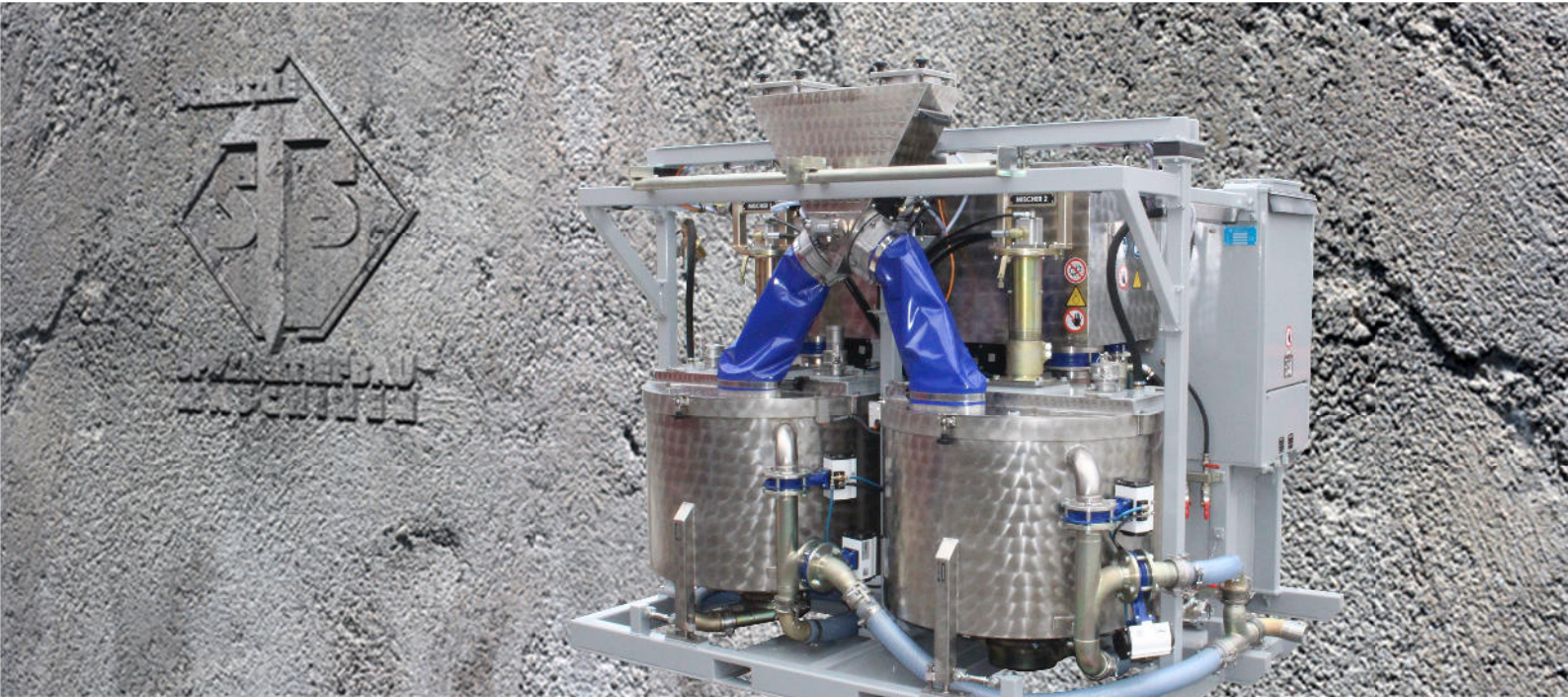


Mixing-Unit fully-automatic

MS 2-700-E-A-AUT

Continuous Double-Charge-Mixing-Unit



Technical Data

Drive	Electro-hydraulic	Batch mixing capacity with weighing (feeding with one screw conveyor each)	
Drive Power	22,0 kW	Single batch output: (performance per mixer)	up to 18,0 m ³ /h (at w/c-factor 1,0)
Total Power Consumption	approx. 30,0 kW	Total batch output: (mixer 1 + 2)	up to 36,0 m ³ /h (at w/c-factor 1,0)
Connections		Circulation capacity per mixer	1.000 l/min. [264 gal U.S./min.]
Electrical	CEE 63 A / 400 V AC, 50 Hz, IP 54	Effective volume mixing tank	2 x 600 l [2 x 158 gal U.S.]
Hydraulic	quick couplings for external storing tank	Effective volume water tank	approx. 700 l [185 gal U.S.]
Water Inlet	G 3 BSPP AG DN 80 - B-coupling G 1 BSPP IG DN 25 - GEKA		
Outlet			
Suspension	2 x Kamlok 300 VT - DN 80		
Dimensions (L x W x H)	2.800 x 2.250 x 2.300 (mm)		
Weight	approx. 3.700 kg		
Application	Continuous Double-Charge-Mixing-Unit 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		

Mixing-Unit fully-automatic MS 2-700-E-A-AUT continuous double-charge-mixing-unit



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, machine room sound proofed, lockable doors, finishing 2K-paint RAL 5005 (signal blue) or on customer desire unicoloured

Electric Drive

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 (for valves and remote control), operating hour meter

Hydraulic

oil tank volume 170 l [45 gal U.S.], double toothed wheel 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

Water Tank with Water Dosage

made of stainless steel (brushed), water storing and dosing tank V = 700 l [185 gal U.S.], fixed overflow pipe DN 50, water connection B-coupling with flushing connection and butterfly valve DN 80 pneumatically controlled, water tank inlet valve DN 80, two water tank outlet valves DN 150 each pneumatically controlled, 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 700 l [185 gal U.S.], effective volume 600 l [158 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

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!)

Operating Elements

main switch, control lights POWER SUPPLY and CONTROL VOLTAGE, buttons, warning lights WARNING and FAULT, buttons HYDRAULIC MOTOR ON/OPERATION and HYDRAULIC MOTOR OFF/FAULT, button EMERGENCY-STOP, switch DRAINING SUSP./WATER / ALL VALVES (each mixer), switch REMOTE CONTROL ON/OFF (each mixer), switch LIGHT ON/OFF for inside rod lamp and switch LIGHT ON/OFF for outside working lamps, rotary knob for max. DELIVERY PRESSURE adjustment, valve for shutting-off/adjusting the mixer speed (each mixer), **Connection Options:** sockets SCREW CONVEYOR 1 and 2 (each mixer), sockets VIBRATOR 1 and 2 (each mixer), sockets LIQUID COMPONENT 400 V / 16 A and LIQUID COMPONENT 230 V / 16 A, free socket outlet 400 V / 16 A, free sockets 230 V / 16 A (2x), sockets REMOTE CONTROL 14-pol. with EMERGENCY-STOP bridge plug (2x), sockets EXTENSION with respective EMERGENCY-STOP bridge plug (2x),

sockets REMOTE CONTROL PUMP (2x), sockets EXTENSION REMOTE CONTROL (2x), sockets IDM 24 V, ULTRASONIC SENSOR, LIQUID COMPONENT (FLOW), SOLENOID VALVE LIQUID COMPONENT, MIXTURE MONITORING (mixing operation)

Control Panel with Touch-Screen

warning lights WARNING and FAULT, button ACCEPT, button EMERGENCY STOP, **Operating Elements each Mixer 1 and 2:** 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, button RESET, switches RECEIPT -/+ and COMPONENTS -/+, switch MANUAL/AUTO, potentiometer MIXING TIME, **Operating Elements each External Pump 1 and 2:** buttons PUMP OFF, SUSPENSION and WATER, potentiometers FLOW RATE, **Connection Options:** sockets ETHERNET and USB

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!