



picture similar

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*)

Mixing capacity (18 batches/h)	appr. 5	m³/h
Amount of mixing components (automatic operation)	2	1 x liquid 1 x solid
Effective mixer volume	280	l
Mixing water minimum	60	l
Mixer filling level (bag loading)	ca. 1100	mm
Buffer tank volume	560	l
Water tank volume	280	l
Flow rate continuously adjustable	20 - 100	l/min
Discharge pressure	max. 30	bar
Solid grain size	max. 2	mm
Pressure connection	VT 1"; Typ 25	motor coupling VT 1", alternatively 1" IG
Water connection	Storz C	1 ½" standard coupling DIN14307,
Cleaning connection	DN 25	Geka-claw coupling
Power connection	CEE-Plug	32 A, 5-pole with phase inverter
Power input	ca. 15	KW
Voltage	400	V; 50 Hz
Start/Stop signal cement screw	Harting Plug	4-pole
Transport dimensions approx.	2,30 x 1,42 x 2,19	m (L x W x H)
Working dimensions approx.	2,82 x 1,42 x 2,19	m (L x W x H)
Weight approx.	ca. 1210	Kg

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

Description:

The injection station IS-35-EA-big is a compact automatic mixing and injection system specially developed for construction site operation. It is particularly suitable for mixing and pressing bentonite and cement slurries, insulating and sealing wall compounds or other solids-containing slurries.

In automatic mode, the system can automatically produce slurries according to a stored recipe, pump it into the agitator tank and keep it ready for the injection pump. The processing of bagged goods is possible.

Features:

- ✓ **Batch mixer** 280 l capacity (Colloidal mixer); (Mixing tank made of stainless steel)
Fast running colloidal mixer; Mixer scale for manual and automatic Dosing of the mixing components, Cover with connection piece for cement auger; bag opener grid with safety end-switch electro-pneumatic operated double valve in the mixer-forced circulation and emptying pipe; removable emptying pipe for easy mixing tank draining.
- ✓ **Buffer tank** 560 l capacity; (Container and agitator made of stainless steel)
Slow running Agitator, 1-stage; Steel sheet tank with straight tank bottom and scraper; divided container lid, with removable protective grid with safety end-switch;
- ✓ **Eccentric screw pump** with frequency converter for stepless adjustment of the delivery rate; swivelling stator / rotor for transportation; Pump seal with separate grease feed chamber; auger with hinge;
- ✓ **Water tank** 280 l capacity; optical filling level indicator; automatic filling control
- ✓ **Water dosage** by means of coarse and fine dosing. Coarse dosing is done by an
- ✓ pneumatically operated valve, fine dosing by a pneumatically operated valve as well
- ✓ **Compressed air system** to supply the pneumatically controlled valves
- ✓ **Separate connection** for cleaning hose including stopcock
- ✓ **Steel frame** with suitable seats for forklift and pallet truck handling; central lifting eye and lashing eyes for safe transport
- ✓ **W-LAN module** without sim-card (on site)
 - location independent input of all functions via tablet or laptop / PC (not included) such as: recipe input, parameter input and borehole numbers input (if GERLOGG is connected)
 - data readout batch logging
 - data readout grouting data's (if GERLOGG is connected)
 - monitoring of all current operating conditions
 - possibility of remote maintenance or software updates by GERTEC without an on-site technician
- ✓ **Electrical function and power control** with the following display and control elements

<ul style="list-style-type: none"> • Main switch ON/OFF • Mixer ON/OFF • Pump ON/OFF • Agitator ON/OFF • Diverse service counters • Process control for automatic operation and operational data acquisition • Batch logging on USB stick • Rotating beacon (fault light) 	<ul style="list-style-type: none"> • Potentiometer pump power 0 -100 % • Phase-control • Combined fault display • Operating mode switch • Emergency-off-button • Signal output cement screw / silo vibrator
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Accessories (not in delivery included):

- Remote control (cable or radio)
- Data logging
- Grouting hoses
- LED launder (with tripod)
- Cement screw
- Cleaning hose

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Technical specifications are
subject to change

