

Mix- and Storing-Unit fully-automatic with circulation pump

MRS 150-E-A-UWP-AUT



Technical Data

Drive Electric
 Drive Power 10,0 kW
 Total Power Consumption approx. 19,0 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

Outlet
 Suspension 2-, 4-, 6- or 8 connections G 1 BSPP IG DN 25 - GEKA

Dimensions (L x W x H) 2.450 x 1.200 x 1.800 (mm)
 Weight approx. 1.400 kg

Application Fully-automatic mixing and storing 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
 with weighing system 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, fork lift guides crosswise, machine room sound proofed, lockable doors, finishing 2K-paint RAL 5005 (signal blue) or on customer desire unicoloured

Electric Drive

electric motor mixer (with toothed belt drive) 5,5 kW, 1.500 rpm, 400 V AC, 50 Hz, IP 54 and electric motor 4,0 kW (with toothed belt drive) for agitator (frequency controlled), 1.500 rpm, 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 = 130 l [34 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)

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 (with toothed belt drive) 5,5 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 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 conical floor, volume 450 l [119 gal U.S.], effective volume 400 l [106 gal U.S.], agitator drive electric 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 sidewise, suspension connection outlets 2-, 4-, 6- or 8-distribution G 1 BSPP IG DN 25 - GEKA, fluid level control per ultrasonic sensor

Tools in Storing Tank

1 fast turning mixing tool on one common drive shaft with pump down function, 1 pumping wheel Ø 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 and CONTROL VOLTAGE, warning lights EMERGENCY-STOP, MIXER FAULT and AGITATOR FAULT, 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, buttons AUTOMATIC START/STOP, buttons EMERGENCY-STOP (2x), switches PUMPING/CIRCULATION and PRESSURE RELIEF, switches MIX 1-2-3 and MANUAL/AUTOMATIC/AUTO PRESET, switches REMOTE CONTROL ON/OFF and DRAINING SUSP./WATER / ALL VALVES, switch LIGHT ON/OFF for external working lamps, potentiometer FLOW RATE, MIXING TIME and AGITATOR SPEED, LCD display with scale setting for total weight (water and solids), batch and preset counter for mixtures with zero setting, LCD display for filling 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, socket EMERGENCY-STOP BRIDGE, sockets SCREW CONVEYOR and VIBRATOR, socket ULTRASONIC SENSOR, free socket 230 V / 16 A

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, radio remote control, 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!