

Pump-Unit

PS 110-D-C

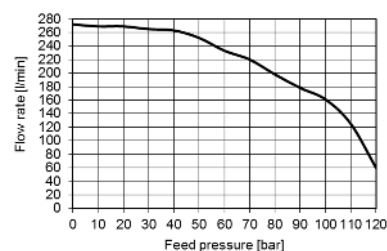
with diesel engine JCB 55kW (EU 4 / Tier 4f)



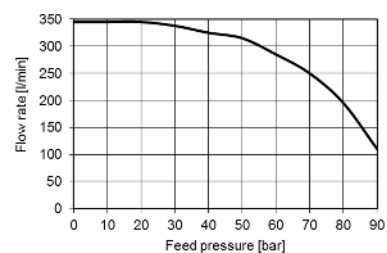
Technical Data

Drive	Diesel-hydraulic
Drive Power	Diesel engine JCB 444 TCAE, 55 kW [75 HP] at 2.200 rpm, max. Torque 375 Nm at 1.400 rpm, speed limit at 1.800 rpm, 4-cylinder in-line with turbo charger, 4,4 l displacement, water and intercooled, electrical injection
Exhaust emission	EU Step 4 / U.S. EPA Tier 4 final
Fuel consumption	+/- 14 l Diesel/h. [3,7 gal U.S.]
Fuel tank	made of steel, approx. 150 l volume [39 gal U.S.]
Connections	
Hydraulic	quick-couplings for external storing tank: forward, return and leak oil
Electrical	12 V / 24 V DC
In-/Outlets	
Suction line	1 x Kamlok 250 MT - DN 65
Pressure line	G 1 1/4 BSPP IG DN 32 - RD 55
Circulation line	G 1 BSPP IG DN 25 - RD 38
Dimensions (L x W x H)	2.700 x 1.450 x 2.150 (mm)
Weight	approx. 3.000 kg
Application	Pumping of cement-, fly ash and bentonite suspensions at anchoring, groutings, flushings, piling and vibrating jobs, slurry walls, Soil-Mixing WSM (Single-, Twin-Mix), and Cutter-Soil-Mix CSM

Delivery Pump (PA = Piston Area - 75cm³)
 Pressure max. 120 bar¹⁾ [max. 1.740 psi]¹⁾
 Flow rate max. 270 l/min.¹⁾ [max. 71 gal U.S.]¹⁾



Delivery Pump (RA = Ring Area - 75cm³)
 Pressure max. 90 bar¹⁾ [max. 1.305 psi]¹⁾
 Flow rate max. 340 l/min.¹⁾ [max. 90 gal U.S.]¹⁾



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

Pump-Unit PS 110-D-C

with diesel engine JCB 55kW (EU 4 / Tier 4f)

Standard Features

Framework

skid steel frame, partially enclosed and with partition panel, floor and oil pan, central towing device, fork lift guides longitudinal and transversal, machine room sound proofed, lockable doors, finishing 2K-paint RAL 5005 (signal blue) or on customer desire

Diesel Drive

Diesel engine JCB 444 TCAE, 55 kW [75 HP] at 2.200 rpm, 4-cylinder in-line, turbo charger, water and inter cooled, max. torque 375 Nm at 1.400 rpm, speed limit at 1.800 rpm (infinitely variable speed adjustment), starter battery 12 V, exhaust silencer approx. 30 dB/A, control voltage 24 V DC (for valves and remote control), operating hour meter

Hydraulic

oil tank volume 300 l [79 gal U.S.], axial piston pump and gear pump, 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 pressure, pressure and flow infinitely variable

Delivery Pump

vertical two-plunger pump \varnothing 110 mm, flow rate per double stroke $V = 4,5$ l [1,18 gal U.S.], pump valves (suction- and pressure line) self-acting (ball valves), circulation and pump-down valves manually actuated, flow rate adjustment electro-proportional, automatic grease system for plunger sealing sleeves and manually with plunger oil, protective grid with safety function

Delivery Pressure Measurement

manometer 0-250 bar [1.450 psi] \varnothing 100 mm completely with stainless steel membrane

Operating Devices

rotary knob for max. delivery pressure adjustment bar [psi], rotary knob for max. flow rate adjustment l/min. [gal U.S./min.], flow rate counter l/min. [gal U.S./min.] and l/total [gal U.S./total] with zero-setting, auto pre-select counter for flow rate l/total [gal U.S./total], battery main switch, control lamp for voltage and power, ON/OFF push button for hydraulic motor, ON/OFF push button for delivery pump, ON/OFF switch for remote control, AUTOMATIC START push-button for delivery pump, EMERGENCY STOP switch

Accessories (included)

operating manual and spare part list, special tools for operation and maintenance, cable remote control 15 m and cable reel 100 m, circulation hose



Accessories (optional)

spare part kits, grouting hoses, suction hoses, fittings

Supplementary Devices

mixing 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!