

CUSTOM MADE SOLUTION



Large scale dosing plant

APPLICATION :

The plant consists of one HCM 2500 mixer, three pumps ZMP725 and an automatic control unit. The HCM mixer is equipped with a weight-batching system to allow automatic batching with bulk dry components. The system allows to mix water with cement, ultra-fine cement, fly ash, bentonite or other dry components. The water is fed via a water tank into the mixer, then the dry component is added from a silo by a screw conveyor. Precise dosing is guaranteed by a sophisticated weighing system in the mixer.

The electrical control includes a touch screen panel for input of all parameters and for operation in the automatic mode, as well as switches for manual operation.



TECHNICAL DESCRIPTION

Container:

- 20' container unit with full insulation and 2 x double wing doors
- 1 x HCM 2500 turbo mixing unit
- 3 x ZMP725V dosing pumps
- Hydraulic system pressure of 215 bar, capacity of hydraulic pump 65 l/min and oil content of 400 liter.
- 1 x automatic operating system with remote control

Batch mixer cycle (project dependent):

- 2000 liters water & 190kg bentonite
- Mixing cycle of 240 seconds
- Transfer speed of 60 liter/second
- Effective full cycle of 450 seconds
- Effective batch mixing output : 8 cycles of 2 m³ = 16 m³/hour

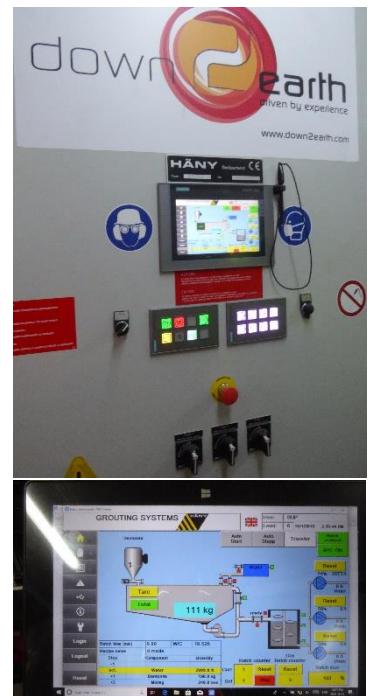
Operation:

- Output capacity max/unit is 195 liter/min
- Total maximum output for 3 units combined is 35 m³/h
- Operation via hydraulic pump system
- Fully automated system with large direct water discharge and screw conveyor feed for bentonite

ADVANTAGES

- High end grout mixing and pumping system at top price/quality ratio
- Fully autonomous operating system
- Joined design/manufacturing co-operation between Häny AG and Down2earth
- Robust components Swiss made
- Teleservice module for remote support (via local SIM card)
- Easy to understand operation via touch screen
- Different pre-settable batch mixture to choose from
- Optional: remote touch screen for operation out of control unit tunneling system
- Full data recording of mixed batches and quality of mixtures for QS and handover to client
- High quantity mixing and pumping capacity available if required
- Bentonite feeding via 3 lines into tunnel/machine by 3 ZMP725 grout pumps
- Both EU support via Down2earth and local technical support by Häny AG

It enables clients to **increase safety** and **decrease the manpower needed for its operations, resulting in a lower cost.**



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