

# Injection-Pump-Container

## IPC 4-63-E-B-HGV

with 4 installed Injection-Pumps IP 63-E-B-HGV



### Technical Data

Quantity of Injection-Pumps 4 pc. Type IP 63-E-B-HGV  
 Drive Electro-hydraulic, frequency controlled  
 Drive Power 30,0 kW  
 Total Power Consumption approx. 36,5 kW

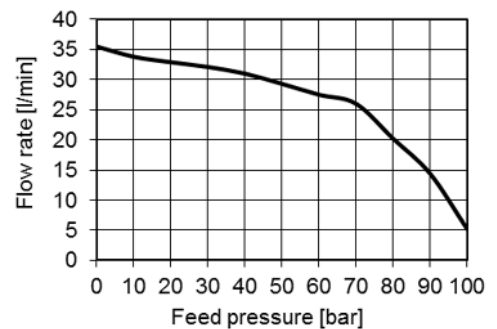
Connections  
 Electrical 2 x CEE 63 A / 400 V AC, 50 Hz, IP 54  
 Water inlet (wash basin) G ½ BSPP IG DN 15 - Geka  
 Water outlet (wash basin) G 2 BSPP DN 50 - drain pipe

In-/Outlets each Pump  
 Suction line G 1 BSPP IG DN 25 - RD 38  
 Pressure line G 1 BSPP IG DN 25 - RD 38  
 Circulation line G ¾ BSPP IG DN 20 - RD 32

Dimensions (L x W x H) 4.800 x 2.450 x 2.650 (mm)  
 Weight approx. 6.400 kg

Application Pumping / injecting of cement-, micro-cement, fly ash and bentonite suspensions at injections, anchorings, fillings, groutings and sealings

Performance of each Delivery Pump IP 63-E-B-HGV  
 Pressure max. 100 bar<sup>1)</sup>  
 [max. 1.450 psi]<sup>1)</sup>  
 Flow rate max. 35 l/min.<sup>1)</sup>  
 [max. 9,3 gal U.S.]<sup>1)</sup>



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### Standard Features

#### Framework

container frame made of steel with casing and partition panel, interior lining made of PVC rigid foam sheets and partition panel, hard wood floor with floor drain and hose outlets, four towing devices, machine room sound proofed and thermos insulated, separate room for machine operator, separate room for hydraulic drives, lockable doors, partition wall with window and sliding door inside, inside finishing 2K-paint RAL 7035 (light grey) and outside finishing 2K-paint RAL 5005 or on customer desire unicoloured

#### Electric Drive

4 x electric motors 7,5 kW, 1.500 rpm, 400 V AC, 50 Hz, IP 54 (4 x frequency controlled with external ventilation), four speed levels each motor (adjustment according to application), automatic phase correction, motor safety switch, control voltage 24 V DC (for valves and remote control), operating hour meter

#### Hydraulic

oil tank volume 470 l [124 gal U.S.], 4 x double gear pumps, oil cooler with thermostat, 4 x main and control oil filters, oil filling and ventilation filter, electrical oil filter pollution control, oil level and temperature indicator, 4 x manometers for hydraulic and control pressure, 4 x membrane accumulators, 4 x pressure and flow infinitely variable

#### Each Delivery Pump

vertical two-plunger pump Ø 63 mm, flow rate per double stroke  $V = 1,0$  l [0,26 gal U.S.], pump valves (suction- and pressure line) hydraulically controlled, circulation and pump-down valves hydraulically controlled, flow rate adjustment electro-proportional, manual grease system for plunger sealing sleeves and manually with plunger oil, safety grid

#### Delivery Pressure Measurement Each Delivery Pump

manometer 0-100 bar [1.450 psi] Ø 100 mm completely with stainless steel membrane, electronic pressure sensor 0-100 bar [1.450 psi] 4-20 mA G ½ BSPP AG

#### Flow Rate Measurement Each Delivery Pump

per double stroke and inductive flow measuring

#### Operating Devices

main switch, control lamp for voltage and power, ON/OFF push button for hydraulic motor and delivery pump, switch with four speed levels each frequency controlled electric motor, hand-mode: pre-select switch for PUMPING / CIRCULATION and REMOTE CONTROL ON/OFF, pre-select switch for HAND / AUTOMATIC / AUTO-CIRCULATION, push-button for AUTOMATIC START / STOP, EMERGENCY STOP push-button, switch for pressure transmitter INTERNAL/EXTERNAL, switch for heater, rotary knob for max. DELIVERY PRESSURE adjustment, rotary knob for max. FLOW RATE adjustment



#### Data Acquisition and Recording

2 x industrial computer with touch screen monitor (fixed installed) for displaying and adjusting the operating parameters, monitor to display delivery pressure and flow rate, electronic data acquisition and recording with recording system RMS-2 and PC-evaluation per USB and software NINJA (without license!) for injection journals

#### Accessories (included)

documentation, special tools for operation and maintenance, circulation hoses, suction hoses, pressure transmitter with cable reel, interior lights, air condition and heaters, wash basin with boiler, work bench with bench vice and center consoles, first-aid-case, eye-flushing bottle, fire drencher

#### Accessories (optional)

spare part kits, grouting hoses, suction hoses, fittings, grouting grippers

#### Supplementary Devices

mixing units and storing tanks for solid suspensions, dosing devices, screw-conveyors, electronic delivery pressure devices (pressure transmitter) at injection place, devices for radio data transmission

*Further devices, special equipments and accessories on request!*