

**DM**

Continuous Mixers



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### Application areas:

- Tunnelling
- Special foundation engineering
- Shield tunnelling
- Hydro shield operation
- Diaphragm wall
- Cut-off wall

### Mixing of:

- Bentonite slurries
- Cut-off wall components

### Technical Data / Performance Data <sup>1)</sup>

Mixing capacity	8 - 30	m <sup>3</sup> /h
Slurry density	max. 1200	kg/m <sup>3</sup>
Mixing components	2	1 x liquid / 1 x solid
Solids grain size	max. 1	mm
Dosage liquids	manual	hand control valve
Dosage solids	electrical	rotary valve with adjustable speed
Dosing capacity solids <sup>2)</sup>	500 - 2500	kg/h <sup>2)</sup>
Drive power mixer	18,5	kW
Mixer outlet	Storz B	3" standard coupling DIN 14307, alternatively 3" IG
Connection	Storz C	2" standard coupling DIN14307, max. 6 bar; alternatively 2" IG
Power connection	CEE-plug	63 A, 5-pole
Power input	27	kW
Voltage	400	V; 50 Hz
Dimensions	3,0 x 2,44 x 2,59	m ( L x W x H)
Weight	approx. 2500	kg

<sup>1)</sup> The specified performance data are non-binding values that differ significantly depending on dosing, mixing and discharge times.

<sup>2)</sup> Theoretical values at 80% degree of filling of the rotary valve and a bulk density of 900 kg / m<sup>3</sup>

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Continuous Mixers

### Characteristics:

- dry running
- high mixing capacity
- low installation and commissioning costs
- optimal mixing quality
- manual regulation of slurry density
- automatic operating
- easy operation and maintenance
- low operating expenses
- little space requirement

### Features:

- ✓ **Colloidal mixer** for the preparation of slurries with all necessary inlet and outlet ports and emergency draining
- ✓ **Positioning** of mixing motor
- ✓ **Mixing rotor** with perforated mixing tools
- ✓ **Mixing drive** with three-phase motor and toothed belt drive
- ✓ **Water dosage** for the continuous, volumetric dosing of liquid with all the necessary pipe and hose line parts; water connection; magnetic-inductive flow measurement; ball valve with fitted swivel drive, electro-pneumatically operated and hand valve; cleaning line with ball valve and cleaning nozzle; hose length 5 m
- ✓ **Solid grain dosage** for continuous, volumetric dosing of the solid component with all the necessary connections and sealing elements; storage tank with 2 drain inserts in the tank lid  
compactor as discharge; venting filters  
2 rotor limit switch for storage tank empty / storage tank full;  
rotary speed controllable
- ✓ **Compressed air supply** for supplying the plant with the necessary control air with all required pipe and hose line parts; compressor with compressed air tank  
compressed air distribution with maintenance unit and pressure reducer  
additional air connection for cleaning and maintenance / quick coupling
- ✓ **Mixing container** for fixing and mounting of the above plant components with all necessary brackets, stiffeners and breakthroughs  
Container complete with:  
container corner fittings and forklift pockets  
bottom plate with bulb plate version  
1 double wing door with container lock  
connector sheet / electrical connections water connection  
slurry draining  
interior lighting

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### Features:

- ✓ **Operation manual** and list of spare parts
- ✓ **Electrical function and power control** for manual operation and automatic mixing operation (density adjustment manual)  
Control according to VDE regulations constructed completely ready for use, wired and function tested. The function is controlled by PLC. For operation and control, all necessary monitor display and operating elements are clearly incorporated in the control panel front; operating modes: manual / automatic  
In manual mode, all drives and valves can be switched individually by lighted buttons  
Connections for external consumers on the control;  
1 tubular screw conveyor for filling the storage tank 400V, 50 Hz; Max. 4,0 KW (screw conveyor is turned on in automatic mode when "storage tank empty" and turned off when it reaches the "full" message)  
1 compactor as discharger from the silo or big bag. Handling system; max. 0.3 KW (outlet is clocked when switching on the external tubular screw conveyor; cycle times adjustable);  
Alternatively, a solenoid valve for an air loosening can be controlled  
1 remote control for mixing operation Start / Stop or potential-free contact of Min / Max probe slurry tank
- ✓ **Operating and display elements**
  - Main switch ON/OFF
  - Selector switch Mixer Hand / Automatic
  - Lighted button automatic Start / Stop
  - Selector switch storage filling Hand / Automatic
  - Control panel (with the following menu options actual value display, operation parameter, service parameter, statistics)
  - Ampere meter (mixer power)
  - Emergency-off switch
  - Phase sequence fault
  - Lighted button Mixer On/Off
  - Lighted button Mixer draining Open/Closed
  - Lighted button Water Open/Closed
  - Lighted button Rotary valve On/Off
  - Potential meter Speed Rotary valve
  - Lamp for solid storage Min + Max
  - Lighted button Screw conveyor On/Off
  - Lighted button Pump On/Off
  - Lamp Storage tank Overflow

### Accessories (not included in delivery):

- suction hoses / pressure hoses

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