

Mix-Pump-Container fully-automatic

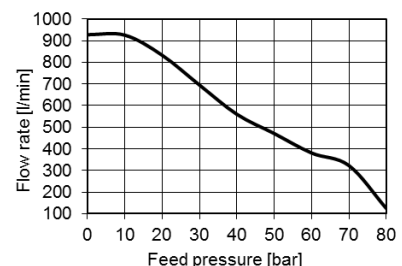
MPC 2-800-200-E

Continuous Double-Charge-Mix- & Pump-Container



Technical Data

Drive	Electro-hydraulic	Batch mixing capacity with weighing (feeding with one screw conveyor each)
Drive Power	1 x 55,0 kW and 1 x 22,0 kW	
Total Power Consumption	approx. 100,0 kW	Single batch output: (performance per mixer)
Connections		up to 24,0 m ³ /h (at w/c-factor 1.0)
Power supply	CEE 125 A / 400 V AC, 50 Hz, IP 54 and CEE 63 A / 400 V AC, 50 Hz, IP 54	Total batch output: (mixer 1 + 2)
Water	G 4 BSPP IG DN 100 - A-coupling	up to 48,0 m ³ /h (at w/c-factor 1.0)
Outlets		Circulation capacity per mixer
Feed pump pressure line	2 x G 1 ½ BSPP AG DN 40	1.000 l/min. [264 gal U.S.]
Water	G ¾ BSPP IG DN 20 - Geka G 1 BSPP IG DN 25 - Geka G 1 BSPP IG DN 25 - Geka	Effective volumes:
Dimensions (L x W x H)	6.150 x 2.500 x 2.650 (mm)	water tank
Weight	approx. 11.700 kg	1.100 l [290 gal U.S.]
Application	Continuous Double-Charge-Mix- and Pump- Container for fully automatic mixing and pumping of cement, fly ash and bentonite suspensions at jet- groutings, anchoring, fillings, flushings, sealings, piling and vibrating jobs, slurry walls, Soil-Mixing WSM (Single-, Twin- Triple-Mix) and Cutter-Soil- Mix CSM	mixing tank
		2 x 700 l [2 x 185 gal U.S.]
		storing tank
		2.600 l [686 gal U.S.]
		Performance Delivery Pump
		Pressure
		max. 80 bar ¹⁾ [max. 1.160 psi] ¹⁾
		Flow rate
		max. 920 l/min. ¹⁾ [max. 243 gal U.S.] ¹⁾



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Standard Features

Framework

container on a skid steel frame, partially enclosed and with partition panel, floor and oil pan, floor drain DN 50, both mixing tanks and storing tank in a separate room, four towing devices, lashing points for truck load securing, fork lift guides crosswise, machine room sound proofed and heat insulated, heaters with thermostat, lockable doors, foldable safety grids around the machine, finishing 2K-paint RAL 7042 (traffic grey) or on customer desire unicoloured

Electric drive (for delivery pump and main hydraulic)

electric motor 55,0 kW, 1.500 U/min., 400 V AC, 50 Hz, IP 54, automatic phase correction, motor safety switch, control voltage 24 V DC

Electric drive (for mixing tanks and storing tank)

electric motor 22,0 kW, 1.500 U/min., 400 V AC, 50 Hz, IP 54, automatic phase correction, motor safety switch, control voltage 24 V DC

Hydraulic

oil tank volume 640 l [169 gal U.S.], axial piston pump with gear pumps (55kW), double gear pump (22kW), oil cooler with thermostat, main oil filter, oil filling and ventilation filter, electrical oil filter pollution control, oil level and temperature indicator, manometers for hydraulic and control oil pressure

Delivery Pump

vertical two-plunger pump Ø 200 mm, flow rate per double stroke $V = 17,5 \text{ l}$ [4,62 gal U.S.], pump valves (suction and pressure line) self-acting (disc valves), flow rate adjustment electro-proportional, automatic grease system for plunger sealing sleeves, plunger oil tank

Delivery Pressure Measurement

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 Tank with Water Dosage

made of stainless steel (brushed), water storing and dosing tank $V = 1.100 \text{ l}$ [290 gal U.S.], fixed overflow pipe DN 50, water connection A-coupling with butterfly valve DN 100 manually controlled, water tank inlet valve DN 100 pneumatically controlled, two water tank outlet valves DN 150 pneumatically controlled (each mixer) with two water tank outlet valves DN 80 pneumatically controlled (per mixer) for fine dosing of the water drain, fully-automatic water metering with fluid level indicator via water pressure switch and float

Two Mixing Tanks (Colloid-Mixer) with Weighing System

made of stainless steel (brushed), round tank with conical floor, volume 800 l [211 gal U.S.], effective volume 700 l [185 gal U.S.], mixer drive hydraulic motor (rotation speed infinitely variable), foldable and lockable tank covers with safety end switches, cover for screw conveyor inlet with inspection flap, circulation and pump down valves DN 80 pneumatically controlled, inlet connections DN 25 and DN 80 (can also be used as mixer ventilation), liquid component dosing DN 25, transport locking screws

Tools in each Mixing Tank

3 fast turning mixing tools on one common drive shaft with pump down function, 2 mixing blades Ø 250 mm, 1 pumping wheel Ø 210 mm, drive shaft bearing above mixer fluid level (No stuffing box, so dry running possible w/o any problems!)

Cement Feed Hopper

Hydraulically height-adjustable cement feed hopper (extended in operating mode, retracted in transport mode) with attached vibrator, inlets 2x DN 220, outlets 2x DN 265

Storing Tank with Fluid Level Control

made of stainless steel (brushed), round tank with straight floor, volume 2.700 l [713 gal U.S.], effective volume 2.600 l [686 gal U.S.], agitator drive hydraulic motor (rotation speed infinitely variable), foldable and lockable tank covers with safety end switches and inspection flap, suspension inlet DN 80 with inlet basket, suspension outlet DN 100 with

pneumatically controlled valve and suction basket, cleaning cover sidewise, slowly turning agitator with a floor scraper and stream screen, fluid level control per ultrasonic sensor, safety folding grates

Control Elements Main Switch Cabinet with Touch Screen

main switches 125 A and 63 A, control lights POWER SUPPLY 125 A, 63 A and CONTROL VOLTAGE 24 V, warning lights WARNING and FAULT, buttons ACCEPT, 2x HYDRAULIC MOTOR ON/OPERATION, 2x HYDRAULIC MOTOR OFF/FAULT, EMERGENCY-STOP (7x), switches DRAINING SUSP./WATER / ALL VALVES (per mixer), REMOTE CONTROL ON/OFF PUMP INTERN, REMOTE CONTROL ON/OFF PUMP EXTERN, Performance SCREW CONVEYOR 1, 2 and 3, HEATING ON/OFF and LIGHT ON/OFF for rod lamp and working lamps inside, infinitely variable adjustment of mixer speed (per mixer) via touch screen, **Control Elements per Mixer 1 and 2:** buttons FILL WATER TANK, EMPTY WATER TANK, MIXER CIRCULATION, EMPTY MIXER, MIXER ON/OFF, SCREW CONVEYOR ON/OFF, MIXTURE START / AUTOMATIC, switch RECEIPE +/-, COMPONENTS +/- and MANUAL/AUTO, potentiometer MIX TIME, **Control Elements for internal and external Pump:** buttons PUMP OFF, SUSPENSION and WATER, potentiometer FLOW RATE, **Connection Options:** Sockets IDM 24 V, IDM LIQUID COMPONENT, MAGNET VALVE LIQUID COMPONENT 1, MAGNET VALVE LIQUID COMPONENT 2, SCREW CONVEYOR 1, 2 and 3, VIBRATOR 1, 2 and 3, LIQUID COMPONENT 400 V / 16 A, LIQUID COMPONENT 230 V / 16 A, free socket 400 V / 16 A, EXTENSION 1 REMOTE CONTROL and EXTENSION 2 REMOTE CONTROL (each with EMERGENCY-STOP bridge plug), free sockets 230 V / 16 A (2x), sockets (signal) EXTERNAL SCREW CONVEYOR 1, 2 and 3, MIXTURE MONITORING (mixing operation), ULTRASONIC SENSOR EXTERN, CONNECTION EXTERNAL PUMP (with EMERGENCY-STOP bridge plug), REMOTE CONTROL PUMP INTERN and REMOTE CONTROL PUMP EXTERN (each with EMERGENCY-STOP bridge plug), EXTENSION REMOTE CONTROL PUMP INTERN and EXTENSION REMOTE CONTROL PUMP EXTERN, ETHERNET, USB, air connections: COMPONENT 3 MIXER 1, COMPONENT 3 MIXER 2, PUMP SUSPENSION EXTERN, PUMP WATER EXTERN

Touch-Screen for visualization, recording and evaluation of the operating parameters for the production of mixtures each mixing tank, as well as pumping of the suspension to the consumer. The following parameters are displayed, recorded and can be called up and evaluated: Display of the current flow rate and the current delivery pressure, preselection counter flow rate target/actual, batch and preselection counter mixtures target/actual, current filling level of the mixing and storage tank, input of several recipes, display of error messages, display in different languages and much more

Automatic Mode: continuous production of the mixtures (double batches) automatically with both mixing tanks, infinitely variable setting of the mixing time, automatic-controlled pumping in circulation and pump-off, automatic control of the screw conveyor, all shut-off flaps are pneumatically controlled

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, air compressor (industrial device, fixed installed), corded LED rod lamp inside, LED work lamps for mixing and storing tank outside

Accessories (included)

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

Further devices, special equipments and accessories on request!