Mix- and Storing-Unit fully-automatic
MRS 700-18-E-A-AUT

Technical Data

Drive	Electro-hydraulic
Drive Power	15,0 kW
Total Power Consumption	approx. 27,0 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	G 2 ½ BSPP IG DN 65 - Kamlok 250 MT
Dimensions (L x W x H)	2.800 x 2.250 x 2.250 (mm)
Weight	approx. 3.200 kg
Application	Fully automatic mixing and pumping of cement-, micro-cement, fly ash and bentonite suspensions at anchorings, injections, fillings, flushings, groutings, piling and vibrating jobs, slurry walls, Soil-Mixing WSM and Cutter-Soil-Mixing CSM
Performance	
Mixer with weighing system	Hand feed up to 12,0 m³/h
	Feed per screw-conveyor up to 17,5 m³/h
Volume Mixing Tank	volume 700 l [185 gal U.S.] / effective volume 600 l [159 gal U.S.]
Volume Storing Tank	volume 1.800 l [476 gal U.S.] / effective volume 1.700 l [449 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 crosswise, machine room sound proofed, lockable doors, finishing 2K-paint RAL 5005 (signal blue) or on customer desire unicoloured

Electric Drive
electric motor 15,0 kW, 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 170 l [45 gal U.S.], gear pump, oil cooler with thermostat, main oil filter, oil filling and ventilation filter, electrical oil filter pollution control, oil level and temperature indicator, manometer for hydraulic pressure (mixer and agitator)

Water tank with Water Dosage
made of stainless steel (brushed), water storing and dosing tank V = 380 l [100 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 50 and water tank outlet valve DN 100 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 700 l [185 gal U.S.], effective volume 650 l [171 gal U.S.], mixer drive hydraulic motor (rotation speed infinitely variable), two tank covers, each hinged and lockable with screw conveyor inlets and safety end switches, cover for screw conveyor inlet with inspection flap, hopper with bag ripper, circulation and pump down valves DN 80 pneumatically controlled, transport locking screws

Tools in 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!)

Storing Tank with Fluid Level Control
made of stainless steel (brushed), round tank with straight floor, volume 1.800 l [475 gal U.S.], effective volume 1.700 l [449 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 65 with inlet basket, suspension outlet DN 80 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

Operating Elements
main switch, control lights POWER SUPPLY and CONTROL VOLTAGE, buttons HYDRAULIC MOTOR ON/OPERATION and HYDRAULIC MOTOR OFF/FAULT, button EMERGENCY-STOP, switch DRAINING SUSP./WATER / ALL VALVES, switch REMOTE CONTROL ON/OFF, switch LIGHT ON/OFF for inside rod lamp and switch LIGHT ON/OFF for outside working lamps, valve for shutting-off/adjusting the mixer speed, valve for shutting-off/adjusting the agitator speed, **Connection Options:** socket ETHERNET, socket REMOTE CONTROL 14-pol. with EMERGENCY-STOP bridge plug, sockets REMOTE CONTROL and REMOTE CONTROL PUMP, socket EXTENSION REMOTE CONTROL, sockets SCREW CONVEYOR 1 and 2, sockets VIBRATOR 1 and 2, sockets ULTRASONIC SENSOR and MIXTURE MONITORING, sockets EXTENSION 1 and EXTENSION 2 with respective EMERGENCY-STOP bridge plug, free socket outlet 400 V / 16 A, free sockets 230 V / 16 A (2x)

Control Panel with Touch-Screen
warning lights WARNING and FAULT, button ACCEPT, button EMERGENCY STOP, buttons FILL WATER TANK and EMPTY WATER TANK, buttons MIXER CIRCULATION and EMPTY MIXER, buttons MIXER/AGITATOR ON/OFF and SCREW CONVEYOR ON/OFF, button START MIXTURE, buttons PUMP OFF, SUSPENSION and WATER, switches RECEPT -/+ and COMPONENTS -/+, socket USB, potentiometers FLOW RATE and MIXING TIME, **Optional:** switches WATER INTERNAL/EXTERNAL or PUMPING/CIRCULATION

Touch-Screen for visualization of the operating parameters for the production of mixtures, 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: 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

Further devices, special equipments and accessories on request!

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