

Pumps & Systems

TORNADO® Rotary Lobe Pumps

Mobile Pumps – Safe and Flexible at Any Location



NETZSCH Pumps & Systems – Solutions you can trust ■

TORNADO® Rotary Lobe Pumps – High Performance, Reliability and Maintenance in Place

TORNADO® Mobile – Nothing moves more

The TORNADO® Mobile combines flexibility and independence for a mobile unit with the proven technology of a rotary lobe pump from NETZSCH. The TORNADO® Mobile is based on NETZSCH's many years of experience in developing universally usable mobile rotary lobe pumps.

The self-priming, valveless NETZSCH TORNADO® positive displacement pumps are very powerful and are optimised to your individual requirements. They are used for continuous and gentle delivery as well as speed proportional dosing of almost all media.

Broad application spectrum

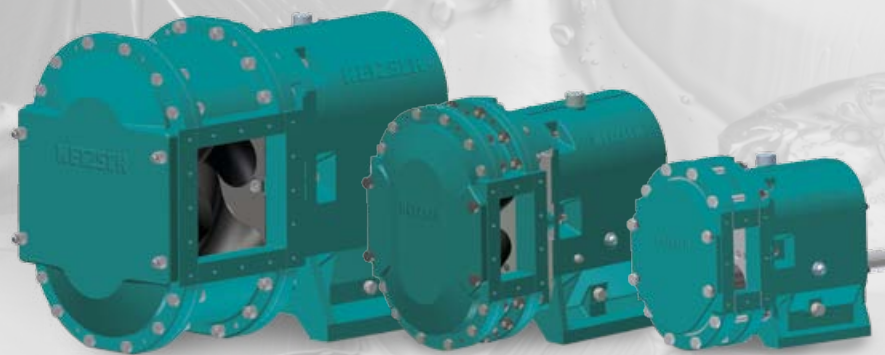
The pumps are primarily used with media that have the following features:

- Containing solids (max. particle size up to 70mm) and free of solids
- Low to high viscosity (1 mPas up to 1 million mPas)
- Thixotropic and dilatant
- Shear sensitive
- Abrasive
- Non-lubricating and lubricating

Pumping capacities and pressure range

Size	Pumping volumes (L/rotation)	Pressure (bar)
MB-1	0,47	6
MB-2	0,67	6
XB-1	1,27	6
XB-2	1,90	6
XB-3	2,53	5
XB-4	3,80	4
XLB-1	3,56	6
XLB-2	5,03	6
XLB-3	7,12	4
XLB-4	10,06	4
XLB-6/2	20,12	4
XLB-8/2	30,18	3

Standard pressure is up to 6 bar, we offer customised solutions for higher pressure.

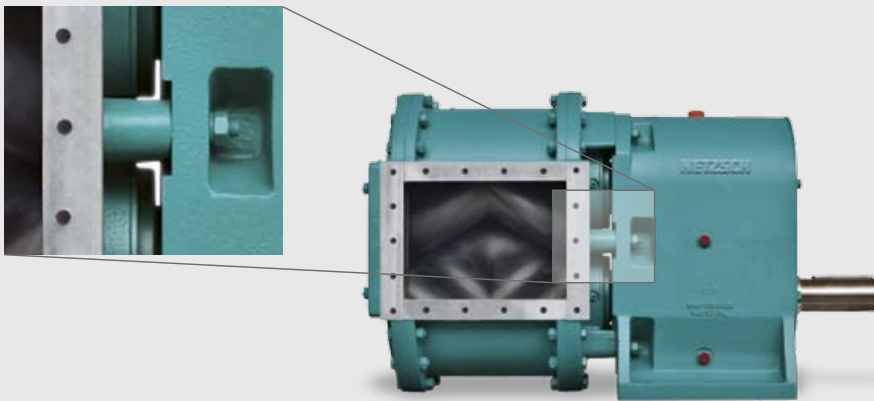


TORNADO® XLB-Range

TORNADO® XB-Range

TORNADO® MB-Range

TORNADO® Rotary Lobe Pumps are outstanding



Long-term reliability

NETZSCH GSS technology (Gearbox Security System) guarantees the utmost operational safety through special separation between the pump and gear area.

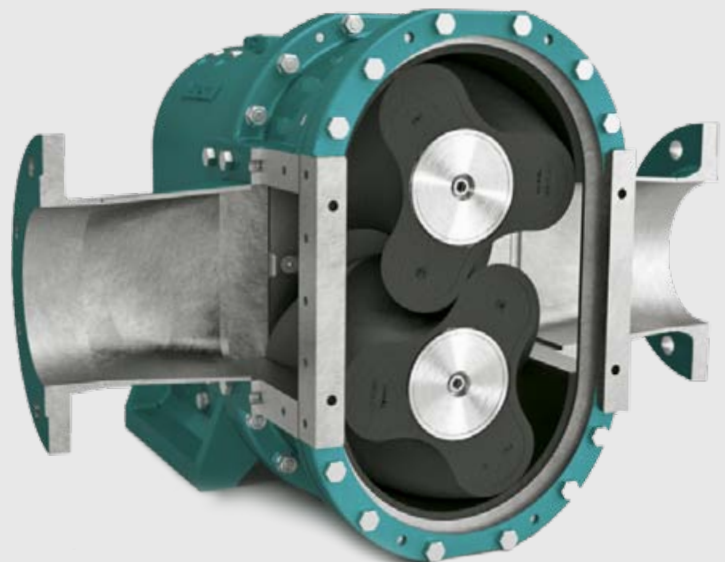
- Provides positive separation between pump head/product seals and pump gear box
- Protects bearing and timing gears extending operational life time
- Eliminates product ingress into gear box in the unlikely event of product seal failure
- Eliminates the risk of gear oil ingress into the pump media
- Reduces product seal replacement costs

Ease of service on site

The NETZSCH TORNADO® rotary lobe pump offers considerably longer service intervals because of its modular housing structure, the individually exchangeable housing shells and the mechanically and chemically resistant wear protection plates. If a service is required, all necessary areas are easy to access once the housing cover has been opened.

High Performance

NETZSCH TORNADO® rotary lobe pumps stand out for their high level of efficiency. Pumping capacities of 1 to 1,000 m³/h for countless applications demonstrate their top performance.



TORNADO® Mobile – Rotary Lobe Pumps for Flexible Use

Design examples for mobile TORNADO® Rotary Lobe Pumps

TORNADO® XLB-6/2 for pumping waste water with 3% solid content. Pumping capacity 250 to 450 m³/h at 2.8 bar. Set-up on tandem trailers with diesel unit with 60 kW capacity and an integrated 100L tank.

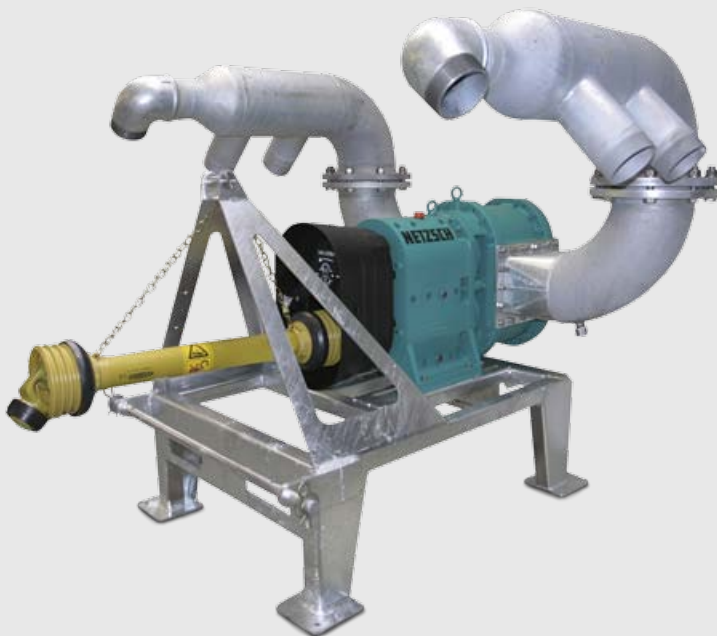


TORNADO® XLB-4 for pumping between 100 and 220m³/h waste water at 2 bar. Set-up on a stable single-axle trailer with diesel unit 90 KW and in-built 90L tank. Integrated control for over and negative pressure, along with a dry running sensor. Complete unit with soundproof enclosure.





TORNADO® XLB-4 for pumping liquid manure. Pumping capacity 300m³/h at 0.5 bar. Version for pump tankers.



TORNADO® XLB-4 for pumping 300 m³/h water, sludge or liquid manure as a mobile pumping station. Driven by tractor power take off. External thread for connecting different coupling parts such as Perrot, Stortz or similar.

TORNADO® Mobile – Rotary Lobe Pumps for Flexible Use

Design examples for mobile TORNADO® Rotary Lobe Pumps

TORNADO® XB-2 for pumping between 12 and 40 m³/h waste water at 2 bar. Connectors with tanker coupling in ergonomic S shape. Hand wheel for regulating the pumping capacity.



TORNADO® XLB 3 for pumping between 50 and 220 m³/h sludge at 2 bar. A-connection via distributor with two suction and pressure connections each, including a stone catcher box on the suction side. Assembled on a trailer with a tandem axle.



Anything is possible!

We can build your individual TORNADO® Mobile customised for your application and especially for your use. With our many years of experience and with the open-mindedness of a technology leader we are ready for any challenge. The pumping capacity, drive and chassis are designed precisely to the features of the pumping medium and the purpose.

Highly diverse material and shaft seal variants cover virtually all applications in the areas of farming, environmental technology, chemistry and paper as well as oil and gas.

We always have the right solution on hand for you.



The NETZSCH Group is an owner-managed, internationally operating technology company headquartered in Germany.

The three Business Units – Analyzing & Testing, Grinding & Dispersing and Pumps & Systems – provide tailored solutions for highest-level needs. Over 2,500 employees at 130 sales and production centers in 23 countries across the globe guarantee that expert service is never far from our customers.

The NETZSCH Business Unit Pumps & Systems offers NEMO® progressing cavity pumps, TORNADO® rotary lobe pumps, screw pumps, macerators/grinders, dosing systems and equipment custom built and challenging solutions for different applications on a global base.