

# NETZSCH

Proven Excellence.



## NETZSCH Large Capacity Pumps

Face even the biggest challenges with the latest technology:  
High Performance Pumps for the Oil & Gas and Mining Industries

Pumps & Systems

# NETZSCH L.Cap<sup>®</sup> pumps

## LARGE FLOW RATES AT HIGH PRESSURE

Typically in Oil & Gas and Mining applications the demand for larger pumps delivering higher flow rates and higher pressure is growing faster than in other industries. Consequently, NETZSCH has developed its range of L.Cap<sup>®</sup> high performance pumps for flow rates up to 4405 gpm / 1000 m<sup>3</sup>/h and pressures up to 300 psi / 20 bar. Over the last 10 years NETZSCH has not only sold more than 280 pumps for multiphase applications but among them also the largest progressing cavity pumps currently used anywhere in the world.

### Typical Applications

- Pumping of oil, gas and water mixtures containing solids (multiphase pumps)
- Pumping media with very high solid contents or large particles
- Transfer of crude oil, produced water, oil sea water and mud sea water, also over long distances
- Transfer of mineral slurries
- Mine dewatering
- Pumping of drilling sludge, slurries and cuttings
- Transfer of sewage and mud
- Transfer of hydrocarbon condensate
- Tank emptying and cleaning

### Major Advantages

- Stable flow
- Almost pulsation-free pumping
- Near to no shear
- Efficient transport of highly viscous products
- High content of sand and/or gas
- Handling of multiphase liquids
- Low NPSH requirements
- Low operating and maintenance cost
- Fewer wearing parts
- High efficiency and reliability



Transfer pump for crude oil in Russia



Slurry pump for coal mine in USA

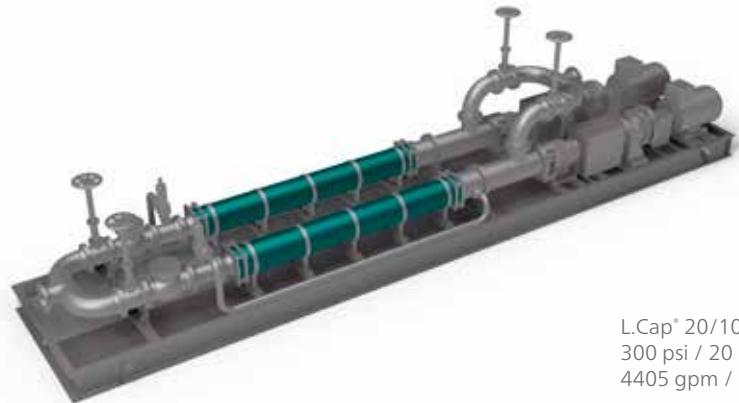


Oil loading pump in Brazil

The highest standards for equipment and safety are a basic requirement to ensure that processes remain safe and reliable. Considering the complexity of pump media the sophisticated and reliable NETZSCH design meets the particular pump job requirements and contributes to efficient process control. NETZSCH pumps meet the requirements of API 676 3<sup>rd</sup> edition and also NACE MR-0-175.

### L.Cap® Twin Version

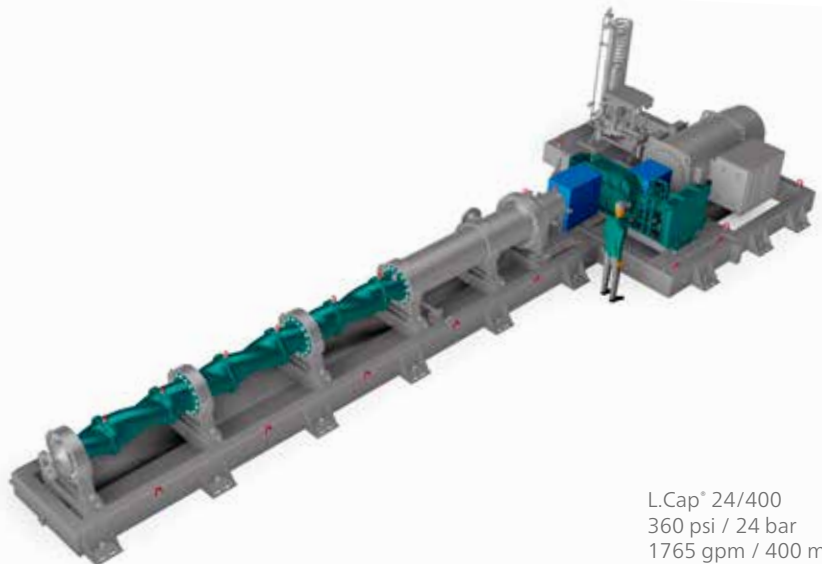
The twin version has been designed for higher flow rates of up to 4405 gpm (1000 m<sup>3</sup>/h) and pressures of up to 300 psi (20 bar), depending on the selected geometry. The system consists of two pumps in parallel mounted on one base plate. The suction and discharge connections of the pumps are fitted with manifolds so that there is only one process connection for the inlet and one for the outlet. Both pumps are typically run simultaneously but can be operated separately during service works, too.



L.Cap® 20/1000  
300 psi / 20 bar  
4405 gpm / 1000 m<sup>3</sup>/h

### L.Cap® Single Version

This single high performance pump has been designed for larger flow and pressure applications, typically for produced emulsions for oil applications and mine dewatering. They are also used for the transfer of mineral slurries – replacing installations of multiple centrifugal pumps installed in series or piston pumps.



L.Cap® 24/400  
360 psi / 24 bar  
1765 gpm / 400 m<sup>3</sup>/h



## L.Cap® Vertical Version

This compact and highly efficient pump has been designed for in tank applications, e.g. to transfer a large variety of viscous media, also containing solids from tanks or other containers. Particular design attention has been paid to protect the pump from dry running.

Which technology we recommend to you depends on the unique features of your application and the particular working conditions. However, what you can be absolutely sure of is that we will always offer you the best solution!

L.Cap® 24/300  
360 psi / 24 bar  
1320 gpm / 300 m<sup>3</sup>/h



NETZSCH Pumps North America, LLC  
119 Pickering Way  
EXTON, PA 19341-1393  
USA  
Tel.: 610 363 8010  
Fax: 610 363 0971  
npa@netsch.com

NETZSCH Canada, Incorporated  
500 Welham Road  
Barrie, ON L4N 8Z7  
Canada  
Tel.: 705 797 8426  
Fax: 705 797 8427  
ntc@netsch.com

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[www.netsch.com](http://www.netsch.com)