

Mixing-Container fully-automatic

MC 2-1200-E-A-AUT

Continuous Double-Charge-Mixing-Container



Technical Data

Drive	Electro-hydraulic	Batch mixing capacity with weighing (feeding with one screw conveyor each)	
Drive Power	45,0 kW	Single batch output: (performance per mixer)	up to 30,0 m ³ /h (at w/c-factor 1,0)
Total Power Consumption	approx. 85,0 kW	Total batch output: (mixer 1 + 2)	up to 60,0 m ³ /h (at w/c-factor 1,0)
Connections		Circulation capacity per mixer	2.000 l/min. [528 gal U.S./min.]
Electrical	1 x CEE 125 A / 400 V AC, 50 Hz, IP 54 and 1 x CEE 63 A / 400 V AC, 50 Hz, IP 54 1 x CEE 16 A / 400 V AC, 50 Hz, IP 54 (heating)	Effective volume mixing tank	2 x 1.000 l [2 x 264 gal U.S.]
Inlets		Effective volume water tank	approx. 1.250 l [330 gal U.S.]
Water	1 x G 4 BSPP AG DN 100 - A-coupling		
Liquid components	2 x G 1 BSPP IG DN 25 - RD 38 2 x G 1 BSPP IG DN 25 - Geka		
Outlets			
Suspension	1 x Kamlok 400 VT - DN 100 1 x G ¾ BSPP IG DN 20 - Geka 2 x G 1 BSPP IG DN 25 - Geka		
Dimensions (L x W x H)	5.080 x 2.500 x 2.650 (mm)		
Weight	approx. 8.800 kg		
Application	Continuous Double-Charge-Mixing-Container for fully automatic mixing 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		

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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 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 5005 (signal blue) or on customer desire unicoloured

Electric Drive

electric motor 45,0 kW, 1.500 U/min., 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 380 l [100 gal U.S.], tandem axial piston pumps, 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

Water Tank with Water Dosage

made of stainless steel (brushed), water storing and dosing tank V = 1.250 l [330 gal U.S.], fixed overflow pipe DN 50, water connection A-coupling with butterfly valve DN 100 pneumatically controlled, water tank inlet valve DN 100 pneumatically controlled, two water tank outlet valves DN 200 pneumatically controlled (each mixer) with two water tank outlet valves DN 50 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 1.200 l [317 gal U.S.], effective volume 1.000 l [264 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 100 pneumatically controlled, inlet connections DN 25, DN 65 and DN 75 (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

Control Elements Main Switch Cabinet with Touch Screen

main switches 125 A, 63 A and 16 A, control lights POWER SUPPLY 125 A, POWER SUPPLY 63 A and POWER SUPPLY 16 A and CONTROL VOLTAGE 24 V, warning lights WARNING and FAULT, buttons ACCEPT, HYDRAULIC MOTOR ON/OPERATION, HYDRAULIC MOTOR OFF/FAULT, EMERGENCY-STOP (6x), switches DRAINING SUSP./WATER / ALL VALVES (per mixer), REMOTE CONTROL ON/OFF PUMP 1, REMOTE CONTROL ON/OFF PUMP 2, SCREW CONVEYOR 1, SCREW CONVEYOR 2, SCREW CONVEYOR 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, AUTOMATIC START and RESET, switch RECEIPE +/-, COMPONENTS +/- and MANUAL/AUTO, potentiometer MIX TIME, **Control Elements for each External Pump 1 and 2:** buttons PUMP OFF, SUSPENSION and WATER, potentiometer FLOW RATE, **Connection Options:** Sockets IDM 24 V and IDM LIQUID COMPONENT, sockets MAGNET VALVE LIQUID COMPONENT 1 and MAGNET VALVE LIQUID COMPONENT 2, sockets SCREW CONVEYOR 1, SCREW CONVEYOR 2 and SCREW CONVEYOR 3, sockets VIBRATOR 1, VIBRATOR 2 and VIBRATOR 3, sockets LIQUID COMPONENT 400 V / 16 A and LIQUID COMPONENT 230 V / 16 A, free socket 400 V / 16 A, sockets 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, EXTERNAL SCREW CONVEYOR 2 and EXTERNAL SCREW CONVEYOR 3, socket MIXTURE MONITORING (mixing operation), sockets ULTRASONIC SENSOR 1 and ULTRASONIC SENSOR 2, sockets CONNECTION EXTERNAL PUMP 1 and CONNECTION EXTERNAL PUMP 2 (each with EMERGENCY-STOP bridge plug), sockets REMOTE CONTROL PUMP 1 and REMOTE CONTROL PUMP 2 (each with EMERGENCY-STOP bridge plug), sockets EXTENSION REMOTE CONTROL PUMP 1 and EXTENSION REMOTE CONTROL PUMP 2, sockets ETHERNET and USB, air connections external agitator: SUSPENSION PUMP 1 and SUSPENSION PUMP 2, WATER PUMP 1 and WATER PUMP 2

Touch-Screen for visualization 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 and can be called up: 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

Further devices, special equipments and accessories on request!