Overview
Company, Technology and Application Areas
The Gebrüder NETZSCH Maschinenfabrik (NETZSCH Brothers Machine Works), founded in 1873, was the starting point for today’s NETZSCH Group still head-quartered in Selb, Germany, and has since become an international family-owned enterprise with over 3,000 employees working at 140 locations in nearly 30 countries on five continents.

The three Business Units, Analyzing & Testing, Grinding & Dispersing and Pumps & Systems, operate independently with the goal to offer the customer the best solution for his particular application. The result of over 140 years of engineering experience is both technological and market leadership.

Under the umbrella of the Erich NETZSCH GmbH & Co. Holding KG, the synergies among the Business Units are ensured through worldwide communication.

The NETZSCH Holding builds the bridge between the shareholder family and the business units and is mainly involved in the group strategy and the financial management.
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For six decades, NETZSCH has manufactured positive displacement pumps for the world market. Designed specifically for difficult pumping applications, NETZSCH pumps range in size from the industry’s smallest metering pumps to high volume pumps for applications in the oil or mining industries.

In 1951, the NETZSCH Group acquired the Progressing Cavity Pump license to manufacture and distribute NEMO® progressing cavity pumps according to the Moineau pump system. The NEMO® name originated from this system invented by Professor René Moineau: NEtzsch + MOineau = NEMO®.
Three major product lines comprise the NETZSCH product range:
NEMO® Progressing Cavity Pumps, TORNADO® Rotary Lobe Pumps and NETZSCH Multiple Screw Pumps

With our positive displacement pumps you can be assured of:
- low shear rate on the fluid being pumped
- non-pulsating, accurate, and reliable metered flow
- volume practically unaffected by varying solid content
- flow that is proportional to the pump’s operating speed
- high viscosity and solids content pumping capabilities
- self-priming
- non-vapor and air locking operation
- low noise levels
- flexibility of operation and mounting options
- no valves or close clearances to clog

Every NETZSCH NEMO® pump can be assembled using a modular system which incorporates a choice of different materials of construction, stators, universal joints, housings and seals.

Our experience in engineering and manufacturing progressing cavity pumps is also exemplified by our NETZSCH TORNADO® rotary lobe pump products. This pump is an ideal addition to our proven NEMO® product line. Ideal for space saving installations and as a mobile pump, for applications with lower viscosities or higher pressure. These pumps are compact in design and offer high efficiency pumping capabilities.

All NETZSCH pumps are used in a variety of applications including:
- Chemical/Base Chemicals
- Water and Wastewater Treatment
- Pulp and Paper Manufacturing
- Environmental Technology
- Renewable Energies
- Pharmaceutical, Cosmetic Industries
- Offshore Platforms and Oil Production
- Paints and Varnishes
- Food and Beverages
- Mining
- Asphalt
- Marine Equipment Lubrication
- Cargo pump

Today, NETZSCH pumps are manufactured at the main factory in Germany as well as other production sites in the United States, Brazil, China, Japan and India. Additionally, there are sales offices in many European countries, Africa and the United Arab Emirates, as well as on the Asian continent, in Australia and in North America that supply NETZSCH NEMO® progressing cavity, TORNADO® rotary lobe pumps and NETZSCH multiple screw pumps. M-Ovas® macerators and the product range for metering technology complete the NETZSCH offering.
Development, Production, Sales and Locations

Europe, Middle East, Africa  
NETZSCH Pumpen & Systeme GmbH Waldkraiburg, Germany

Central and South America  
NETZSCH do Brasil Ltda. Pomerode, Brasil

Our product range
For six decades we’ve been supplying NEMO® progressing cavity pumps, TORNADO® rotary lobe pumps, multiple screw pumps, macerators/grinders, metering systems and equipment worldwide for custom built solutions for your challenging applications.

Our production
With a production of over 50,000 pumps per year, our technology and market leadership is highlighted thanks to the quality of our pumps and spare parts. It is guaranteed by the core competence and vertical manufacturing which we have built over many years.

Our quality
With the worldwide implementation of common standards in accordance with DIN EN ISO 9001 in development and research we guarantee the highest quality at each production site.
Our production and sales sites

With more than 1,600 employees at five development and production sites as well as 26 subsidiaries, a cooperation partner (in Japan) and another 200 NETZSCH representatives we are close to you wherever you are.

Our strategy

Our development and sales activities are focused on trend-setting technologies and applications that expand our market and technology leadership to benefit our customers. We don’t see ourselves only as a developer and manufacturer, but as your partner from project planning and management to complete service support.

Our innovational power

Our state-of-the-art, high quality products are much valued and accepted globally. Each year we set new benchmarks and file for a range of patent innovations.
Fast-paced technological developments coupled with demanding process requirements require creative, yet well-founded, solutions for every industry. Through our worldwide business field organizational structure and with experienced specialists, we meet and exceed our customer expectations every day.

Product Range

For every application we offer you the best pump or the most appropriate system from our wide product range. To select your contact partner please refer to the branch classification on the next page.
Environmental & Energy
Agriculture, construction industry, drinking water purification, biogas, electroplating, renewable energies, ship chandlers, waste water and waste water treatment and other comparable industries

Chemical, Pulp & Paper
Biofuel, building material, ceramics and glass, chemical and biochemical, explosives, leather/tanneries, mining and smelting, paint and varnish, paper and pulp/cellulose, textile, wood processing and other comparable industries

Food & Pharmaceutical
Bakery products, beverages, breweries, dairies, fish and meat processing, fruit processing, pharmaceutical and cosmetic products, sugar and starch, wine and other comparable industries

Oil & Gas
Upstream
On and offshore oil production, dewatering of gas wells (CBM, coal seams, gas)

Midstream and Downstream
Oil transfer, petrochemicals, refineries, re-injection, LACT unit pipeline pumps and other comparable industries

Dosing Technology
Bonding and sealing, cars, electrical, food, pharmacy, planes and ship construction, renewable energies, trains and other comparable industries
NEMO® Progressing Cavity Pumps

Characteristics and Typical Components

NEMO® progressing cavity pumps are used in various industries to convey many types of fluids in a continuous, low pulsating manner, while maintaining an accurate flow.

Wide Range of Capacities and Pressures
- Capacities from a few gph up to 2,200 gpm / 500 m³/h.
- Number of stages ranging from 1 to 8 for pressures from 90 psi / 6 bar to 680 psi / 48 bar as standard, up to 3,400 psi / 240 bar as high pressure.

Various Conveying Elements
Four different rotor/stator geometries are available allowing optimization of the pump characteristics for specific applications. For details, see pages 12 and 13.

Extensive Range of Construction Materials
Wetted parts are available in a variety of materials. Standard housings are made of cast iron, carbon steel and stainless steel. Rotating components are available in mild steel, tool steel, stainless steel and high-alloy stainless steel such as Hastelloy, Super Duplex, Titanium, etc. Other materials are available upon request. Elastomers, like highly abrasion resistant natural rubber, oil-, acid- and alkali-proof elastomers, Aflas and Viton are available. When elastomers cannot be used due to high temperatures or compatibility reasons, NETZSCH offers a variety of solid material options such as PTFE, cast iron, and others.

Wide Range of Applications
The pumps are specifically designed for products with the following characteristics:
- High solids content (maximum particle size up to 6" / 150 mm) and free of solids
- Low to high viscosity (1 mPas - 3 million mPas)
- Thixotropic and dilatant
- Shear-sensitive
- Abrasive
- Lubricating and non-lubricating
- Aggressive (pH 0 - 14)
- Adhesive
- Toxic

A Wide Variety of Shaft Sealing Options
Shaft seals range from single-acting mechanical seals, with and without quench, to double-acting mechanical seals in back-to-back or tandem arrangement as well as cartridge seals per customer specification. For certain applications there are gland packings, lip seals and specially designed seals. For toxic fluids, we offer a pump with a magnetic coupling which is 100% leakproof.

Additional Features
- High suction capability up to 30 ftwc / 9 mwc
- Reversible direction of rotation and thus flow
- Installation in any position
- Smooth and quiet operation
- Temperatures of - 5 °F to + 570 °F / -20 °C to + 200 °C

Accessories
A wide variety of protection and monitoring accessories are available for these pumps (see page 23). For additional information, order brochure NPA · 343
1 Rotor
In wear and corrosion resistant design, including the wear-free ceramic rotor, NEMO CERATEC®.

2 Stator
We manufacture stators to current standards. Stators minimize the tolerance range which optimizes the performance of the pump. Our unique, fully networked production and process data monitoring system, developed in-house, is backed up by consistent quality testing.

2.1 Stator with Conventional Technology
Vulcanized into a tube, with integrated seals on both ends in a variety of NEMOLAST® elastomers, plastics or metals. Stator inlet with chamfer to facilitate the entry of the fluid into the conveying chamber.

2.2 Stator with iFD Technology
This stator design consists of the disposable elastomer lining and an aluminium housing in which the NEMOLAST® elastomer is housed. The advantages of this new technology are the reduced starting and running torques, higher degree of efficiency, longer lifetime, simple and quick change as well as the easy disposal.

2.3 Reduced Wall Stator
Patented stator with reduced wall thickness for higher pressure capabilities of 135 PSI ∆ P per stage to reduce the number of stages and overall length of the pump assembly.

3 Drive Train
Plug in shaft with coupling rod and two universal joints for power transmission from the drive to the rotor.

4 Shaft Seal
Standard design with single-acting, wear resistant, bi-directional mechanical seal; on request different types of single/double-acting mechanical seals by various manufacturers, cartridge and other special seals as well as gland packing.

5 Suction and Pressure Housing
Designed to optimize through-flow with flanges or threads according to ANSI, DIN, JIS and other international standards. Materials in chromium nickel molybdenum steel, cast iron, rubber-coated or Halar® cast iron or special materials according to specifications.

Halar® is a registered trademark of Solvay Solexis

6 Block Construction Design
A drive flanged directly to the housing reduces length, weight providing a constant shaft height, independent of construction and size of the drive. It is maintenance- and service-friendly as well as economical.
Operational Characteristics and Conveying Principle of NEMO® Pumps in Different Geometries

**Modular Design**

NEMO® Pumps belong to the group of rotary positive displacement pumps. The conveying elements consist of the rotor which rotates within the fixed stator.

All four pump geometries have the same outer dimensions. This modular design was established so that, apart from rotor and stator, all other components are identical. If a change in flow rate or pressure is required, installed NEMO® Pumps can be adapted to the new operating conditions by simply changing rotor and stator.

**S/L Geometry**

The single helical screw/rotor has a circular cross section, an extremely long pitch and large thread depth which oscillates when the rotor is turned within the fixed stator. The cross section of the stator is the same profile as that of the rotor, however, the stator is a 180° internal twin start thread. As a result of the 1/2 ratio lobe geometry, cavities are formed between the rotor and stator when the two are put together. The turning movement of the rotor the progressing cavities between rotor and stator transports the fluid in a smooth and continuous manner from the suction side to the discharge side of the stator. The flow rate is determined by the pitch of the rotor/stator, the diameter and eccentricity and the speed of the pump. The pressure capability depends on the number of stages and the differential pressure per stage up to 85 psi / 6 bar.

The 2-stage NEMO® Pump in S geometry can reach a differential pressure up to 180 psi / 12 bar with a flow rate of 100%. A single-stage NEMO® Pump in L geometry, has the same outer dimensions as the 2-stage pump in S geometry and the same diameter and eccentricity but a pitch double that of the S geometry rotor/stator. This pump configuration produces a flow rate of 200% when compared to the S geometry at a differential pressure of up to 90 psi / 6 bar.

**S Geometry**

- Very smooth conveyance
- Compact dimensions despite high number of stages
- Large cross sections of rotor inlet
- Low flow velocity
- Low NPSHr
- Conveyance of compacted products possible
- Conveyance of large solid particles

**L Geometry**

- Greater volumetric efficiency/long service life due to long seal lines between rotor and stator
- Compact dimensions along with high flow rates
D/P Geometry

The twin start helical rotor has an elliptical cross section, a long pitch and large thread depth. It moves within a circular eccentric rotation inside the fixed stator, the form of which is the same geometry as the rotor, however, the stator is a triple start internal thread with 120° interval starts. As a result of the 2/3 ratio lobe geometry, cavities are formed between the rotor and stator when the two are put together. The turning movement of the rotor creates the progressing cavities between rotor and stator which transports the fluid in a smooth and continuous manner from the suction side to the discharge side of the stator. The flow rate is determined by the pitch of rotor/stator, elliptic diameter and eccentricity and the speed of the pump. The pressure capability depends on the number of stages with the differential pressure being up to 90 psi / 6 bar per stage. In D/P geometry the cavities are approximately 75% of the size of the S/L geometry however they open twice per revolution compared to once per revolution in 1/2 stage geometries. Therefore D/P geometry rotors/stators have a 50% increase in the flow per revolution compared to S/L geometry. The 2-stage NEMO® Pump in D geometry can reach differential pressures of up to 180 psi / 12 bar at a flow rate of 150% over that of the S geometry. A single-stage NEMO® Pump in P geometry, has the same outer dimensions as the 2-stage pump in D geometry, the same ellipse and eccentricity but a pitch double that of the D geometry rotor/stator. Therefore the pump produces a flow rate of 300% over that of the S geometry at a differential pressure of up to 90 psi / 6 bar.

D Geometry
- Extremely compact dimensions despite high pressures and flow rates capabilities
- Almost pulsation free conveyance
- High metering accuracy

P Geometry
- Compact dimensions in conjunction with very high flow rates
- Almost pulsation free conveyance
- High metering accuracy
- Good volumetric efficiency/long service life due to long seal line between rotor and stator

2/3 lobe
- Double stage
- Flow rate: 150%
- Differential pressure: 180 psi / 12 bar

2/3 lobe
- Single stage
- Flow rate: 300%
- Differential pressure: 90 psi / 6 bar
NETZSCH TORNADO® positive displacement pumps are self priming and valveless offering high performance. Each is selected and configured for the individual requirements of the application. They are designed for intermittent or continuous operation and provide gentle conveyance of the pumped substance. TORNADO® pumps are ideally suited for transfer, process and metering applications.

Their major benefits include minimal space requirements due to the compact design, high performance density and maximum operational reliability based on the unique spatial separation between pump chamber and gear compartment. TORNADO® rotary lobe pumps are especially easy to service and maintain; all parts that come into contact with the product are immediately accessible without having to dismantle pipelines or drive.

A Broad Application Range

NETZSCH TORNADO® pumps are suitable for a wide range of applications but are particularly good for liquids which:

- contain large solids, solids up to 3" / 70 mm in diameter can be pumped
- have a wide range of viscosities, from 1 mPas to 1 million mPas
- are shear sensitive, i.e. thixotropic, dilatent, pseudoplastic, etc
- are fibrous and/or abrasive
- are lubricative or non lubricative

Characteristics

- Valve free construction
- Self priming
- Suitable for any kind of liquid including media containing gas, solids or fibrous matter
- Suitable for lubricating and non lubricating media
- Pumping product with high or low viscosity
- Handling shear sensitive fluids
- Operating at temperature up to 212°F / 100°C
- Reversible operation
- Can be serviced without disconnecting pipework
- Tolerance of dry running

Wide Range of Capacities and Pressures

- Capacities from 5 to 4,400 gpm / 1 to 1,000 m³/h
- Pressures up to 150 psi / 10 bar
Functioning principle

The TORNADO® rotary lobe pump is a positive displacement pump. The pumping action is generated by the contra-rotation of two rotors within the pump chamber which are synchronized externally. The product enters the pump chamber through the inlet port and is carried around the chamber by the rotors to the outlet port where it is discharged.
Ease of service

“Full Service In Place” instead of “Maintenance In Place”

Servicing a rotary lobe pump has never been so easy and without the need for any special tools. Rotors can be removed and replaced very easily and quickly because they are not bolted or keyed to the shafts within the pump head but fixed with quick-fit, non-product wetted taper lock assemblies that are positioned and accessed outside of the pump head. The geometry of the rotors allows independent fitting and removal. There are no keys dictating unique rotor positioning which results in faster, easier and cleaner rotor removal and replacement. For rotor synchronization a setting device is included as an integral part of the pump front cover. The benefit of all these features is the service time. TORNADO® T2 service has been reduced to significantly less than half the time required for servicing a conventional rotary lobe pump. The pre-set cartridge mechanical seals are fitted directly into the rotor and mounted on the shafts as one assembly. Various cartridge mechanical seals are available that all fit into a common housing allowing for seal upgrades without modification.
Process optimization

Maximum reliability through design, material and range of mechanical seals

The revolutionary NETZSCH PRS (Pulsation Reduction System) results in an almost pulsation-free discharge that is of benefit in many process applications. Even when used in conjunction with straight bi-lobe rotors, which ensures better solid handling capability and easier maintenance, the NETZSCH PRS provides an almost pulsation-free flow that outperforms the characteristics of complex multi-lobe helical rotors.

The pump chamber coupled with the mechanical seal design and position eliminates dead areas where pump product can collect and compact, making cleaning easier, either manually or by CIP.

Operational safety

From GSS\(^1\) to BSS\(^2\)

The proven physical separation between pump chamber and bearing housing guarantees absolute operational safety.

\(^1\) GSS = Gearbox Security System
\(^2\) BSS = Bearing Security System
NETZSCH Dosing Technology – NEMO® Metering Components

Product Range of Dosing Technology

For over 50 years NETZSCH has solved application problems to become the global leader for progressing cavity pump technology. NETZSCH has developed solutions from simple metering to complex automated applications.

Our products integrate seamlessly into your process regardless of whether it is six axis or linear. We offer customized solutions for your requirements.

NEMO® Dispensers and Hand Dispensers
Capacities from ca. 0.008 ml up to 10 ml per revolution.

NEMO® Drum and Pail Emptying Units
NEMO® drum and pail emptying pumps draw themselves toward the bottom of the container and empty them in chemical, pharmaceutical and food industry applications with the absolute minimum of product waste. The heart of the drum or pail emptying system is a NEMO® progressing cavity pump. When the NEMO® pump is started, a vacuum is created below the follower plate that creates a light pressure on the product to assure consistent suction into the pump.

NEMO® Cartridge Emptying Units
For emptying all popular cartridge sizes by means of a pneumatic cylinder with no compressed air introduction into the product during operation.

NEMO® Buffer Vessel
Buffer Volume ca. 1.0 l; delivers a constant feed pressure for the dispenser to ensure the highest levels of metering accuracy. Also enables drum changes without interrupting production.

NEMO® Mixing Components
Static mixers for 2 component applications.

NEMO® Control Systems
From simple start/stop control to complex control for 2 component metering; designed individually for each application.

NEMO® Automatic Dosing Unit
Tailor-made solutions for applications ranging from simple metering to fully automated solutions.

Additional information
Business Field Dosing Technology
Brochure NPA · 330
Advantages

- Low shear pumping and metering of high viscosity, highly abrasive and filled products.
- Product remaining in drum after emptying < 1-2 % of the total volume.
- No pressure or continuous flow interruption in the system.
- Valveless metering system ideal for filled products.
- Speed proportional metering.
- Volumetric metering accuracy > 99%.
- Repeatable accuracy > 99%.
- Metering accuracy is independent of the viscosity.
- Simple integration with robots.
- Continuous, gentle, and pulsation free.
- With suck-back, no dripping or stringing by metering.
- Low life cycle costs.
- Low system working pressures.
- Complete heating possible.
- Servo drives are available for high loads.
NETZSCH Multiple Screw Pumps

Working Principle

Two Screw Pump
LN, LNA & LNT

A drive screw touching a driven screw which transfers torque from one screw to the other. Surrounded by the pump housing made of ferrous material, the screw geometry and the housing form the pumping chamber. The rotation, screw diameter and screw pitch define the pump’s flow rate. Lubrication between the spindle and the housing is affected by the pumped fluid itself. Four special bushings keep the screws in alignment.

The axial force resulting from the pumping motion is practically non-existant due to the pump’s hydraulic balancing. This model complies with API 676.

Geared Twin Screw Pump
LAЕ & LAKE

Two shafts with four screws rotate inside a cartridge. The screws do not touch each other and do not touch the cartridge therefore, there is no metal-to-metal contact in this pump design. Synchronization of the two shafts is affected by a pair of timing gears remote from the pump chamber. The fluid is pumped from the extremities toward the center. The pumping chamber is formed by the fours screws and the cartridge. This model complies with API 676.

Material

- Housing: cast iron
- Screw: nitrided steel
- Cartridge: cast iron
- Optional materials upon request
Product Range

LN/LNA pump
up to 1,100 gpm / 300 m³/h
232 psi / 16 bar,
608°F / 320°C

LNT pump
up to 1,100 gpm / 300 m³/h
232 psi / 16 bar,
608°F / 320°C

LN/LNA pump - Vertical version
up to 1,100 gpm / 300 m³/h
232 psi / 16 bar,
608°F / 320°C

LAE pump
up to 2,275 gpm / 620 m³/h
232 psi / 16 bar,
608°F / 320°C

LAKE pump
up to 2,275 gpm / 620 m³/h
365 psi / 25 bar,
212°F / 100°C
NETZSCH Macerators

Cutting Plate Macerator M-Ovas®

The NETZSCH M-Ovas® is designed for industries with challenging applications where particles in the substance endanger process reliability. All solids in the substance are completely macerated to prevent pipework and downstream equipment from blocking.

High Delivery Capacities
- Flow capacities up to 1,320 gpm / 300 m³/h of waste water and sludge with up to 7% dry solids content.
- Two sizes of this model are available depending on the flow rate.

Wide Range of Applications
The NETZSCH M-Ovas® is particularly suitable for the use in the following industries:
- Sewage and waste water treatment
- Biogas plants
- Abattoirs
- Organic biological waste recycling plants
- Rendering plants
- Paper and pulp production
- Agriculture
- Sugar factories
- Leather production
- Spas and health resorts

Advantages
- Compact design for high flow rates.
- Easy and fast disassembly of cutting plate and blade units.
- Low energy demand at high flow rates.
- Integrated stone trap with separate clean-out and drain ports.
- Easy access allows simple disposal of the sediment.
- Self-adjusting blades reduce maintenance and ensure optimal cutting performance.
- Sealing by means of a mechanical seal with oil quench.
- Easy to maintain.

Three replaceable blades. Four different shear plates available. Self-adjusting blades ensure optimum cutting performance. Tested on glass bottles, plastic bottles, denim, wood, rope, fishing line, pens, and much more. Average particle size is between 0.197" to 0.236" or 5 to 6 mm.

Additional information
Grinding Systems
Brochure NPA · 040
NETZSCH Accessories, Spare Parts and Service

Process monitoring

Dry running protection devices avoid thermal destruction of elastomer parts to protect pump and accessory equipment.
- Dry running protection (STPA2A, STP2D)
- Flow sensing units for solid stators
- Speed monitoring device

Over-/underpressure protection devices protect the pump and accessory equipment from unsuitable pressures, to increase the operating reliability of the pump and minimize downtime.
- Diaphragm Pressure Gauge
- Pressure control device DTSL 3
- Multi-function pressure instrument
- By-pass line

Seal Support Systems

For problem-free shaft seal system operation sometimes a quench, flushing or pressurized barrier system is required for the seal to operate in ideally.
- Quench pot
- Permanent lubricator
- Pressurized flush for double mechanical seals

Tools and options

Tools and accessories for simple maintenance and problem-free operation.
- Gear joint filling unit
- Ring dosing nozzle
- Chemical anchor
- Stator removal tool

Protection Units and Carts

In all production areas within the food, pharmaceutical and cosmetic industries a range of mobile and fixed mounting options are available to ensure hygiene standards.
- Covers for drive motors
- Cart assemblies
- Machine feet

Your Benefit

Consulting, service and quality are our strengths. Strict quality standards, tests and the certification according to DIN EN ISO 9001 guarantee all parts are of a consistent high quality. To maintain the capacity and quality of your pump, we offer spare parts, consultation and support after the delivery of the pump. Our experience from more than 500,000 installed pumps is sure to provide you the answer you need.

Additional information

NETZSCH Original-Accessories
Brochure NPA - 343
The NETZSCH Group is a mid-sized, family-owned German company engaging in the manufacture of machinery and instrumentation with worldwide production, sales, and service branches.

The three Business Units – Analyzing & Testing, Grinding & Dispersing and Pumps & Systems – provide tailored solutions for highest-level needs. Over 3,000 employees at 140 sales and production centers in 30 countries across the globe guarantee that expert service is never far from our customers.

The NETZSCH Business Unit Pumps & Systems offers with 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 basis.

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