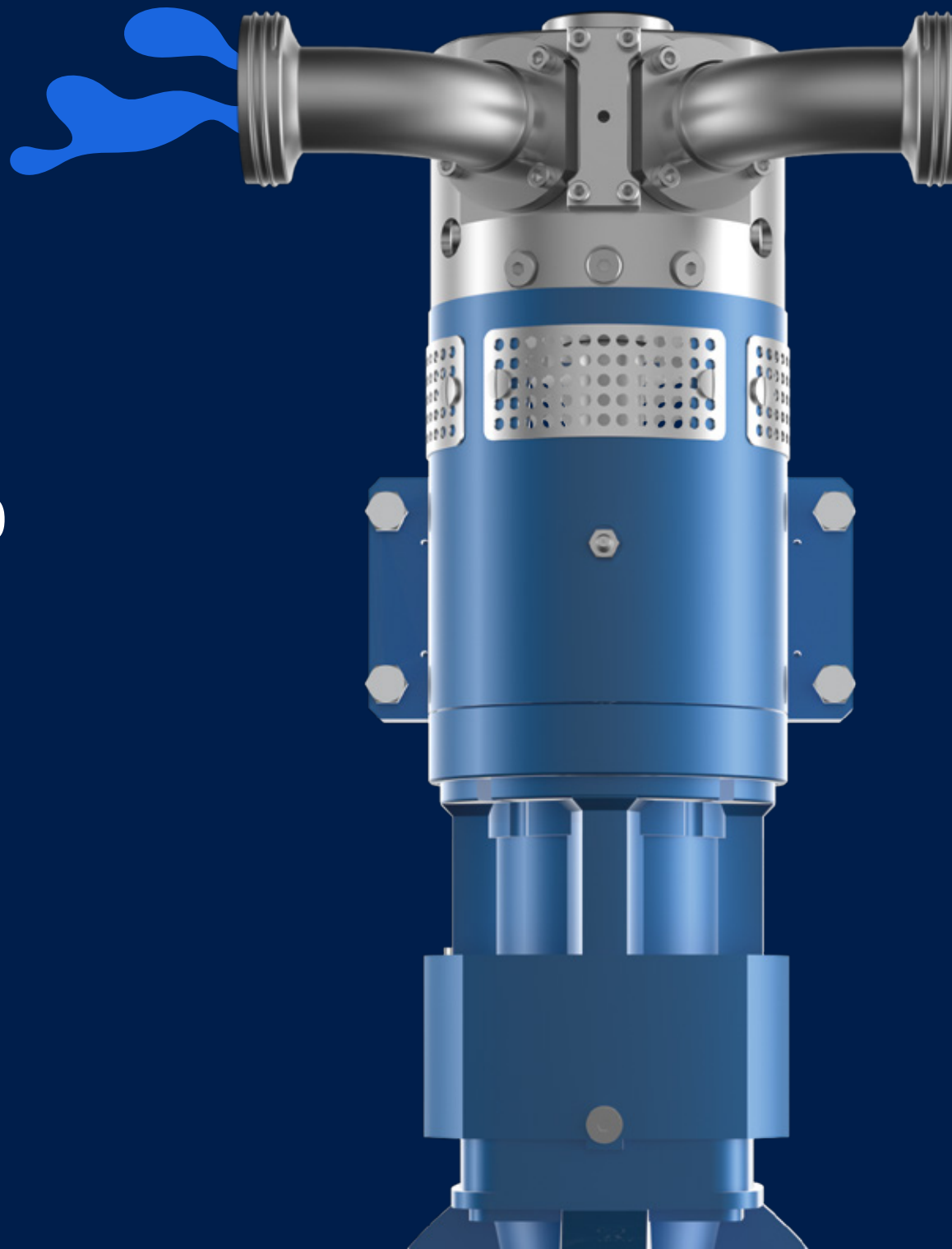


The wobble plate pump

Industrial pumps of
the latest generation.



01

Product informations

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Technical details

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Applications

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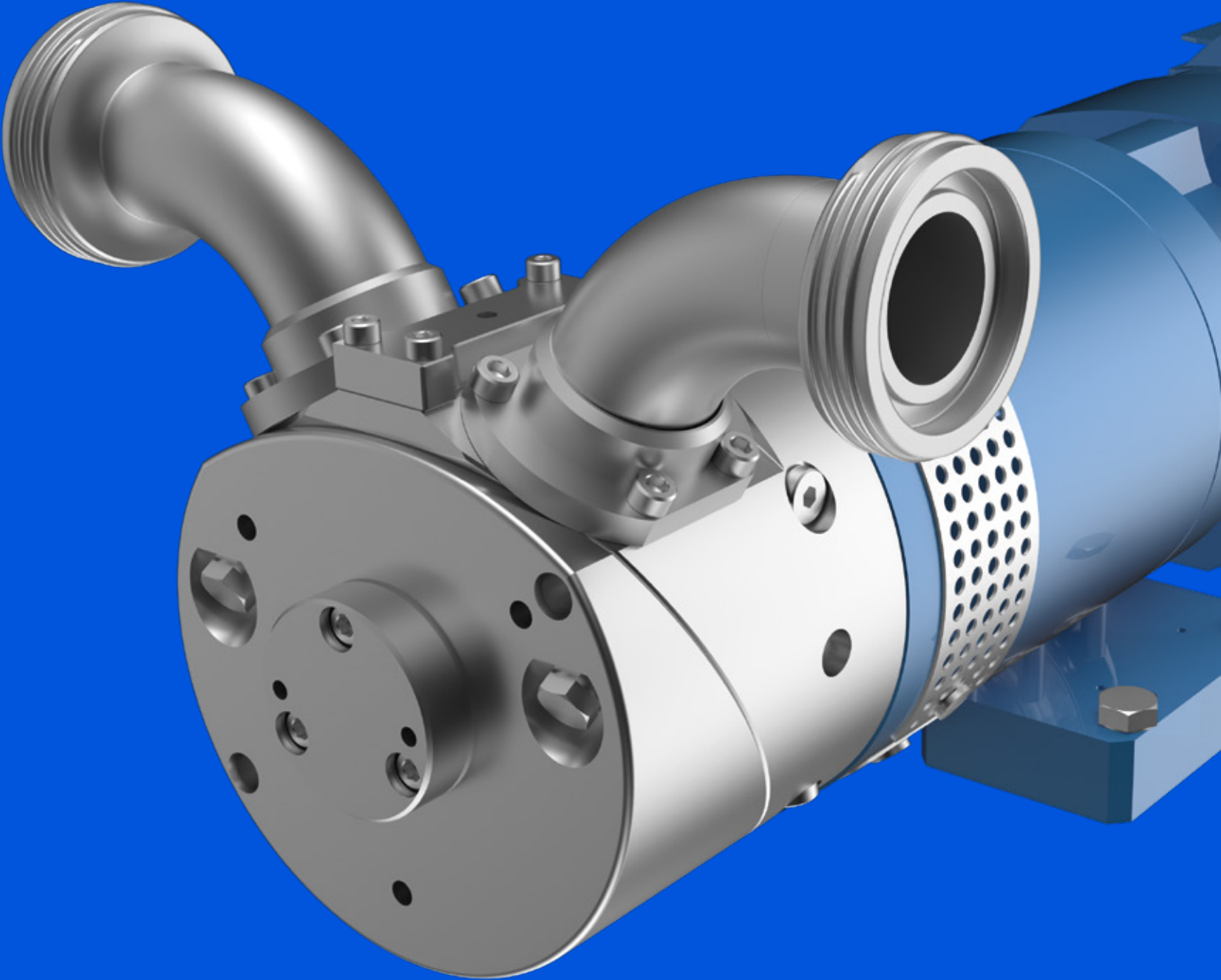
04

Company profile

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01



Industrial pumps of the latest generation

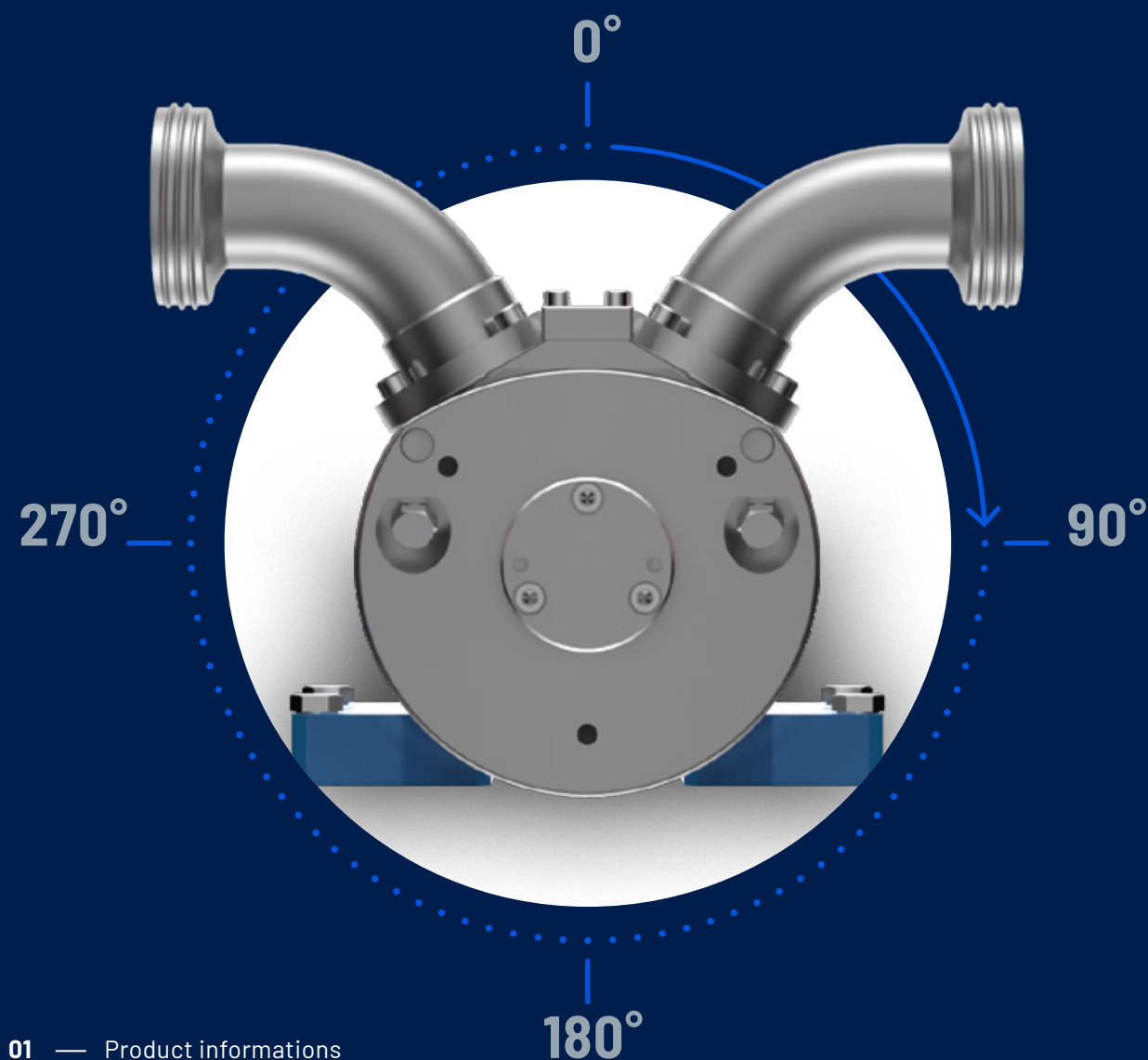
The innovative, patented wobble plate pump from Pumpsystems changes the image of what an industrial pump today should be able to do:

Gently handle highly viscous and semi-fluid media as well as media with suspended solids while also being extremely flexible to use and faster and easier to maintain. The pump chamber features few moving parts, making the pump remarkably energy efficient.



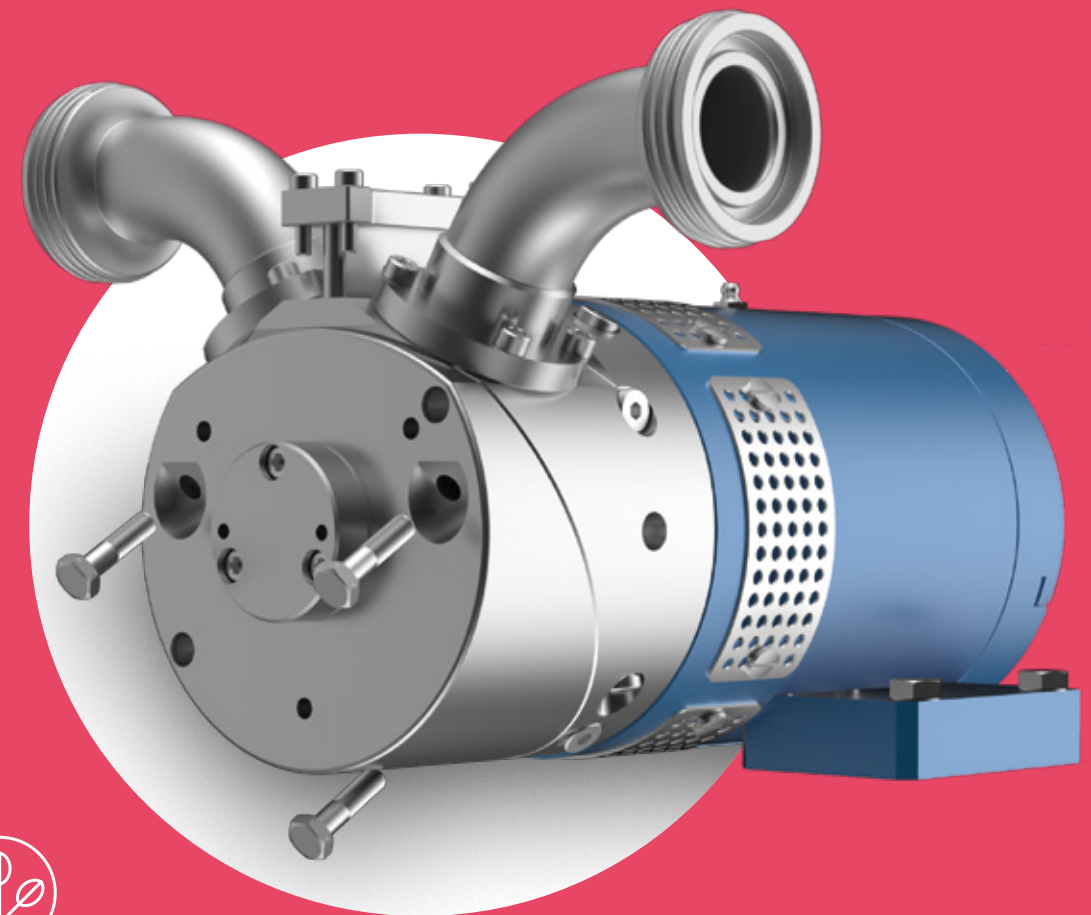
Maximum flexibility for custom-fit solutions

Rotatability of the pump head
for optimal adjustment
to the plant in 90° steps

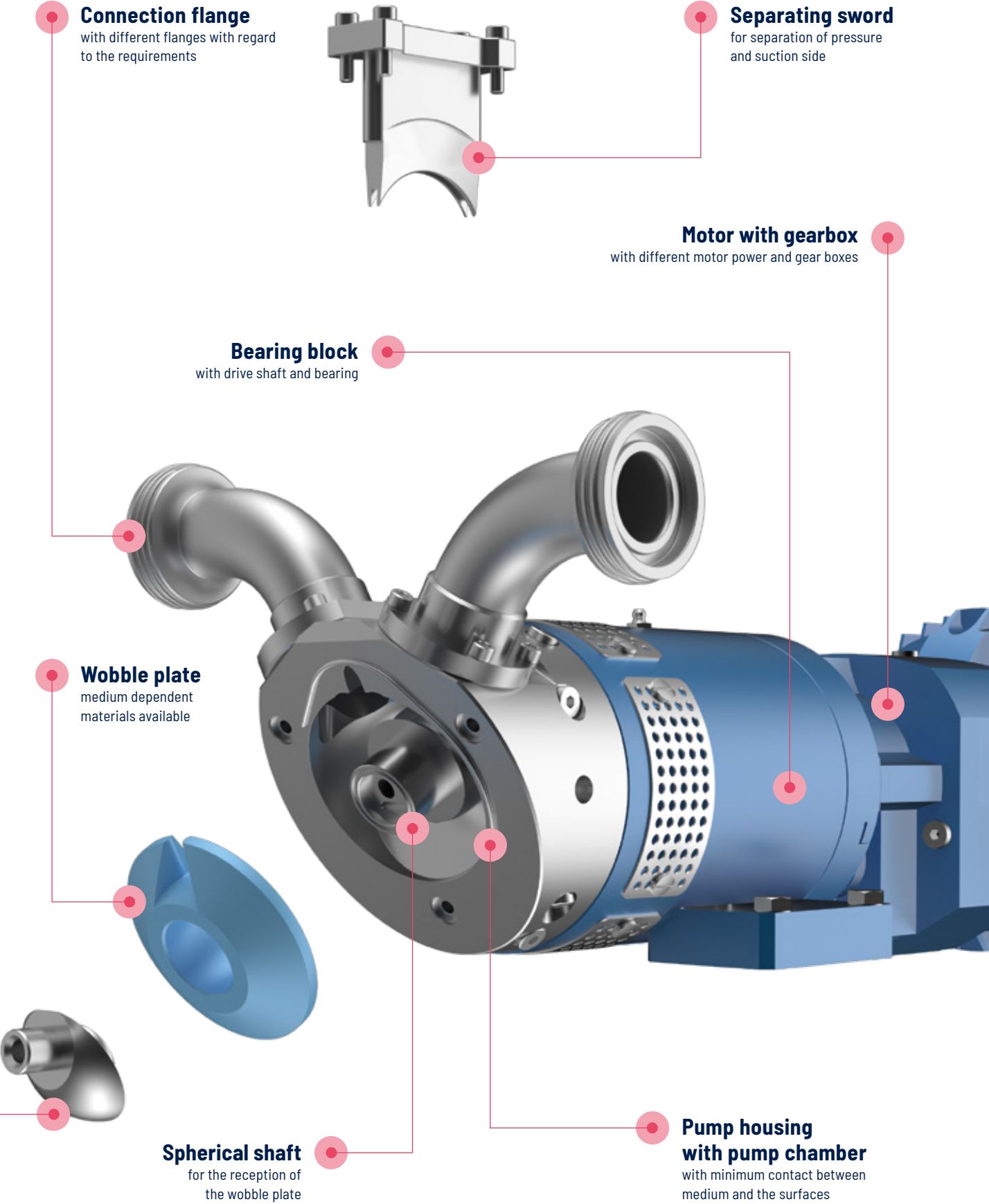
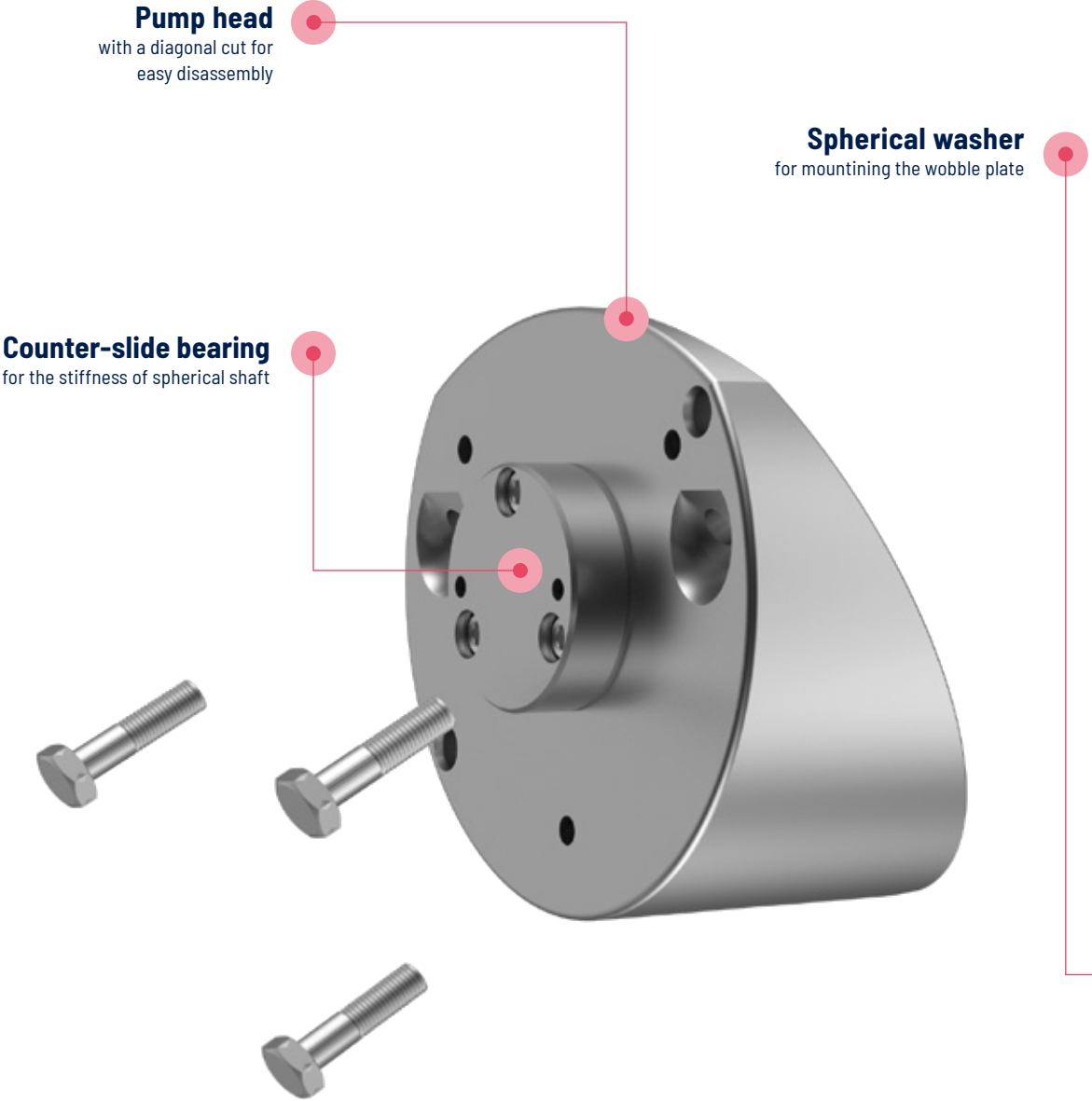


Maximum performance. Minimal maintenance. Especially sustainable

- Significant energy savings compared to other pump types
- Conserving resources due to the compact design
- High system availability and long service life
- Delivery volumes up to 30 m³/h
- Low wear
- Robust
- Maintenance and servicing within a few minutes
- Simple disassembly of the pump head allows quick cleaning and maintenance of the pump chamber with the piping connected
- CIP – Cleaning-In-Place
- SIP – Sterilization-In-Place



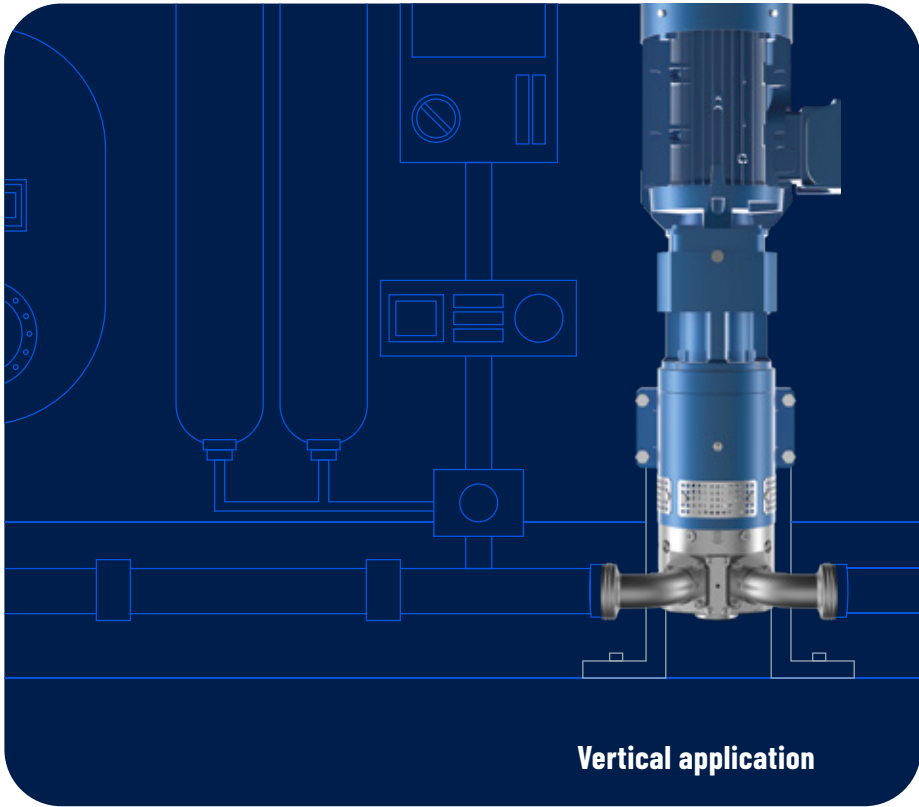
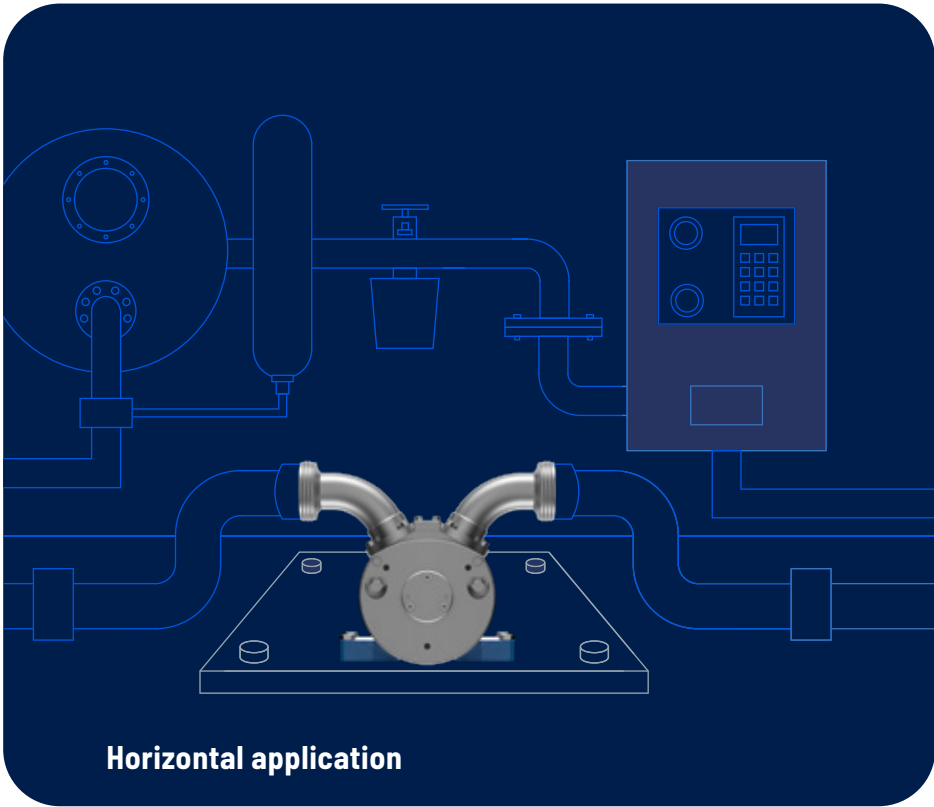
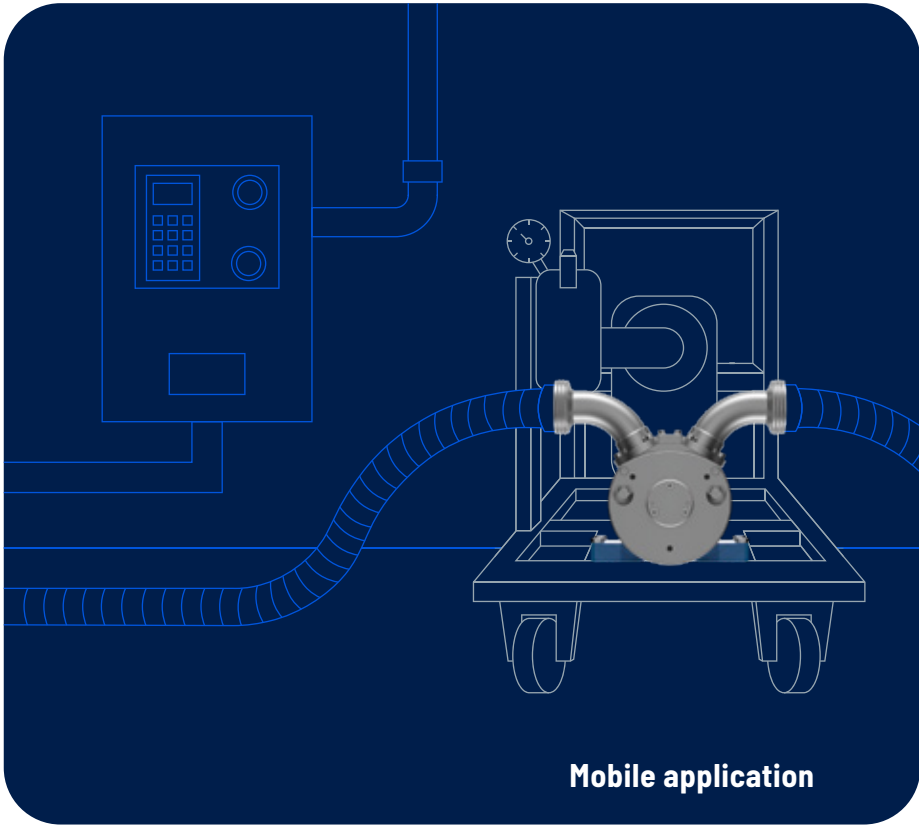
Our pumps are extremely flexible to work with



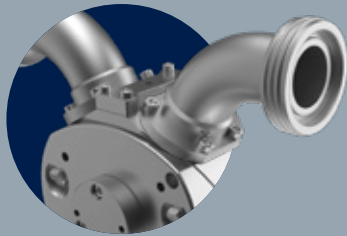
Always where you need them

Our pumps are extremely flexible to work with and are highly durable thanks to the stainless steel used as well as the non-corrosive surfaces. Since there are few moving parts in the pump chamber, our pumps are particularly hygienic and offer optimised, residue-free discharge.

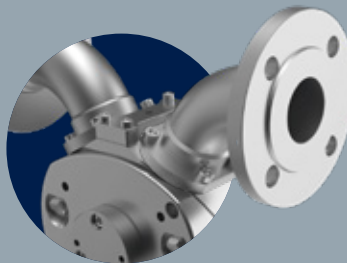
The media can be conveyed without problem at temperatures up to 205 °C. Our pump housings have optional heating and cooling. This allows the temperature of the medium to be controlled when operation is stopped or while pumping.



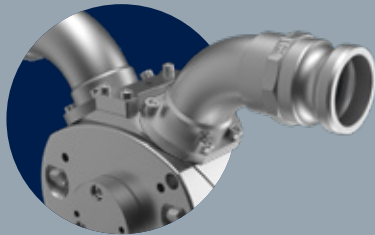
Choose from any relevant connection type



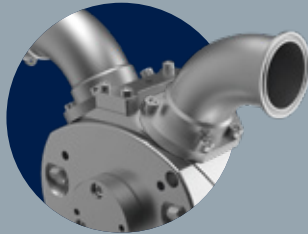
Dairy pipe



Flange



Camlock



TriClamp

Technical details

02

Consistent flow rate, low energy consumption, high effectiveness

Wobble plate pumps from Pumpsystems are perfect for modern applications. Thanks to their innovative design, they set standards in flexibility and can be used for a variety of applications, media and spaces. They are unrivalled in their ease of use and are simple and fast to clean, which helps to minimise costs. During the pumping process the pumped media are subjected to minimal stress. Even foaming or highly viscous media and media with suspended solids are conveyed gently.

And the pumps do this with unrivalled performance values up to 30,000 l/h, outstanding energy efficiency and exceptionally low-pulse operation.


All of this is possible thanks to a genuine innovation: our patented wobble plate principle is the perfected result of decades of development (first US patent in 1934, improved and reissued in 2015 and fully updated in 2021) and combines several of the advantages of various other positive displacement pump types into a single efficient design.

The wobble plate has already proven itself in practice and the pumps we have installed perform their task reliably and in a wide range of industries. Day after day, year after year.

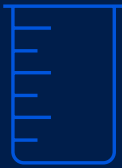


Features

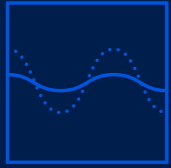
The wobble plate pumps from Pumpsystems can handle the most demanding tasks with high pump capacities even for the highest viscosities. The compact design and easy access to all components set standards in maintenance and cleaning. The use of stainless steel offers limitless application options in a wide variety of industries.




Gentle conveyance of pump media




Precise metering




Low-pulse pumping action




Mobile design available




Heating or cooling option




Sealing systems easily fitted on site




Compact design




Fast and easy to clean



CIP - Cleaning-In-Place



SIP - Sterilization-In-Place



Resource-saving & energy-efficient

Technical data

Our engineering department is constantly working on the refinement and improvement of the wobble ring pump. Construction experienced employees work to combine customer requirements with technological design requirements for low-impact pumping and cost-saving handling.



Pump capacities up to 30,000 l/h



Differential pressures up to 15 bar



Viscosities up to 1,000,000 mPa.s




Rated motor power up to 7.5 kW



Service and Maintenance within a few minutes



FDA-compliant



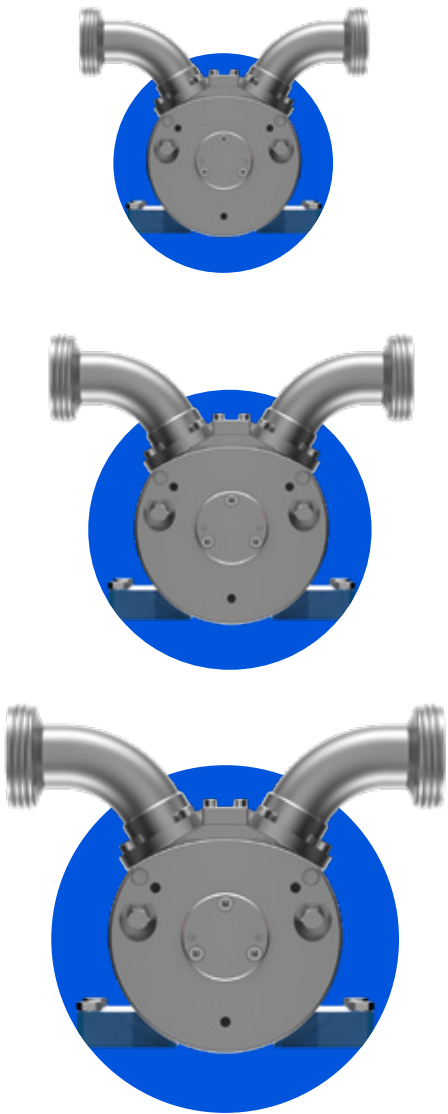
ATEX certified



4 x 90° rotating pump head

Overview of our pump models

Our standard product range includes three different models of wobble plate pumps, whose technical features vary depending on the application. This ensures that all standard industrial applications of the pump are covered. However, it is also possible to customise a pump to meet your specific requirements.



Model TR015

Our entry-level model to the world of wobble plate pumps. Reliable, durable and usable everywhere. For small to medium applications.

Model TR030

For all applications where both power and flexible handling are required. Our powerful mid-level pump for medium to large applications.

Model TR080

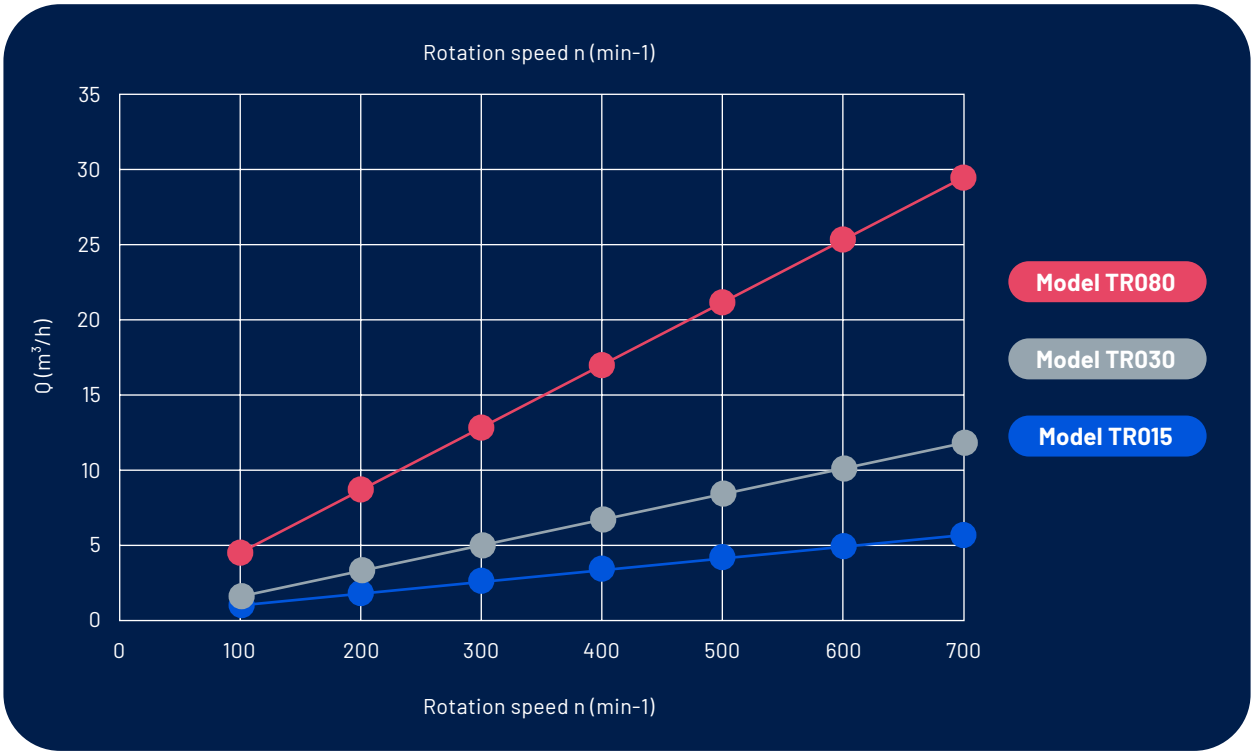
The powerhouse from Pumpsystems. Combines all of the advantages of our smaller models with a noticeable increase in power. For large industrial applications.

Dimensions, materials	Model TR015	Model TR030	Model TR080
Dimensions	Diameter: 150 mm Length: 316 mm (plus motor and gearing)	Diameter: 170 mm Length: 340 mm (plus motor and gearing)	Diameter: 210 mm Length: 440 mm (plus motor and gearing)
Weight	45 kg (plus drive)	90 kg (plus drive)	135 kg (plus drive)
Pump head material	Stainless steel	Stainless steel	Stainless steel
Wobble plate material	Plastic or metal (depending on medium)	Plastic or metal (depending on medium)	Plastic or metal (depending on medium)

Performance characteristics	Model TR015	Model TR030	Model TR080
Pump pressure	Up to 10 bar	Up to 15 bar	Up to 15 bar
Pump capacity *	Up to 6,000 l/h	Up to 12,000 l/h	Up to 30,000 l/h
Rated motor power	3 kW	5.5 kW	7.5 kW

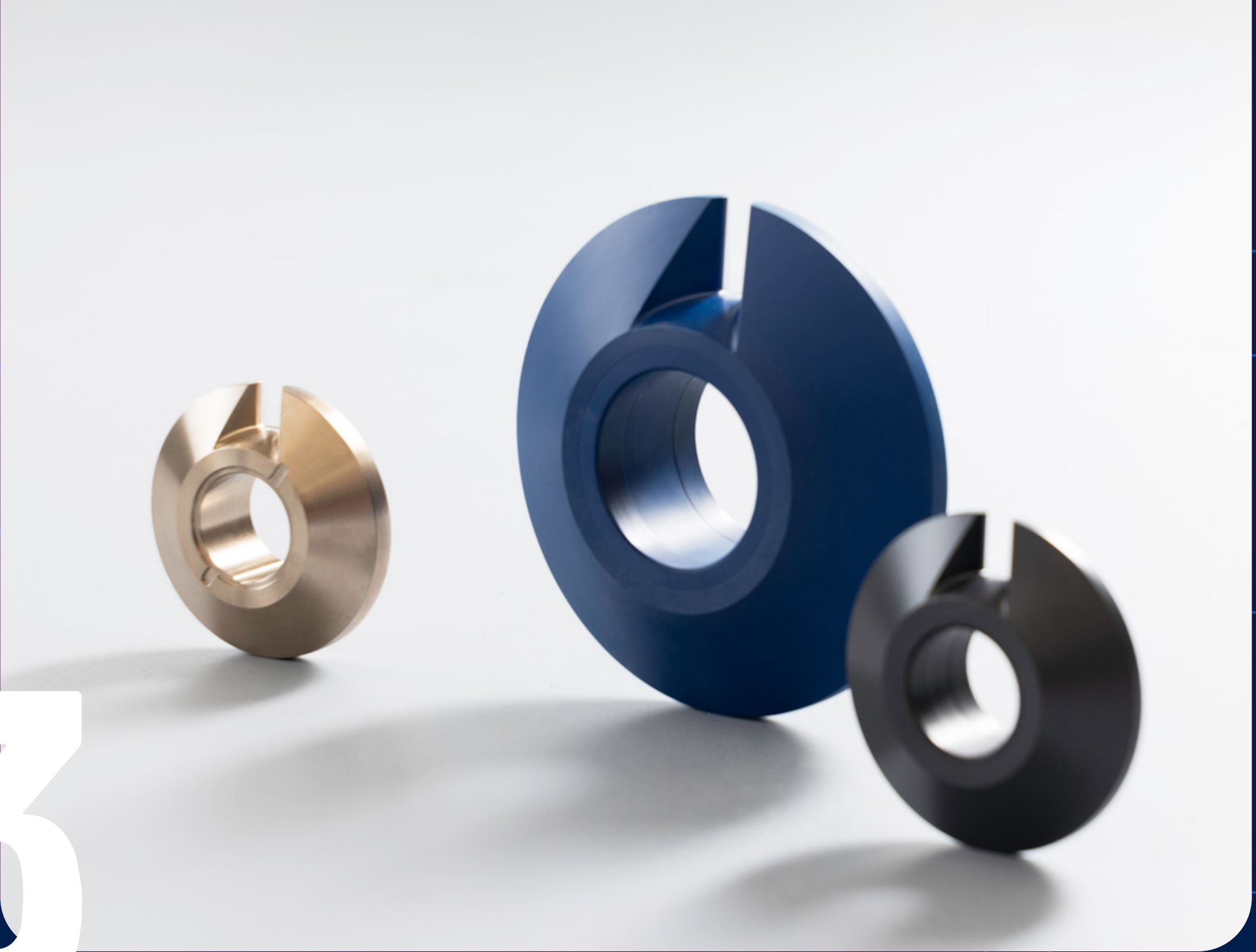
* Viscosity 1–5 mPa.s

Flow rate characteristics with water (18 °C) as medium



The performance values are theoretical. They are based on Newtonian viscosities of approx. 1.00 mPa.s. The rated motor power is individually adjusted, depending on the application. Water may be pumped only when using a suitable configuration or only when authorised by the manufacturer.

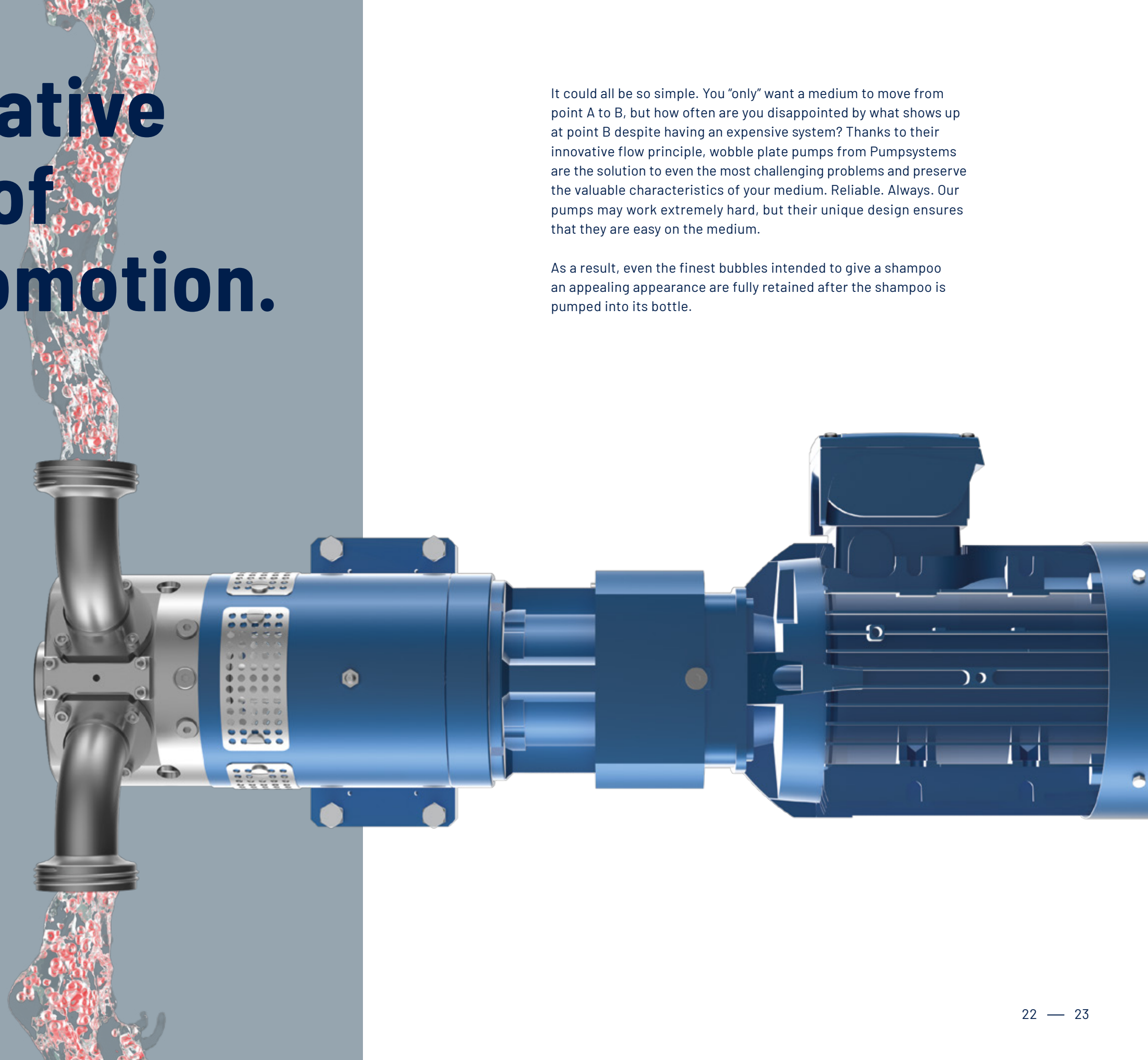
03



The innovative principle of gentle promotion.

It could all be so simple. You “only” want a medium to move from point A to B, but how often are you disappointed by what shows up at point B despite having an expensive system? Thanks to their innovative flow principle, wobble plate pumps from Pumpsystems are the solution to even the most challenging problems and preserve the valuable characteristics of your medium. Reliable. Always. Our pumps may work extremely hard, but their unique design ensures that they are easy on the medium.

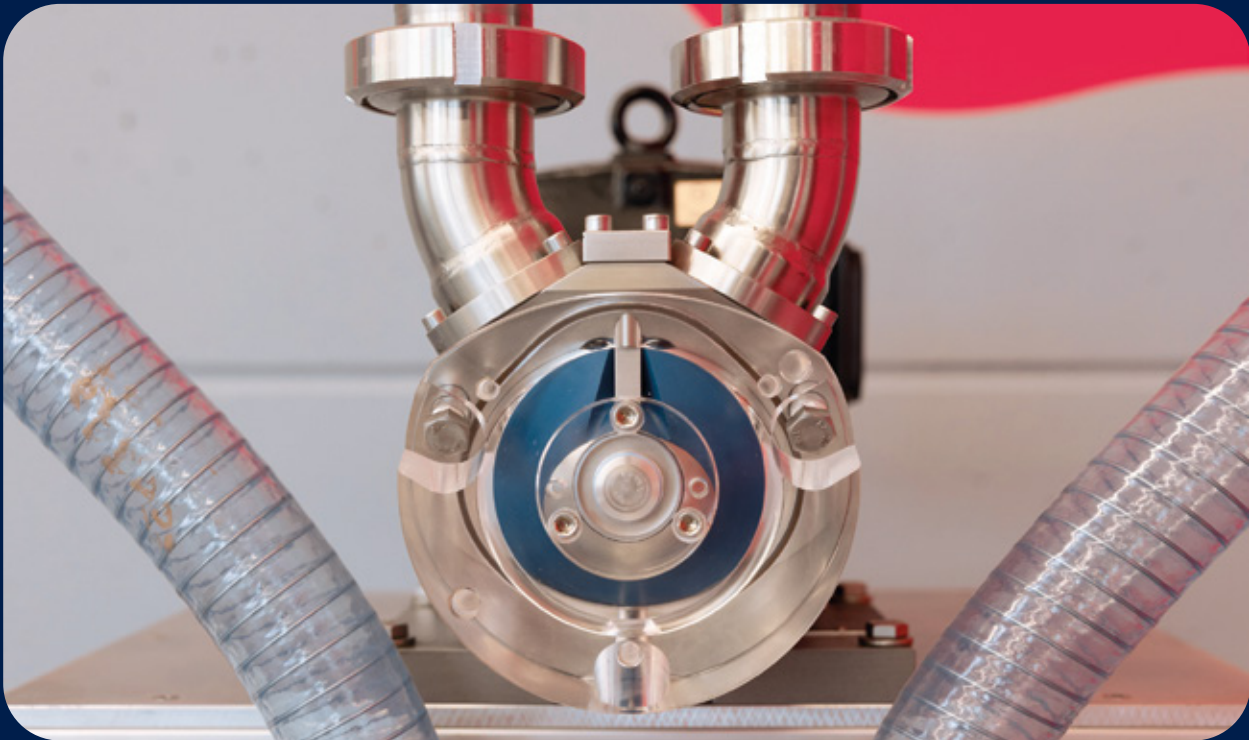
As a result, even the finest bubbles intended to give a shampoo an appealing appearance are fully retained after the shampoo is pumped into its bottle.



Our pumps in the industry

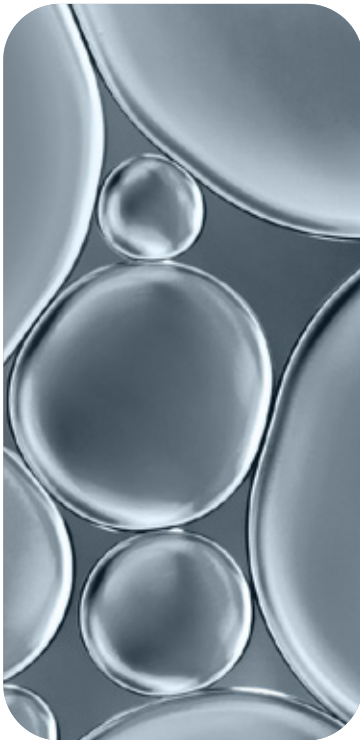
The principle of the wobble ring makes our pumps attractive for a wide range of industrial applications. Especially when it is important that the pumped medium is not damaged during the pumping process and that the desired consistency is maintained. Among others, our pumps are used in the following industries:

- Paints and varnishes industry
 - Adhesives and sealants industry
 - Pharmaceuticals industry
 - Cosmetics industry
- Basic chemicals industry
 - Oil industry
 - Petrochemical industry
 - Food industry



“Since introducing the pumps from Pumpsystems , we’ve noticed significantly less shear stress when pumping our medium. This helps it to maintain the desired consistency.”

Plant technician for a pharmaceutical company



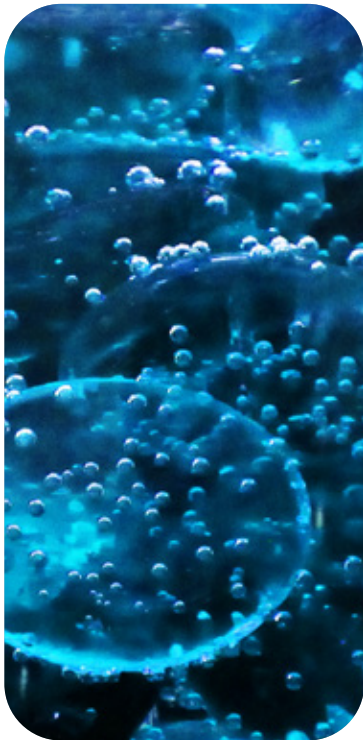
“Our cleaning time has been shortened significantly thanks to the new pumps from Pumpsystems. We can switch faster between different dispersion coating colours as a result, and more importantly we no longer have any contamination from the colour previously used in the pump.”

Plant technician from a paint and varnish company

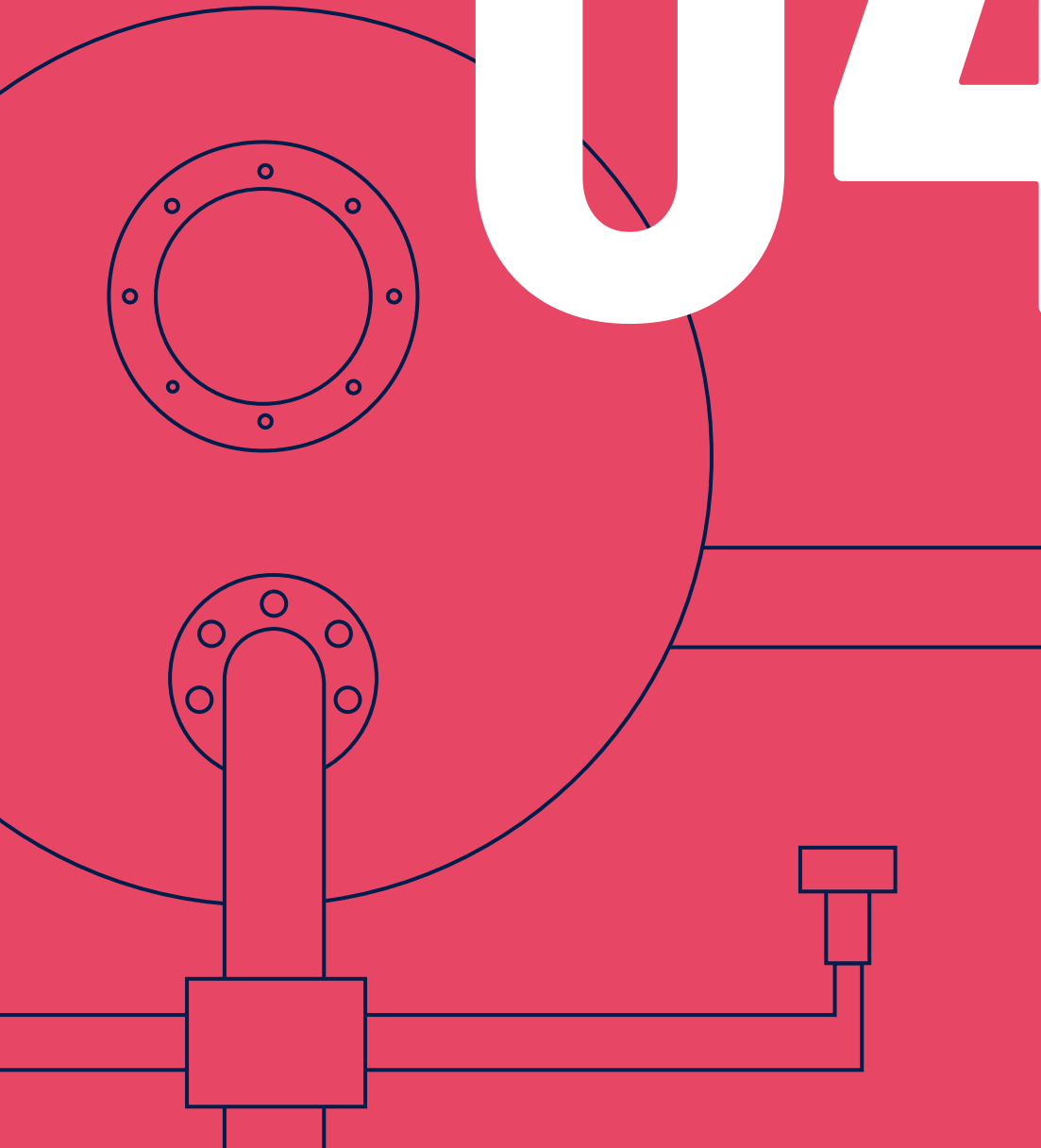


“The new pumps from Pumpsystems make it possible to fulfil the desired requirements for retaining air bubbles in the shampoo both during and after the pumping process. This allows us to offer our customers a more attractive product.”

Plant technician for a cosmetic company



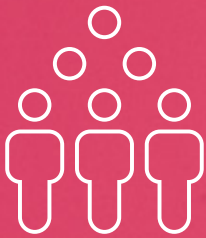
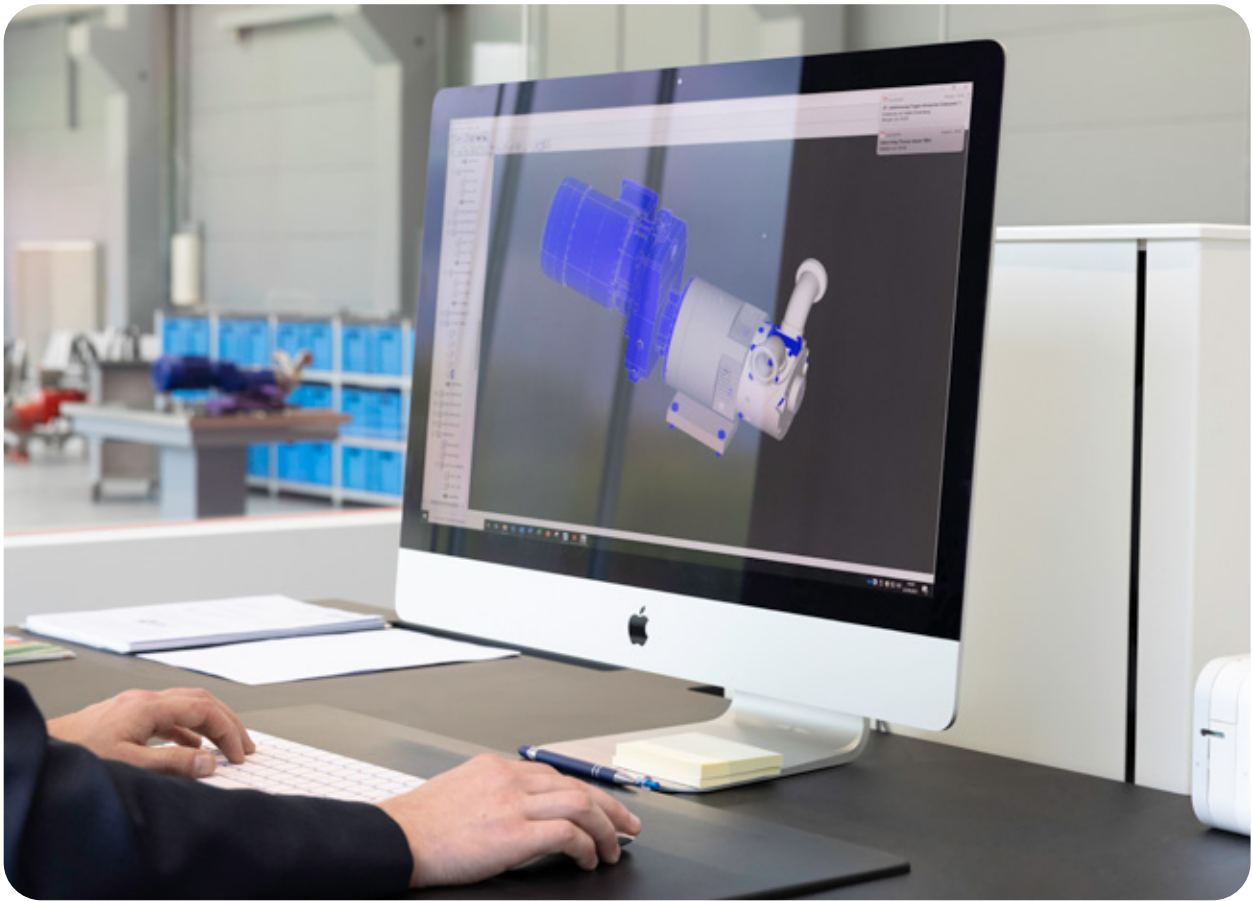
04



Established in 2014. Decades of experience.

The wobble plate pump's continued development into the pump we know today is based on a patented wobble plate principle, implemented by an experienced team of engineers. With a motivated team, adjustments tailored to suit particular customer requirements were made to achieve optimal pump capacities.

With this knowledge and experience gathered over many years, we are here to assist you as a sales and service team.



Team of experts
with extensive
know-how and many years
of experience



Range of standard pumps
and pumps that are customized for
various fields of application.



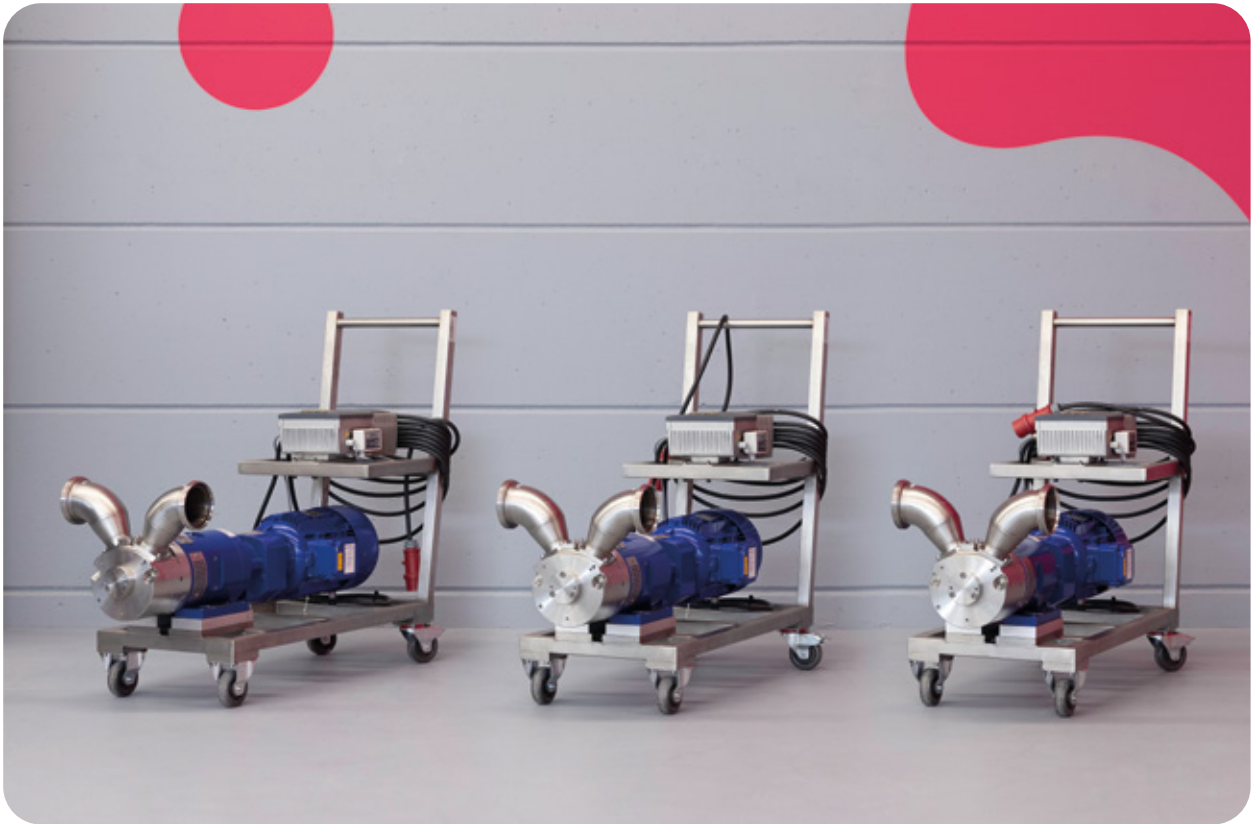
Made in Germany:
Product development and
manufacturing in Franconia



Try our pumps

To us, flexibility does not just apply to installation, areas of application and our customisations, but also to your preferred operating model. Whether buying or renting – the choice is yours.

To test whether our wobble plate pump is the best solution for your needs, we provide you with the opportunity to choose the right model from our pool of rental pumps. After speedy delivery, you can then carry out pump testing with our rental pump directly on site.



Available from stock:

- Standard pumps of sizes TR015, TR030 and TR080 preconfigured
- Spare parts such as wobble rings and seals
- Rental pumps in various configurations

We know what matters.

The shortest way is the best way. This also applies to our wobble plate pumps, which minimise the contact between working parts and the medium. The same is also true for our coordination between development engineers and technicians, allowing us to offer you fully customized solutions upon request. And it also applies to our advisers. Please feel free to contact us any time at info@pumpsystems.de or visit our website www.pumpsystems.eu



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save our contact details.



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