Product Range
Company, Technology and Application Areas
NETZSCH Group

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, which has since become an international family-owned enterprise with over 2,500 employees working at 130 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 130 years of engineering experience is both technological and market leadership.

NETZSCH Holding

Under the umbrella of the Erich NETZSCH GmbH & Co. Holding KG, the synergies between 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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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. NEMO® received its name from this system invented by Professor René Moineau: NETzsch + MOineau = NEMO®.

For six decades, NETZSCH has manufactured positive displacement pumps worldwide. Designed specifically for difficult pumping situations, NETZSCH pumps range in size from the industry’s smallest metering pumps to high volume pumps for applications in the oil and gas or mining industries.

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Experts in Pump Solutions for 60 Years

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With our positive displacement pumps you can be assured of:

- low shear rate on fluid being pumped
- non-pulsating, accurate, 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 in 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 exemplified also in our NETZSCH TORNADO® rotary lobe pump. This pump is an ideal addition to our proven NEMO® product line. Ideal for space saving installations and as 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 Plants and Oil Production
- Paints and Varnishes
- Food and Beverages

Two major product lines mould the NETZSCH product range: NEMO® Progressing Cavity Pumps and TORNADO® Rotary Lobe Pumps

Today, NETZSCH pumps are manufactured at the main factory in Germany as well as other production sites in the United States, Brazil, China, and India. Additionally, sales offices in many European countries, Africa and the United Arab Emirates, as well as on the Asian continent, in Australia and the Americas market NETZSCH NEMO® progressing cavity and TORNADO® rotary lobe pumps. Our M-Ovas® and Taskmaster® macerators complete our product range as well as the product range for dosing technol.
Our product range

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

Our production

With a production of over 50,000 pumps per year we underline our technology and market leadership, which we have gained thanks to the quality of our pumps and spare parts. It is guaranteed by the core competence and vertical manufacturing which we have built up over the 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 sales offices, 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, to expand our market and technology leadership for the benefit of our customers. Hereby we don’t see ourselves only as a developer and manufacturer, but more as your partner from project planning through case management to complete service concepts.

Our innovational power

Our innovative and high quality products are globally much valued and accepted. Each year we set further benchmarks and get patents registered for various innovations.
Permanently quickening development cycles together with constantly increasing process requirements call for ambitious and uncompromising solutions for all industries. Through our worldwide business field organisation with experienced and competent specialists we meet and exceed the requirements of our customers.

### Further information

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### Product Range

For every application we offer you the best pump or the most suitable system from our wide product range. To select your competent contact partner please refer to the branch classification on the next page.

**NEMO® Progressing Cavity Pumps**
- Standard pumps
- Hopper pumps
- Hygienic and aseptic pumps
- Immersible pumps
- Downhole pumps
- Multi-phase pumps
- High-pressure pumps (injection pumps)
- Custom-built pumps

**NETZSCH Dosing Systems and Barrel Emptying Pumps**
- Dosing systems
- Automatic Dosing systems with linear or six axis robot
- Dispenser and hand dispenser
- Dosing components and controls
- Barrel emptying pumps

**TORNADO® Rotary Lobe Pumps**
- T.Agri, T.Envi, T.Proc, T.Sano
- Mobile pumps
- Custom-built pumps

**NETZSCH Macerators**
- Cutting plate macerator M-Ovas®
- Twin shaft macerator Taskmaster®

**NETZSCH Accessories**
- Protection devices
- Pressure relief valves
- Controls
- Trailers
- Tools
Environmental & Energy
Agriculture, construction industry, drinking water purification, electroplating, renewable energies, ship chandlers, waste water and waste water treatment and similar

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 similar

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

Oil & Gas
Upstream
On and offshore oil production

Downstream
Oil transfer, petrochemicals, refineries, re-injection and similar

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

Characteristics and Typical Components

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

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

Large Range of Capacities and Pressures

- Capacities from a few millilitres up to 500 m³/h (2,200 gpm)
- Number of stages ranging from 1 up to 8 for differential pressures from 6 (90 psi) up to 48 bar (680 psi) as standard, up to 240 bar (3,400 psi) as high pressure

Various Conveying Elements

Four different rotor/stator geometries are available allowing optimisation of the pump characteristics for specific applications. For further details see pages 12 and 13.

Extensive Range of Materials of Construction

Wetted parts are available in numerous materials. Standard housings are made of cast iron and stainless steel. Parts are available in mild steel, stainless steel and tool steel. 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 materials.

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 as per customer specification. For certain applications there are gland packings, lip seals and specially designed seals. In the case of toxic fluids we offer a pump with a magnetic coupling which is 100% leakproof.

Additional Features

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

Accessories

A wide variety of protection and monitoring accessories are available for these pumps (see page 22). For further information simply order brochure NMP · 343
1 Rotor

In wear and corrosion resistant design, including the wear-free ceramic rotor, NEMO CERATEC®.

2 Stator

We manufacture stators to the latest standards. Stators minimise the tolerance range thereby optimising 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

Vulcanised 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

The stator consists of a disposable elastomer part and an aluminium outer sleeve in which the NEMOLAST® elastomer is housed. The advantages of this new technology are the reduced starting torque, the higher degree of efficiency, longer lifetime, simple and quick change as well as the easy disposal.

For further information of the iFD-Stator® simply order brochure NMP · 344

3 Drive Chain

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 optimise through flow with flanges or threads according to DIN and other international standards. Materials in cast iron, chromium nickel molybdenium steel, rubber-coated or Halar® cast iron as well as 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 and gives a constant shaft height, independent of construction and size of the drive. It is both 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.

As all four pump geometries have the same outer dimensions, we have a modular design where - apart from rotor and stator - all other components are identical. When 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. By the turning movement of the rotor the progressing cavities between rotor and stator transport the fluid in a smooth and continuous manner from the suction to the discharge side of the stator. The flow rate is determined by the pitch of the rotor/stator, diameter and eccentricity as well as the speed of the pump. The pressure capability depends on the number of stages and the differential pressure per stage up to 6 bar (85 psi). The 2-stage NEMO® Pump in S geometry can reach a differential pressure up to 12 bar (170 psi) 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, the same diameter and eccentricity but a pitch double that of the S geometry rotor/stator. Therefore, the pump produces a flow rate of 200% when compared to the S geometry at a differential pressure of up to 6 bar (85 psi).

S Geometry

- Very smooth conveyance
- Compact dimensions despite high number of stages
- Large cross sections of rotor inlet
- Low flow velocity/NPSH
- 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 together 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 rotates within a circular eccentric motion within 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. By the turning movement of the rotor, the progressing cavities between rotor and stator transport the fluid in a smooth and continuous manner from the suction to the discharge side of the stator. The flow rate is determined by the pitch of rotor/stator, elliptic diameter and eccentricity as well as the speed of the pump. The pressure capability depends on the number of stages with the differential pressure being up to 6 bar (85 psi) 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 12 bar (170 psi) 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 6 bar (85 psi).

D Geometry

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

P Geometry

- Compact dimensions in conjunction with very high flow rates
- Almost pulsation free conveyance
- High dosing 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: 12 bar (170 psi)

- 2/3 lobe
- Single stage
- Flow rate: 300%
- Differential pressure: 6 bar (85 psi)
The NETZSCH TORNADO® positive displacement, self priming, valve-less pumps offer high performance and are selected and configured for the individual requirements of each application. They are designed for intermittent or continuous operation and provide gentle pumping of the pumped media and ideally suited to transfer, process and dosing applications.

Their major benefits include minimal space requirements due to their 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 Spectrum
NETZSCH TORNADO® pumps are suitable for a wide range of applications but are particularly good for liquids which:

- contain large solids, solids up to 70 mm in diameter can be pumped
- have a wide range of viscosities, from 1 mPas up 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 media with high or low viscosity
- Handling shear sensitive fluids
- Operating at temperature up to 100°C
- Reversible operation
- Can be serviced without disconnecting pipework
- Tolerance of dry running

Large Range of Capacities and Pressures
- Capacities from 1 up to 1,000 m³/h
- Pressures up to 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 synchronised externally. The media 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 all without the need for any special tools. The 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 media wetted taper lock assemblies positioned and accessed outside of the pump head. The geometry of the rotors means that they can be fitted and removed independently. There are no keys dictating a unique rotor position which results in faster, easier and cleaner rotor removal and replacement and for rotor synchronisation a setting device is included as an integral part of the pump front cover. Benefitting from all these features the service time for the TORNADO® T2 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. There are various cartridge mechanical seals available all of which fit into a common housing allowing for seal upgrades without modification.
Process optimisation

Maximum reliability through design, material and range of mechanical seals

The revolutionary NETZSCH PRS (Pulsation Reduction System) guarantees 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 which outperforms the characteristics of complex multi-lobe helical rotors. The pump chamber and mechanical seal design and position eliminates dead areas, where pump media can collect and compact, making cleaning easier, either manually or by CIP.

Operational safety

From GSS¹ to BSS²

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

¹ GSS = Gearbox Security System
² BSS = Bearing Security System
Due to continuous development and consistent implementation of process expertise, NETZSCH belongs to the trend-setting problem solvers for the most difficult applications, from simple dosing to automatic application. Our products integrate seamlessly into your process regardless of whether it is six axis or linear. We offer customised solutions for your requirements.

Product Range of Dosing Technology

The product range of dosing technology contains:

**NEMO® Dispenser and Hand Dispenser**

Capacities from ca. 0.05 ml up to 10 ml per revolution.

**NEMO® Barrel Emptying Units**

NEMO® barrel emptying pumps draw themselves towards the bottom of the barrel and empty barrels and containers in chemical, pharmaceutical and food industries with the absolute minimum of product wastage. The heart of the barrel emptying system is a NEMO® progressing cavity pump. When the NEMO® pump is started a vacuum is created bellow the follower plate, which at the same time creates a light pressure on the media to guarantee a consistent suction into the pump.

**NEMO® Cartridge Emptying Units**

For the emptying of all popular cartridge sizes by means of a pneumatic cylinder, whereby no compressed air is introduced 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 dosing accuracy. Also enables barrel changes without interrupting production.

**NEMO® Mixing Components**

Static mixers for 2 component applications.

**NEMO® Control Systems**

From simple start/stop control up to complex control for 2 component dosing; designed for each individual application.

**NEMO® Automatic Dosing Unit**

Tailor made solutions for applications ranging from simple dosing to fully automated solutions.

Further information

Business Field Dosing Technology
Brochure NMP - 330
Advantages

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

Automatic dosing unit with six axis robot

NEMO® barrel emptying unit
The NETZSCH M-Ovas® is particularly useful in all industries, where particles in the medium endanger process reliability. All solids in the medium are reliably macerated to prevent pipework and downstream equipment from blocking.

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

Further information

Grinding Systems
Brochure NMP · 040
Twin Shaft Macerator Taskmaster®

For applications with particularly chunky and sturdy solids in the waste water flow the NETZSCH Taskmaster® is needed.

The robust design of the NETZSCH Taskmaster® ensures a high performance coupled with trouble free operation. It offers the best performance even under the most arduous of operating conditions. The twin shaft macerator provides a free flow through, protecting the pumps and other plant equipment. Depending on the application one of five different models and sizes can be installed. Through the different, very low number of revolutions of the shafts the NETZSCH twin shaft macerator offers the option of self cleaning. Low power drives can be used even on high throughput applications.

Wide Range of Applications

The NETZSCH Taskmaster® is particularly suitable for the use in the following industries:

- Waste water treatment
- Agriculture
- Slaughterhouses and recycling plants
- Canning/tinning factories
- Industrial kitchens
- Sugar factories

Advantages

- Optimized cost performance ratio
- Low running costs through highest efficiency
- Cartridge design cutter assemblies allow simple and quick maintenance providing high operational safety
- Through the different, very low number of revolutions of the shafts the NETZSCH twin shaft macerator offers the option of self cleaning
- Robust design, trouble free operation, high performance

High Delivery Capacities

Capacities up to 300 m³/h with a solids content rate of up to 10 %
NETZSCH Accessories from A-Z – NETZSCH Service

Accessories to increase the operational safety of both pump and plant and to prevent downtimes

Process monitoring

Dry running protection devices avoid thermal destruction of elastomere parts and protect the 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, therefore increasing the operating reliability of the pump and minimising downtime.
- Diaphragm Pressure Gauge
- Pressure control device DTSL 3
- Multi-function pressure instrument
- By-pass line

Tools and optional extras

For simple maintenance and problem free operation many helpful tools and accessories are available.
- Gear joint filling unit
- Ring dosing nozzle
- Chemical anchor
- Stator removal tool

Protection Units and Trolleys

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

Seal Support Systems

To ensure the problem free operation of a shaft seal system it is often necessary to install a quench, flushing or pressurised barrier system so that the seal operates in ideal conditions.
- Quench pot
- Permanent lubricator
- Pressurised flush for double mechanical seals

Further information

NETZSCH Original-Accessories
Brochure NMP · 343
NETZSCH Service

Your Benefit

Consulting, service and quality are our strengths. When buying the pump you have decided on a quality product by NETZSCH with good reason. Strict quality standards, tests and the certification according to DIN EN ISO 9001 guarantee all parts are of a consistent quality to the highest degree. In order to maintain the capacity and quality of your pump, we will support you in all matters, also after the delivery of the pump. The experience from more than 500,000 pumps installed is the basis for this.

Spare Parts and Service

In your area well-trained service partners are available for quick and economic service of the pumps at your premises. You will find your personal service partner in our homepage at www.netzsch.com | Pumps & Systems | Consultation/Service.
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.

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