

Mixing Plant OM 600-36-jet



Fully automatic unit, with menu control
Application area: jet-grouting, soil mix, flush drilling, slurry-trench walls
Mixing material: solid agent suspensions
Integrated feed pump
Tank made of stainless steel



Technical Data

Drive	: electrical
Mixer drive	: 30 + 15 kW
Feed pump	: 7.5 kW
Total required power	: 54 kW
Connections	- Electric equipment with 54 kW total required power : 2 x CEE 63 A/ 400 V, 50 Hz
	- Water inlet : 1 x flange DN 100/ PN 16
	- Solid agents inlet : 1 x DN 200 quick coupling – m-part
	- Suspension outlet : 1 x DN 100
	- 24 V DC for magnetic valve for silo loosening up : 1-3 x sockets AF01A (option SD50)
	- 24 V AC agitator connection for silo : 1-3 x CEE 16 A (option SD6)
	- Potential free switch contact for auger on site : 1-3 x sockets AF10A (option SD21)
	- Remote control – wire or wireless : 1 x socket AF11A (SD9)
Dimensions (L, W, H)	: 2900 x 2120 x 2650 mm H
Weight	: approx. 4300 kg

Performance

Mixer: 36 m³/h at 33 double cycles / w/c 0.8

required power with charging augers

technical data as of May 2007, subject to change

OM 600-36-jet Assembly groups/machine technology

Frame:

- Tubular steel with roof cover
- Forklift slots
- Four lifting eyes
- Dust extraction filter
- Foldable rain protection roof
- Tarpaulins as weather protection (SE4) ³⁾
- Paint RAL 3000 (red)
- Paint according to customer's request (SL-RAL) ³⁾

Water dosage:

- Water tank of stainless steel, working capacity approx. 720 l
- Weighing of water quantity in mixer tank

Solid agent dosage for max. 2 solid agents:

- Solid agent addition with charging auger
- Weighing of the solid agent quantity in mixer tank

One solid agent component – A –

- Operation with one solid agent silo for – A – (FZ1/270) ³⁾
- spacer ZS1/270 – 1 pc.
- charging auger type FS 270-3.4 H – 1 pc.
- hydraulic connection for one charging auger

One solid agent component – A –

- Operation with two solid agent silo for – A – (FZ2/270) ³⁾

or

Two solid agent components (A) + (B)

- Operation with one solid agent silo for – A – and one solid agent silo for – B – (FZ2/270) ³⁾
- inlet distributor type 2/1
- charging auger type FS 270-3.4 H – 2 pc.
- reversible hydraulic connection for 2 charging augers

Two solid agent components (A) + (B)

- Operation with two solid agent silos for – A – as well as with one solid agent silo for – B – (FZ3/270/220) ³⁾
- inlet distributor type 3/1
- charging auger type FS 270-3.4 H – 2 pc.
- charging auger type FS 220-3.4 H – 1 pc.
- reversible hydraulic connection for three charging augers

Combined mixer and storage tank:

- 2 pc. tanks of stainless steel, working capacity 550/600 l
- Tank covers completely removable
- Cleanout opening at the bottom of the tank
- Three high speed mixer tools on an electrically geared vertical drive shaft without stuffing box
- Rotation speed will be reverted by the tool control from mixer operation to agitator operation
- Dry running of the mixer tools without problems
- Controlled bottom outlet valve

Feed pump CP 100:

- Drive performance 7.5 kW, 400 V, 50 Hz
- Double slide ring seal with pressure oil admission

3) optional – extra charge

Double suspension filter size 4 – DN 100:

- Reversible filter 1 / filter 2
- Filter pass 4 mm
- Water flushing valve in filter inlet

Hydraulic:

- Oil tank working capacity approx. 150 l
- Oil tank of stainless steel, suitable for bio oil
- Bio oil filling (Bio) ³⁾

Electrics:

- Electric motor for mixer and charging auger drive 30 + 15 kW, 400 V, 50 Hz, IP 54
- Phase differences indication
- Control voltage for valves and remote control 24 V DC
- Suitable for power supply with 60 Hz (Freq – 60) ³⁾

High pressure cleaner: (HDR) ³⁾

- Integrated in machine
- 3 plunger pump – 3 kW, 13 l/min, 120 bar

Operating and indication elements:

- Tester / plug for mixer control as full automatic menu control with additional operating tools for manual emergency operation

Remote control: ³⁾

- Cable remote control RC2
- Radio remote control RC4-WL
- Radio remote control RC ...

Mixing plant control:

- Mix Control 2
- graphic and text indication on black/white LCD 128 x 84
- data storage not possible
- Mix Control 3 (Mix 3) ³⁾
- graphic and text indication on colour LCD 800 x 600
- storage of mixture data

Special equipment:

- Liquid dosage (SA2...) ³⁾
- incl. flow rate measurement unit DN 15 – DN 40 for input of additives or fluid bentonite
- Flow rate measurement unit DN 80 (SC5/80) ³⁾
- Machine lighting (SF5) ³⁾
- Switch cabinet heating (SF6) ³⁾
- 2 kW electric heating in mixer room (SF9/2) ³⁾
- Connection for level sensor (SD7) ³⁾