

Sealing solutions for **ROTATING EQUIPMENT**

High-end
mechanical seals
NEW!
and braided
packings



Betech

Polymers and Sealing Solutions

*Improving
your
products™*

MAKE THINGS WORK. BETTER.



Betech is a recognized supplier of gaskets, rubber seals, and polymer-based functional parts. With roots all the way back to early 20th century. Here, you find the broadest range in the industry. But feel free to expect even more.

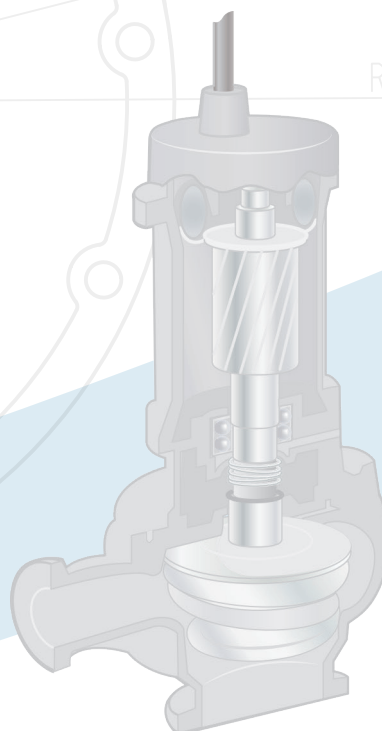


Strong sales growth in the category of rotating elastomer seals causes us to expand the market offer by introducing mechanical seals and braided packings – accompanied by experienced technical support that our customers are used to.

On the following pages we present a complete range of competitive high-end sealing solutions for rotating equipment: Braided packings, mechanical seals, V-rings, oil seals and radial shaft seals.



Visit our website
betech.site/rotating-seals



BRAIDED PACKINGS / GLAND PACKINGS




STANDARD BRAIDED PACKINGS	VALVE	PUMP	MARINE	POWER PLANT	ROTATING SHAFT
LATTY has manufactured braided packings in France for over 100 years and always delivers high-performing products. LATTY composes the packings from more than 70 types of impregnation and 120 variants of quality yarns and wires.					
PTFE – LATTYflon 3206 Made of 100 percent PTFE silk yarns, each single yarn being impregnated with PTFE. The packing is re-impregnated with a mixture of PTFE and inert lubricant during the braiding process. Media PH values: 0 to 14. Working temperature: -200 to 280 °C.					
Graphite – LATTYgraf T Made of 100 percent pure and continuous graphite yarns, impregnated with a graphite mixture. Very low friction coefficient, good heat dissipation, and excellent elastic recovery. Suitable for high speed. Media PH values: 0 to 14. Working temperature: -200 to 600 °C.					
Aramide – LATTYflon 4788 Made of 100 percent aramide fibres. Each single yarn is impregnated with PTFE using an exclusive "Filcoat" process. Then re-impregnated with a mixture of PTFE and foodstuff-approved quality lubrication. Very high mechanical performance. Media PH values: 2 to 13. Working temperature: -220 to 300 °C.					
Vegetable – LATTYflon 1779 A plant-based packing made of anti-rot-treated high quality ramie yarns. Impregnated with a mixture of PTFE and lubricant during the braiding process. Media PH values: 4 to 11. Working temperature: -40 to 120 °C.					
Mixed – LATTflon 4757 A very strong multi-yarn packing. The corners are made of 100 percent aramide yarns impregnated with PTFE. The lubricated friction faces are made of 100 percent graphited PTFE. The entire packing is then re-impregnated with a mixture of PTFE and a lubricant. By combining the advantages of graphite, PTFE and aramide, this packing provides high mechanical resistance. Media PH values: 2 to 14. Working temperature: -220 to 300 °C.					


FLEXIBLE BRAIDED PACKINGS	PULP PAPER	PUMP	WASTE WATER	EXTRUDER	ROTATING SHAFT	
<p>LubSeal series by Nordic Seal is a fleksible packing with an elastomer core and an outer fibre braiding. A reservoir inside the hollow core makes it possible to add a lubricant to the seals. Pre-shrunk and ready to install. Extends service life. Developed and manufactured in Norway.</p>						 NordicSeal
<p>Elastomer cores</p> <p>Choose between 3 elastomer cores: EPDM / NBR / Silicone each in 5 different hardnesses (Shore A).</p>		<p>Braiding</p> <p>Choose between 3 different fibre materials: Aramid / Polyamid / PTFE</p>				
<p>Lubrication/Impregnation</p> <p>Choose between graphite, PTFE or none (dry).</p> <p>By mixing cores and braiding materials with or without lubrication, it's possible to configure a unique, customised sealing solution. The flexible braided packing is delivered as preformed rings. Various sealing profiles are possible.</p>						





MECHANICAL SEALS



AGITATOR SEALS	FOOD PHARMA	PETRO CHEMICALS				
	<p>Agitator seals are independent of direction of rotation, and manufactured as single or double seals. Available with or without bearing and suitable for top entry drives, bottom drives, and side mounted drives.</p> <p>As option, connect a barrier fluid supply system for efficient cooling and continuous lubrication.</p> <p>Ready to fit according to drawing and delivered as a factory tested unit. Can be manufactured and delivered in various sizes.</p>					

CARTRIDGE SEALS	FOOD PHARMA	PETRO CHEMICALS	PROCESS	WASTE WATER	PULP PAPER	POWER PLANT
	<p>Cartridge seals are a balanced seal type, independent of direction of rotation, and manufactured as single or double seals. Double cartridge seals have an integrated pump function circulating the cooling and lubrication fluid.</p> <p>Cartridge seals are available in various sizes and material combinations, and are ideal for standardization and new development projects.</p> <p>An easy maintenance and overhaul of this seal type makes it possible to extend service life. Cartridge seals are also well-qualified as substitution of braided packings.</p>					

PUSHER SEALS	FOOD PHARMA	PETRO CHEMICALS	PROCESS	WASTE WATER	WATER SUPPLY	POWER PLANT
	<p>The pusher type is universal for most rotating applications including food production equipment. In addition, some types are designed to work with media containing solids.</p> <p>Pusher seals are independent of direction of rotation, and available in a variety of sizes and various material combinations. In some types, the steel spring is protected against the media.</p> <p>For use in high pressure applications up to 25 bar and by a balanced pusher seal up to 40 bar.</p>					

RUBBER BELLOW SEALS	FOOD PHARMA	PETRO CHEMICALS	PROCESS	WASTE WATER	WATER SUPPLY	POWER PLANT
	<p>A mechanical seal for all types of pumps, well-known as the preferred OEM pump manufacturer seal.</p> <p>Universal for use in all kind of pumps with plain shaft, non-sensitive to shaft deflections.</p> <p>In compliance with several approvals/standards.</p> <p>Available in many material combinations and a wide range of dimensions.</p>					

BARRIER LIQUID SUPPLY SYSTEM

Barrier liquid supply systems are used together with double cartridge seal configurations.



Mechanical seals and support systems designed and manufactured by Flexaseal, a leading engineering company in the USA.

CARTRIDGE SEALS

FOOD
PHARMA

PETRO
CHEMICALS

PROCESS

WASTE
WATER

POWER
PLANT

BIOGAS



Cartridge seals are available in different types: single cartridge and double cartridge, single or multi spring solutions, and metal bellow types.

In addition, soft/hard as well as hard/hard sealing surface combinations are possible, and also available with perfluoro elastomers (FFKM).

API approved.

SPLIT SEALS

PETRO
CHEMICALS

PROCESS

WASTE
WATER

ROTATING
SHAFT

POWER
PLANT



The Style 85 split cartridge seal is extreme easy to install and significantly reduces the downtime in challenging and time consuming installations.

No other split cartridge design divides the sealing set into just two integrated parts and makes the handling and installation as easy as this series.

The only split cartridge seal fully assembled and pressure tested at the factory. No need for measurements, no special tools, no shims and no glue.

METAL BELLOW SEALS

PETRO
CHEMICALS

PROCESS

POWER
PLANT


CARGO
PUMP




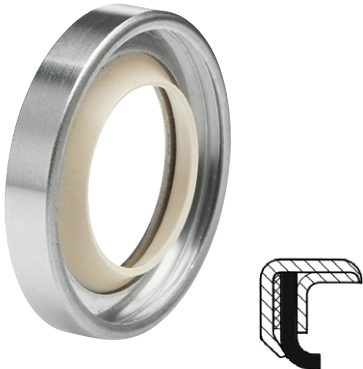
Low and high temperature edge-welded metal bellow seals for working pressure up to 20 bar and temperatures up to 425 °C.

This type of hydraulically balanced metal bellow seal is self-cleaning using centrifugal force and therefore a good choice for slurry and particle-containing media.

V-RINGS, OIL SEALS AND SHAFT SEALS

V-RINGS	WIND POWER	ROTATING SHAFT				
	<p>V-rings are one-piece all-rubber seals with V-shaped cross section. The elasticity of the V-ring ensures that its body is held securely in place against the shaft while the shaft rotation forces the soft lip against the counter face, forming a tight seal.</p> <p>V-ring applications can be found in many industries with rotating shafts, both as primary seal or as a safety secondary seal.</p> <p>V-rings are considered a cost effective choice with the additional benefit of absorbing considerable tolerances (irregular shaft roundness) better than many other shaft sealing technologies.</p>					

OIL SEALS	WIND POWER	ENGINE	TRANSMISSION	AUTOMOTIVE	ROTATING SHAFT	
	<p>Oil seals are used to seal between rotating shafts and housing/engine. The seal is preventing the oil or other lubricant from seeping out and likewise preventing contaminants and particles to enter the machinery, gearbox, engine etc.</p> <p>Oil seals are often also called grease or dirt seals alternatively radial shaft seals, radial oil seals or simmer rings.</p> <p>An oil seal typically consists of a metal ring (holder) bonded to a flexible rubber part that makes the sealing – in some cases additional energizing is provided by e.g. a steel spring.</p> <p>Oil seals are manufactured to DIN/ISO 3761 standards, with installation conditions as outlined in DIN/ISO 3760.</p>					

RADIAL PTFE SHAFT SEALS	FOOD PHARMA	PETROCHEMICALS	PROCESS	ROTATING SHAFT		
	<p>Radial PTFE shaft seals consist of a metal ring (holder) combined with a flexible PTFE sealing lip.</p> <p>Usually, PTFE seals used in rotary applications have a groove in the profile that acts as oil reservoir.</p> <p>This gasket type is typically used for rotating shafts where rubber-based seals are not suitable due to aggressive media, medium-high pressure or dry running.</p>					

ADVANTAGES THAT BENEFIT YOU.

Betech is specialist in sealing solutions to OEMs, mechanical engineers, and service companies across all industries.

Together we create optimum solutions

In decisions about seals for rotating equipment, we need to know the five most critical application parameters:

- Fluid/Media Properties
- Working Pressure
- Working Temperature
- Rotation Speed
- Seal Chamber Dimensions

Based on this information, we specify and provide the optimum sealing solution whether it is a elastomer type of suitable quality, a braided packing or an advanced mechanical configuration.

Benefits, if you are

A MANUFACTURER

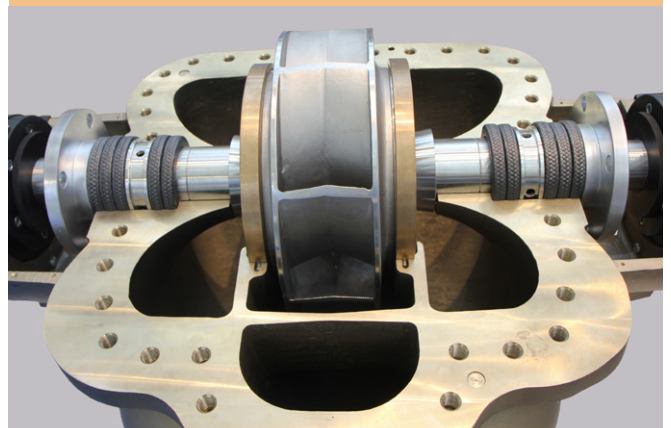
- ☐ Reliable deliveries:
Non-stop operations
- ☐ Proven quality at competitive prices:
High-performance solutions with a great value/price ratio
- ☐ Replacement guarantee:
Continuous access to spare parts enables long-term after-sales service
- ☐ Technical support:
Specialist knowledge & advices
- ☐ Technical documentation:
Fulfil customer expectations and requirements



Benefits, if you work

IN SERVICE & REPAIR

- ☐ Factory-to-Site service:
Fast direct delivery
- ☐ High-end spare parts:
Safe product choice and reliable solutions
- ☐ Extension of production uptime:
Added customer value
- ☐ Technical Support:
Specialist knowledge & advice
- ☐ Recognition of work and reputation:
Great customer satisfaction and retention

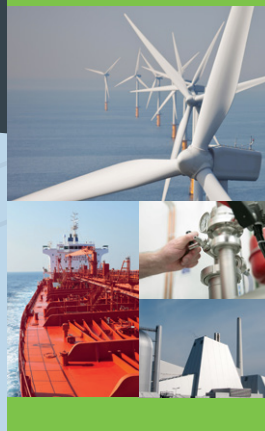




**EXTRACTION
PROCESS
FOODTECH**



**ENERGY
ENGINES
TRANSPORT**



**AUTOMATION
MACHINERY
ENGINEERING**



**ELECTRONICS
MEDTECH
FURNITURE**



We make things work better, and by improving your products or technical systems you become even more competitive.

The solution may be quite obvious or more complex, but our mission is always the same:

A partnership with Betech supports your business and contributes to more profitable operations and production.

*Improving
your
products™*

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