

Mix-Pump-Unit standard with circulation pump

MPS 2-63-E-B-UWP

with 2 installed Injection-Pumps Type IP 63-E-B-HGV



Technical Data

Drive Electro-hydraulic
 Drive Power 15,0 kW
 Total Power Consumption approx. 30,0 kW

Connections
 Electrical CEE 63 A / 400 V AC, 50 Hz, IP 54
 Water inlet G 2 BSPP AG DN 50 - C-coupling
 G 1 BSPP IG DN 25 - GEKA

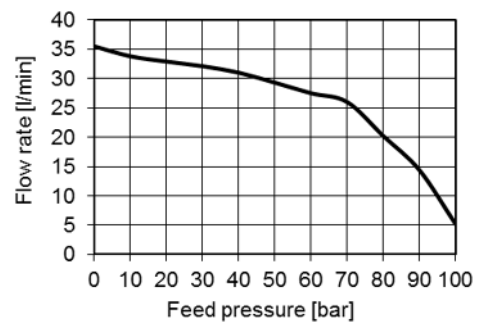
In-/Outlets
 Suction line 2 x G 1 BSPP IG DN 25 - RD 38
 Pressure line 2 x G 1 BSPP IG DN 25 - RD 38
 Circulation line 2 x G ¾ BSPP IG DN 20 - RD 32

Dimensions (L x W x H) 2.400 x 1.600 x 2.100 (mm)
 Weight approx. 2.400 kg

Application Mixing and pumping of cement-, micro-cement, fly ash and bentonite suspensions at anchoring, injections, backfillings, groutings, flushings, sealings

Performance Mixer
 Hand feed up to 3,5 m³/h
 Feed per dosing screw-conveyor up to 4,5 m³/h

Performance Each Delivery Pump
 2 x Type IP 63-E-B-HGV
 Pressure max. 100 bar¹⁾
 [max. 1.450 psi]¹⁾
 Flow rate max. 35 l/min.¹⁾
 [max. 9,3 gal U.S.]¹⁾



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Standard Features

Framework

skid steel frame, partially enclosed and with partition panel, floor and oil pan, central towing device, lashing points for truck load securing, fork lift guides lengthwise and crosswise, machine room sound proofed, lockable doors, finishing 2K-paint RAL 5005 (signal blue) or on customer desire unicoloured

Electric Drive

electric motor hydraulic drive/delivery pumps 15,0 kW, 1.500 rpm, 400 V AC, 50 Hz, IP 54, electric motor mixer 6,3 kW, 2-speed (750 / 1.500 U/min.), 400 V AC, 50 Hz, IP 54 and electric motor agitator 4,0 kW with toothed belt drive for (frequency controlled), 400 V AC, 50 Hz, IP 54, automatic phase correction, motor safety switch, control voltage 24 V DC (for valves and remote control), operating hour meter

Hydraulic

oil tank volume 170 l [45 gal U.S.], gear pumps, oil cooler with thermostat, main oil filter, oil filling and ventilation filter, electrical oil filter pollution control, oil level and temperature indicator, membrane accumulator, manometer for hydraulic and control oil pressure, pressure and flow infinitely variable

Each Delivery Pump

vertical two-plunger pump \varnothing 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, protective grid

Delivery Pressure Measurement Each Pump

manometer 0-100 bar [1.450 psi] \varnothing 100 mm completely with stainless steel membrane, electronic pressure sensor 0-100 bar [1.450 psi] 4-20 mA G $\frac{1}{2}$ BSPP AG

Water tank with Water Dosage

made of stainless steel (brushed), water storing and dosing tank $V = 200$ l [53 gal U.S.], fixed overflow pipe, water connection C-coupling with flushing connection and butterfly valve DN 50 manually actuated, water tank inlet valve DN 25 electrical and water tank outlet valve DN 50 manually actuated, semi-automatic water metering with fluid level indicator

Mixing Tank (Colloid Mixer)

made of stainless steel (brushed), round tank with conical floor, volume 250 l [66 gal U.S.], effective volume 200 l [53 gal U.S.], mixer drive electric motor 6,3 kW, foldable and lockable tank covers with safety end switches, cover for screw conveyor inlet with inspection flap, hopper with bag ripper, circulation and pump down valves DN 50 manually actuated

Tools in Mixing Tank

2 fast turning mixing tools on one common drive shaft with pump down function, 1 mixing blade \varnothing 250 mm, 1 pumping wheel \varnothing 185 mm, drive shaft bearing above mixer fluid level (No stuffing box, so dry running possible w/o any problems!)

Storing Tank with Circulation Pump

made of stainless steel (brushed), round tank with conical floor, volume 450 l [119 gal U.S.], effective volume 400 l [106 gal U.S.], agitator drive electric gear motor 4,0 kW with toothed belt (rotation speed infinitely variable, frequency controlled), foldable and lockable tank covers with

safety end switches and inspection flap, suspension inlet DN 50 with inlet basket, suspension outlet DN 50, cleaning cover sideways, suspension outlet connections 2 x G 1 BSPP DN 25 with ball valve

Tools in Storing Tank

1 fast turning mixing tool on one common drive shaft with pump down function, 1 pumping wheel \varnothing 185 mm, drive shaft bearing above mixer fluid level (No stuffing box, so dry running possible w/o any problems!)

Operating Elements

main switch, control lights POWER SUPPLY, CONTROL VOLTAGE, MIXER OPERATION and AGITATOR OPERATION, warning lights EMERGENCY-STOP ACTIVATED, MIXER FAULT, AGITATOR FAULT and OIL FILTER CONTROLLED VALVES, buttons HYDRAULIC MOTOR ON/OPERATION and HYDRAULIC MOTOR OFF/FAULT, button WATER DOSAGE START/STOP, buttons MIXER ON/OPERATION and MIXER OFF/FAULT, buttons AGITATOR ON/OPERATION and AGITATOR OFF/FAULT, buttons PUMP ON and PUMP OFF, button PUMPING/CIRCULATION, buttons EMERGENCY-STOP (2x), button LIGHT ON/OFF for working lamps outside, potentiometer FLOW RATE, **Connection Options:** socket REMOTE CONTROL 14-pin with EMERGENCY-STOP bridge plug (2x), socket PRESSURE SIGNAL 6-pin, free sockets 400 V / 16 A (2x), free socket 230 V / 16 A

Operating Elements each Injection Pump

buttons PUMP ON and PUMP OFF, switch PUMPING/CIRCULATION, switch REMOTE ON/OFF, switch MANUAL / AUTOMATIC / AUTO-UMLAUF, button AUTOMATIC START/STOP, switch PRESSURE RELIEF ON/OFF, rotary knob for setting the max. DELIVERY PRESSURE, potentiometer FLOW RATE, flow rate counter l/min. and l/total with zero setting, auto preset counter flow rate l/total

Accessories (included)

documentation, special tools for operation and maintenance, cable remote control 15 m and cable reel 100 m, circulation hose, high pressure cleaner 4,0 kW, 950 rpm, 200 bar [3.045 psi] (industrial device, fixed installed) with water inlet filter, corded LED rod lamp inside, LED work lamps for mixing and storing tank outside

Accessories (optional)

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

Supplementary Devices

storing tanks for solid suspensions, dosing devices, screw-conveyors, radio remote control, control devices, electronic data acquisition and recording, regulating and measuring systems RMS with computer evaluation per USB and injection journal, flow meter with delivery pressure measuring, electronic delivery pressure devices (pressure transmitter) at injection place, devices for radio data transmission

Further devices, special equipments and accessories on request!