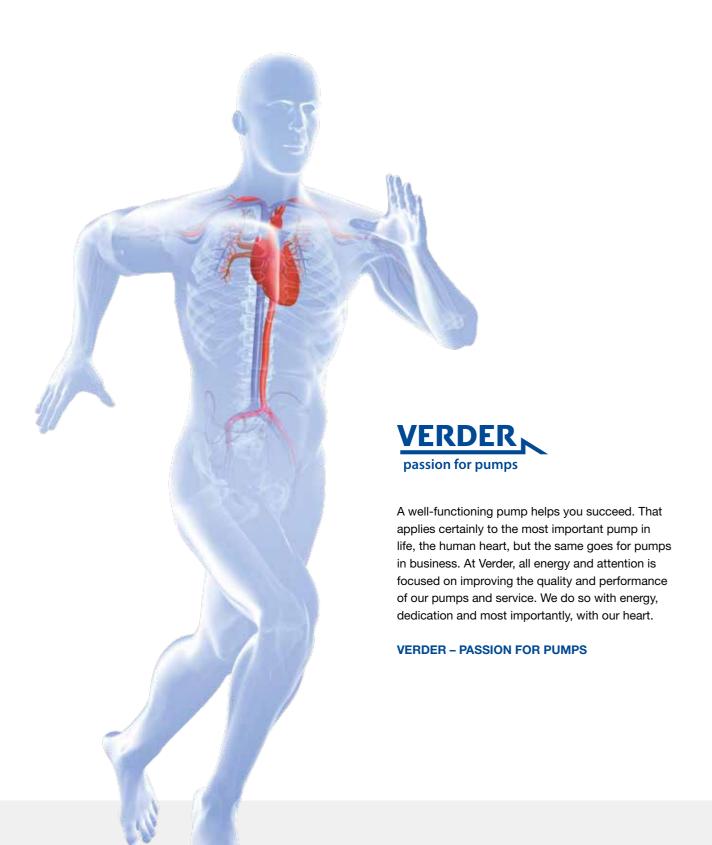




- ✓ Large selection
- Best quality
- ✓ Highest hygienic standards







- 1 Company
- 27 Countries
- >60 Years of expertise
- 5 Manufacturing companies
- Global network
- ▲ Local distributors
- In-house service & maintenance
- → A solution for every application

THE VERDER GROUP

The Verder group is a family owned business established more than 60 years ago in the Netherlands; the group consists of a worldwide network of production and distribution companies. Group companies are involved in the development and distribution of industrial and hygienic pumps, pumping systems, high-tech equipment for quality control, research and development into solid material (solids sample preparation and analytical technologies). The Verder Group employs over 1800 people and has an annual turnover close to 400 million Euros.

With the hygienic brand Packo (Centrifugal, rotary lobe and twin screw pumps), and the industrial brands Verderair (Double diaphragm) and Verderflex (Peristaltic) Verder offers a complete portfolio pumps that offers solutions all over industry.

Best expertise in broad hygienic solutions

The in-depth knowledge, ensured by the hygienic specialists of our manufacturing companies, gives us the possibility to offer you the best solution for your hygienic process. With our well-known brands Packo, Verderflex and Verderair we have a wide range of hygienic pumping programs. We have various solutions for your process line creating a long lasting, cost effective, but most of all hygienic safe pump solution.

Jabsco by Packo rotary lobe pumps

With the addition of the Jabsco rotary lobe pumps to the Packo program, Verder now has an even more complete hygienic program of pumps, offering the best pump solution for every hygienic process.

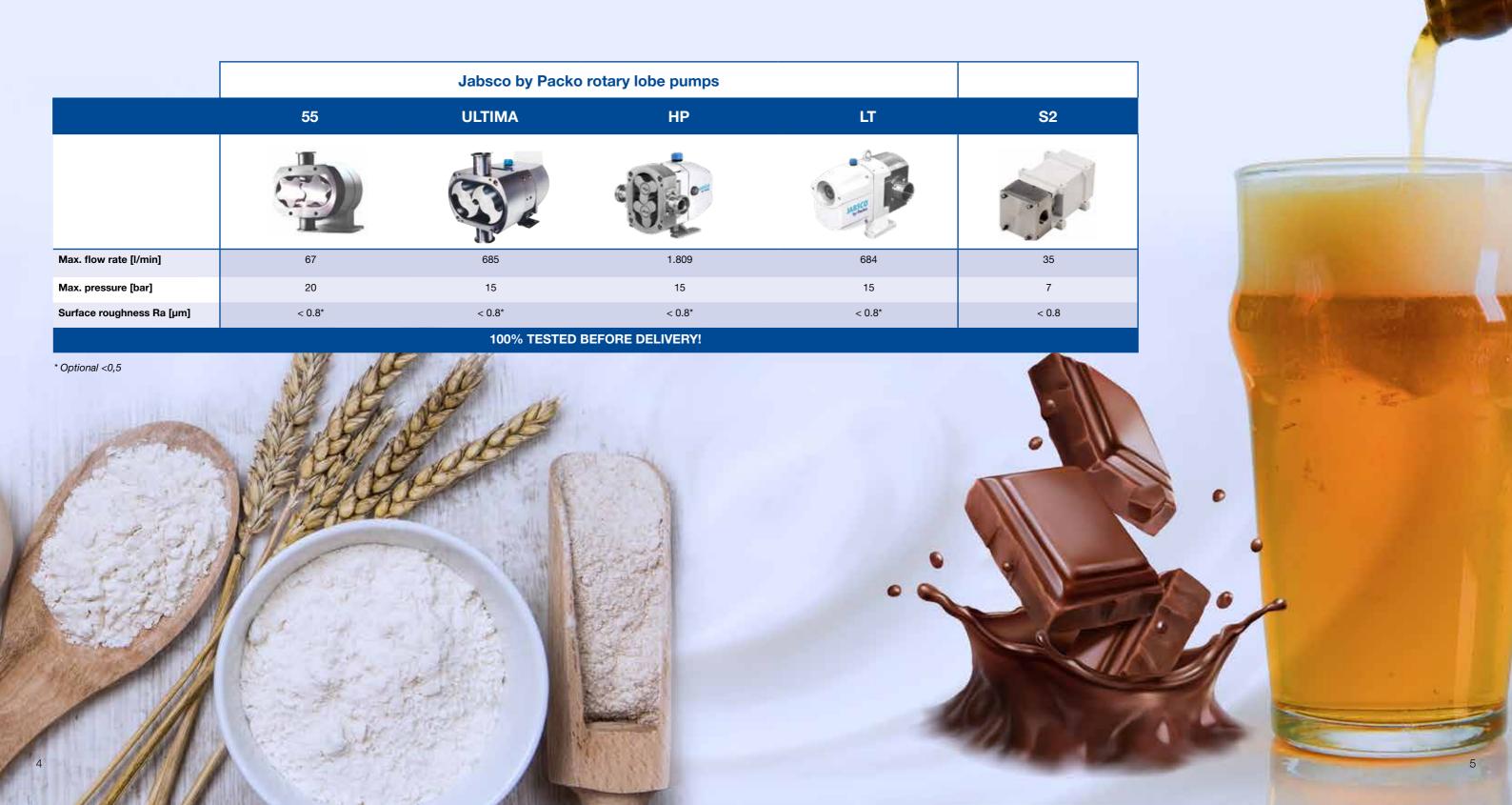








JABSCO BY PACKO HYGIENIC PUMPS



LARGE SELECTION

HIGHEST STANDARDS

BEST QUALITY

JABSCO ROTARY LOBE

LARGE SELECTION
BEST QUALITY
HIGHEST STANDARDS





Packo's range of Jabsco's rotary lobe pumps includes a variety of types and models, each representing the state of the art in its specific application. The pumps are available in a wide variety to suit your specific application. Jabsco by Packo rotary lobe pumps are a valuable addition to the existing Packo rotary lobe pump program because of their balanced seal assembly and the strong shaft construction. They are the preferred solution for applications with pressures over 12 bar.

PUMPS



Most stringent hygienic standards

Flush rotor fixing screws are sealed to prevent product ingress. Contoured rotor case internals for full drainability during SIP and shaft seals set up front where the pumping action is! Fully 3A and versions for EHEDG. CIP and SIP protocols and USDA, 3A certification.

Low maintenance cost

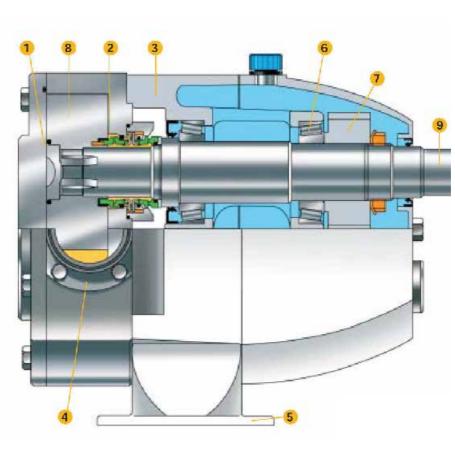
Front loaded single shaft seals are fully accessible from the front of the pump without disturbing the process pipework. Simple bearing assemblies easily pre-set using automotive technology. Bi-wing rotors require no timing adjustments. Even the pump casing is removable, a feature not normally associated with other bi-wing rotor pumps.

High volumetric efficiency

The bi-wing rotors incorporate the low viscosity efficiency associated with circumferential piston pumps with the viscous product handling capability of tri-quad and bi-lobe rotor pumps at an affordable price.

Robust design

Hy~Line has extremely large shaft diameters mounted in high specification taper roller bearings, fitted into an extremely rigid central pillar. All enclosed in an oil filled housing made from alloy. These avoid premature pump failure due to overpressure or other abuse



Features

- 1. Flush fitting, sealed rotor retaining screws avoid buildup of stagnant product as no end cover recesses are required and no product can get into the rotor drive.
- 2. Front mounted shaft seals for easy replacement and full accessibility of CIP liquids.
- 3. Rugged, high grade alloy bearing pedestal and housing for low weight and high strength, completely encased in epoxy coating.
- 4. Detachable ports for maximum flexibility in connection type and size. (Not on 3 & 7 size).
- 5. Removable feet allow quick change for pump mounting in the ideal orientation.
- 6. High specification taper roller bearings give over one million hours life on a typical duty.
- 7. Precision cut spur gears for high load capability and ease of maintenance.
- 8. Fully interchangeable bi-wing rotors can be fitted without the need to re-time thus reducing downtime and allows pump to cope with a higher level of abuse.
- 9. Heavy duty shafts for high pressure capability.

HY~LINE⁺ SERIES

LARGE SELECTION
BEST QUALITY
HIGHEST STANDARDS

The Hy-Line series consists of the HP models. Perfect cleanability with a pump chamber design that promotes self-drainage. The Hy~Line series provides specific variants for special applications.



Seal options

- → Front loaded single mechanical face type seals of hygienic design. (Carbon, stainless steel and silicon carbide).
- Low pressure flushed seals utilize the same single mechanical seal with an additional housing. A low pressure flush liquid washes away crystallizing products or liquids which 'skin over'.
- Double mechanical seals utilizing all the components from single seals. (For hazardous, toxic, highly abrasive or sterile products).
- → Front loaded single O-Ring seals (low cost seal option for self-lubricating products/non-abrasive products).
- Front loaded double O-Ring seals (for pressurized grease or flushing with a suitable liquid to enable low cost sealing of high sugar confectionery and bakery products
- Multiple PTFE lip seal complete with controlled release food grade grease injection system (ideal for chocolate & other products sensitive to water flush).

Certifications

3A, FDA, EN1935-2004 EC

Connections

All US and European standards including DIN, SMS, RJT, IDF, Tri-Clamp & BSP. Most pumps available with 2 different sizes, all fully interchangeable. (Not on 3 & 7 size)

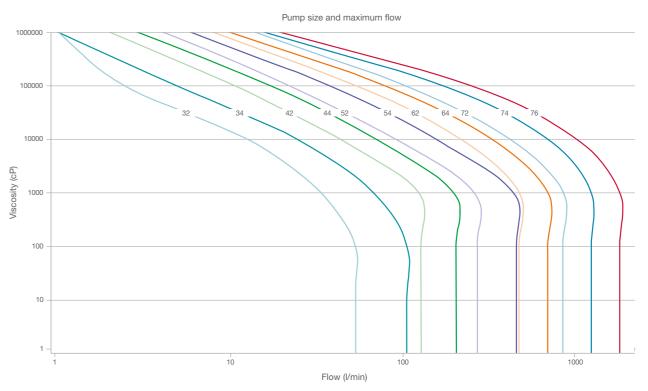
Elastomers

Nitrile, Viton, EPDM and PTFE product contact joints available in compounds conforming to 3A Sanitary Standard 18-03 and FDA title 21 section 177.2600.

- The Hy~Line series has bi-wing rotors (316L Stainless Steel) for good product handling, high efficiency, gentle pumping action, low to high viscous products, interchangeable, easy 'set-up', bi-directional operation
- ➤ Easy maintenance because of the construction of the end covers (3A Nitrile, FDA EPDM & Viton and PTFE): internally flat, which minimises product entrapment, improves CIP
- Excellent rotor case drainage: Bolt-on feet allow vertical ports, vertical ports and profiled rotor case promote self-drainage of thin liquids, encourages product recovery and promotes full CIP drainage
- Bearing housing and gearbox assembly: Large diameter shafts and rugged construction for long life, easy to service, bi-directional and easy external cleaning

Technical data

Model	HP32	HP34	HP42	HP44	HP52	HP54	HP62	HP64	LH72	LH74	LH76
Port Sizes (mm)	19	25	25	38	38	50	63	76	76	125	127
	25	38	38	50	50	76	76	100	100	152	152
Displacement (I/100 rev)	3.5	7	12.3	20.4	26.5	45.5	64	95	123	205	301.5
Max flow (I/min)	52	105	123	204	265	455	461	684	836	1230	1809
Max Pressure (bar)	15	8	15	8	15	8	15	8	15	8	5
Max Speed (RPM)	1500	1500	1000	1000	1000	1000	720	720	680	600	600
Bareshaft Weight (kg)	8	10	18	20	32	35	61	65	125	145	165
Temp (°C)	-30 to 140										
Viscosity (cP)	1 to 1 million										



^{*}For guidance purposes only. Contact Verder for a detailed proposal, tailored to your technical specifications

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SERIES 55 & ULTIMA

LARGE SELECTION
BEST QUALITY
HIGHEST STANDARDS

The 55 and Ultima series are the perfect pump series for delicate, viscous and particle-laden fluids in biotechnology, pharmaceutical manufacture, high technology food processes and all applications where the very highest hygienic standards are required. Special features such as the front mounted shaft seals, the external rotor fixing, the hygienic end cover, and the gasket type joints make this pump perfectly cleanable.



ULTIMA & SERIES 55

- Rapid de-contamination and product change-over
- → Fully self-draining pump head: no hold-up of process liquid or cleaning agents
- External rotor fixing no internal crevices
- Controlled-compression gasket-type joints and no O-rings in product contact
- → Shaft seal design combines highest levels of containment with total product draining, no cavities, and front access for easy inspection and fast maintenance
- → Standard surface finish: 0.8µm (150 grit), with 0.5µ (240 grit) and electro-polish options
- → Optional steam/sterile fluid barriers on joints, for true aseptic processes
- → High efficiency to minimise damage to shear-sensitive low viscosity fluids

Technical data

Model	Max flow	Displacement	Pressure	Ports
	I/min	I/100 rev	bar	mm
55210	16	1.09	14	12
55320	44	2.93	20	19
55420	67	6.7	20	25
LU42	123	12.3	15	25
LU44	204	20.4	8	38
LU52	265	26.5	15	38
LU54	455	45.5	8	50
LU62	461	64	15	65
LU64	685	95	8	80



KEY FEATURES SERIES 55 & ULTIMA

Aseptic operation

All unwanted micro-organisms are kept out of the fluid stream. This presents spoiling of sensitive products and ensures that only the intended reactions take place in the process. High specification joints are used: Once the system has been cleaned and sterilized it will remain clean and sterilized.

High containment

Escape of pathogenic or other hazardous products is prevented by the specially developed pump head joints. Optional: steam or sterile fluid barriers.

High Hygiene

FDA and EHEDG listed materials maintain hygiene inside and smooth contoured externals make the outside of the pump very easy to clean.

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S2 PUMP

The S2 pump is the unbeatable model of the original Jabsco 24 series pumps. Although the 24 series has since been replaced by the Hy-Line and the 55 series, the S2 has stood the test of time. That's because this pump is a great, cost-effective pump for semi-hygienic applications.



S2 PUMP

Technical features

- → For the pumping of soft solids and delicate liquids
- → Very reliable as a process pump
- → CIP or manual cleaning
- → Double ring packed gland or standard/hard face mechanical seals
- → Available materials are Nitrile, Viton or PTFE elastomers

Options

- → Temperature control jacket option
- → 8 tooth or tri lobe option
- → True lobe pump with helical timing gears

Technical data

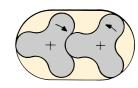
Flows	up to 35 I/min @1000rpm
Pressures	up to 7 bar
Temperatures	-40 to +140 °C
Viscosity	up to 100,000 cps
Options	25 mm ports – with a full range of standard port options

JABSCO ROTOR TYPES

The Jabsco by Packo lobe pumps are available in different versions. Each type has its own characteristics and field of application.

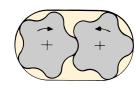
3 lobes

With this version you can pump viscous or 'shear' sensitive products, possibly in combination with whole parts such as fruit and vegetables. The pumps are equipped with a standard pump housing or with an adapted pump housing. The 8-shaped pump housing increases the volumetric efficiency with thinner liquids. The 3-lobed version is used in the basic versions of the Jabsco pumps and the older Jabsco S2 pump.



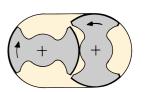
5 lobes

Specially developed by Jabsco for the ultra-hygienic 55 series. The use is the same as with the 3 lobes rotors. However, this version gives a much lower pulsation and low noise.



Bi-wing lobes

Known under the English term as the 'Scimitar' principle. A lobe pump in this version gives a low pulsation and a very high volumetric efficiency. Available in the Jabsco 55 series and on. the Hiy-Line pump series.



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LARGE SELECTION BEST QUALITY HIGHEST STANDARDS

APPLICATION AREAS JABSCO PUMPS

Jabsco rotary lobe pumps are used in a wide range of industries for hygienic applications. Varying from the pharmaceutical industry for a.o. cell slurries and bio-products, the health care industry for cosmetics and dietary products, a very broad range of applications in the food processing industry, and in the chemical industry for strong acids, emulsions and polymers.









ORDERS AND SERVICE

All Jabsco lobe pumps can be purchased from the Verder organisation under the new name: Jabsco by Packo.

Existing Customers

If you are an already existing Jabsco customer, everything will remain the same and channels will be served as before. The only thing that could change is that you now purchase your pumps and spare parts from the Verder organisation.

We pride ourselves on our years of knowledge in manufacturing and distributing industrial and hygienic pump solution, so we therefore aim to keep as much the same as possible and will explain where to buy, how to order, where to ask for a quotation, and how shipping & invoicing will be continued. We will honour existing agreements and service levels that are in place.

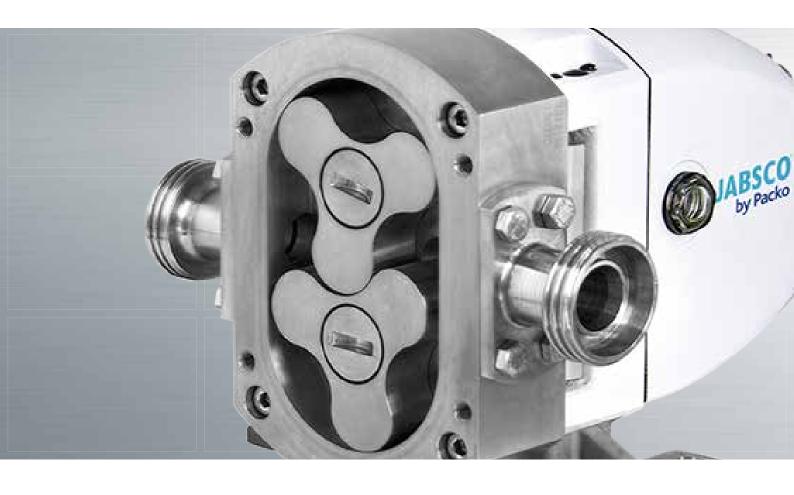
New Customers

If you are interested in Jabsco lobe pumps, our Verder organisation is here to help you. We have over 60 years of experience and our Verder pump experts will make sure you make the right decision for the solution you are looking for. We manufacture and distribute our own pumps, which will benefit you. Please feel free to ask for prices, shipping and invoicing about our Jabsco lobe pumps!



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