

Mix- and Storing-Unit fully-automatic

MRS 200-E-A-AUT



Technical Data

Drive Electro
 Drive Power 8,0 kW
 Total Power Consumption approx. 19 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

Outlet
 Suspension G 2 BSPP IG DN 50 - SK 50 VT

Dimensions (L x W x H) 2.250 x 1.350 x 2.100 (mm)
 Weight approx. 1.750 kg

Application Fully automatic mixing and storing of cement-, micro-cement, fly ash and bentonite suspensions at anchoring, injections, backfillings, groutings, flushings, sealings, piling and vibrating jobs

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

Volume Mixing Tank volume 250 l [66 gal U.S.] / effective volume 200 l [53 gal U.S.]
 Volume Storing Tank volume 450 l [119 gal U.S.] / effective volume 400 l [106 gal U.S.]

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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 mixer 6,3 kW, 2-speed (750 rpm / 1.500 rpm), 400 V AC, 50 Hz, IP 54 and gear motor for agitator 1,1 kW, max. 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

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 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) with Weighing

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 hydraulic motor (rotation speed infinitely variable), 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 pneumatically controlled, transport locking screws

Tools in Mixing Tank

2 fast turning mixing tools on one common drive shaft with pump down function, 1 mixing blade 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 with Fluid Level Control

made of stainless steel (brushed), round tank with straight floor, volume 450 l [119 gal U.S.], effective volume 400 l [106 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 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 per ultrasonic sensor

Operating Elements

main switch, control lights POWER SUPPLY and CONTROL VOLTAGE, buttons PUMP OFF, PUMP ON SUSPENSION and PUMP ON WATER, buttons FILL WATER TANK and EMPTY WATER TANK, buttons MIXER CIRCULATION and EMPTY MIXER, buttons MIXER ON / OFF and AGITATOR ON / OFF, buttons SCREW CONVEYOR ON / OFF / FAULT and RESET / AIR PRESSURE FAULT, button AUTOMATIC START / STOP, button FU FAULT / ACCEPT, buttons EMERGENCY-STOP (2x), switches MIXTURE 1-2-3 and MANUAL / AUTOMATIC / AUTO PRESET, switch MIXER SLOW / FAST / AUTOMATIC, switches REMOTE CONTROL ON / OFF and DRAINING SUSP./WATER / ALL VALVES, switch LIGHT ON/OFF for external working lamps, potentiometers for FLOW RATE, MIXING TIME and AGITATOR SPEED, LCD display with scale setting for total weight (water and solids), batch and preset counters for mixtures with zero setting, LCD display for fill level of storage tank (ultrasonic sensor), flow rate counter l/min. and l/total with zero setting. **Connection Options:** socket REMOTE CONTROL 14-pin with EMERGENCY-STOP bridge plug, sockets SCREW CONVEYOR and VIBRATOR, sockets REMOTE CONTROL and REMOTE CONTROL PUMP, socket ULTRASONIC SENSOR, free socket CEE 16 A / 400 V, free socket 230 V / 16 A (2x)

Automatic Mode: production of the mixtures automatically or in manual mode, infinitely variable setting of the mixing time, automatic 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 (optional)

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

Supplementary Devices

injection pumps, pump units and 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!