

SDD RIG

EFFICIENT DRILLING



Slant Directional Drilling HK150C-SDD

- › Drilling from 9° to 90°
- › Long horizontal and shallow drilling due to the ability of pushing force
- › Reliable and robust drilling rig with low maintenance effort
- › Compact, reliable and efficient hydraulics
- › Precise drilling with rack and pinion
- › High-quality components
- › Worldwide service and support

**PIONEERING
UNDERGROUND
TECHNOLOGIES**



Slant Directional Drilling HK150C-SDD

Technical specifications

The **Herrenknecht HK150C-SDD**, a new rig type for shallow oil & gas drilling in angles between 9° and 90°. Drilling with slant angle in combination with the available push force enables you to drill into shallow formations with long horizontal section. This will raise production performance e.g. for geothermal, CSG, gas cavern storage, oil-sands, landfalls, sea outfalls, etc. The high-performance hydraulic system allows you the infinity adjustment of all forces, torques and velocities by the control system. The crawler ensures high mobility in the field as well as good transportation on a trailer for long distance travelling.



Power pack



Control cabin



Rig 9° drilling position

HK150C-SDD

Rig

- › Installed power: 522 kW, CAT C18 ACERT Power
- › Power transmission: Rack & Pinion
- › Entry angle: 9-90°
- › Pipe length: 12,000 mm
- › Diameter: max. 14 inch
- › Number of pipe supports on mast: 3
- › Explosion proof: European directive RL2014/34/EU
- › Ground clearance: 4,800 mm
- › Hydraulic power slip: 2 3/8" - 14"
- › Efficient and save pipehandling system: tripping speed 230 m/hour

Carriage system

- › Push-/pull force: 1,500 kN
- › Carriage speed: 0-30 m/min

Rotary drive

- › Spindle speed: 0/80 rpm
- › Torque: 70 kNm
- › Drive shaft adjustment: 150 mm

Breakout unit

- › Clamping range: 102 mm/355 mm (4"/14")
- › Breakout torque: 190 kNm
- › Make-up torque: 130 kNm
- › Number of hydraulic centralizer: 1

Crawler

- › Installed power: 151 kW
- › Motor type: Caterpillar, C7.1

Transport dimensions

- › Dimension (l/w) approx.: 21,000 mm/12,000 mm
- › Weight: 62,000 kg

POWER PACK

- › Number of power-pack: 1
- › Engine power: 522 kW
- › Motor type: Caterpillar, C18
- › Max. RPM: 2,100 rpm
- › Hydraulic tank: 700 l
- › Number of hydraulic pump carriage drive: 1
- › Number of hydraulic pump rotary drive: 1
- › Number of hydraulic pump auxiliaries: 3
- › Fuel tank: 1,300 l
- › Dimension 20 ft (l/w/h): 6,060 mm/2,440 mm/2,600 mm
- › Weight: 12,000 kg

CONTROL CABIN

- › Self-diagnostic control system: Siemens PLC
- › Data logger: yes
- › Remote access: yes
- › Air condition/heating: yes
- › Dimension 20 ft (l/w/h): 6,060 mm/2,440 mm/2,600 mm
- › Weight: 7,000 kg



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