

NETZSCH Pumps & Systems – Solutions you can trust

NETZSCH Pumps North America – Technical Support

Distributor Pump School Training Distributor Sales and Marketing Meeting John Maguire



NETZSCH Pumps North America "Pump School "Trainings are designed to educate our Distributors and Representatives Sales Teams.

This training will enable these individuals who participate, more knowledge regarding NETZSCH Products, and provide them with additional tools to enable their success.



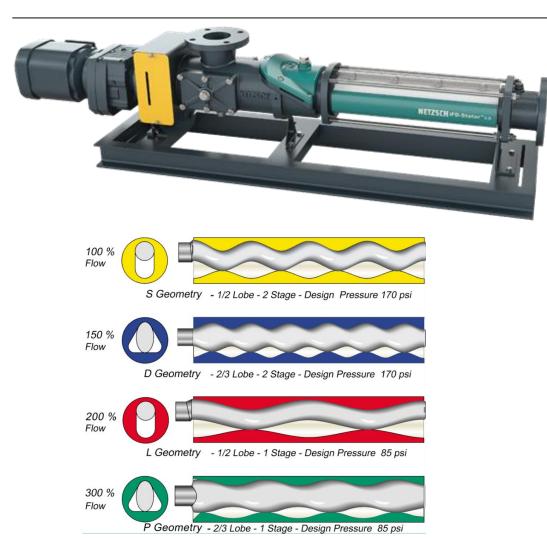


 Company Structure and History of NETZSCH

- Introduction of the Inside Sales Team
- NETZSCH Company / Factory Tour

Pump School – NEMO Pumps

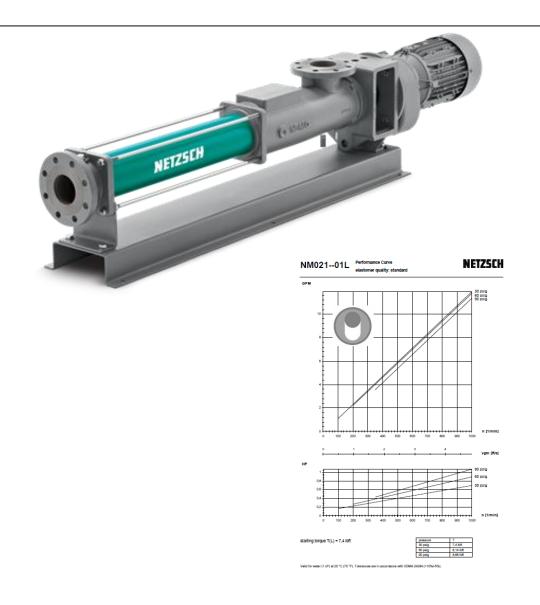




- Pump Types
- Stator & Rotor Geometries
- Shaft Sealing Options
- FSIP NEMO Pump
- iFD 2.0 Stator Technology

Pump School – NEMO Pumps





- Materials of Construction
- Performance Curves
- Overview of the Sizing and Selection process for NEMO Pumps
- Drives and Configuration Options
- Accessories for NEMO Pumps
- Competition analysis





- T1 TORNADO Features and Benefits
- T2 TORNADO Features and Benefits
- Principals of Operation TORNADO Pumps
- Overview of the Sizing and Selection process for TORNADO Pumps
- Advantages and Limitations





- Competition Analysis
- Accessories

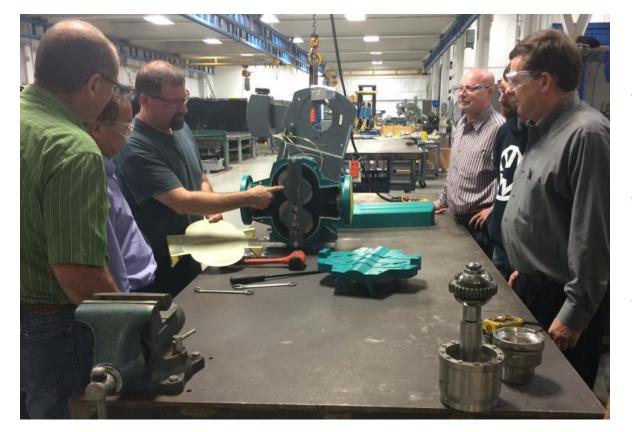
- Performance Curve Characteristics
- Pump Configurations





- Rebuild for Standard NEMO Pump
- Rebuild for New FSIP NEMO Pump
- Various Universal Joints (Pin and Gear)
- Shaft Sealing (Mechanical Seals / Packed Stuffing Box)





- T1 TORNADO Pump Wet End Rebuild
- T2 TORNADO Pump Wet End Rebuild
- Mechanical Seals TORNADO (T1 & T2)

Pump School – Pump Operation Demonstration





- Running Operation of a NEMO Pump
- Pressure Capabilities
- Demonstration of Pump Cavitation
- Over Pressure Demonstration
- Dry Running Fundamentals



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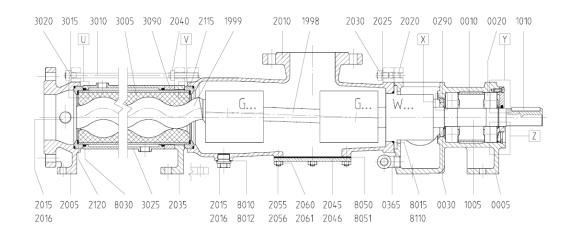
Service School Training Distributor Sales and Marketing Meeting John Maguire

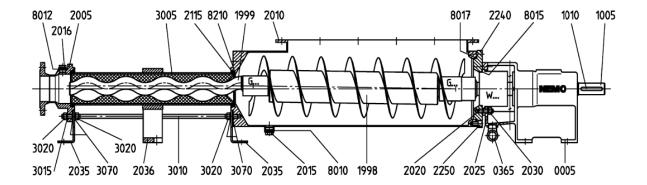


NETZSCH Pumps North America "Pump Service" Trainings are designed to educate our Distributors and Representatives in house Mechanics, and Field Service personnel.

This training will enable these individuals who participate, more knowledge regarding NETZSCH Products, service methodology for all NETZSCH Products, and a better understanding of NETZSCH Service Documentation and resources available.





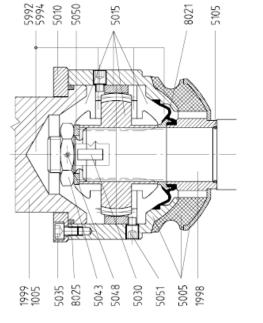


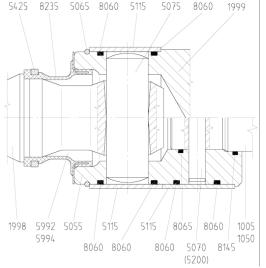
- NE Series Pumps
- NM BY & SY Pumps
- NM BO Pumps
- NMSF Pumps

NMBH Pumps

Service School – NEMO Pump







- Pin Type Universal Joints
- Gear Type Joint
- Z Type Universal Joints
- H Type Joints
- Flexible Rod Pumps

Service School – NEMO Pump

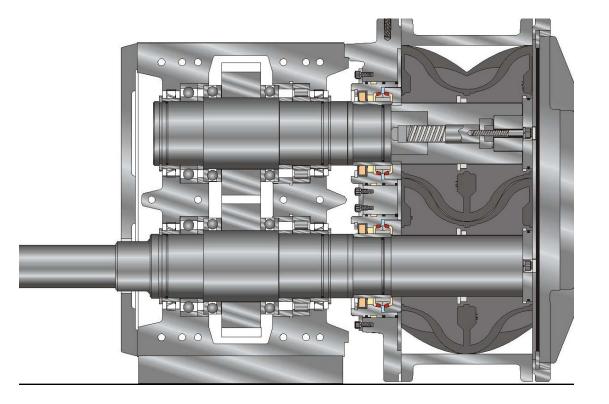




- Standard Single Mechanical Seals
- Packing and Lip Seals
- NE vs. NM Bearing Assemblies
- Dry Run Protection

Service School – T1 TORNADO Pump

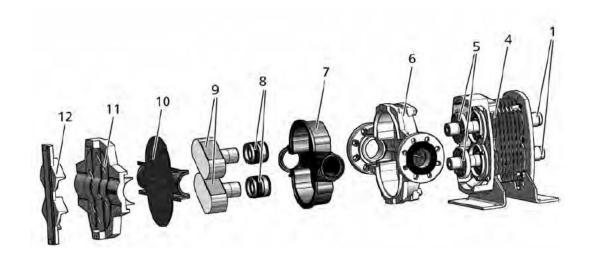




- Lobe Replacement
- Housing Halves / Wear Plates Service
- Mechanical Seal Removal / Assembly
- Timing Gear Rebuild

Service School – T2 TORNADO Pump





| | | | hanical Seal, Table of Materials erial Designations acc. To DIN EN 12 | 756 (and AS | ſM) | | | | | | | |
|---|----------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------|------|------------------|---------------------------------|-----------|------|------|--|
| - | Tornado | Places 1 and 2 | | Place | Place 3 | | | Place 4 / 5 | | | | |
| ĸ | Agri Environmental Industrial Quench Single Double Double Knife-edge faces | B Q1 Q2 U2 D | Carbon Silcone Carbide sintered Reaction bonded Silicon Carbide Tungsten Carbide nickel bonded Hardened steel | P E V K X | NBR EPDM FKM FFKM user defined elastome FKM or MVQ-FEP coat | | F G T D | Plastic | ess steel | | | |
| | Product Primary Saal Barrier/Buffer Secondary Saal (inboard) Atmosphere (outboard) | | | Properties D/D 0 | | | Sea Q1/Q1 | Seal Face Material Combinations | | | | |
| | | 1 | | Chemical | resistance | + | +++++ | +++ | +++++ | +++ | +++ | |
| | | 1 | | Abrasive | resistance | +++ | +++++ | +++++ | + | + | ++++ | |
| | | | | Impact re | | ++++ | ++ | +++++ | + | + | ++ | |
| | | • | | Thermal s | | ++++ | +++ | ++++ | +++ | +++ | +++ | |
| | | | | Heat gen | | + | ++ | + | ++++ | +++ | +++ | |
| | | | | | lubrication roducts (>5000mPas) | + | ++ | + | +++++ | ++++ | ++ | |
| 5 | | | | | nce rating cellent | | | | | , | | |

- Lobe Replacement
- Liner Removal & Installation
- Mechanical Seal Replacement

- Timing the Lobes
- Proper Belt Tensioning





- Running Operation of a NEMO Pump
- Pressure Capabilities
- Demonstration of Pump Cavitation
- Over Pressure Demonstration
- Dry Running Fundamentals