Mix-Pump-Container MPC 1030-160-D

with new mixing plant control system AUT-2



Technical Data

Drive Drive Power

Exhaust Emission

Fuel Consumption Fuel Tank

Connections inlet Water

Connections outlet Hydraulical Pressure line Circulation line

Dimensions (L x W x H) Weight

Diesel-hydraulic

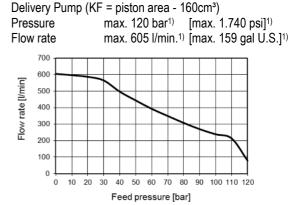
Diesel engine Scania DC09-080A, 202 kW [275 HP] at 2.100 rpm, 5-cylinder-in-line, 9,3 I displacement, turbocharger and intercooler EU Step 4 / U.S. EPA Tier 4 final, SCR-catalytic converter, carbamide injection (AdBlue) +/- 47 I [12,4 gal U.S.] Diesel/h made of aluminium, volume 500 I [132 gal U.S.] with electrical filling pump

G 3 BSPP AG DN 80 - B-coupling 2 x G 1 BSPP IG DN 25 - GEKA

Quick couplings for two screw-conveyors G 1 ½ BSPP IG DN 40 - 38 S G 1 BSPP IG DN 25 - RD 38

6.260 x 2.480 x 2.690 (mm) approx. 11.600 kg

Performance Mixer with weighing system Feed per Screw-conveyor up to 30,0 m³/h





Fully automatic mixing and pumping of cement, fly ash and bentonite suspensions at anchorings, fillings, flushing, pressings, piling and vibrating jobs, slurry walls, Soil-Mixing WSM (Single-, Twin-, Triple) and Cutter-Soil-Mix CSM



¹⁾Infinitely variable. Both max. performances are not simultaneously possible. 1 bar = 1 x 10⁵ N/m² (Status April 2016 / technical changes reserved)

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Standard Features

Framework

20ft-Container on a skid steel frame, partially enclosed and with partition panel, floor and oil pan, floor drain DN 50, mixing and storing tank in a separate room, four towing devices, machine room sound proofed, lockable doors, optional on a rolling base frame (multiliftsystem DIN 30722), foldable safety grids around the machine, finishing 2K-paint RAL 5005 (signal blue) or on customer desire unicoloured

Diesel Drive

diesel engine Scania DC09-080A with turbo charger and inter cooler, 202 kW [275 HP] at 2.100 rpm, 5-cylinder-in-line, 9,3 I displacement, watercooled, starter batterys 12 V, exhaust silencer approx. 30 dB/A

Hydraulic

oil tank volume 700 I [185 gal U.S.], axial piston pump and gear pumps, oil cooler with thermostat, main and control oil filter, oil filling and ventilation filter, electrical oil filter pollution control, oil level and temperature indicator, manometer for hydraulic and control oil pressure, pressure and flow infinitely variable

Delivery Pump

vertical two-plunger pump Ø 160 mm, flow rate per double stroke V = 11,21[2,96 gal U.S.], pump valves (suction and pressure line) selfacting (disc valves), circulation and pump-down valves manually actuated, flow rate adjustment electro-proportional, automatic grease system for plunger sealing sleeves, plunger oil tank

Delivery Pressure Measurement

manometer 0-250 bar [3.626 psi] Ø 100 mm completely with stainless steel membrane, electronic pressure sensor 0-250 bar [3.626 psi], 4-20 mA, G $\frac{1}{2}$ BSPP AG with LCD display on switch cabinet

Water Metering

water storing and dosing tank V = 900 I [238 gal U.S.], fixed overflow pipe DN 50, water connection B-coupling with flushing connection and butterfly valve DN 50 pneumatically controlled, water tank inlet valve DN 80 and water tank outlet valve DN 200 pneumatically controlled, fully-automatic water metering with fluid level indicator via water pressure sensor and float

Mixing Tank Colloid-Mixer

round tank with conical floor, volume 1.200 I [317 gal U.S.], effective volume 1.000 I [264 gal U.S.], mixer drive hydraulic motor (rotation speed infinitely variable), foldable and lockable tank covers, cover for screw conveyor inlet with inspection flap, circulation and pump down valves DN 100 pneumatically controlled

NO DOSING SCREW CONVEYORS NECESSARY! Standard screw conveyors usable!

Tools in Mixing Tank

3 fast turning mixing tools on one common drive shaft with pump down function, 2 mixing blades \emptyset 280 mm, 1 pumping wheel \emptyset 210 mm, drive shaft bearing above mixer fluid level (No stuffing box, so dry running possible w/o any problems!)

Storing Tank

round tank with straight floor, volume 3.000 I [792 gal U.S.], effective volume 2.900 I [766 gal U.S.], agitator drive hydraulic motor (rotation speed infinitely variable), foldable and lockable tank covers, suspension inlet DN 100 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

fluid level control per ultrasonic sensor

New Mixing Plant Control System

all parameters to control the mixing plant can be regulated via touch screen and are displayed on it (status indicator of mixing cycles). The machine is handled through robust changeover switches and key buttons on the control panel.

Basic functions:

Handling of the mixing plant in a manual or automatic mode, mixing process with water and three solid components plus liquid component possible (order freely selectable!).

Setting options for automatic mode via touch screen:

mixture ratio, weight and density of the single solid components, W/C factors and density of the finished suspension, necessary quantity of water and solid components, quantity of the finished suspension, automatic calculation of the density of the finished suspension, quantity of the finished suspension in liters [gal U.S.] and kilograms [lb], entry of several thousand recipes with name and short description, automatic calculation of missing parameters based on the available parameters, start of automatic cycles at the touch of a button, automatic mixing of two different mixing ratios on a rotating basis or after specification of the order of components for operation with an additional external storage container, data recording and evaluation of all mixing and pump parameters (read out via USB stick!), optional: connection of a second external pumping unit

Accessories (included)

operating manual and spare part list, special tools for operation and maintenance, cable remote control 15 m and cable reel 100 m, radio remote control, inductive flow meter (installed in suction line), circulation hose, high pressure cleaner 4 kW, 950 rpm, 200 bar [3.045 psi] (industrial device, fixed installed), air compressor (industrial device, fixed installed), heaters, working lamps for machine room, mixing and storing tank

Further devices, special equipments and accessories on request!





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