

High-Pressure-Pump-Unit HPS 110-D-C

with diesel engine John Deere 104kW (EU 5 / Tier 4f)

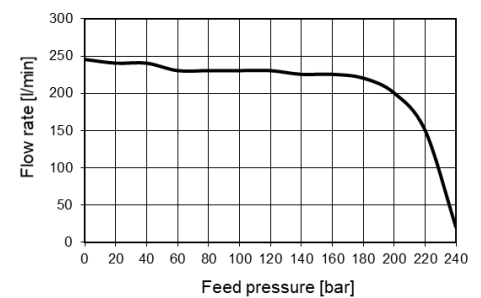


Technical Data

Drive	Diesel-hydraulic
Drive Power	Diesel engine John Deere 4045HI550, 104,0 kW [139 HP] at 2.200 rpm, speed limit at 1.800 rpm, 4-cylinder in-line with turbo charger, 4,5 l displacement, water and air-to-air aftercooled, electrical injection
Exhaust emission	EU Step 5 / U.S. EPA Tier 4 final
Exhaust Aftertreatment	SCR with AdBlue, DOC and DPF
Connections	
Electrical	12 V / 24 V DC
In-/Outlets	
Suction line	DN 65 - RD 105
Pressure line	G 1 ½ BSPP IG DN 40 - 38 S
Circulation line	G 1 BSPP IG DN 25 - RD 38
Dimensions (L x W x H)	3.060 x 1.980 x 2.250 (mm)
Weight	approx. 4.700 kg
Application	Pumping of cement-, fly ash and bentonite suspensions at anchoring, groutings, flushings, sealings, piling and vibrating jobs, slim and diaphragm walls, soil mixing WSM (single-, twin-, triple-mix) and cutter soil mixing CSM

Performance Delivery Pump

Pressure	max. 245 bar ¹⁾ [max. 3.553 psi] ¹⁾
Flow rate	max. 245 l/min. ¹⁾ [max. 65 gal U.S.] ¹⁾



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Standard Features

Framework

skid steel frame, partially enclosed and with partition panel, floor and oil pan, four towing devices, lashing eyes for transportation, fork lift guides crosswise, machine room sound proofed, lockable and fixable doors, finishing 2K-paint RAL 7042 (traffic grey) or on customer desire unicoloured

Diesel Drive

diesel engine John Deere 4045HI550, 104,0 kW [139 HP] at 2.200 rpm, 4-cylinder in-line, water and air-to-air aftercooled, 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 pressure, pressure and flow infinitely variable

Delivery Pump

vertical two-plunger pump \varnothing 110 mm, flow rate per double stroke $V = 5,3$ l [1,4 gal U.S.], pump valves (suction and pressure side) 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 0-250 bar [3.626 psi] \varnothing 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

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)

documentation, special tools for operation and maintenance, cable remote control 15 m and cable reel 100 m, suction hose 3 m with suction basket, circulation hose, corded LED rod lamp inside

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!