

Häny Mixing and Injection Technology

# Grout Pump ZMP 610



Extremely compact and low-wear plunger pump for pumping suspensions with a low W/C ratio and mortar with sand content. Suitable for all injection work and for pumping backfilling mortar for segment lining of tunnels.



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# Grout Pump

## ZMP 610

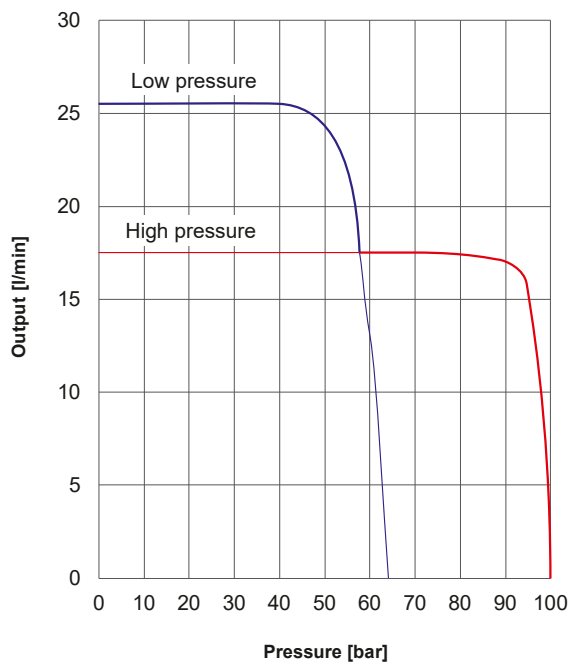
### Key features

- ▶ Extremely compact vertical injection pump for space-saving installation
- ▶ Infinitely variable limitation of injection pressure and delivery rate
- ▶ High reliability and low-maintenance operation with good accessibility to the wear parts
- ▶ Fast suction stroke to prevent clogging by flushing the valves
- ▶ Cooling water connection for continuous operation and high ambient temperatures

### Typical applications

- ▶ Injection of anchors, soil nails, and tension cables, as well as for sleeve pipes, rock, and contact injections
- ▶ Pre- and post-injections, pumping of bentonite suspensions for pipe and microtunnel driving and filling of pea gravel

### Pump performance



### Grout pump

Plunger Ø:	65 mm
Capacity <sup>1</sup> :	1.5 m <sup>3</sup> /h
Pressure max.:	100 bar
Pressure min.:	3 bar
Volume per stroke <sup>2</sup> :	0.82 l
Max. aggregate size:	5 mm
Hydraulic tank:	52 l
Pump module:	single
Cooling water flow rate:	2–3 l/min
Cooling water connection:	BSP 3/8"
Pressure connection:	BSP 1"
Suction connection:	BSP 1"

### Included as standard

- Manual pressure and flow control
- Oil level, temperature, and filter contamination indicator

<sup>1</sup> Water to cement ratio = 1

<sup>2</sup> Filling ratio = 100%

### Control

PLC
Lockable main switch, emergency stop
Pump ON-OFF

### Optional

- Remote control
- Data logging for pressure and flow rate



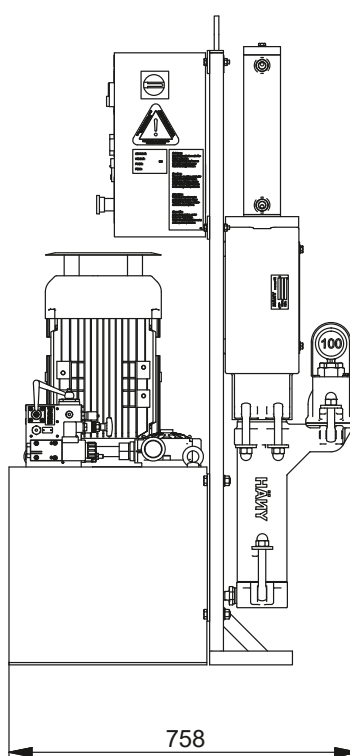
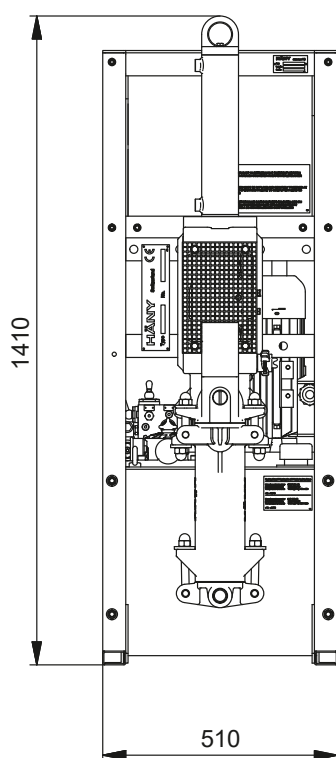
#### Electrical data

Voltage:	3x 400/460
Frequency:	50 / 60 Hz
Nominal power:	5.5 / 6.3 kW

#### Weight and dimensions

Approx. weight:	270 kg
Width:	510 mm
Height:	1,410 mm
Length:	758 mm

#### Construction and dimensions



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