

# High-Pressure-Pump-Unit

## HPS 200-D-C

with diesel engine JCB 108kW (EU 4 / Tier 4f)



### Technical Data

Drive Diesel-hydraulic  
 Drive Power Diesel engine JCB 448, 108 kW [147 HP] at 2.200 rpm, speed limit at 1.800 rpm, 4-cylinder in-line with turbo charger, 4,8 l displacement, water and inter-cooled, electrical injection, with AdBlue  
 Exhaust emission EU Step 4 / U.S. EPA Tier 4 final  
 Fuel consumption +/- 27 l Diesel/h. [4,5 gal U.S.]  
 Fuel tank made of steel, approx. 200 l volume [52 gal U.S.]

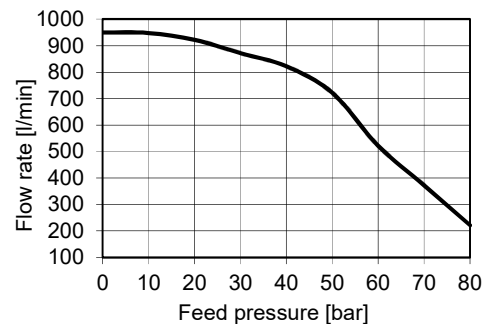
Connections  
 Electrical 12 V / 24 V DC

In-/Outlets  
 Suction line 1 x Kamlok 400 MT - DN 100  
 Pressure line G 1 1/2 BSPP IG DN 40 - RD 55  
 Circulation line G 1 1/2 BSPP IG DN 40 - RD 55

Dimensions (L x W x H) 3.060 x 1.980 x 2.250 (mm)  
 Weight approx. 4.800 kg

Application Pumping of cement-, fly ash- and bentonite suspensions at anchoring, groutings, fillings, flushings, piling and vibrating jobs, Soil-Mixing WSM (Single-, Twin-, Triple-Mix) and Cutter-Soil-Mix CSM

Performance Delivery Pump  
 Pressure max. 80 bar<sup>1)</sup>  
 [max. 1.160 psi]<sup>1)</sup>  
 Flow rate max. 950 l/min.<sup>1)</sup>  
 [max. 251 gal U.S.]<sup>1)</sup>



# High-Pressure-Pump-Unit HPS 200-D-C with diesel engine JCB 108kW (EU 4 / Tier 4f)



## Standard Features

### Framework

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

### Diesel Drive

Diesel engine JCB 448, 108 kW [147 HP] at 2.200 rpm, 4-cylinder in-line water cooled, 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 350 l [92 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  $\varnothing$  200 mm, flow rate per double stroke  $V = 17,5$  l [4,62 gal U.S.], pump valves (suction and pressure line) self-acting (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 0-100 bar [1.450 psi]  $\varnothing$  100 mm completely with stainless steel membrane, electronic pressure sensor 0-100 bar [1.450 psi], 4-20 mA, G  $\frac{1}{2}$  BSPP AG with LCD display on switch cabinet

### Operating Devices

battery main switch, control light CONTROL VOLTAGE, warning lights OIL FILTER PUMP, OIL FILTER CONTROL OIL and EMERGENCY-STOP ACTIVATED, LED lamps for plunger positions, button EMERGENCY-STOP, buttons PUMP ON and PUMP OFF, button ACKNOWLEDGE LOW OIL LEVEL, switch REMOTE CONTROL ON/OFF, switch LIGHT ON/OFF for LED rod lamp inside, rotary knob for max. DELIVERY PRESSURE adjustment, potentiometer FLOW RATE, flow rate counters l/min. [gal U.S./min.] and l/total [gal U.S./total] with zero-setting (2x), auto pre-select counter for flow rate l/total [gal U.S./total], LCD display for delivery pressure, **Connection Options:** socket REMOTE CONTROL with EMERGENCY-STOP bridge plug, socket EXTENSION REMOTE CONTROL, socket EXTENSION, socket PRESSURE SIGNAL 6-pin, socket BATTERY CHARGER 12 V

### Engine panel

LCD 7" colour display with lateral function keys for querying and displaying all relevant engine informations such as engine speed, fuel consumption, fuel tank display, water temperature, oil and boost pressure, battery voltage, operating hours, date/time etc., ignition lock, warning lamps for LOW COOLING WATER and AIR FILTER POLLUTION, selector switch for SPEED SET 0-1-2

### Accessories (included)

operating instruction and spare part list, special tools for operation and maintenance, cable remote control 15 m and cable reel 100 m, suction hose 3 m, circulation hose, corded LED rod lamp inside, pulsation damper

### 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!*