



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 (15 batches/h)	ca. 22,5	m ³ /h
Effective mixer volume	1500	l
Mixing water minimum	500	l
Water tank volume	1400	l
Buffer tank volume	3000	l
Flow rate water dosing pump	approx. 1000	l/min
Flow rate	0 – 370	l/min, electrically infinitely adjustable
Discharge pressure	max. 90	bar, electrically infinitely adjustable
Grain size	max. 2	mm
Pressure connection	1 1/2 "	IG
Number of mixing components	3	1 liquid 2 solids
Water connection	3"	Storz B standard coupling DIN14307
Cleaning connection	DN 25	GEKA claw coupling
Power connection	2 x 125 A	terminal block, 5-pole
Max. power input	approx. 95	kW
Voltage	400 V / 50 Hz	3~
Dimensions	6,0 x 2,44 x 2,6	m (L x B x H)
Weight	approx. 7600	kg

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

Description:

The grout plant IS-150-EAC is a specifically developed compact automatic mixing and grouting plant for construction sites. The grout plant is particularly suitable for mixing and grouting of bentonite, cement, insulation slurries and sealing wall components or other solid containing suspensions. In automatic operation the grout plant can automatically produce slurries according to stored formulas, pumps them into the agitator tank and stores them for the injection pump.

Features:

- ✓ **Batch mixer** 1.500 l capacity (colloidal mixer) made of stainless steel;
Fast running colloidal mixing system; mixing scale for manually and automatic dosage of the mixing components, cover with connections for cement auger;
pneumatic operated valves in the mixer-forced circulation;
complete mixing tank draining
- ✓ **Agitator tank** 3.000 l capacity made of stainless steel;
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;
fill-level probe (ultrasonic sensor) 0-100 %
- ✓ **Double plunger pump** vertically arranged; automatic ball valves
- ✓ **Water tank** 1.400 l capacity, level indicator; automatic filling control
- ✓ **Water dosage** automatic dosing with accelerator pump; electro-pneumatically operated valves
- ✓ **Compressed air system**
- ✓ **Separate connection** for cleaning hose including stopcock
- ✓ **Pump suction pipe** with quick couplings; optional suspension or water (manually changeable)
- ✓ **Pump pressure pipe** with 2 lubricated high-pressure ball valves
(1 x pressure relief to agitator tank, 1 x pressure port plunger pump)
- ✓ **Hydraulic power unit** 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; pump flow rate and discharge pressure electrically infinitely adjustable (potentiometer)
- ✓ **20` Container** special design double door and additional side door
- ✓ **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

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Technical specifications are
subject to change
page 2 / 3

✓ **Electrical function and power control** with the following display and control elements:

- Main switch ON/OFF
- Mixer ON/OFF
- Pump ON/OFF
- Agitators ON/OFF
- Diverse service switches
- Potentiometer pump capacity 0 -100 %
- Potentiometer discharge pressure 0 -100 %
- Batch logging on USB-stick
- Operation mode switches
- Emergency-off-button
- Screw Conveyor I ON/OFF
- Screw Conveyor II ON/OFF
- Rotating beacon (fault light)
- Process control for automatic operation and operating data acquisition
- Display slurry pressure
- Level indicator agitator tank
- Indicator phase control
- Indicator fault
- Connector for remote control plunger pump

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page 3 / 3