

motralec

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NEMO® M.Champ®

Cost effectiveness and ease of maintenance at high performance



Compact – Economic and Service Friendly

Characteristics and Construction

The growing demands of wastewater technology have been taken into account by our NEMO® M.Champ®. It is the result of continuous development on the standard NEMO® progressing cavity pump.

The NEMO® M.Champ® sets new standards with regard to ease of maintenance and economic efficiency. The compact and simple design of the pump permits the replacement of wearing parts in no time at all. With its directly flanged, robust bevel gears it is particularly suitable for industrial applications in wastewater technology and the process industries. An integrated reserve stator guarantees low life cycle cost and a high degree of operational security. The new Clamp-Tec Stator quick-clamping system allows for easy reversal or replacement of the stator.

Large Range of Capacities and Pressures

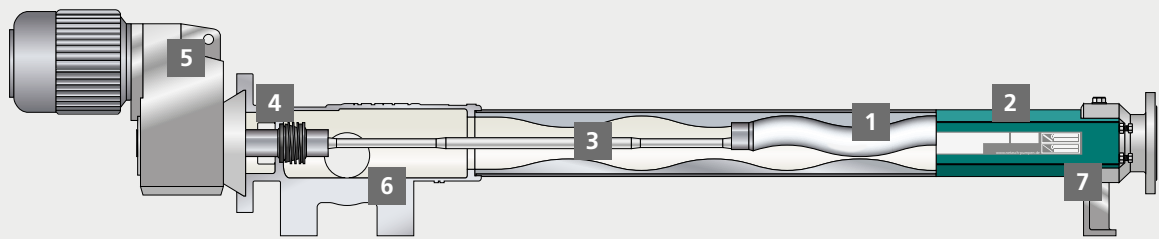
- Capacities of up to 85 m³/h
- Differential pressures of up to 6 bar

Advantages

- Compact design with good performance
- Integrated, patented reserve stator
- Pump capacity proportional to rotational speed
- Continuous low pulsation conveyance independent of pressure and viscosity
- Conveying direction reversible
- High suction and pressure capacity
- Stator with flow cones for low NPSH values
- Mechanical seal in the medium flow
- Maintenance and wear-free flexible rod
- Innovative Clamp-Tec Stator quick-clamping system with attached information plate
- Low life cycle cost
- Ease of service



NEMO® M.Champ®



in block construction design with maintenance free flexible rod and integrated reserve stator

1 Rotor

High pump capacity with compact dimensions. Hardened or wear-chromed surfaces result in a long service life and low life cycle cost. Increased application possibilities with the use of P or L geometries.

2 Patented NEMOLAST® Reversible Stator

A reserve stator integrated into the pump that can be used by a simple reversal process. In particularly abrasion resistant NEMOLAST® material. The stator is furnished with integrated gaskets moulded on the faces. Flow tapers on both ends guarantee a high suction capability in both pumping directions.

3 Drive Chain

Highly corrosion resistant, wear and maintenance free flexible rod. Instead of the normal joints – no parts moving against each other. Lubricants and seals are not necessary.

4 Shaft Seal

Shaft seal with rubber bellow integrated into the pump housing. Independent direction of rotation. The shaft seal located in the medium flow prevents clogging and solids depositing.

5 Drive

The robust parallel shaft gear unit used as standard is directly mounted on the pump housing. The drive line is connected to the hollow shaft of the parallel shaft gear by means of a taper lock connection. A screw locking device guarantees ease of maintenance when exchanging the rotating unit without the need to disassemble the drive.

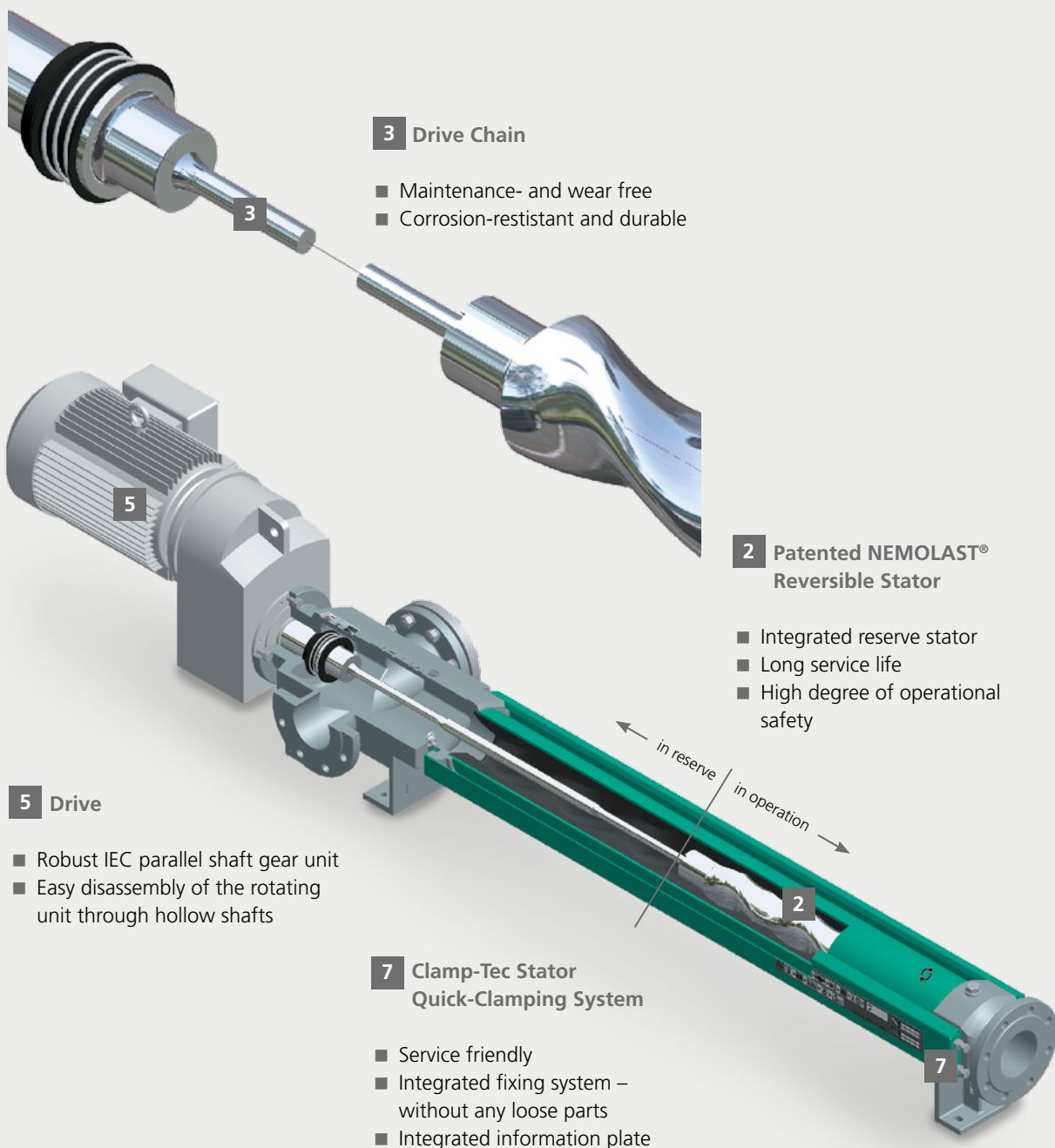
6 Pump Housing

Two tangential, horizontal, nozzles allow the option of parallel connection to the pipe line(s). The second nozzle is provided with a blind plate and can be used as an inspection and cleaning port. The arrangement of the nozzles ensures complete emptying of the pump housing.

7 Clamp-Tec Stator Quick-Clamping System

By loosening the screws on the discharge connection the clamp rails can be removed from the locking device. The stator can be replaced quickly and easily without disturbing any fastening elements. In addition, the stator quick-clamping device is used as information plate for pump maintenance and operational safety.

Details of the NEMO® M.Champ®

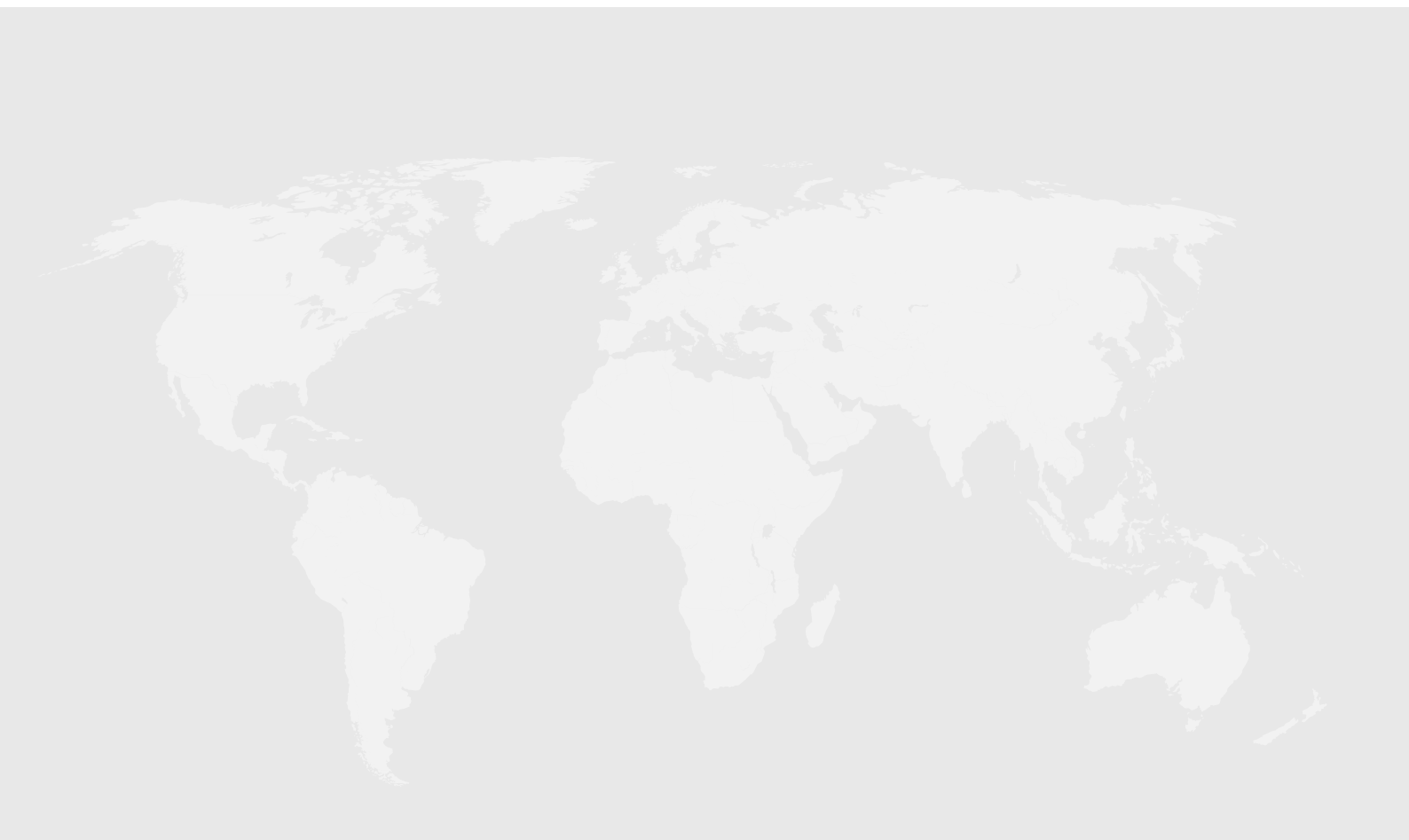


Wide Range of Applications

- Wastewater
- Leachate
- Thin sludge
- Thickened sludge
- Grease and oil emulsion
- Flotation sludge
- River sludge
- Fresh sludge
- Pit water
- Sewage sludge
- Conditioned sludge
- Combined sewage
- Primary sludge
- Refined sludge
- Returned sludge
- Dirty water
- Flotation sludge
- Secondary sludge
- Excess sludge
- Centrate
- Other media upon request



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