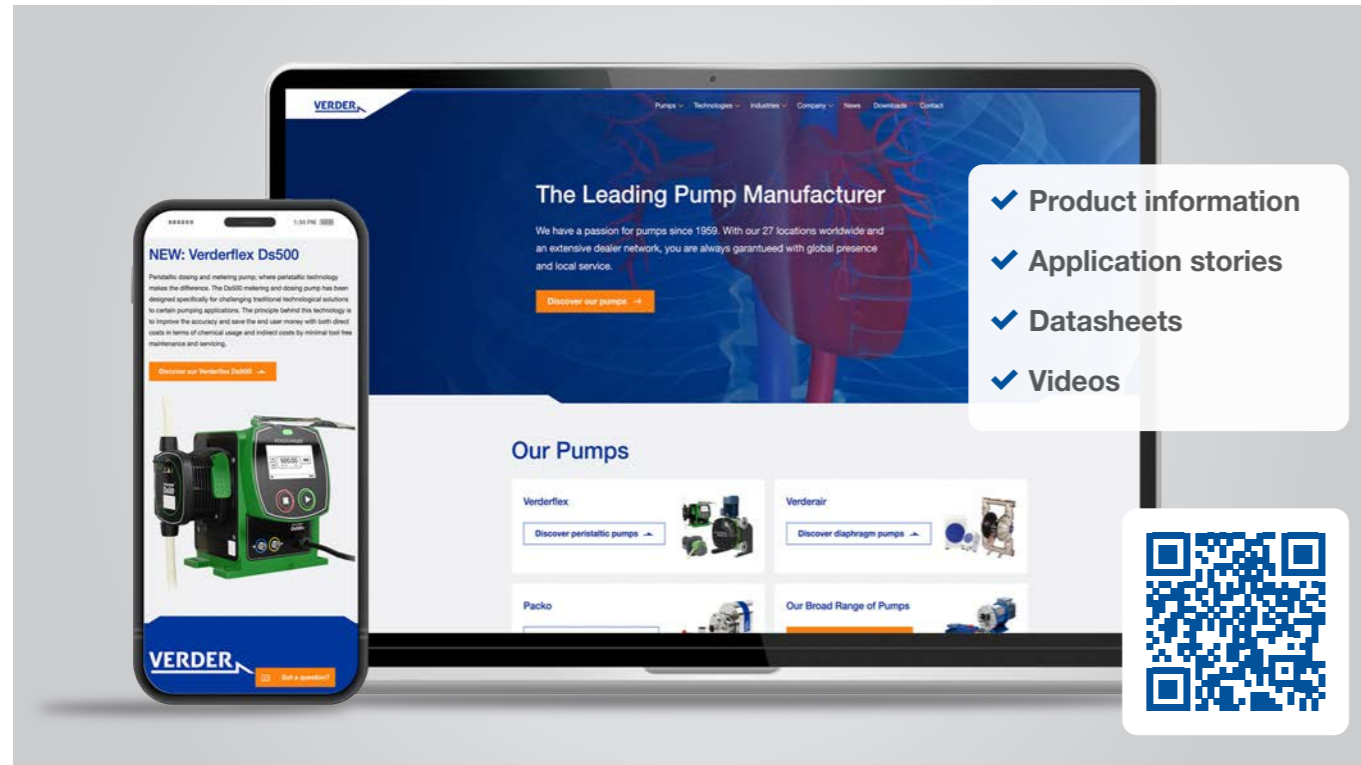


- ✓ Manufacturer with extensive process knowledge
- ✓ Certified quality
- ✓ Always the most suitable pump solution

ENABLING PROGRESS.

GET IN TOUCH

With the industrial pump manufacturer



Contact VERDER

If you would like to know more about VERDER pumps then please visit our website www.verderliquids.com, where you will find the full breakdown of our pump range as well as application stories, latest news, technical datasheets and more.

VERDER LIQUIDS BV

Utrechtseweg 4A
3451 GG Vleuten
The Netherlands

To provide you with the best possible service VERDER is supported by a distribution network that covers five continents and is continuing to expand. Our group of distributors includes members of the VERDER group and experienced independent companies. Our worldwide distribution network also help to provide our customers with local support and spares availability.

THE VERDER GROUP

Enabling progress



The VERDER group is a family-owned business formed over 60 years ago in the Netherlands; the group consists of a worldwide network of production and sales offices. Group companies are involved in the development and distribution of industrial and hygienic pump solutions, high-tech equipment for quality control and Research & Development into solid material (solids sample preparation and analytical technologies).

- 1 Company
- 27 Countries
- > 60 Years of expertise
- > 20 Manufacturing companies
- Global network
- Local distributors
- In-house service & maintenance
- A solution for every application
- In-depth knowledge of processes and applications

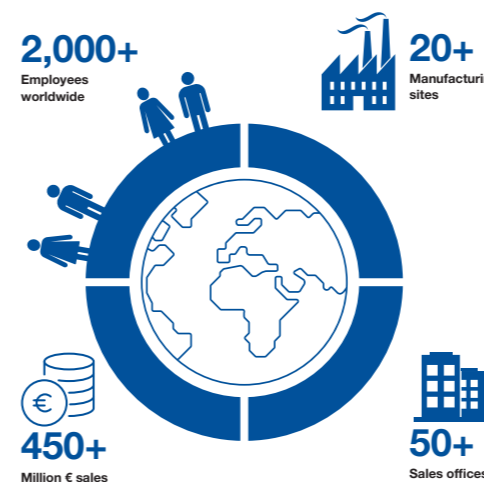
For years, Verder has led in innovation, driving our and our customers' success. Our global network of over 70 sales and manufacturing sites offers personalized sales and technical services, ensuring close customer relationships crucial for providing specific support and building lasting, trusting partnerships.

Verder is dedicated to making a positive impact by aligning with the UN's Sustainable Development Goals (SDGs) through our Environmental, Social, and Governance (ESG) program. Our goal is to lessen our environmental footprint, enhance employee well-being, and uphold ethical practices.

Inventing to make the world a better place

We leverage our expertise in sample preparation, analytical equipment, and professional pumping to empower our customers. We enable progress by improving their operations, we contribute to safer, more efficient, and sustainable processes, products, and services. Our contributions are pivotal in securing safe food supplies, ensuring responsive healthcare, and safeguarding clean drinking water in millions of households.

As a united family, we embrace our societal responsibilities with passion and a commitment to excellence. Our collective efforts are aimed at fostering a healthier, safer, and more sustainable world for all.



ENABLING PROGRESS.

APPLICATIONS IN INDUSTRIAL ENVIRONMENTS

Paint & Lacquer

Reception | Storage | Raw material preparation
Dosing | Transfer | Filtration | Dispersing | Blending
Filling | CIP/SIP | (Waste)water treatment



Chemical

Reception | Storage | Raw material preparation
Dosing | Transfer | Filtration | Spin | Blending
Filling | CIP / SIP | (Waste)water treatment



Manufacturing

Dosing | Measurement & control | Mixing |
Filling



(Waste) water treatment

Reception | Quality control | Measurement &
control | Dosing | Disinfection | Sludge transfer
| Filtration | Dirt removal | Clean and dirty water
transfer | Odour reduction



OEM

Dosing | Measurement & control | Mixing |
Filling



Oil & Gas

Reception | Storage | Raw material preparation
Dosing | Transfer | Filtration | Centrifuge |
Blending | Filling | CIP/SIP | (Waste)water
treatment



Storage and transshipment

Storage and transshipment | Reception | Storage
Dosing | Measurement and control | Transfer | Filling



THE INDUSTRIAL PROGRAM

Offering a wide range of industrial solutions



10

VERDERFLEX peristaltic pumps



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VERDERAIR double diaphragm pumps



14

PACKO industrial centrifugal pumps



16

Other pumping systems

BENEFITS AND CERTIFICATIONS



- ✓ Own design
- ✓ Highest material quality
- ✓ Excellent durability
- ✓ Optimal safety
- ✓ Continuous development
- ✓ Optimal productivity
- ✓ Continuously improving technologies
- ✓ Lowest total cost of ownership
- ✓ Multiple pump working principles for the best possible process solution
- ✓ Electropolishing and other surface treatments
- ✓ Extended process knowledge
- ✓ ATEX options



ATEX is a European Directive (2014/34/EC) for explosion-proof electrical and mechanical equipment, components and protective systems. It concerns the manufacture of products which are used in potentially explosive atmospheres.



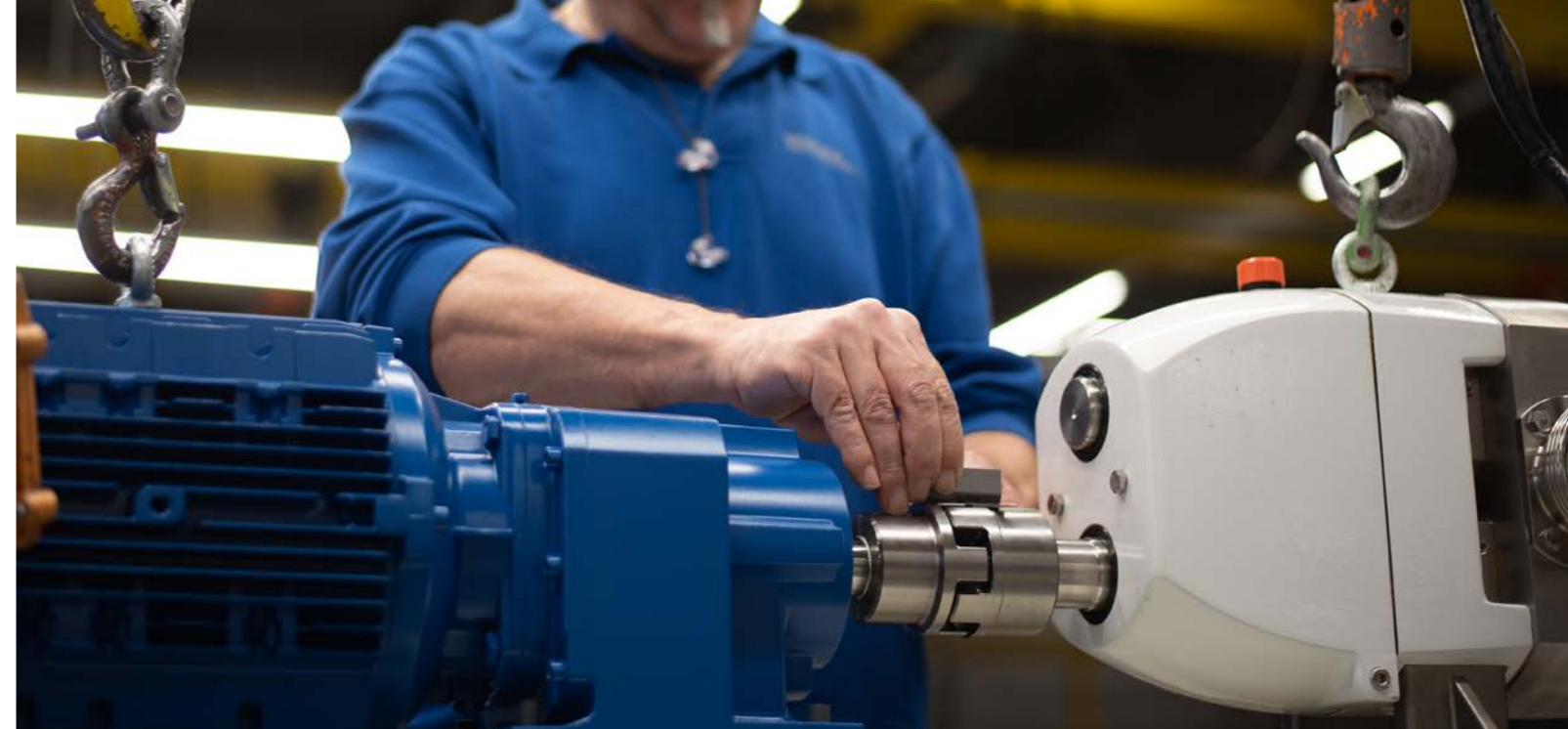
Minimum Efficiency Index, guideline for efficiency of pumps. This index gives a percentage from the sold pumps in the market on a certain moment with a low hydraulic efficiency on BEP. From 01/2015 MEI \geq 0.4. 95% of our centrifugal pumps complies to MEI.



VERDER also has FDA approved pumps available.

OUR PRODUCTION COMPANIES

We are rightly proud of our production companies, with VERDER brands being produced in 6 locations in Germany, United Kingdom, Belgium, Poland, South Korea and Italy. In-house pump production allows us to be more responsive to customer demands, assures the shortest lead times and maintains greater control over quality and costs.



Verderflex, Verdermag & Verderhus – United Kingdom

VERDER's British manufacturing facility comprises the development and production of the VERDER house brand VERDERFLEX (peristaltic pumps), Verdermag (mag drive centrifugal pumps) and Verderhus (screw centrifugal pumps).

These pump series seek excellence from every aspect of the product and its journey to the customer. Continuous improvements provide the best possible product. After four decades of development and production, it is still the goal to further improve the performance and build of every pump we make.



Metplast (MTP) – Poland

Our VERDERAIR PURE, e-PURE and HC-PURE machined double diaphragm pumps are manufactured at the Metplast production location, according to the very highest production standards.

In this modern production location everything is focused towards maintaining the highest standard of quality with a stringent protocol of testing.



Ponndorf – Germany

The Verderflex Rollit pump, hygienic and industrial, is manufactured at Ponndorf, Germany.

For over 50 years, Ponndorf has been developing and manufacturing high-quality peristaltic pumps, which are known for their rigid and robust construction.

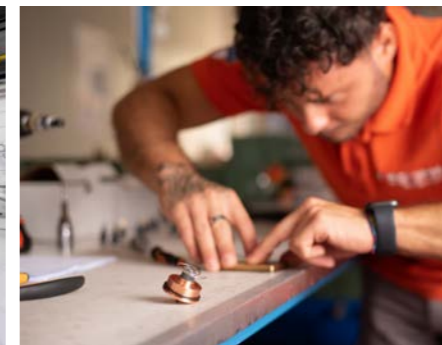
The Rollit pumps are lubricant-free roller peristaltic hose pumps that are easy to maintain, especially if you need a quick hose change, and available in a standard single and twinhead version.



PACKO – Belgium & South Korea

PACKO, our manufacturing company, specializes in producing the highest quality stainless steel centrifugal pumps, as well as hygienic rotary lobe and twin-screw pumps for industrial, food, and pharmaceutical uses.

Our Belgian-made centrifugal pumps undergo a unique electropolishing process, including hand finishing, to ensure uncompromised quality. Additionally, we produce both static and dynamic mixers, while our rotary lobe and twin-screw pumps are made in South Korea.



Microdos – Italy

Microdos is a manufacturer of small dosing pumps and systems. They produce Microdos solenoid and peristaltic pumps including related professional control instruments and complete dosing systems.

Microdos has developed a strong position in Southern European countries for applications in swimming pools, detergent dosing and water treatment applications. Microdos also provides private labelling pumps for third party companies.



ITC – Spain

ITC supplies dosing pumps and control systems for agricultural and water treatment applications, and has a manufacturing and assembly facility in Barcelona.

ITC's commitment is based on innovation, quality and excellent service. They offer a technified irrigation system, without losses and that allows greater control and precision of fertilizer than conventional irrigation systems.

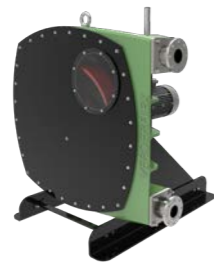
VERDERFLEX INDUSTRIAL HOSE & TUBE PUMPS

VERDERFLEX industrial tube pumps are best suited for accurate dosing and high density, viscous and abrasive liquids. The cased drive tube pumps excel in accurate dosing, dispensing and transfer of various industry applications.

Applications can be found in water treatment, mineral processing, biotechnology, food, beverage, chemical, paper, ink, pharmaceutical and the shipping industry.



- ✓ Very long service life due to reinforced hoses
- ✓ Easy to maintain: no valves, only one consumable part
- ✓ No damage: smooth transfer of almost all liquids with minimal shear
- ✓ Various accessories available



	VF	DURA	ROLLIT	DS500	VANTAGE 3000/5000	RAPIDE	RAPIDE 5000
Concept	High flow range	Compact	Lubrication free	Dosing and metering pump	Precise and programmable	Low pressure dosing	Robust low dosing (also 380V and dual pump head options)
Max. flow	90 m³/h	42 m³/h	24.5 m³/h	0.1 - 500 ml/min	6,6 l/min	14 l/min	8.8 l/min
Max. operating pressure [bar]	16	16	4	7	7	2	2

VERDERAIR INDUSTRIAL DIAPHRAGM PUMPS

VERDERAIR double diaphragm pumps are used for a wide variety of applications. These pumps are the best solution for abrasive or corrosive liquids. These diaphragm pumps are especially suitable for pumping very sticky and viscous liquids and liquids with solid particles. VERDERAIR diaphragm pumps are the most efficient on the market due to the quick acting air valve.

The VERDERAIR series offers various diaphragm pumps, varying in material (metallic, non-metallic, conductive) and drive principles (electric, air driven). Applications can be found in the chemical, paint, paper, pharmaceutical, ceramic, solar energy industry and wastewater treatment. All models are available for ATEX applications. Special models are available for ultra-pure applications.



- ✓ Enhances productivity
- ✓ Reduces operational costs
- ✓ Improves working environment
- ✓ Quick acting air valve for highest efficiency
- ✓ Overmoulded diaphragms for a longer lifespan
- ✓ Many accessories available
- ✓ Electrically driven for energy efficiency



	STANDARD	PURE	E-PURE	CONT-EX
Concept	The allrounder	Top level high purity AODD	Electrically driven top level EODD	OEM and demanding applications
Max. flow [l/min]	1.200	660	100	105
Max. pressure [bar]	8.6	7	5	7
Operation				



EODD 2ND GEN	EODD	DRUM PUMPS	HP	SPLIT MANIFOLD
Electrically driven & high efficiency	Electrically driven	Emptying drums, vessels & containers	High pressure	Double pumping action
454	830	61	189	2 x 30
6.9	7	7	17.2	7

PACKO INDUSTRIAL CENTRIFUGAL PUMPS

PACKO stainless steel centrifugal pumps have a unique and solid design with the highest possible surface finish. All pumps are electropolished and therefore have a perfectly cleanable and smooth surface with increased resistance to corrosion. They are characterised by their modular design with interchangeable standard components. Also available as cantilever pumps, vortex pumps and special pumps for water/air mixtures.

PACKO pumps make the difference in surface finish, food safety, energy costs, easy maintenance and optimisation of production processes. They are suitable for the most demanding industrial applications. A range of pumps for the food and pharmaceutical industries is also available.



- ✓ SS316L or higher
- ✓ Electropolished as standard
- ✓ Low NPSH value
- ✓ Many connection options
- ✓ Simple maintenance, few wearing parts



	NP60	ICP1	MCP2/MCP3	ICP2/ICP3
Concept	Cost saving	Best 'value for money'	High flow	Robust design
Max. flow [m³/h]	40	70	1.800	320
Max. pressure [bar]	2,7	3,7	7,5	12



	NMS	IRP2/IRP3	IML, IMXL, IMO	VPCP
Concept	High pressure	CIP return Prime pump	Cantilever	Product pumping
Max. flow [m³/h]	50	150	1.000	1000
Max. pressure [bar]	21,5	7,5	6	2

OTHER PRODUCTS TO COMPLETE YOUR PROCESS

VERDER is a full service pump manufacturer and supplier, focusing on peristaltic, double diaphragm, centrifugal and lobe pumps, but there are more products available to complete your process line. The extended program of pumps and accessories, produced almost entirely in house, completes the range to cover all your pumping applications.



- ✓ Own research & development
- ✓ In-house production
- ✓ Highest material quality
- ✓ Excellent durability
- ✓ Optimal safety
- ✓ Multiple surface treatments
- ✓ ATEX options



	VERDERMAG VM	VERDERHUS HSB	VERDERGEAR	MICRODOS
Concept	Mag-drive centrifugal	Screw centrifugal	(Mag-drive) gear	Solenoid dosing
Max. flow	360 m ³ /h	360 m ³ /h	22 l/min	22 l/min
Head	153 mwc	24 mwc	18 bar	18 bar



MICRODOS	VERDERMIX
Peristaltic dosing	Static mixers
17 l/min	
3	



ACCESSORIES & CONSUMABLES

To optimise the operation of your pump or to protect your product line, we have various accessories available, all specially developed for the VERDER pump brands and tailored to demands we received from the market. In addition to accessories, our pumps may require consumables which we can happily provide. VERDER spare parts combined with our pump gives the best reliability and an excellent fit to increase your pump lifetime.



Accessories

Some of our optional extras and accessories include adjustable base plates, mobile systems and “drop-in” skid systems, pH and Redox probes, cells to measure the concentration of chlorine, pulsation dampeners, quick connect hoses and connections, rotation counters and frequency inverters for our peristaltic pumps.

For our double diaphragm pumps there is an extended program of accessories such as pulsation dampeners, air control equipment consisting of a filter, regulator with semi-automatic drain, several control valves (speed control, soft-start, on-off, flow-stop) and accessories such as stroke sensors, remote control, manual drains, pneumatic drains, barrier systems and leakage detections.

Consumables

Hoses and Tubes

Hoses are required for both industrial hose pumps, OEM tube pumps and peristaltic dosing pumps. The maximum fatigue strength ensures that the hose lasts a long time. VERDERFLEX hoses are in NR, NBR, NBRF, EPDM, CSM, Verderprene, Neoprene and Platinum-cured silicone. VERDERFLEX tubing is available in Verderprene and platinum cured silicone.

Lubrication

Peristaltic pumps use a lubricating bath to ensure that the hose absorbs the energy stored in the reinforced layers. Good lubrication is therefore required for optimal operation of the pump. Verderlube (glycerine based) is the standard lubricant for VERDERFLEX pumps.

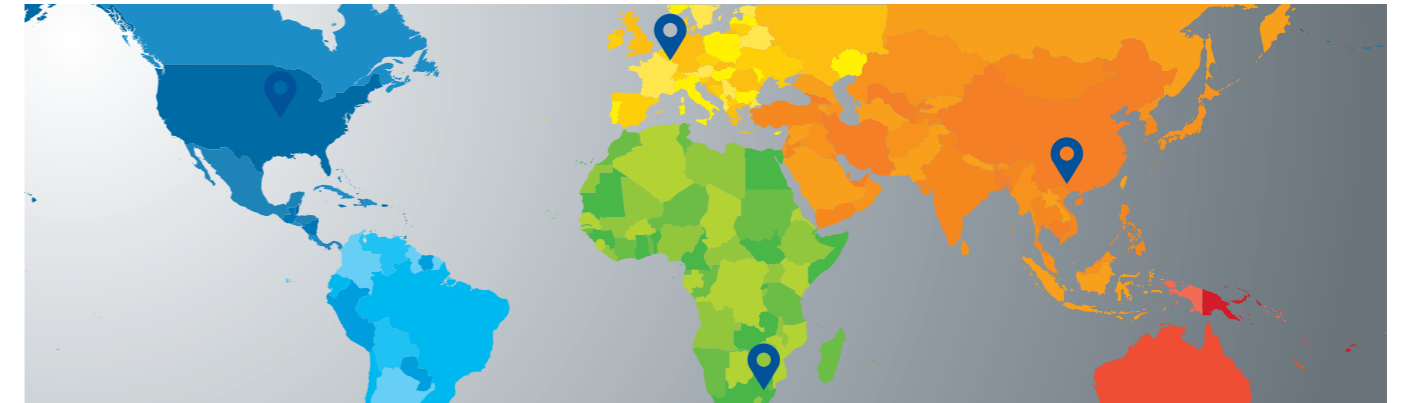
For pumping strong oxidants or nitrogen-containing chemicals, VERDER also offers Verdersil, a silicone-based lubricant that is also suitable for higher temperatures. Both lubricants have been specifically developed for use with VERDERFLEX hose pumps and also act as a coolant for efficient pumping function and longer hose life.

Mechanical seals

At high inlet pressures, standard mechanical seals can be damaged, subsequently causing damage to the seal faces from impact. Continuous high inlet pressure against a Bellow mechanical seal will also create huge wear of the seal faces. Both of these problems can be solved with a balanced/sterile mechanical seal that is independent from the inlet pressure. For our PACKO range we have the highest quality mechanical seals available.

LOCAL PRESENCE WORLDWIDE AVAILABILITY

VERDER has 27 own sales offices worldwide. There is also an extensive network of local distributors who are skilled and well-trained by VERDER. As a result, VERDER offers worldwide coverage with a local presence. Logistics are centralised to ensure that many pumps and spares are available and ready to be sent.

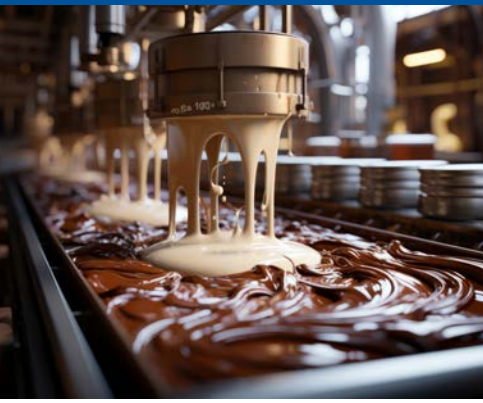


With 27 sales offices worldwide, own manufacturing plants and a very extensive centralised logistics center, VERDER has a worldwide presence to be able to serve our customer base quickly, reliably and efficiently.

VERDER opened a huge logistics center in Groningen, the Netherlands. This means the distribution of VERDER pumps in Europe is completely centralised, ensuring fast delivery of your pump. In Europe, next day delivery is also available for in stock items. The other branches and the distributors are supplied by two more centralised warehouses meaning global customers also benefit from centralised logistics.

In logistics there are two key values: "on time" and "in perfect condition". We strive to continuously improve production and distribution to be able to continue providing the high standards we offer for our customers.

- ✓ Europe
- ✓ Asia
- ✓ Africa
- ✓ America



VERDER LIQUIDS

The leading pump manufacturer

VERDER LIQUIDS BV

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VERDER
passion for pumps

Austria, Belgium, Bulgaria, China, Croatia, Czech Republic, France, Germany, Hungary, India, Italy, The Netherlands, Poland, Republic Of Korea, Romania, Serbia, Slovakia, South Africa, Spain, Switzerland, United Kingdom and United States of America.