

Z MAKINA

GROUT PLANTS





Z Makina produces a wide variety of mixing units. Depending on the customer requirements, the mixing units can be mounted on open skids or containerized, and endowed with manual or fully automatic controls. Z Makina produces compact injection plant units for colloidal mixing and injection of suspensions for a range of different applications as well. Combination of mixing units and grout pumps can be configured as per special projects. The system can consist of water tanks, horizontal/vertical silo, conveyor, etc. depending on the customized solutions on request.

The mixing plants' automatic operation is equipped with electro-pneumatic system upon load cells and a PLC that monitors the ingredient dosing, mixing time and slurry transfer to the agitator tank.

The control panel is located in separate with comfortable working conditions based on the climate conditions. The compressor and the electrical connections mounted in isolated conditions. That equipment can be manufactured for Zone 0, 1, 2 to follow the ATEX standards for equipment intended for use in areas at risk of explosion.

Z Makina offers a selection of jet grout plants with volumetric flow rates from 20 to 30 m³/h. Registration of desired number of mixes and rates of the ingredients for each single mix enables the continuous production. Mixing occurs in a high turbulence in primary mixer. At the end of the primary mixing cycle, the mixture is conveyed to agitator tank then to the pump. It enables high mixing capacity due to short mixing time. The control panel is located in separate with comfortable working conditions. It is equipped with manual or fully automatic controls.



Applications:

Anchor injection - Jet grouting - Drilling - Concreting - Cavity filling
Bottom injection - Tunnel applications - Dam injection applications

		ZM 20	ZM 25	ZM 30
Mixer Capacity	m ³ /h	1400	1750	2000
Agitator Capacity	lt	2750	3000	3400
Water Tank Capacity	lt	3000	3000	3000
Power	kW	40	45	45
Mixing Capacity	m/h	20	25	30
Hydraulic Tank	lt	200	200	200
Dimensions	mm	6000x2400x2600	6000x2400x2600	6000x2400x2600
Weight	lt/min	6000	6400	6800

They are especially designed for construction sites. The mixers/mixing units are available in manual operation, semi-automatic dosage of mixing components.

Z Makina supplies two types of mini grout plants as ZM5 and ZM10 with adequate technology incorporated to maximize equipment efficiency, yet not so much as to compromise ease of operation or maintenance. The concepts of ease of maintenance are focused in the design of Z Makina grouting systems.



Possible application areas are:

- Anchor, rock injection
- Ground stabilization
- Geothermal applications
- Well building
- Sewer renovation
- Sealing grouting
- Gap sealing
- Contact grouting
- Pipe roof grouting
- Sleeve pile injection
- Backfilling
- Cavity filling
- Special civil engineering
- Seal water sealing

Mixer		ZM5	ZM10
Mixer Tank Capacity	lt	350	500
Agitator Tank Capacity	lt	550	700
Mixing Capacity	m3/h	5	10
Hydraulic System			
Electric Motor	kW	7,5/15	11/22
Dimensions	mm	2200x1800x2000	2500x1800x2000
Weight	kg	2250	2500

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