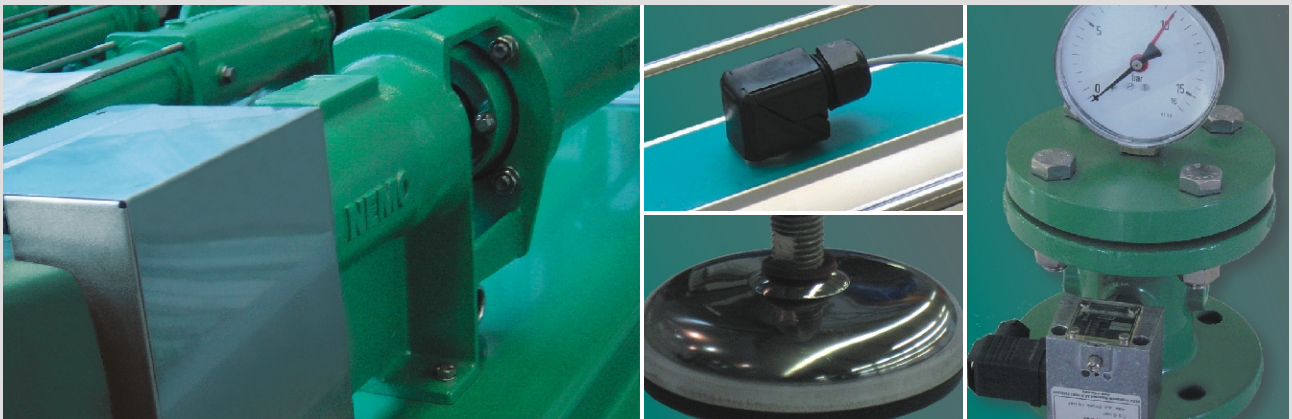


NETZSCH Original-Accessories

Process Monitoring and Optional Extras

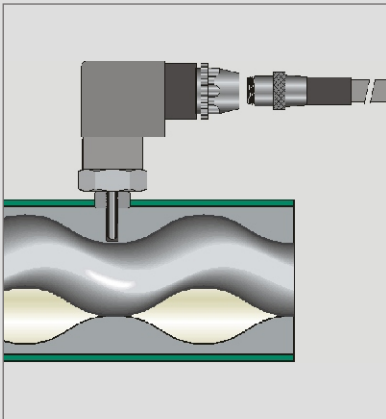


Process Monitoring

Dry Running Protection

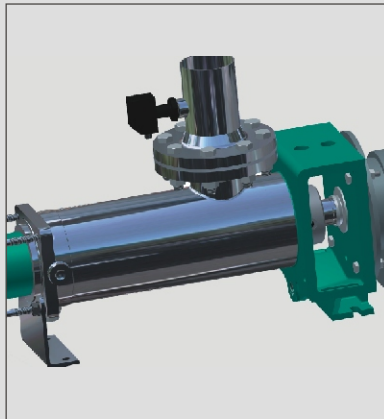
NETZSCH dry running and over-/underpressure protection devices avoid thermal destruction of stators and protect the pump and accessory equipment.

Dry Running Protection for NEMOLAST® Stators



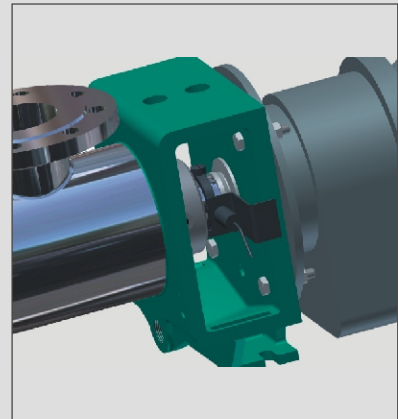
The dry running protection units (STP3, STP2A, STP2D) operate by monitoring the temperature between the rotor and stator during normal operation. Should the operating temperature rise over a predetermined set point due to an increase in friction caused by dry running the unit will shut down the pump, thus preventing any damage to the stator and rotor. The STP2 controller can be set for two different switch temperatures: the first set temperature is used for the normally pumped product, the second set temperature can be used for a different medium temperature, for example for a cleaning process.

Flow Sensing Unit for Stators



The flow sensing unit is used to protect a progressing cavity pump fitted with a stator against dry running. The unit senses the flow in the suction or discharge pipework. Should the flow drop below a predetermined level, indicating a dry running situation the unit will shut down the pump, thus preventing any damage.

Speed Monitoring Device



Where it is necessary, for process reasons, to monitor the rotational speed of a pump we offer impulse switches mounted to a drive unit. These units can be fitted to both block construction and bearing housing pump designs. The shaft can be fit with one or more contacts to provide the required number of impulses per revolution. The units are supplied robustly mounted to the pumps.

Over-/Underpressure Protection

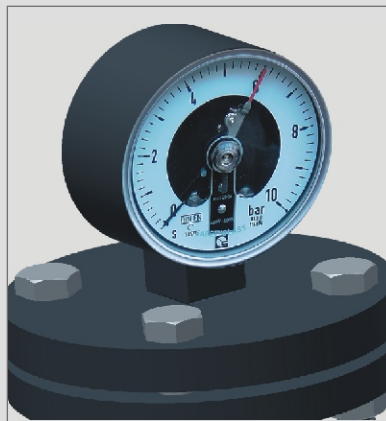
NETZSCH over-/underpressure protection devices protect the pump and accessory equipment from unsuitable pressures, therefore increasing the operating reliability of the pump and minimizing downtime.

Diaphragm Pressure Gauge G3/4 Inch Connection



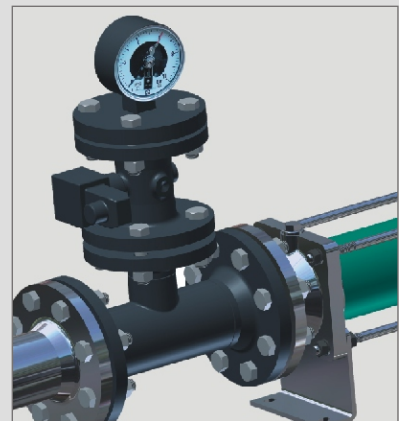
The pressure gauge displays the operating pressure. The gauge is isolated from the process fluid with a stainless steel diaphragm. With an adjustable pressure setting the pump will shut down when the maximum allowable pressure is exceeded. Suitable for low up to medium viscosities.

Diaphragm Pressure Gauge



Operation similar to the G3/4 inch unit, with larger flanged connection DN50 PN40 or 2" ANSI B16.5 300 lbs, suitable for highly viscous and clogging fluids.

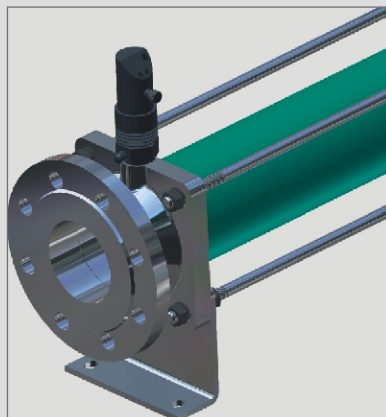
Pressure Control Device DTSL 3



Display of operating pressure by a bourdon gauge. The gauge is isolated from the process fluid by an elastomer diaphragm. With an adjustable pressure setting the pump will shut down when the maximum allowable pressure is exceeded. Also available with a differential pressure on/off switch.

Multi-Function Pressure Instrument

In addition to a display indicating the current operating pressure of the pump, with this simple to install unit, it is also possible to set alarm points for over pressure and to initiate an emergency pump shut down.

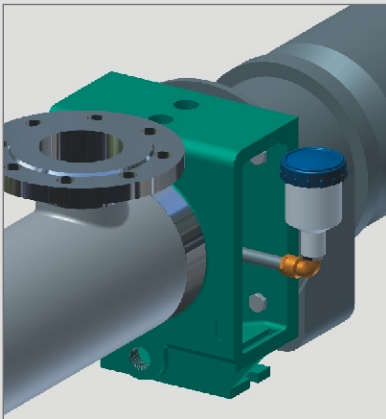


Seal Support Systems Tools and Optional Extras

Seal Support Systems

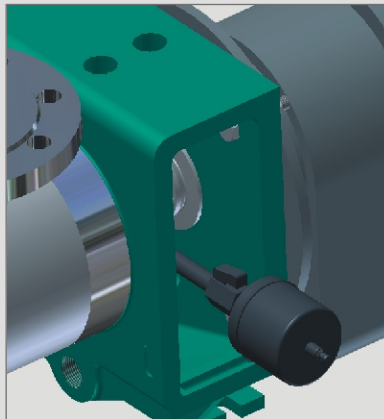
To ensure the problem free operation of a shaft seal system it is often necessary to install a quench, flushing or pressurized barrier system so that the seal operates in ideal conditions.

Quench Pot



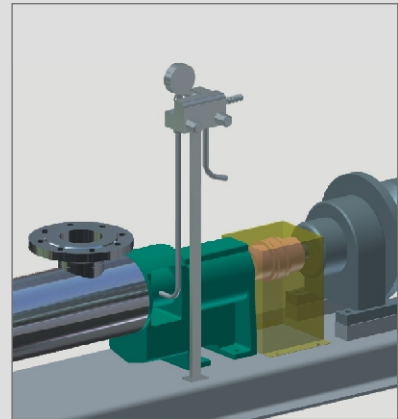
A quench pot is necessary when a shaft seal needs to be operated with a quench, but it is not required that the seal has a permanent flushing flow. So that dry running of the seal or crystallization of the pumped product can be prevented we recommend the installation of a quench pot.

Permanent Lubricator



The Permanent Lubricator is used to support the sealing function of a shaft seal. This can be used for packed glands as well as mechanical seals fit with an additional quench ring. The lubricator provides a constant flow of grease into the quench ring, or lantern of the seal, against the pressure of a spring within the unit. If the pump is not run for any period of time the lubricator can be isolated with a valve. The unit is a robust metal construction and can be refilled.

Pressurized Flushing for double Mechanical Seal Systems

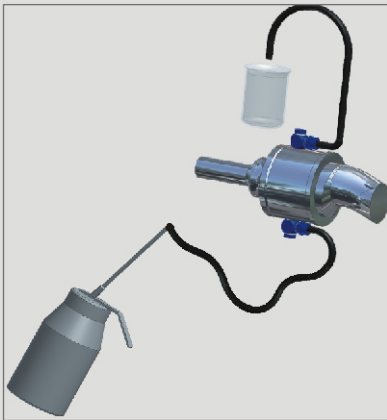


When using a back to back mechanical seal it is necessary to provide a seal support system. For such a seal system to operate correctly a positive pressure is required between the individual seals. The seal support system should have an operating pressure with a minimum of 29 psi above the working pressure of the process side. Furthermore it is necessary to be able to control the flow of flush medium in the seal chamber. To facilitate such a system we offer a complete support system, with the intermediate piping, conveniently mounted on the pump baseplate.

Tools and Optional Extras

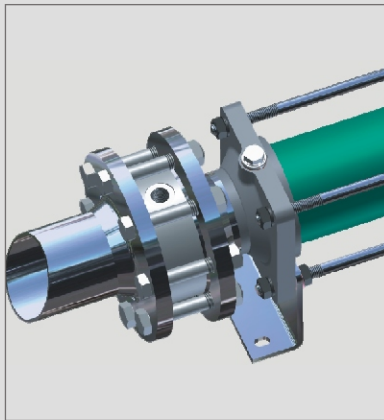
For simple maintenance and problem free operation many helpful tools and accessories are available.

Gear Joint Filling Unit



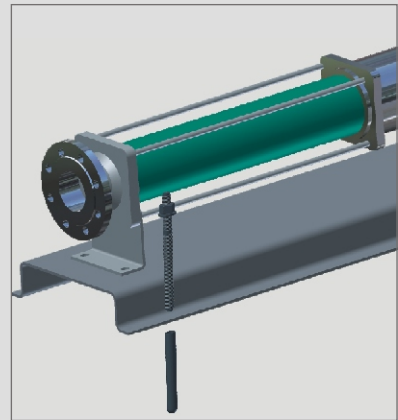
For the correct operation of a Gear Joint and to ensure a long service life it is important that the joint is correctly filled with lubricating oil. To assist the quick and complete filling of the joint we offer a filling unit complete with an oil container, pump unit and hoses.

Ring Dosing Nozzle



For the transportation of high viscosity media we recommend the installation of our ring dosing nozzle. The nozzle fits directly to the discharge connection of the pump and allows the injection of a boundary layer lubricant. Depending on the lubricant used the pressure loss in the discharge piping can be reduced by up to 70% in comparison to operating the system without any lubricant injection. By operating this system both the investment and operating costs are significantly reduced.

Chemical Anchor

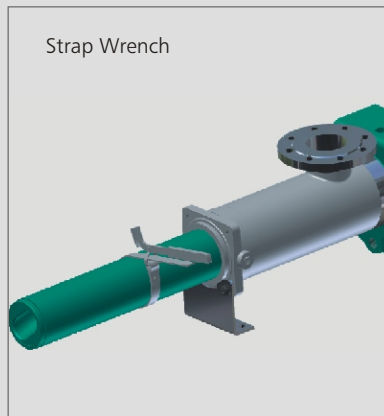


To fix pump baseplates to the ground securely we recommend the use of our chemical bolt system. A two component adhesive is used to secure the bolt. After a short curing time, the bolts are fixed into the ground allowing connection of the pipework.

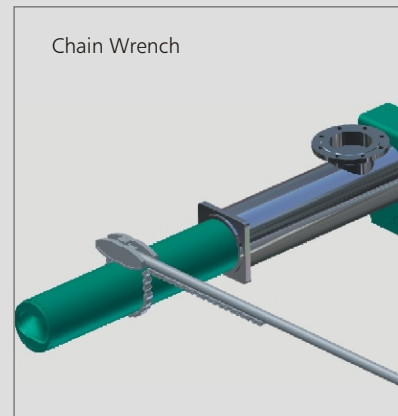
Stator Removal Tool

This tool is useful to assist with the removal of stators from pumps. For pump sizes up to NM 045 we recommend the use of our strap wrench. For the pump sizes of NM 053 and above we recommend our chain wrench.

Strap Wrench



Chain Wrench



Protection Units

Portable Assemblies

Protection Units

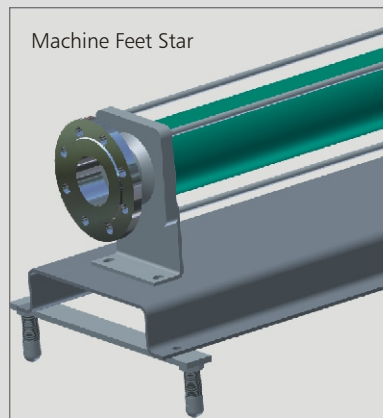
In all production areas within the food, pharmaceutical and cosmetic industries a range of mobile and fixed mounting optionals are available to ensure the highest sanitization standard.

Machine Feet

Often, by the installation of a pump together with a baseplate, it is necessary to ensure that the floor surface is not damaged. Therefore we offer machine feet which are mounted directly on the baseplate.

Advantages

- No crevices or hollow areas where bacteria can accumulate, sanitary pump installation
- Easy cleaning of the floor underneath the pump
- No damage to floor tiles as with fixed anchoring
- Threaded adjustment allows easy leveling of the pump

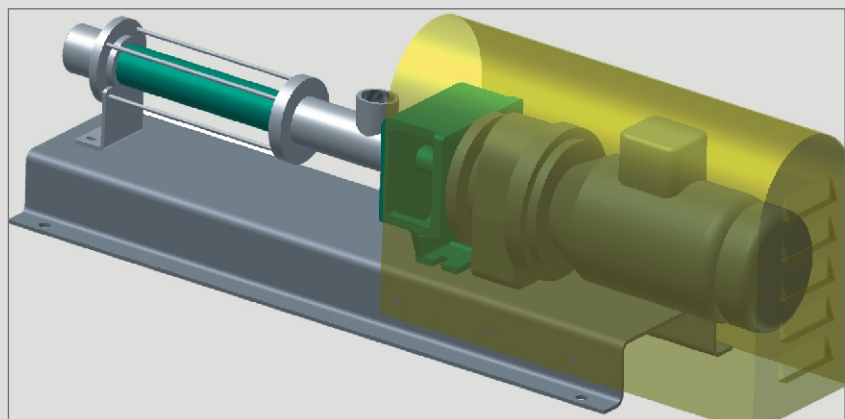


Covers for Drive Motors

For pumps that require an additional level of protection we offer a range of stainless steel covers for the drive.

Wide Range of Applications

- Especially suitable for units operated in a wet environment providing protection against hoses and condensation for overhead equipment
- Protection for hot drive units
- Weather protection for drives installed in an open air environment
- Covering of the drive for optical reasons

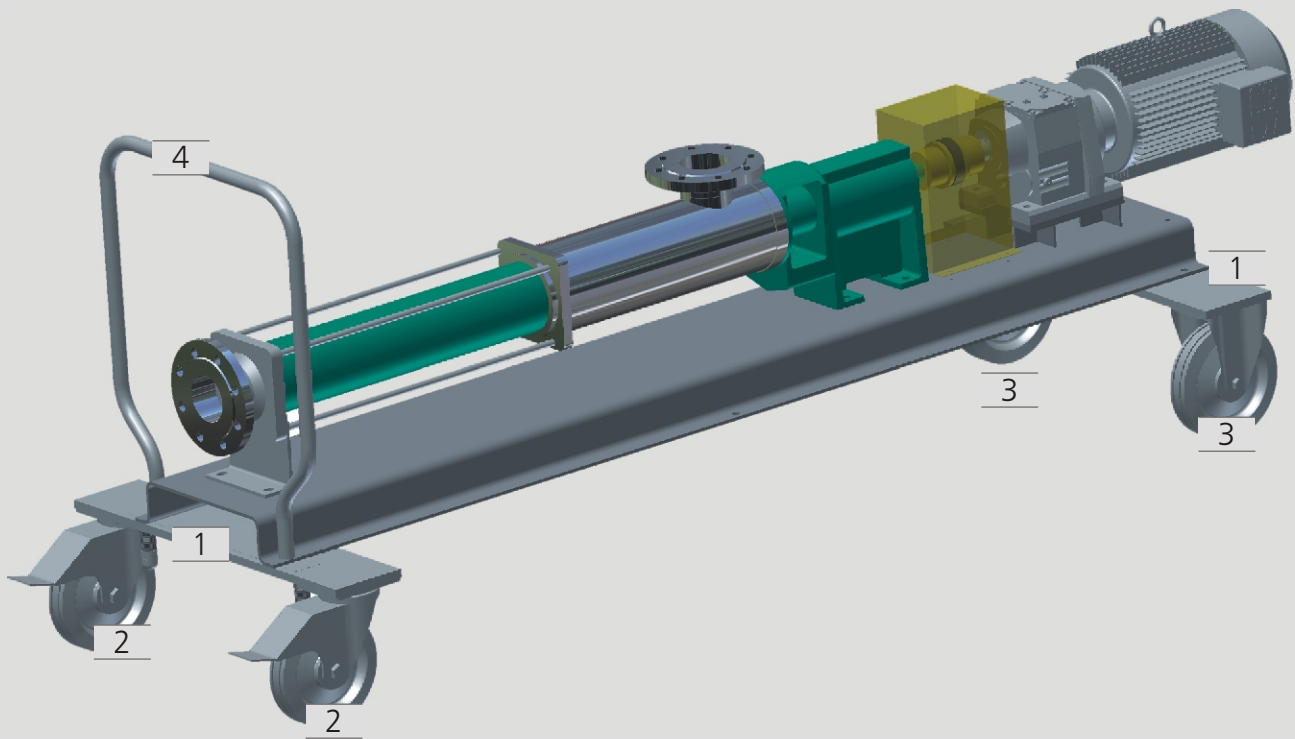


Advantages

- Completely covered drive and lantern with ventilation slots
- Stainless Steel Construction
- Guarding for the drive shaft
- No level surfaces prevent the collection of water

Portable Assemblies

For when it is necessary to be able to easily move a pump between operating areas we offer portable assemblies. The pumps are supplied with a twin axle design with one set of steerable wheels complete with a handle.



1 Wheel Mounting
Plates

2 Steerable Wheels

3 Fixed Wheels

4 Pulling Handle in
Stainless Steel

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