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**NETZSCH**



## Grinding Systems

Product Overview, Technology and Application Areas



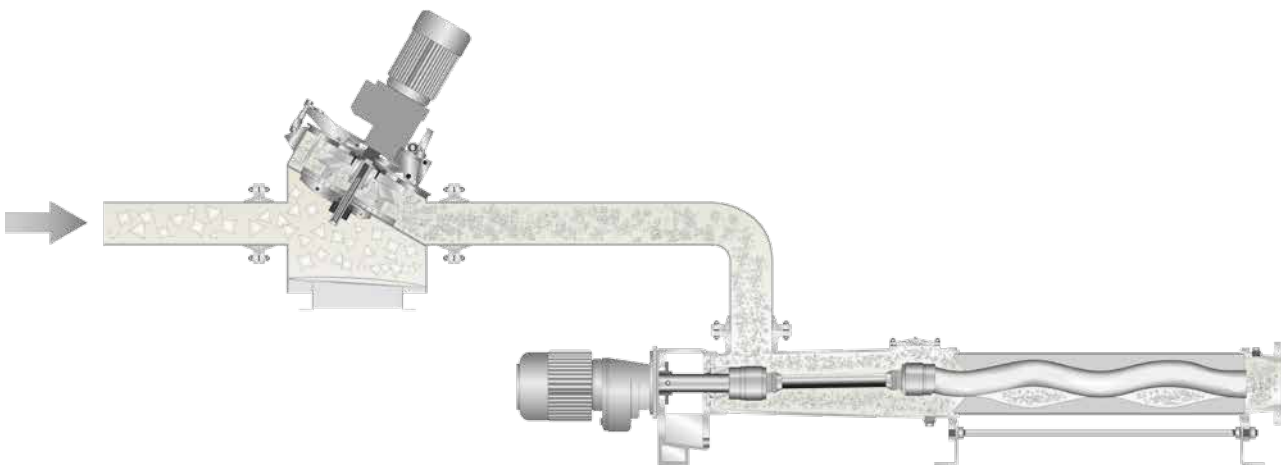
## The Right Model for Every Application

### NETZSCH Cutting Plate Macerator M-Ovas®

The special shape of the housing directs solid particles in the waste water towards the cutting plate, where they are held and chopped by the rotating blades.

### Taskmaster® Twin Shaft Macerator\*

The twin shaft macerators has been designed for applications where the medium contains large solid objects. Dependent on the size reduction requirements there is a choice of different tooth and spacer plate combinations.



NEMO® BY progressing cavity pump with  
a cutting plate macerator M-Ovas®

# M-Ovas<sup>®</sup>

## CUTTING PLATE MACERATOR

The NETZSCH M-Ovas<sup>®</sup> macerator for coarse materials is ideally suited for use in biogas plants where impurities in the medium reduce process reliability. The solids in the medium are reliably macerated or separated from the medium (e.g. stones), to prevent pipes getting blocked or damage to downstream equipment.

### Broad range of applications

The NETZSCH M-Ovas<sup>®</sup> should preferably be used to macerate the following media:

- Fermented, renewable raw materials
- Slurry
- Bio waste
- Slaughter waste
- Manure

### High flow rates

- Throughput rates of up to 70 m<sup>3</sup>/h for substrates of up to 12 % dry solid content

### 1 Housing

A hydrodynamic design with integrated stone trap for solids, and a clean-out port. The sediment can easily be removed by opening the cover plate. The housing is galvanized to ensure corrosion resistance. Available in stainless steel (optional).

### 2 Housing Cover

Cutting unit integrated into housing cover. A gas strut is fitted to the cover to assist opening. This allows for easy cleaning of solids in the stone trap. comprise of six cutters and six spacing rings. To reach the required particle size, a selection of different blades is available.

### 3 Cutting Unit

Cutting plate of wear resistant, hardened steel. Optimum cutting performance through a cutting unit by a fixed cutting mechanism. Blades made from wear resistant hardened steel. The flywheel effect of the cutter head reduces the installed power. Easy exchange of cutting plate and cutting blades without the necessity to disassemble the pipework.

### 4 Shaft Seal

Hard metal faced mechanical seal with oil quench to prevent product leakage.

### Advantages

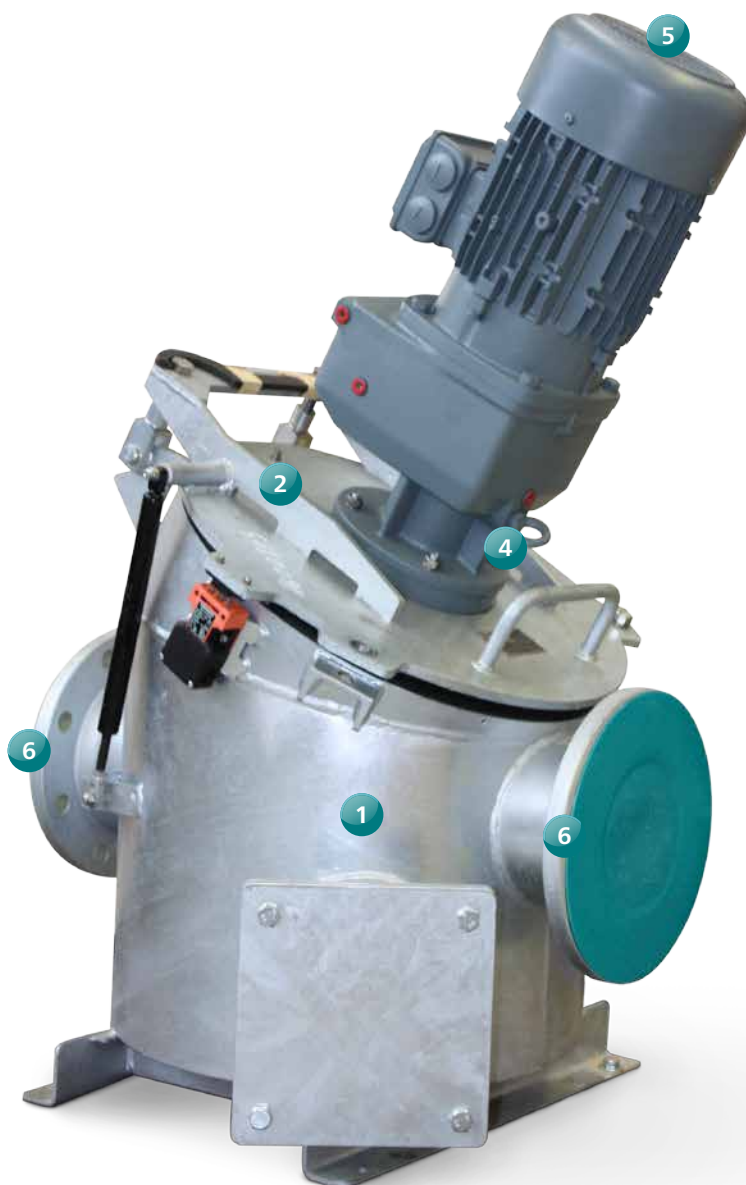
- Compact design with high throughput rate
- Simple, easy disassembly of the cutting plate
- Low energy requirement with high throughput rate
- Integrated separator vessel with separate cleaning and drainage aperture
- Effortless disposal of the sedimented materials through easy access
- Shaft sealing using mechanical seal with lubrication
- Particularly maintenance friendly
- Cutting plate usable on both sides
- Different perforated plates depending on the application

### 5 Drive

The standard drive unit has reinforced bearings.

### 6 In-line Version

Product inlet and outlet are positioned on the same level. The NETZSCH M-Ovas® can be directly connected to a horizontal pipeline or to a NEMO® pump inlet where the flange is set at 90°.



# Taskmaster®

## TWIN SHAFT MACERATOR\*

The twin shaft macerator is used for applications with particularly coarse and solid substrates. The twin shaft macerators impress with their robust design, simple operation and high performance. They offer the optimum performance, even in the most extreme conditions.

The twin shaft macerators ensure free flow and so preserve or protect the downstream pump units and system parts.

Depending on the application, five different Taskmaster® twin shaft macerators\* can be used in various designs. The very slow, variable speed of the shafts means the twin shaft macerators offers the option of self cleaning. The low drive power with particularly high flow rate enables cost-effective use.

### Broad range of applications

The twin shaft macerators should preferably be used with media in the following industries:

- Biogas plants
- Agriculture
- Slaughterhouses and recycling plants
- Canning factories
- Industrial kitchens
- Sugar factories

### High flow rates

Flow rates up to 300 m<sup>3</sup>/h with a solid content of up to 10 %.

### 1 Housing

A robust hydrodynamic inline housing which can be directly connected into a pipeline. Also available as channel unit.

### 2 Cutting unit

High quality blades made of special steel reliably macerate the solids in the medium. The cartridge units comprise of six cutters and six spacing rings. To reach the required particle size, a selection of different blades is available.

### 3 Shaft Seal

The shaft is sealed with a cartridge type mechanical seal.

### Advantages

- Robust design, simple operation and high performance
- High operational reliability thanks to simple maintenance due to the knife-cartridge technology
- Very low operating costs due to optimum efficiency level
- Optimised price-performance ratio

#### 4 Bearing

Robust bearings on both ends of the shafts ensure smooth running and prevent the shafts from spreading when especially hard solids are encountered.


#### 5 Lantern

Via an elastic coupling with flange every IEC motor or drive can be accommodated.

#### 6 In-line Version

Product inlet and outlet are positioned on the same level. The twin shaft macerators can be directly connected into a horizontal pipeline or to a pump inlet of a NEMO® pump or a TORNADO® industrial rotary lobe pump, where the flange is set at 90°.





The NETZSCH Group is a mid-sized, family-owned German company engaging in the manufacture of machinery and instrumentation with worldwide production, sales, and service branches.

The three Business Units – Analyzing & Testing, Grinding & Dispersing and Pumps & Systems – provide tailored solutions for highest-level needs. Over 3,400 employees at 210 sales and production centers in 35 countries across the globe guarantee that expert service is never far from our customers.

The NETZSCH Business Unit Pumps & Systems offers with NEMO® progressing cavity pumps, TORNADO® rotary lobe pumps, NOTOS® multiple screw pumps, macerators/grinders, dosing technology and equipment custom built and challenging solutions for different applications on a global basis.

NETZSCH Pumps & Systems – Solutions you can trust ■

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