

CCT
MALININ GROUP

MIXING PLANTS

for jet-grouting



Vortex 30

Vortex 30 high-capacity mixing plants allow preparing cement grouts containing up to 6 components, according to given weight ratio.

Field of application: jet-grouting, preparation of cement grouts for tunnel boring machines.

Vortex 30 plants are fully automatic and don't need constant presence of the operator.

The operator simply defines a mixing plant working programme for the whole shift.

Vortex 30 plants are available in two versions: in the container and on the frame.



Vortex 30 mixing plant

| | |
|---|----------------|
| Max. mixing capacity, m ³ /h | 30 |
| Mixer tank, l | 800 |
| Agitator tank, l | 2000 |
| Control system | automatic |
| Weighting terminal | + |
| Power consumption, kW | 18,7 |
| Dimensions, mm | 6058x2438x2591 |
| Weight, kg | 5400 |



On the top of the container are located fasteners for horizontal cement silo.

If it necessary several silos can be connected to Vortex 30 simultaneously.



Vortex 20

Vortex 20 mixing plants are intended for preparation of cement and bentonite grouts. Vortex 20 plants are equipped with weighting terminal. It allows increasing mixing capacity and performing works in automatic mode.

Field of application: anchor drilling, micro piles, soil consolidation, foundation works, underpinning.

Vortex 20 mixing plant



| | |
|---|----------------|
| Max. mixing capacity, m ³ /h | 20 |
| Mixer tank, l | 400 |
| Agitator tank, l | 1000 |
| Control system | automatic |
| Weighting terminal | + |
| Power consumption, kW | 15,5 |
| Dimensions, mm | 3000x2120x2500 |
| Weight, kg | 2200 |




Jet-grouting compact unit AtlantJET 20

AtlantJET includes mixing plant and high pressure pump are integrated in the standard container. On the top of the container are located fasteners for horizontal cement silo.

Application: jet-grouting, injection, AtlantJET anchors and piles installation.



| | |
|---|----------------|
| Max. mixing capacity, m ³ /h | 20 |
| Mixer tank, l | 400 |
| Agitator tank, l | 1000 |
| Control system | automatic |
| Weighting terminal | + |
| Max. pressure, MPa | 32 |
| Max. flow rate, l/min | 550 |
| Engine power, kW (h.p.) | 220 (300) |
| Power consumption, kW | 17 |
| Dimensions, mm | 6058x2438x2591 |
| Weight, kg | 13000 |



Mixing plants are suitable for preparation of cement or cement-clay grout.

Mixing plants consist of the following elements: mixer, agitator, control panel, frame.

The special mixing effect of cement or bentonite with water is archived in mixer by a high turbulence created in the pump casing. This turbulence with its high shear forces separates the cement or bentonite particles which results in a fully hydrated suspension.

As soon as the mixing process is over, the mix is transferred into the agitator. The slow stirring paddle prevents the grout from settling out of suspension and removes any air bubbles from the mix.

Mixing plants work in fully automatic, semiautomatic or manual modes. They are equipped with electronic weighting system, which allows mixing components according to given weight ratio.

Mixing plants have 1-year warranty.



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