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>3.0 m³/h</td>
</tr>
<tr>
<td>Effective mixer volume</td>
<td>150 l</td>
</tr>
<tr>
<td>Mixing water minimum</td>
<td>60 l</td>
</tr>
<tr>
<td>Mixer filling level (bag loading)</td>
<td>840 mm</td>
</tr>
<tr>
<td>Buffer tank volume</td>
<td>300 l</td>
</tr>
<tr>
<td>Water tank volume</td>
<td>150 l</td>
</tr>
<tr>
<td>Flow rate</td>
<td>0 – 95 l/min, infinitely variable</td>
</tr>
<tr>
<td>Discharge pressure</td>
<td>max. 100 bar, infinitely variable</td>
</tr>
<tr>
<td>Solids grain size</td>
<td>max. 2 mm</td>
</tr>
<tr>
<td>Pressure connection</td>
<td>1&quot; IG</td>
</tr>
<tr>
<td>Water connection</td>
<td>Storz C</td>
</tr>
<tr>
<td>Cleaning connection</td>
<td>DN 25</td>
</tr>
<tr>
<td>Power connection</td>
<td>CEE-plug</td>
</tr>
<tr>
<td>Power input</td>
<td>20 KW</td>
</tr>
<tr>
<td>Voltage</td>
<td>400 V; 50 Hz</td>
</tr>
<tr>
<td>Dimensions</td>
<td>2.04 x 1.61 x 2.3 m (L x W x H)</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 1500 kg</td>
</tr>
</tbody>
</table>

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

**Grout Plant IS-80-E (150l mixer)**

**Features:**

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

- **Agitator tank** 300 l capacity;
  - slow running agitator; inclined tank bottom for better tank draining,
  - tank wall with cleanout; tank lid with inspection port and safety-end switch

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

- **Water tank** 150 l capacity, optical level indicator; automatic filling control

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

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

- **Rinsing operation** optional pumping of slurry or water; changeover by manually operated shut-off valves

- **Pump suction pipe** with suction sieve

- **Pump pressure pipe** with 2 lubricated high-pressure ball valves
  - (1 x pressure outlet to agitator tank, 1 x pressure port to plunger pump)
  - Pressure pipe with pressure transmitter and visual pressure indicator (manometer 100 mm)

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

- **Steel frame** with working platform; central lifting eye; suitable seats for forklift and pallet truck handling; lashing rings for transportation lock

- **Electrical function and power control** with the following display and control elements including protective cover (against vandalism)
  - 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 for plunger pump (cable or radio)
- Electrical adjustment of flow rate (plunger pump)
- Electrical limitation discharge pressure (plunger pump)
- Digital display discharge pressure
- Workplace parasol (sun and weather protection)
- Data logging
- Grouting hoses
- Cleaning hose
- Water meter
- Mixer scale
- LED launder (with tripod)
- High-pressure cleaner