NEMO® Industrial Pumps

NEMO® progressing cavity pumps are used in all sectors of industries to convey almost all types of media continuously, smoothly, with low pulsation and dosing in proportion to speed.

NEMO® BY

in block design

Performance
Flow rates up to 400 m^3/h at pressures up to 24 bar.

Fields of application
Industrial applications in environmental technology and in the food, oil and chemical industries for fluid to viscous media with and without solids.

Features
Compact design with directly flanged drive. Its low investment, operating and maintenance costs really make it stand out. Four rotor/stator geometries for optimum performance with every kind of application.

NEMO® SY

with bearing housing and drive shaft

Performance
Flow rates up to 500 m^3/h at pressures up to 48 bar (standard) or up to 240 bar (special applications).

Fields of application
Industrial applications in environmental technology and in the food, oil and chemical industries for fluid to viscous media with and without solids.

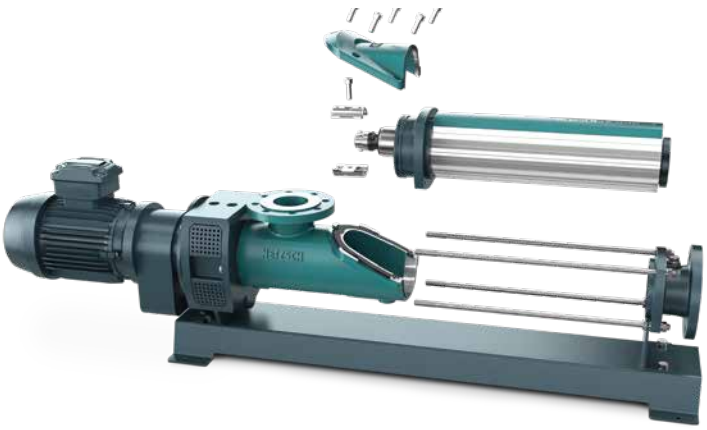
Features
Design with bearing housing and two-part shaft allows all types of drive to be used universally and makes servicing the rotating parts simple and fast. Four rotor/stator geometries for optimum performance with every kind of application.

NEMO® Progressing Cavity Pump in FSIP® design

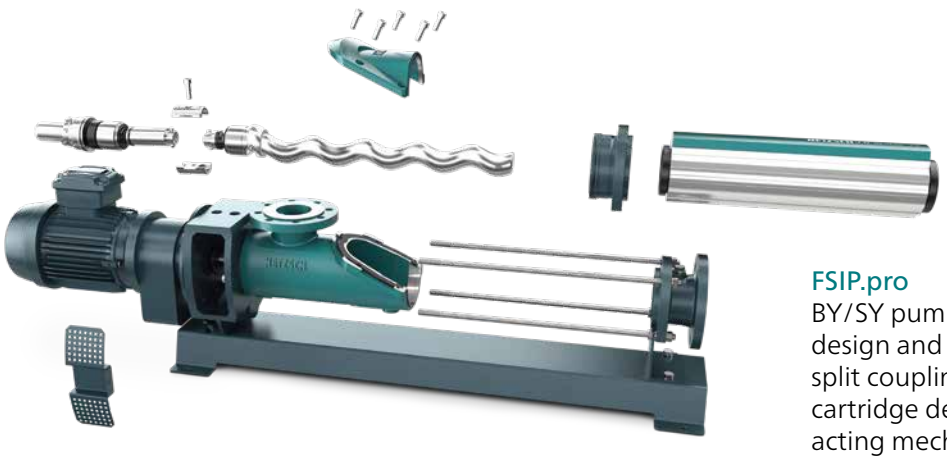
FSIP.ready, FSIP.advanced and FSIP.pro

Technique
The FSIP® design is fully compatible to the existing BY and SY series. The concept consists of three stages, FSIP.ready, FSIP.advanced and FSIP.pro, which are designed to upgrade already installed pumps step by step, or which are available for new installations according to the individual needs of our customers.

FSIP.ready
Basic BY/SY pump including revised housing design with large inspection cover, with standard drive train and various seal arrangements.



FSIP.advanced
BY/SY pump with new housing design and large inspection cover, split coupling rod and various seal arrangements. Rotor and stator can be serviced in place.



FSIP.pro
BY/SY pump with new housing design and large inspection cover, split coupling rod and 2 joints in cartridge design and MG 1 single acting mechanical seal for „Full Service in Place“.

NEMO® C.Pro®

Mini dosing pump in plastic design

Performance
Flow rates from 0.5 up to 1,500 l/h at pressures up to 20 bar.

Fields of application
Industrial applications in environmental and chemical technology to convey and dose low- to moderately viscous media with and without solids.

Features
High dosing accuracy (deviation of < 1%). Compact design with directly flanged drive.

Further information

NEMO® C.Pro®
Brochure NPS · 313

NEMO® Hygienic Pumps

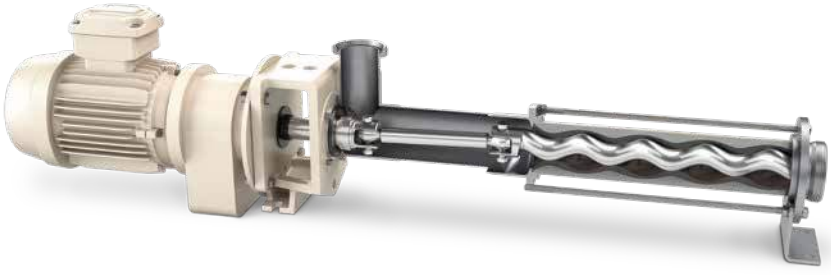
The pumps are designed and manufactured in accordance with EHEDG and QHD guidelines, are CIP/SIP-capable and comply with the US 3-A Sanitary Standards. Two rotor/stator geometries are available to ensure optimum performance*.

These pumps are suited for hygienic applications in the foodstuff, pharmaceutical, cosmetic and biotechnology industries for low and highly viscous media with and without solids.

*excluding NEMO® Mini BH

NEMO® BH

Hygienic pump

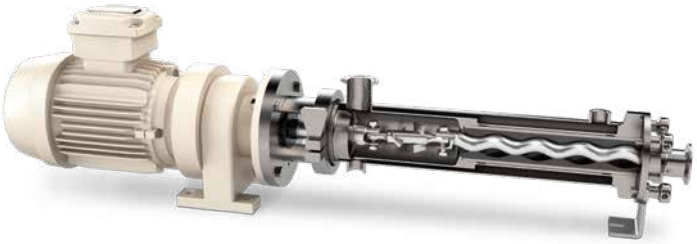


Performance
Flow rates up to 140 m^3/h at pressures up to 24 bar.

Features
Compact design with directly flanged drive. Its low investment, operating and maintenance costs really make it stand out.

NEMO® BH

Hygienic Plus Pumpe with heating jacket



Performance
Flow rates up to 40 m^3/h at pressures up to 12 bar.

Features
This pump is suitable for all hygienic applications in the foodstuff, pharmaceutical, cosmetic and biotechnology industries, especially for viscous media which have to be heated or cooled. The pump operates reliably and guarantees your process because the specially designed mechanical seals are arranged with no dead spaces, the housing and stator are heated, the products are conveyed smoothly and it can be cleaned to standard. It can also be taken apart easily for maintenance thanks to quick-fit connections. It is available with various rotor/stator geometries and has open hygienic pin joints, exposed housing seals, mixing elements on the coupling rod and a heating jacket over the entire length of the stator and pump housing. All surfaces that come into contact with the product are polished. This prevents medium deposits forming and facilitates cleaning.

NEMO® MINI BH

Hygienic Mini Plus Pump

Performance
Flow rates from 0.1 up to 500 l/h at pressures up to 36 bar.

Features
The flexible rod is free of dead space and is wear- and maintenance-free so that it can be used even with highly sensitive and abrasive products. High dosing accuracy (deviation of < 1%). Compact design with directly flanged drive gives you low investment, operating and maintenance costs.

NEMO® SH

Hygienic Plus Pump

Performance
Flow rates up to 140 m^3/h at pressures up to 24 bar.

Features
The flexible rod is free of dead space and is wear- and maintenance-free so that it can be used even with highly sensitive and abrasive products. The design with bearing housing and drive shaft means it can be used with all types of drives.

NEMO® SA

Aseptic pump

Performance
Flow rates up to 140 m^3/h at pressures up to 24 bar.

Features
The flexible rod is free of dead space and is wear- and maintenance-free so that it can be used even with highly sensitive and abrasive products. The pump housing has a reduced diameter and a product inlet displaced towards the shaft sealing (outlet in vertical installation). The pump chamber is therefore completely free of dead space and the flow of the product through the pump is also optimised. The cleaning ports are arranged tangentially and pressure port eccentrically for residue-free self-emptying. All sealing points are designed for steam or sterile condensate and the pipe work is installed ready for use to prevent contamination from the environment. As standard, the stator is supplied with reduced elastomer wall thickness for use at varying product temperatures and with a stator protector to prevent dry running and overheating. The design with bearing housing and drive shaft means it can be used with all types of drives.

Further information

Business Field
Food & Pharmaceutical
Brochure NPS · 308

NEMO® Hopper Pumps

We provide you NEMO® progressing cavity pumps in diverse designs and materials, designed according to the location of use. Low viscosity and also abrasive sludge is reliably conveyed using our pumps with flanged connections.

For media with a high dry material content, such as de-watered sludge are available either for different designs of the NEMO® hopperpumps with screw conveyors or also with our aBP Module® to prevent bridging.

* Technical notes: the hopper dimensions can be adjusted to suit the specific application.

NEMO® BO/BS

in block design with directly flanged drive or as NEMO® SO/SS with bearing housing and drive shaft

Performance
Flow rates up to 200 m^3/h at pressures up to 24 bar.

Fields of application
Industrial applications in environmental technology, the food industry and the chemical industry for viscous to non-free flowing media with and without solids.

Features
Housing with rectangular/quadratic feed hopper and coupling rod with conveying screw with compression chamber for improved product feeding into the conveying elements.

NEMO® B.Max®

in block design with directly flanged drive or with bearing housing and drive shaft

Performance
Flow rates up to 70 m^3/h at pressures up to 48 bar.

Fields of application
Industrial applications in biogas and environmental technology for viscous to non-free flowing media with and without solids.

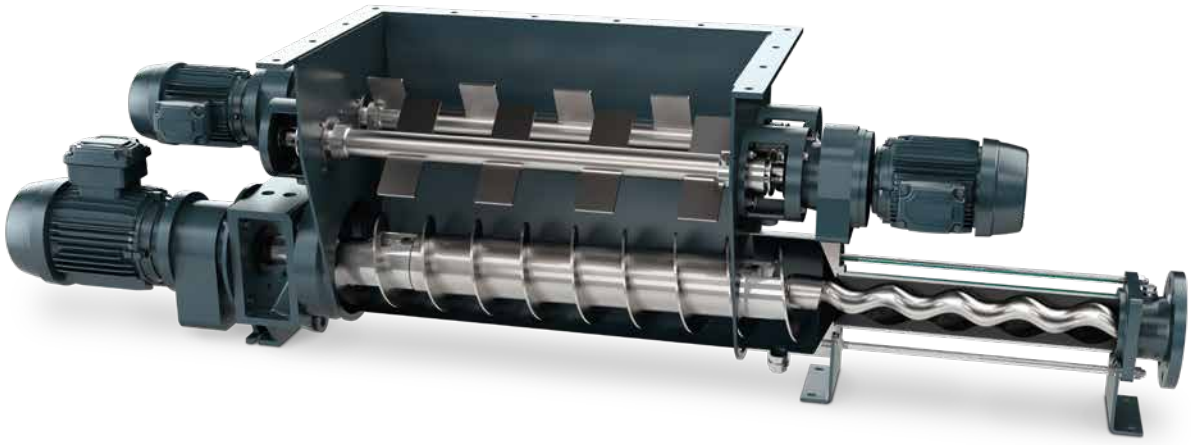
Features
Housing with large, rectangular feed hopper, coupling rod with patented, horizontally positioned conveying screw for optimum product feeding into the conveying elements. The additional, hydrodynamically designed flushing stud installed on the hopper housing ensures the substrates are fed and mixed optimally into the biomass.

Further information

Pulp Feeding
Brochure NPS · 061

NEMO® BP

in block design with directly flanged drive or NEMO® SP with bearing housing and drive shaft



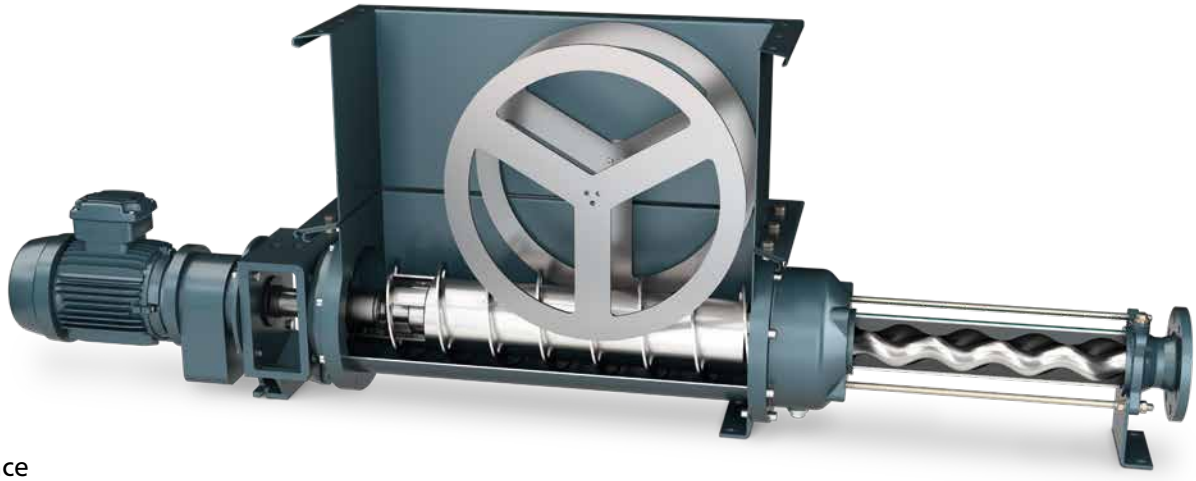
Performance
Flow rates up to 200 m^3/h at pressures up to 48 bar.
NEMO® BP/SP available from size NM090.

Fields of application
Industrial applications in environmental technology, the food industry and the chemical industry for compacted, lumpy and crumbly media that tends to bridge.

Features
Housing with integrated bridge breaker to prevent bridging and to mix in additives, enlarged rectangular feed hopper and removable, cone-shaped compression chamber, coupling rod with patented, horizontally positioned conveying screw for optimum product feeding into the conveying elements.

NEMO® BF optional mit aBP-Module®

in block design with directly flanged drive or NEMO® SF with bearing housing and drive shaft



Performance
Flow rates up to 200 m^3/h at pressures up to 48 bar.
NEMO® BF/SF with aBP-Module® available from size NM045 to NM090.

Fields of application
Industrial applications in environmental technology, the food industry and the chemical industry for highly viscous, compacted and crumbly media. For media that tend to bridge, the pump is fitted with the optional aBP-Module®.

Features
Housing with enlarged, rectangular feed hopper and with removable, cone-shaped compression chamber, coupling rod with patented, horizontally positioned conveying screw for optimum product feeding into the conveying elements.

Further information

aBP-Module®
Brochure NPS · 070

NEMO® Immersible Pumps

NEMO® Immersible Pumps are used to empty barrels, containers, tanks, sedimentation tanks, pits etc. and where space is restricted, there is a risk of cavitation or there is very low NPSH. The pumps are also used to empty containers holding materials that are hazardous to water or the environment for which standard emptying via a flange on the bottom of the container is not permitted.

NEMO® Immersible Pump BT

with suspension bracket

This pump is used to empty open barrels and containers. It is fitted with a clamp to be suspended from a crane. Immersion depth up to 3m.

Performance
Flow rates up to 140 m^3/h at pressures up to 24 bar. Depending on the specific application, various models/immersion variants are available. The immersion depth is adapted specifically to the application.

Features
Compact design with directly flanged drive. Four rotor/stator geometries for optimum performance with every kind of application. Immersion depths up to 10m. The immersion tube length can be modified by extending the pump housing, adding a suction pipe or by a combination of the two.