

NETZSCH

Proven Excellence.



aBP-Module®

Continuous product feeding without bridging

Pumps & Systems

The efficient system to prevent bridging

Function and Construction

With its aBP-Module® NETZSCH provides an innovative solution against bridging. This system is available and adaptable for all NETZSCH open hopper pumps to ensure continuous conveyance of your product, no matter what.

aBP stands for

asynchronous
Bridge
Preventing

Problem

Bridging is a persistent issue in sewage sludge handling applications. It occurs when thick and dry dewatered sludge cakes together and bridges between the side walls above the auger of the pump. This blocks off the pump opening thereby ceasing its operation. The process backs up, overflows, and trigger alarms until the maintenance crew can clean up, and reset alarms creating a shutdown and costly delay.

Function/Solution

The aBP-Module® consists of a top hopper with two (or more) inner spoked wheels. The spoked wheels are located close to the hopper walls, creating the effect of “moving hopper walls” which generates a shearing effect in the product.

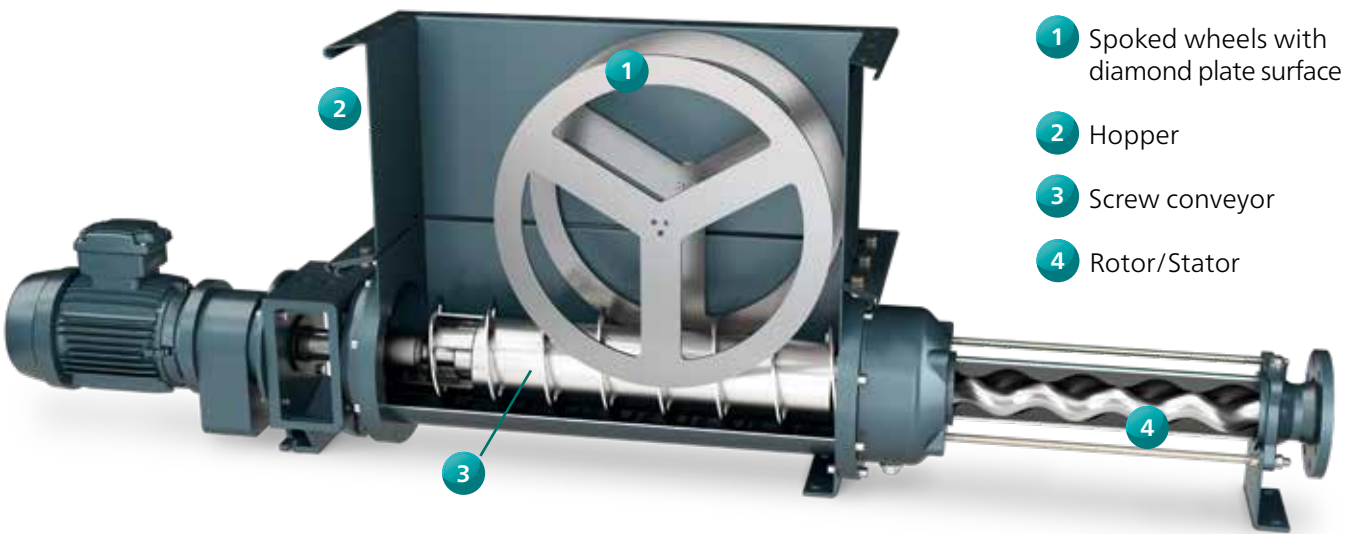
The speed difference of the spoked wheels, which is independently adjustable, creates the required shearing effect, thereby reliably preventing bridge building inside the hopper. The structured surface of the spoked wheels further supports product movement.

Advantages

- No bridge building
- High operational safety
- Variable, independent speed
- Ideal adjustment of the differing speed of spoked wheels to the characteristics of the pumped product
- Optimal filling of screw conveyor
- Reliable product feeding towards screw conveyor
- Safe measuring and controlling of filling due to free shaft centre
- Compatibility with all NEMO® open hopper pumps pumps series BO/SO and BF/SF
- Retrofittable without modification of pump
- Sturdy construction
- Maintenance friendly
- No restriction as with conventional bridge breaking paddles
- No shaft deflection



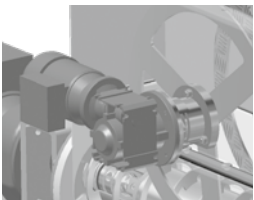
Example of a NETZSCH aBP-Module®



- 1 Spoked wheels with diamond plate surface
- 2 Hopper
- 3 Screw conveyor
- 4 Rotor/Stator



Hopper is customizable, spoked wheels have diamond plate surface



Drive

Additional Characteristics

Material:

- Steel and/or stainless steel 304 or 316

Drives:

- Two independent drives with worm gears, speed control by a VFD
- Independent from pump speed
- Optional drive direction

Series:

- Series BO/SO and BF/SF
- All Sizes
- Customizable hopper length



The owner-managed NETZSCH Group is a leading global technology company specializing in mechanical, plant and instrument engineering.

Under the management of Erich NETZSCH B.V. & Co. Holding KG, the company consists of the three business divisions Analyzing & Testing, Grinding & Dispersing and Pumps & Systems, which are geared towards specific industries and products. A worldwide sales and service network has guaranteed customer proximity and competent service since 1873.

The NETZSCH Business Unit Pumps & Systems offers NEMO® progressing cavity pumps, TORNADO® rotary lobe pumps, NOTOS® multi screw pumps, PERIPRO® peristaltic pumps, macerators/grinders, dosing technology and equipment that are custom built for challenging solutions for different applications globally.

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