

Häny Mixing and Injection Technology

# Compact Grout Plant IC 650/710



The compact grout plants consist of the proven Häny standard components Mixer, Agitator and Grout Pump. This setup is suitable for a wide range of applications such as anchoring, sleeve pipe, contact and backfill grouting. For higher outputs and increased quality control, the plants are also available in semi automated and fully automated versions.

**HÄNY**  
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# Compact Grout Plant

## IC 650/710



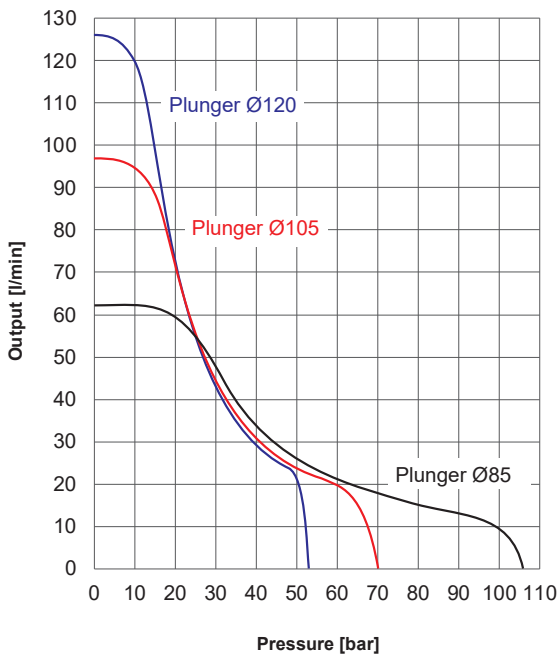
### Key features

- ▶ Extremely compact mixing and injection system with central lifting point for easy transport and minimum installation time.
- ▶ High productivity due to ergonomically positioned operating elements.
- ▶ High reliability and low-maintenance operation with good accessibility to the wear parts.
- ▶ Independent from pressure ratios, the suction stroke is always carried out at high velocity in order to flush the valves and to avoid clogging.

### Typical applications

- ▶ Grouting of anchors, soil nails, tension cables as well as for sleeve pipes, rock and contact injections
- ▶ Preparation and pumping of bentonite suspensions for pipe jacking and microtunneling

### Pump performance



### Grout Pump ZMP 710

|                           |             |
|---------------------------|-------------|
| Capacity <sup>1</sup> :   | 5 m³/h      |
| Pressure max.:            | 100 bar     |
| Aggregate size max.:      | 8 mm        |
| Hydraulic tank:           | 140 l       |
| Pump module:              | single      |
| Cooling water flow rate:  | 3 - 4 l/min |
| Cooling water connection: | BSP ½"      |
| Pressure connection:      | BSP 2"      |

#### Standard included

- Manual pressure and flow control
- Oil level and temperature sensor

#### Optional

- Pressure relief valve Grout Pump - Agitator, manual
- Low pressure control cartridge

### Mixer / Agitator

|                                      |            |
|--------------------------------------|------------|
| Mixing capacity mixer <sup>1</sup> : | 260 l      |
| Circulation capacity:                | 1400 l/min |
| Water connection:                    | BSP 1"     |
| Holding capacity agitator:           | 350 l      |

#### Optional

- Auxiliary mixing unit (recommended for W/C < 0.45)
- Automatic water meter 1"

### Control

|                                      |
|--------------------------------------|
| PLC with stroke counter              |
| Main switch lockable, emergency stop |
| Mixer ON-OFF                         |
| Agitator ON-OFF                      |
| Pump ON-OFF                          |

#### Optional

- Remote control with 50 m cable, ON-OFF
- P/Q-Registration

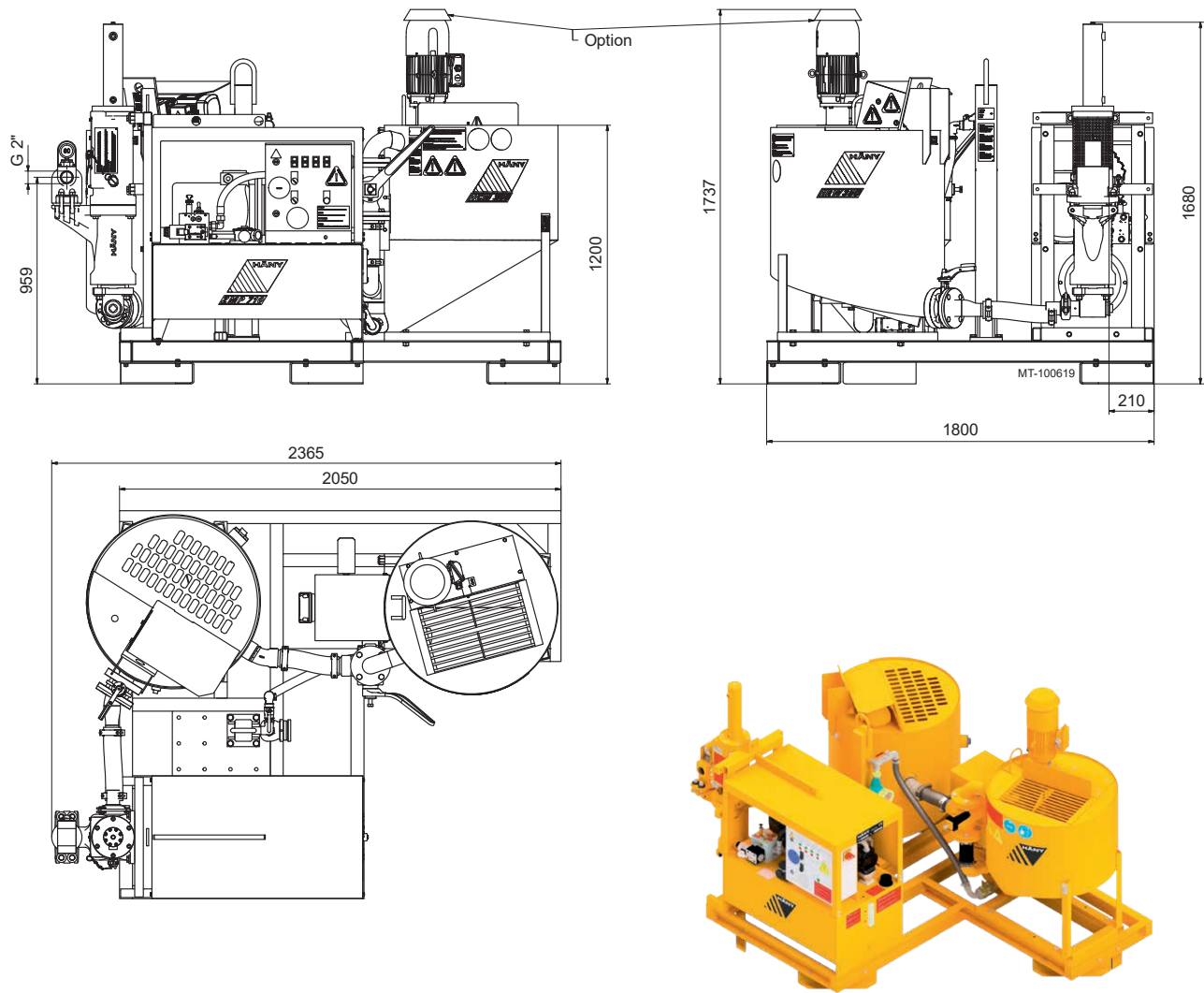
### Electrical data

|                |                |
|----------------|----------------|
| Tension:       | 3x 400/460     |
| Frequency:     | 50 / 60 Hz     |
| Nominal power: | 17.5 / 20.0 kW |

### Weight and Dimensions

|               |         |
|---------------|---------|
| Total weight: | 1180 kg |
| Width:        | 1800 mm |
| Height:       | 1737 mm |
| Length:       | 2365 mm |

### Construction and Dimensions



1: Water to cement ratio = 1