

NETZSCH

Proven Excellence.



PERIPRO® Peristaltic Pumps

Heavy duty construction for demanding applications

Pumps & Systems

NETZSCH PERIPRO® Peristaltic Pumps

HEAVY DUTY HOSE PUMPS WITH LARGE ROLLERS FOR LONGER SERVICE LIFE

NETZSCH technology for peristaltic pumps

- Excellent resistance to abrasion
- High suction capability
- Insensitive to dry running
- No valves or mechanical seals
- Low shear and reversible pumping
- Full metering control
- Industrial, Chemical and Food versions
- Metering accuracy of $\pm 1\%$
- Up to 70 % solids in conveyed product

Advantages of PERIPRO® pumps

- No need for mechanical seals
- Product only contacts elastomer
- High volumetric efficiency
- Heavy duty large rollers
- Ease of hose replacement

The unlimited dry running and the suction capacity of up to 13.5 psi (9.5 mWc) complement the advantages of the PERIPRO® pumps.

Ideal for complex fluids

- Abrasive products: Lime milk, activated carbon, sludges and slurries, among others
- Corrosive products: Sodium hypochlorite, ferric chloride, hydrochloric acid, etc.
- Viscous products: Water-based glues, greases, creams, resins, etc.
- Delicate products: Latex, polymers and flocculants, food products, etc.

The PERIPRO® peristaltic pumps are available in three different versions: Industrial, Chemical, and Food.

Advantages of PERIPRO® pumps compared with shoe technology

- Energy savings of up to 30 %
- 90 % less lubricant required
- Ease of hose replacement
- Wide range of operation
- Low starting torque eliminates the friction against the hoses

The Design of the PERIPRO®

1 Latest technology of peristaltic pumps

The materials used are compatible with many products and in many applications. Several options for materials of construction increase the range of application. The performance under abrasion, corrosion and temperature requirements are excellent.

2 Saving on hose consumption and ease of installation

High quality hose with unique manufacturing process: extruded inner layer with high-density textile reinforcement and precisely machined outer layer. Due to controlled tolerances, the hose ensures optimal compression and fast installation.

3 Robust construction to support up to 145 psi / 10 bar

Integrated oversized bearings designed to support radial loads, large metal rollers with oversized bearings, safe and reliable connection system and extremely robust construction materials optimizes the pump for demanding applications.

4 XXL roller technology reduces energy consumption and so increases efficiency

Due to the size of the rollers, the hose is optimally compressed. This leads to more efficiency, low energy consumption and a longer hose life. The starting torque is minimal and the operation simple.

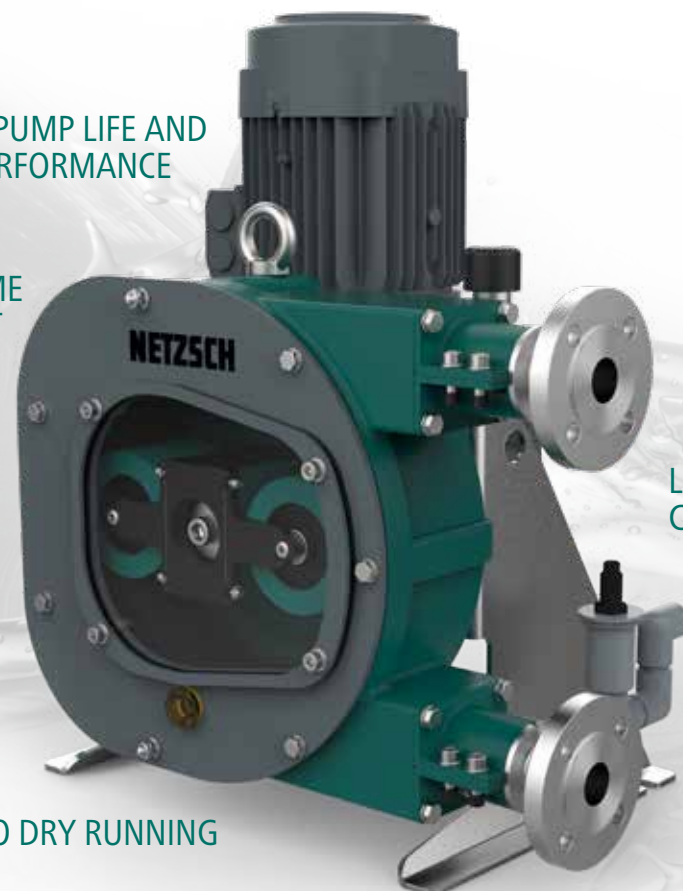
UNMATCHED PUMP LIFE AND EXCELLENT PERFORMANCE

SMALL VOLUME OF LUBRICANT

IDEAL FOR ABRASIVE FLUIDS

LOW SHEAR

INSENSITIVE TO DRY RUNNING



LOWER ENERGY COSTS

VERY FEW WEAR-PARTS

ROBUST PUMP TECHNOLOGY



PERIPRO® Pumps for a Wide Range of Flow Applications

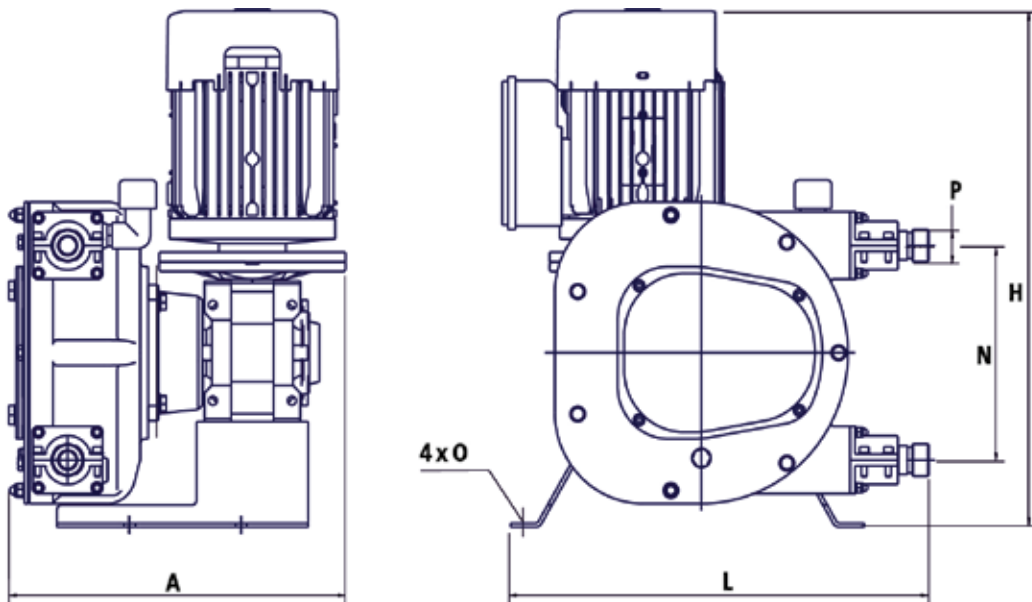
For accurate metering, robust and efficient pump flows

The NETZSCH PERIPRO® pump, has a compact, vertical design with a hose compression system with XXL rollers. This hose compression system with maximum surface contact, together with a differentiated and technically advanced manufacturing process, maximizes service life and minimizes maintenance and operating costs.

The robustness of the pumps is based on a compact and a simple mounting system as well as on

the unique design and precision of the component's construction materials that are protected against corrosion and hardened to support extra loads.

- The NETZSCH PERIPRO® does not require valves nor mechanical seals.
- Hose material: NR, EPDM, NBR (FDA approved) & Hypalon®
- Connections: AISI 316 Stainless Steel, PP, PVDF (PTFE)



NETZSCH - PERIPRO® Peristaltic Pumps																			
Model	Max. Flowrate (continuous)		Max. Temperature max.		Discharge pressure (max.)		Capacity		Inner Hose Diameter		A		H*		L		N		P ANSI Flange connections
	approx. gph	approx. l/h			psi	bar	gal/rev	l/rev	in	mm	in	mm	in	mm	in	mm	in	mm	
10/0.1	54	200	176 °F	80 °C	145	10	0.011	0.043	0.51	13	9.46	240.3	14.44	367	12.01	305	4.57	116	1/2"
10/0.3	137	520	176 °F	80 °C	145	10	0.029	0.109	0.63	16	11.5	292.1	17.18	436.5	14.86	377.6	7.68	195	3/4"
10/0.7	290	1,100	176 °F	80 °C	145	10	0.059	0.227	0.87	22	14.2	360.6	19.21	488	17.7	449.5	8.82	224	1"
10/1.4	500	1,900	176 °F	80 °C	145	10	0.124	0.47	1.1	28	15.05	382.3	24.68	627	20.35	517	10.39	264	1"
10/2.7	1,000	3,700	176 °F	80 °C	145	10	0.235	0.89	1.38	35	16.08	408.6	26.65	677	22.95	583	12.99	330	1-1/4"
10/5.1	1,850	7,000	176 °F	80 °C	145	10	0.446	1.69	1.69	43	31.52	800.6	25.79	655	27.56	700	16.93	430	1-1/2"
10/11.1	3,500	13,300	176 °F	80 °C	145	10	0.98	3.71	2.16	55	37.29	947.1	32.28	820	32.28	820	21.81	554	2"
10/23.7	6,200	23,700	176 °F	80 °C	145	10	2.08	7.9	2.75	70	37.68	957	42.09	1069	41.97	1066	29.37	746	2-1/2"
10/40.5**	7,500	28,500	176 °F	80 °C	145	10	3.55	13.5	3.35	85	42.52	1080	48.7	1237	49.7	1263	34.49	876	3"
10/66	10,320	39,060	176 °F	80 °C	145	10	5.7	21.7	4	100	53.15	1350	56.3	1430	58.43	1484	41.02	1042	4"

*Depending on the driver, dimensions could change.
**Size scheduled for release in November 2025

Application

THE BEST SOLUTION IN MANY INDUSTRIES

The PERIPRO® peristaltic pumps optimized design provides metering, an important advantage in applications in many markets. This pump handles product with high solids content, abrasive materials, product that must not be contaminated, corrosive product and more. The pump components are durable and easy to replace.

Water Treatment

- Pumping or conveying of sludges and slurries
- Metering of
 - activated carbon
 - lime milk
 - sodium hypochlorite
 - ferric chloride (FeCl_3)
 - polymers
 - flocculants
- Sampling



Food, Beverage and Cosmetic Industries

- Pumping of diatomaceous earth
- Transfer of viscous juices and sauces or with solid pieces in the mixture
- Various additives, colorings and flavorings for food
- Feeding to filling machine



The Mining Industry

- Transfer of mineral slurries
- Metering of cyanide and xanthate
- Transfer or metering of polymers
- Metering of reagents



Chemical Industry

- Metering of
 - pigments and water-based paints
 - resins
 - detergents
 - creams
 - water-based glues
 - all types of acid
 - base corrosive chemicals
- Transfer of highly abrasive products such as titanium dioxide



Ceramics and Construction

- Metering of very abrasive products such as barium carbonate and potassium permanganate
- Transfer of ceramic slurries
- Metering of additives and colorings for the cement
- Transfer of low density cement



Paper Industry

- Metering of chemicals and paint
- Transfer of paper pulp
- Metering of lime milk
- Metering of additives and colorings
- Metering and transfer of glues



The owner-managed NETZSCH Group is a leading global technology company specializing in mechanical, plant and instrument engineering.

Under the management of Erich NETZSCH B.V. & Co. Holding KG, the company consists of the three business divisions Analyzing & Testing, Grinding & Dispersing and Pumps & Systems, which are geared towards specific industries and products. A worldwide sales and service network has guaranteed customer proximity and competent service since 1873.

The NETZSCH Business Unit Pumps & Systems offers NEMO® progressing cavity pumps, TORNADO® rotary lobe pumps, NOTOS® multi screw pumps, PERIPRO® peristaltic pumps, macerators/grinders, dosing technology and equipment that are custom built for challenging solutions for different applications globally.

Proven Excellence. ■

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