



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 (25 batches/h) (w/s ratio 1.0)	approx. 12.5	m ³ /h
Effective mixer volume	500	l
Mixing water minimum	170	l
Water tank volume	450	l
Buffer tank volume	1500	l
Flow rate	0 – 210	l/min, electrically continuously adjustable
Discharge pressure	approx. max. 100	bar, electrically continuously limited
Grain size	max. 2	mm
Pressure connection	1 1/2 "	IG
Amount mixing components	3	1 liquid 2 x solid
Water connection	Storz B	2 1/2 "standard coupling DIN14307
Cleaning connection	DN 25	Geka claw coupling
Power connection	CEE-plug	2 x 63 A, 5-pole
Power input	approx. 42	KW
Voltage	400	V; 50 Hz
Dimensions	2,81 x 2,25 x 2,30	m (L x B x H)
Weight	approx. 2900	kg

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

GERTEC
Maschinen- und Anlagenbau
GmbH

Gewerbepark 3
D-87477 Sulzberg

Phone: +49 (0) 8376 98 7910
Fax: +49 (0) 8376 987 9199
info@gertec-gmbh.de

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Description:

The grout plant IS-120-EA is 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 fluid containing slurries. In automatic operation the grout plant can automatically produce slurries according to stored formulas, pump them into the agitator tank and stores them for the grouting pump. Processing of bagged goods is possible.

Features:

- ✓ **Batch mixer** 500 l capacity (colloidal mixer) made of stainless steel;
Fast running colloidal mixing mechanism; additional slow-running agitator inside the mixer storage tank; mixing scale for manually and automatic dosage of the mixing components, cover with connections for screw conveyor; alternative bag loading grid with safety-end switch; electrically operated 3-way valve in the mixer-forced circulation; removable recirculation for easy tank draining
- ✓ **Agitator tank** 1500 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** 450 l capacity, optical level indicator; automatic filling control
- ✓ **Water dosage** by electrically operated ball valve
- ✓ **Pneumatic system**
- ✓ **LED-spotlight**
- ✓ **high pressure cleaner**
- ✓ **Separate connection** for cleaning hose including stopcock
- ✓ **Pump suction pipe** with quick couplings
- ✓ **Rinsing mode**; optionally pumping of slurry or water possible; switching by electric operated butterfly valves
- ✓ **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; pump flow rate and discharge pressure electrically continuously adjustable (potentiometer)
- ✓ **Steel frame** with working platform, central lifting eye; forklift pockets
- ✓ **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:

- ✓ Main switch ON/OFF
- ✓ Mixer ON/OFF
- ✓ Phase-control
- ✓ Pump ON/OFF
- ✓ Agitator ON/OFF
- ✓ Diverse service counters
- ✓ Process control for automatic operation and operating data acquisition
- ✓ Rotating beacon (fault light)
- Potentiometer pump capacity 0 -100 %
- Potentiometer discharge pressure 0 -100 %
- Batch logging on USB-stick
- Combined fault display
- Operation mode switch
- Emergency-off-button
- Signal output screw conveyor

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