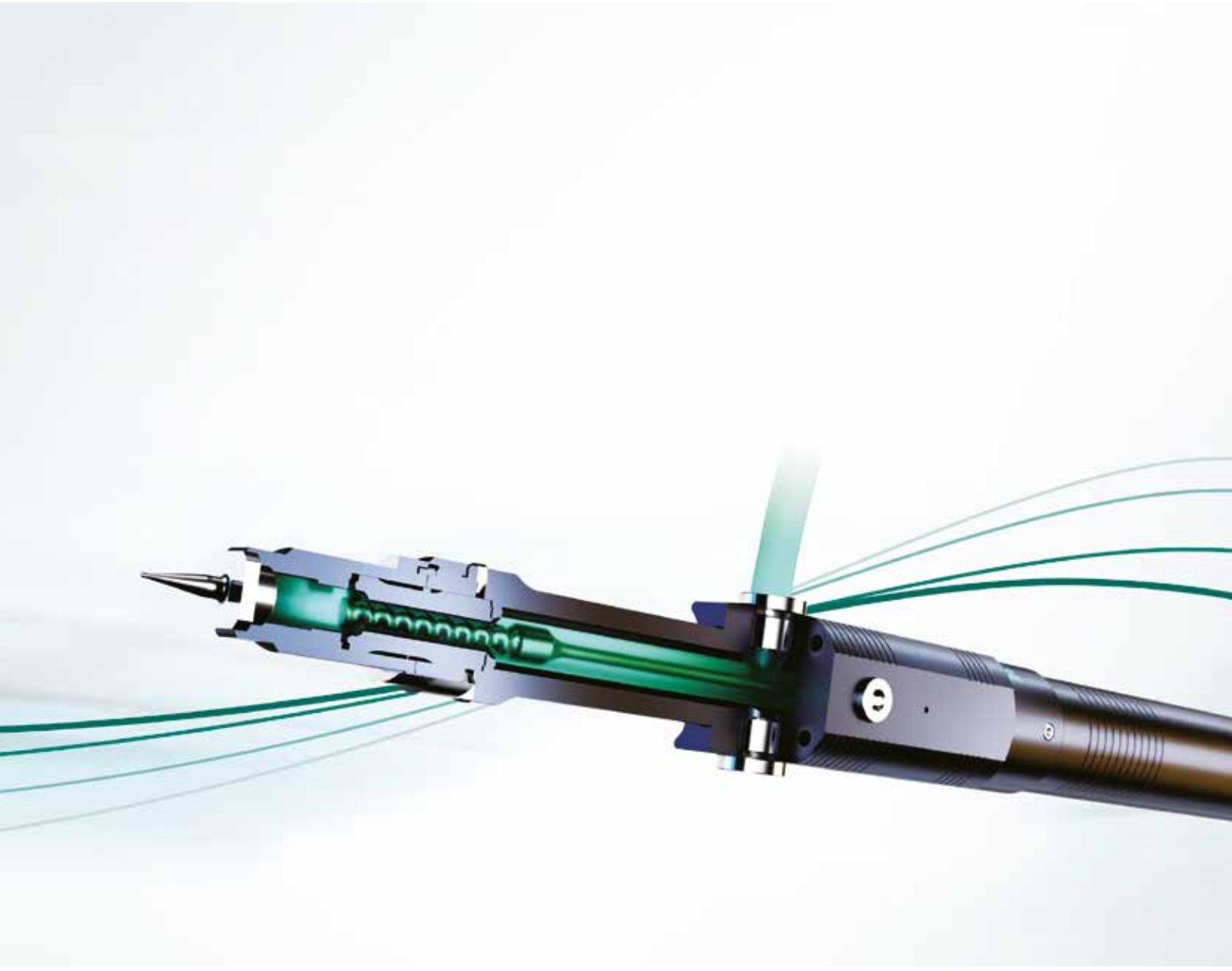
NETZSCH

Proven Excellence.



NETZSCH NEMO Dispenser

guarantee precise metering and repeatability

Pumps & Systems

NETZSCH NEMO® Dispenser

NEMO® Dispensers guarantee precise metering and repeatability of highly abrasive and viscous liquids. Deliver your product with positive displacement, low pulsation flow without damaging your material. Whether you need a single dispenser or a two-component dispensing system, we always have the size, model and method for the use you need most.

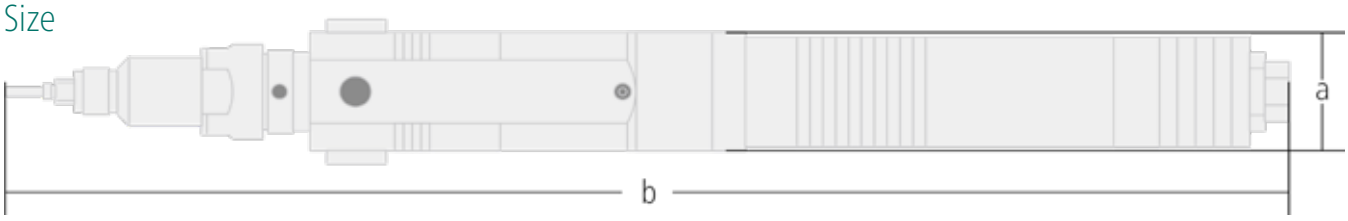
NEMO® Dispenser Advantages

- Progressing cavity pump technology
- Flow rate is proportional to speed
- Precision ± 0.1 %
- No valves
- Suitable for shear sensitive and products with small particles
- Smooth delivery, low pulsation
- Compact lightweight design for connecting to robotic arms
- No drips or stringing product
- Temperature and viscosity do not affect the flow rate
- Uses servomotors
- Can dispense at 0.1 g of filling



NEMO® Dispenser Structure

Size



Description/Type	D03	D04	D05	D06	D07
Overall Dimensions	a=29 b=340	a=29 b=340	a=29 b=350	a=29 b=350	a=36 b=420
Weight	650 g	680 g	700 g	750 g	750 g
Displacement/Rev	0.04 ml	0.08 ml	0.15 ml	0.30 ml	1.0 ml
Flow Rate	0~4.0 ml/min	0~8.0 ml/min	0~15.0 ml/min	0~30.0 ml/min	0~100.0 ml/min
Min. Dosing Quantity	0.004 ml	0.008 ml	0.015 ml	0.030 ml	0.10 ml
Inlet Size	G 1/8"	G 1/8"	G 1/8"	G 1/8"	G 1/4"
Outlet Size	Luer-Lock / G 1/8"/ 1/4-28 UNF				
Inlet Pressure [1)]	0~12 bar				
Operating Pressure [1)]	0~20 bar				
Max. Dosing Pressure [2)]	20 bar				
Viscosity	watery to pasty				
Pump Speed [3)]	0~100 rpm				
Accuracy	± 0.1%				
Stator Material	FFKM / EP / NBR / VI				
Flow Parts	Aluminum alloy / SS316 / PEEK				
Operating Conditions	+10~+40 °C, Altitude<1000 m, relative humidity less than 60%				
Storage Conditions	-10~+40 °C, Altitude<1000 m, relative humidity less than 60%				
Repeat Accuracy	99%				
Motor rated voltage	24VDC / 220VAC				
Rated/Full load current	0.3A / 0.8A				0.5A / 2A
Sound level, (dB(A))	<70				
Controller	SMART I				
Certification	CE, FDA				

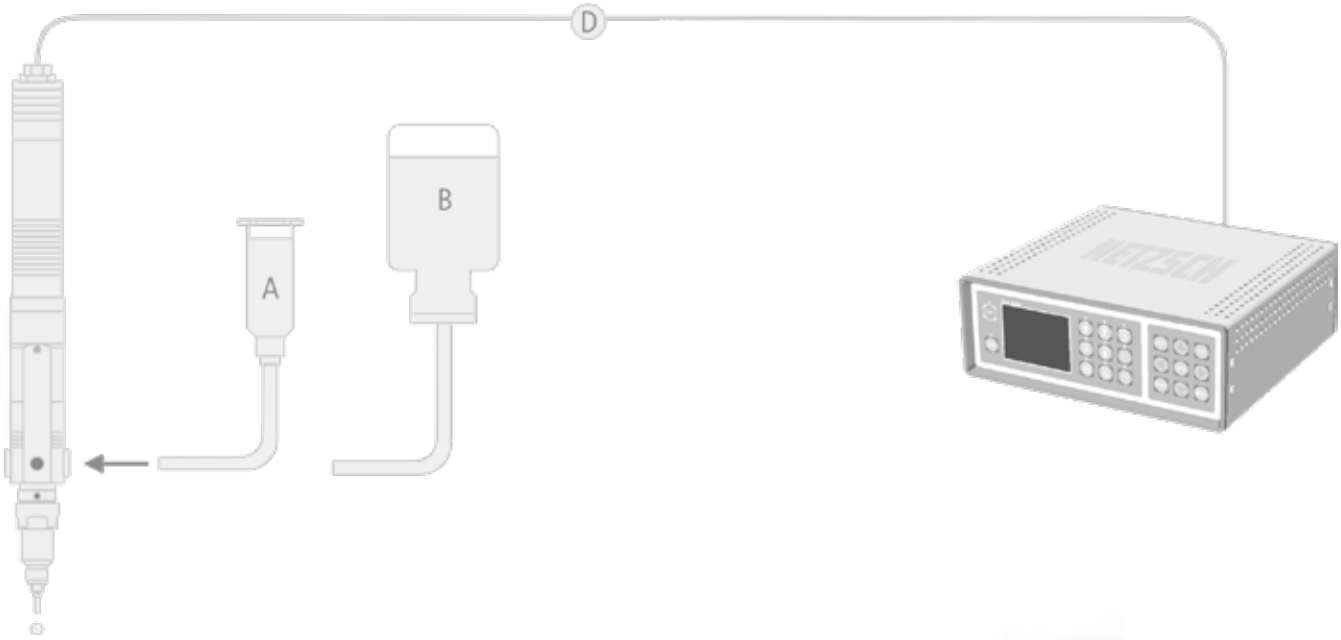
1) related to Viscosity 2) related to viscosity and stages 3) DC and AC motor will be different

Dispenser & Control System

1- Component System

The inlet of the dispenser can be selected for constant pressure continuous feeding of the NETZSCH dispenser system, also refer to other methods suggested by NETZSCH. Optional configuration of buffers, pressure sensors, etc.

The dispenser is equipped with a 20-30W servo motor or other kind of drive systems. You can choose to set the target speed corresponding to the target flow of the pump through PWM, analog voltage, or communication. You can also choose to run at constant speed and constant flow at the internal speed of the drive. It can be set to feedback 656 pulse signals, so as to realize precise flow regulation and metering operation.







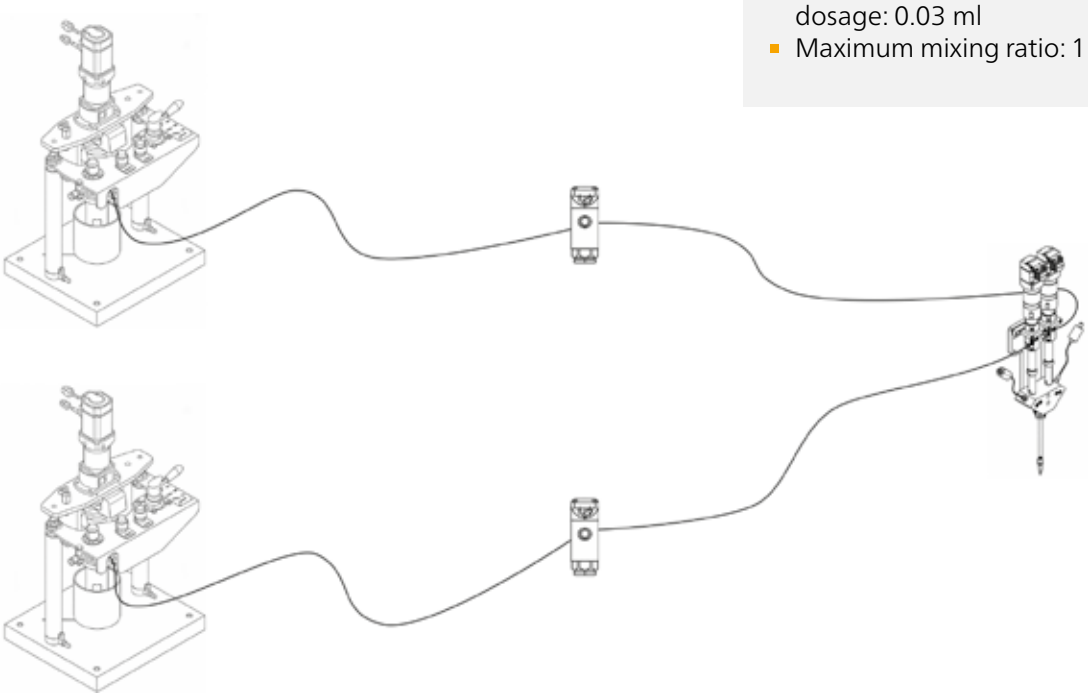
2- Component System

The NETZSCH Dispenser 2-component series enables high-precision volumetric mixing of two different media as well as dispensing and coating.

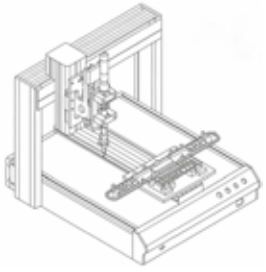
- Whether it is a high-viscosity or low-viscosity liquid, it is possible to easily set and control the mixing ratio and measurement volume.
- The simple system configuration allows for this without the need for high-pressure conveying or material supply.
- Independent population and export pressure monitoring.

Performance

- Feed system volume: 1 L to 200L
- Feed pressure: 0.5 - 20 bar
- Viscosity range: 1 mPas to 300,000 mPas
- 2-component minimum dosage: 0.03 ml
- Maximum mixing ratio: 1 :10

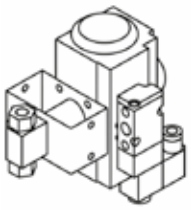


Other optional attachments

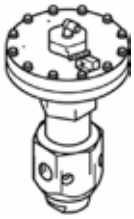




Pressure
Stabilizing Tank



Integrated
Pneumatic Valve



Pressure
Stablizing Device



Feed Tank

NEMO® Dispenser Applications

As a leader in progressing cavity pump solutions, NETZSCH produces a variety of metering pump products suitable for applications in industries such as aerospace, automotive, electronics, new energy, manufacturing, healthcare, cosmetics, food, etc. NETZSCH systems are used for dispensing adhesives, epoxy resins, solvents, Organosilicon compounds, quick-drying solvents, marking inks, soldering fluxes, and various lubricants.

Aerospace applications

The applications in the aerospace industry usually require complex or specialized solutions to ensure the safety of aircraft. Automatic dispensing and gluing are an accurate, high-quality, and cost-effective component assembly method, which usually helps to reduce material waste or avoid problems such as operator fatigue.

Common applications include:

- Cable assemblies and connectors
- Pilot's cockpit instrument panel
- Electrical components
- Power supply
- Air conditioner
- Safety system
- Screen
- Fuel system
- Sensor
- Mechanical and electrical components
- Frame, panel and lining
- Internal lighting
- External Navigation



Materials Used

- Organosilicon compounds
- Sealant
- UV glue
- Acrylic acid
- Epoxy resin
- Anerobic adhesive
- Lubricating grease



Automobile applications

The automotive industry requires advanced adhesives, sealants and lubricants to maintain high quality standards. Automatic dispensing and coating can achieve precise and repeatable manufacturing processes, ensure durable finished products and minimize waste.

Common applications include

- Cable assemblies and connectors
- Brake pad assembly
- Dashboard
- Elecrical components
- Generator
- Air conditioner
- Transmission
- Transmission system
- Windshield
- Mirror
- Sensor
- Mechanical and electrical components
- Frame, panel and suspension
- Fuel system
- Limitation
- External and internal lighting
- Switches
- Engine gaskets, seals and lubricants

Common applications include

- Organosilicon compounds
- RTV silicone rubber
- UV glue
- Acrylic acid
- Epoxy monomer and two-component formulations
- Anerobic adhesive
- Lubricating grease



Electronic applications

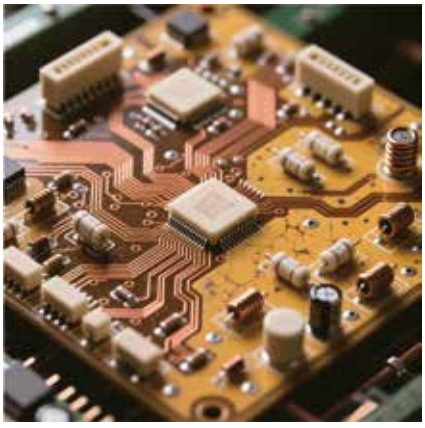
NETZSCH has developed an automated solution for compact, high-density and powerful electronic devices, which can increase production without compromising quality or increasing costs.

Common applications include:

- Component assembly
- PCB assembly
- Packaging
- Optical fiber
- SMT Assembly
- Computer hardware
- Communication
- Mobile phone assembly
- LED

Materials Used

- Organosilicon compounds
- Thermal adhesive
- RTV silicone rubber
- UV glue
- Acrylic acid
- Epoxy monomer and two-component formulations
- Polyurethane



Manufacturing applications

With 150 years of experience in fluid technology, NETZSCH systems are specifically designed for various manufacturing applications. The equipment can be easily integrated into existing processes, helping to simplify operations while increasing productivity.

Common applications include:

- Underline
- Sealing and filling
- Automation of picking and placing

Materials Used

- UV glue
- Acrylic acid
- Epoxy monomer and two-component formulations
- Polyurethane
- Lubricating grease
- Anaerobic adhesive



Medical device applications

Sensitive medical products require dispensing equipment and systems that can provide consistent results. Automated robot dispensing ensures consistent z-axis deposition and placement accuracy, with the distance between the product and the dispensing needle, or nozzle, being uniform.

Common applications include

- Catheter assembly
- Packaging
- Pump
- Facemask
- Fan

Materials Used

- Organosilicon compounds
- RTV silicone rubber
- UV glue
- Acrylic acid
- Epoxy monomer and two-component formulations
- Polyurethane



Application for New Energy

NETZSCH actively participates in various new energy fields, including photovoltaic solar energy assembly, wind energy, electric vehicles and LED technology. We can find solutions that meet your unique energy manufacturing requirements.

Common applications include

- Bonding of panel and frame
- Terminal box connection
- Module combination
- Thin glass mirror accessory
- Sealing, encapsulating and fixing the edges of the junction box and panel
- Internal insulation and battery positioning
- Charge collection, busbars and connections
- On-site installation and installation of solar panels
- Attach the flexible solar components to the solar panel
- Wind power
- Electric vehicles
- LED
- Crystalline photovoltaic

Materials Used

- Organosilicon compounds
- RTV silicone rubber
- UV glue
- Acrylic acid
- Epoxy monomer and two-component formulations
- Polyurethane



Cosmetics applications

Common applications include:

- Raw material measurement and addition
- Emulsification
- Filling and packaging







Food

Common applications include:

- Raw material measurement and addition
- Canning and packaging
- Dairy products
- Baking
- Cleaning and disinfection
- Seasoning agents



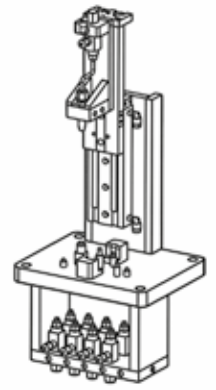
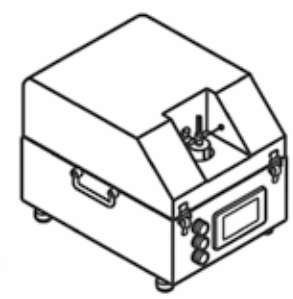
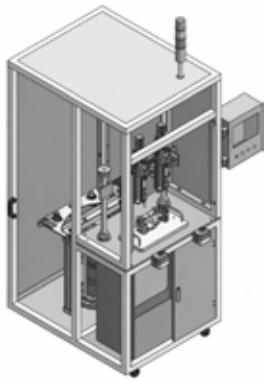
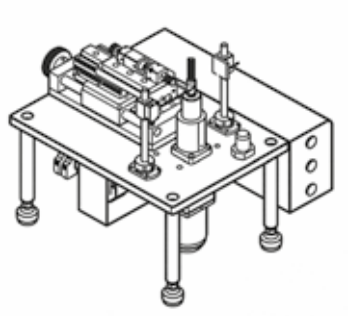
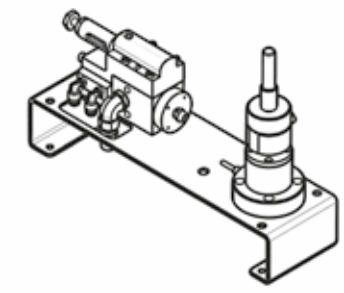


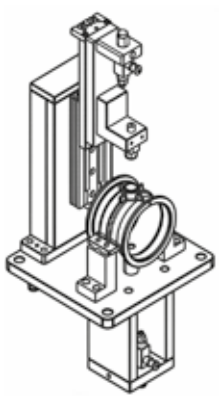
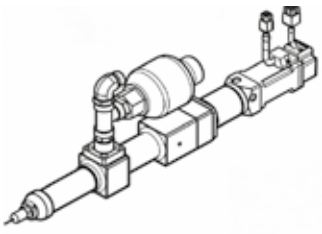


Service and Support

FOR US, PARTNERSHIP DOES NOT END WITH THE PURCHASE

NETZSCH can provide customized, non-standard design system solutions. Please contact us.

Spare Parts and Service

Our distributor / representative partners are available for quick and economic service of your pump at your site. To find your local distributor / representative you can call our Customer Service team at:

1-610 363-8010 Exton
1-346 445-2400 Houston
1-705 797-8426 Canada

24 / 7 EMERGENCY HOTLINE:
For urgent spare parts needs or service issues, please call our
1-484-986-8480

The NETZSCH Group is an owner-managed, international technology company with headquarters in Germany. The Business Units Analyzing & Testing, Grinding & Dispersing and Pumps & Systems represent customized solutions at the highest level. Almost 5,000 employees in 36 countries and a worldwide sales and service network ensure customer proximity and competent service.

Our performance standards are high. We promise our customers Proven Excellence – exceptional performance in everything we do, proven time and again since 1873.

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

Proven Excellence.

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NPA · 402 · 02 · 1126 · 01 · Technical specifications are subject to change.