

NEMO® B.MAX®

A BENCHMARK IN MIXING TECHNOLOGY

Features and design

The NEMO® B.Max® mixing pump sets new standards through optimum mixing and conveyance of your bio-substrates. It is a perfectly tailored feeding technology for your biogas application.

Broad range of applications

The NEMO® B.Max® is particularly well suited to the following media:

- Fermented, renewable raw materials
- Liquid manure
- Process water
- Macerated bio waste and leftover food
- Pre-processed slaughter waste
- Co-substrates
- Concentrated substrate
- Silage

Large capacity and pressure range

- Capacities up to 70 m³/h
- Pressures up to 48 bar

Additional features

- Optimum feeding and mixing of substrates into the biomass through optimally positioned feed tubes on the hopper housing
- Pump housing with large, rectangular feed hopper with inspection opening
- Coupling rod with patented, horizontally positioned conveying screw for optimum product feed into the conveying elements and for mixing
- Removable, conically shaped compression chamber with inspection openings

Advantages

- Maximum homogenisation of the substrates
- Increased gas production
- Continuous, low-pulsation conveyance irrespective of pressure and viscosity
- High pressure capacity
- Robust shaft sealing
- Low investment and operating costs
- High operational reliability



The length of the hopper depends on the installation situation.



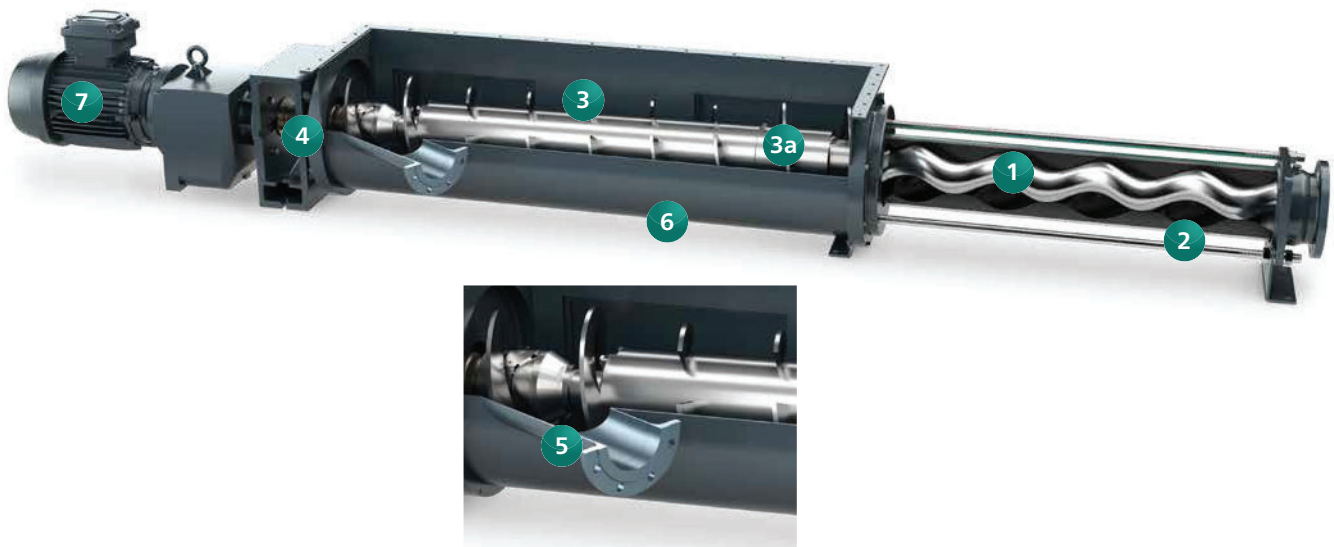
For improved substrate mixing the supply of the liquid is opposite to the direction of pumping.



Easy maintenance through large inspection cover.

NEMO® B.Max®

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



1 Rotor

In wear and corrosion-resistant models.

2 Stator

Vulcanised into the tubes with seals on both sides in a wide variety of elastomers. Stator inlet with funnel-shaped opening to improve product infeed into the conveying chamber.

3 Mixing and screw conveyor

The reinforced and offset spiral lobes of the mixing and screw conveyor ensure maximum mixing and homogenisation of the media. The patented, horizontally

positioned feeding screw guarantees an optimum fill level for the conveying chamber. As an option, metal protection sleeves and joints provide further safeguards.

3a Two-part screw conveyor

The feeding screw is in two parts to be able to replace the part on the pressure side, which is exposed to the most stress, separately. This saves costs and facilitates the service work.

4 Shaft seal

Use of a single-acting, robust mechanical face seal for the highest operational reliability requirements.

5 Feed tube

Optimum positioning of the feed tube contra to the direction of conveyance means maximum mixing of the substrates.

6 Inspection openings

Large, easily accessible inspection openings for easy cleaning and maintenance.

7 Drive

The compact block design with directly flanged drive make it stand out due to low investment, operating and maintenance costs.