

Revolutionary Design is Shear Genius

When it comes to innovative design, compliance with the strictest standards and unmatched flexibility, you need look no further than the **NOVAlobe** available from **The Pump Company Ltd.**

The NOVAlobe range of rotary lobe pump is specifically designed for viscous media and for applications where gentle pumping or dosing is required.

Part of the **Grundfos** range of Sanitary pumps the NOVAlobe design is shear genius. Based upon the recommendations laid down in the 3A sanitary standards, the Qualified Hygienic Design principles (QHD) and The European Hygienic Engineering Design Group (EHEDG), the flexibility of the pump is unmatched. With the ability to combine standard components to customise the pump to meet every requirement.



So what's new :-

The unique rotor mounting design incorporates precision ground cylinders as drive and rotor location device. The benefit of this is a very accurate connection between rotor and shaft that eliminates any play.

A choice of rotor design:-

- Uni-wing rotors – for gentle solids handling and doughy products
- Standard Bi-Wing rotors – a robust and popular choice for most applications
- Cycloidal multi-lobe rotors – offer low shear and gentle product handling with the lowest pulsation levels achievable with lobe pumps



Service Friendly:-

- The NOVAlobe is designed to minimise downtime for easy service.
- The seal is front loaded and mounted on a replaceable shaft sleeve in a cartridge arrangement
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The seal options cater for different applications and media



- Single mechanical seal
- Single flush mechanical seal
- Double mechanical seal
- O ring/ Lip seal

Horizontal or Vertical mounted ports:-

The pump has the benefit of being installed either horizontally or vertically depending upon your system – however, mounted vertically the pumps comply with sterile specifications to ensure full drainability

Robustness:-

All pumps are designed with an optimum for robust construction, minimising the shaft deflection and any play in the pump
All pumps are designed for differential pressure up to 16 bar which minimises galling to a minimum.

Additional options:-

- Pressure relief valves
- Thermal jackets
- Aseptic steam flushed front cover and seal arrangement
- Various connections

Technical Data:-

- Differential pressure 16bar(up to 30bar on request)

- Operating Pressure Up to 40bar
- Displacement 0.03 – 1.90 litre/rev
- Operating Temperature 150°C (up to 300°C on request)
- Max Viscosity 1,000,000 cP

Applications:-

- Food and Beverage (eg, dairy, food processing, drinks, confectionary& meat)
- Pharmaceutical (eg, fermentation, glucose, emulsions, blood products)
- Biotechnology (eg, enzymes, bacteria)
- Personal Care (eg, soap, shampoo, toothpaste, lotion, cosmetics)
- Chemical Industry (eg, paint, wax, oil, glycerine, paraffin, rubber additives)
- Paper Industry (eg, coatings, polymer dosing)

The **NOVAlobe** is another example of **The Pump Company Ltd** providing

“Solid Answers to Fluid Questions”

