Grout Plants

Application areas:
- Anchor injection
- Grouting
- Cavity filling
- Micro tunnelling
- Ground injection
- Bentonite lubrication

Mixing of:
- Cement slurries
- Anchor grout
- Bentonite slurries
- Filling material for peripheral sealing
- Insulation slurries
- Fly ash slurries

Technical Data / Performance Data *

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixing capacity (20 batches/h)</td>
<td>3 m³/h</td>
</tr>
<tr>
<td>Effective mixer volume</td>
<td>150 l</td>
</tr>
<tr>
<td>Mixing water minimum</td>
<td>50 l</td>
</tr>
<tr>
<td>Mixer filling level (bag loading)</td>
<td>940 mm</td>
</tr>
<tr>
<td>Buffer tank volume</td>
<td>300 l</td>
</tr>
<tr>
<td>Flow rate</td>
<td>0 – 50 l/min, continuously adjustable</td>
</tr>
<tr>
<td>Discharge pressure</td>
<td>max. 100 bar, continuously limited</td>
</tr>
<tr>
<td>Solids grain size</td>
<td>max. 2 mm</td>
</tr>
<tr>
<td>Pressure connection</td>
<td>¾” IG</td>
</tr>
<tr>
<td>Water connection</td>
<td>Storz C</td>
</tr>
<tr>
<td>Cleaning connection</td>
<td>DN 20 Geka-claw coupling</td>
</tr>
<tr>
<td>Power connection</td>
<td>CEE-plug 32 A, 5-pole with phase inverter</td>
</tr>
<tr>
<td>Power input</td>
<td>16 KW</td>
</tr>
<tr>
<td>Voltage</td>
<td>400 V; 50 Hz</td>
</tr>
<tr>
<td>Dimensions</td>
<td>2.27 x 0.83 x 1.9 m (L x W x H)</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 820 kg</td>
</tr>
</tbody>
</table>

* The specified performance data are non-binding values that differ significantly depending on dosing, mixing and discharge times.
Features:

- **Batch mixer** 150 l capacity (colloidal mixer);
  fast running colloidal; debagging grid with safety-end switch;
  adjustable filling bar for rough water level indication and manual water dosage;
  3-way valve in the mixer-forced circulation; removable recirculation, for easy mixing tank draining

- **Agitator tank** 300 l capacity;
  slow running agitator; with inclined tank bottom for better tank draining,
  tank wall with cleaning opening; tank lid with inspection port and safety-end switch;
  suspension filter at tank inlet

- **Double plunger pump** vertically arranged;
  automatic ball valves (inlet and exhaust valves)

- **Water dosage** by manually operated ball valve

- **Separate connection** for cleaning hose including stopcock

- **Pump suction pipe** with quick couplings
  - **Pump pressure pipe** with 2 lubricated high-pressure ball valves
    (1 x pressure relief for agitator tank, 1 x pressure port plunger pump)

- **Hydraulic aggregate** with:
  - variable pump and fixed displacement pump
  - oil level indicator with minimum guard
  - return filter including visual contamination indicator;
  - oil cooler
  - venting nozzles
  - hydraulic control block with 2 hand wheels (1 x continuous adjustment of pump flow rate, 1 x continuous limiting of pump discharge pressure)

- **Steel frame** with suitable seats for forklift and pallet truck handling;
  central lifting eye on mixer tank

- **Electrical function and power control** with the following display and control elements:
  - Main switch ON/OFF
  - Mixer ON/OFF
  - Pump ON/OFF
  - Agitator ON/OFF
  - Diverse service counters
  - Operation hours counter pump
  - Emergency-off-button
  - Phase-control
  - Combined fault display
  - Operation mode switch
  - Stroke counter pump
  - Operation hours counter mixer

Accessories (not included in delivery):

- Remote control (cable or radio)
- Electrical adjustment of flow rate
- Electrical limitation discharge pressure
- Digital display discharge pressure
- Data logging
- Grouting hoses
- Cleaning hose
- Water meter
- Mixer scale
- LED launder (with tripod)
- High-pressure cleaner