

# Mix-Pump-Container fully-automatic

## MPC 2-63-E-B-AUT

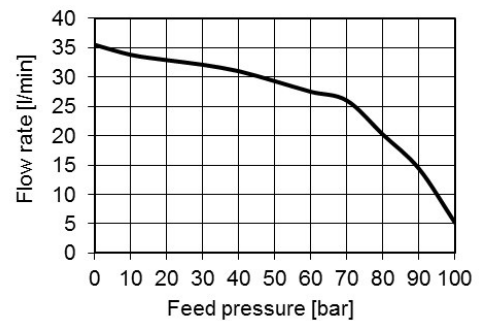
with 2 removable Injection-Pumps Type IP 63-E-B-HGV



### Technical Data

Drive	Electro-hydraulic
Drive Power	approx. 28 kW
Connections	
Electrical	CEE 125 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	
Pressure line	2 x G 1 BSPP IG DN 25 - RD 38
Circulation line	2 x G ¼ BSPP IG DN 20 - RD 32
Dimensions (L x W x H)	3.500 x 2.450 x 2.600 (mm)
Weight	approx. 6.000 kg
Application	Fully automatic mixing and pumping of cement-, micro-cement, fly ash and bentonite suspensions at anchoring, injections, backfillings, groutings, flushings, sealings

Performance Mixer with weighing system	
Hand feed	up to 3,5 m³/h
Feed per screw-conveyor	from 4,5 m³/h up to 8,0 m³/h
Performance Each Delivery Pump	
2 x Type 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>



<sup>1)</sup>Ininitely variable. Both max. performances are not simultaneously possible. 1 bar = 1 x 10<sup>5</sup> N/m<sup>2</sup>  
(Status April 2016 / Technical changes reserved)

Mix-Pump-Container fully-automatic

# MPC 2-63-E-B-AUT

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

## Standard Features

### Framework

container frame made of steel, partially enclosed and with partition panel, floor and oil pan, four towing devices, machine room sound proofed, lockable doors, finishing 2K-paint RAL 5005 (signal blue) or on customer desire

### Electric Drive

electric motor (each Injection-Pump IP 63-E-B-HGV) 7,5 kW, 1.500 rpm, 400 V AC, 50 Hz, IP 54, electric motor mixer 6,3 kW, 2-speed (750 rpm / 1.500 rpm), 400 V AC, 50 Hz, IP 54 and electric gear motor agitator 1,1 kW, 41 rpm (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 IP 63-E-B-HGV

oil tank volume 80 l [21 gal U.S.], gear pumps, oil cooler, main and control oil filter, oil filling and ventilation filter, electrical oil filter pollution control, oil level and temperature indicator, membrane accumulator, manometer for hydraulic pressure, pressure and flow infinitely variable

### Each Delivery Pump IP 63-E-B-HGV

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, protective grid

### Delivery Pressure Measurement Each 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

### Water Metering

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 pneumatically controlled, water tank inlet valve DN 25 and water tank outlet valve DN 50 pneumatically controlled, fully-automatic water metering with fluid level indicator

### Mixing Tank Colloid-Mixer

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, cover for screw conveyor inlet with inspection flap, hopper with bag ripper, circulation and pump down valves DN 50 pneumatically controlled

**NO DOSING SCREW CONVEYORS NECESSARY! Standard screw conveyors usable!**

### Weighing System

weighing system with display (max. weight), three mixtures pre-selectable, producing mixtures manually or automatically, display for counting the mixtures, infinitely variable mixing time, pumping in circulation and pumping down automatically controlled, screw-conveyor automatically controlled, all butterfly valves are pneumatically controlled

### Tools in Mixing Tank

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

### Storing Tank

round tank with straight floor, volume 450 l [119 gal U.S.], effective volume 400 l [106 gal U.S.], agitator drive electric gear motor 1,1 kW (rotation speed infinitely variable, frequency controlled), foldable and lockable tank covers, suspension inlet DN 50 with inlet basket, suspension outlet DN 50 with pneumatically controlled valve and suction basket, cleaning cover sidewise, slowly turning agitator with a floor scraper and stream screen

### Fluid Level Control

fluid level control per ultrasonic sensor

### Operating Devices

rotary knob for max. delivery pressure adjustment bar [psi], rotary knob for max. flow rate adjustment l/min. [gal U.S./min.], flow rate counter l/min. [gal U.S./min.] and l/total [gal U.S./total] with zero-setting, auto pre-select counter for flow rate l/total [gal U.S./total], main switch, control lamp for voltage and power, ON/OFF push button for hydraulic motor, delivery pump, mixer and agitator, rotary knob for infinitely variable agitator speed, ON/OFF switch for remote control, START/STOP push-button for fully-automatic water metering, AUTOMATIC START push-button for delivery pump, switch DEWATERING ALL VALVES or SUSPENSION/WATER (dewatering winter time / flushing with water), EMERGENCY STOP switch

### Accessories (included)

operating manual and spare part list, special tools for operation and maintenance, radio remote control, cable remote control 15 m and cable reel 100 m, circulation hose, high pressure cleaner 4 kW, 950 rpm, 200 bar [3.045 psi] (industrial device, fixed installed), air compressor (industrial device, fixed installed), working lamps for machine room, mixing and storing tank

Further devices, special equipments and accessories on request!