

HYBRID RIG HK80CK

ECO-FRIENDLY DRILLING



Horizontal Directional Drilling – Hybrid Rig HK80CK

- › Compact crawler rig with electric engine
- › Small footprint for jobsites in urban areas, all components can be mounted directly on the rig
- › Customized for entry and exit angles between 9° and 21°
- › Low in emissions, low in noise: beneficial for residents and the environment
- › High-quality components
- › Worldwide service and support

**PIONEERING
UNDERGROUND
TECHNOLOGIES**



Horizontal Directional Drilling – Hybrid Rig HK80CK

Technical specifications

The newly implemented Herrenknecht Hybrid Rig HK80CK is a perfect match for tricky pipeline crossings in densely populated urban areas. It comes in a space-saving design and therefore fits into cramped environments where eliminating emissions output and minimal use of space are essential. Additionally, the unit is autonomous and runs all equipment from one electrical source.



Minimal space used at jobsite (<500sqm)



Onboard noise insulated electric power unit



Mobile control cabin

HYBRID RIG HK80CK

Rig

- › Installed power: 324 kW (434 hp)
- › Power transmission: Rack & Pinion
- › Drilling angle: 9°–21°
- › Drill pipe length: 6,000 mm (20ft)
- › Pipe support system on mast: 2

Carriage system

- › Nominal carriage pulling force: 800 kN (180,000 lb)
- › Variable traveling speed: 0 m/min–35 m/min (0 ft/min–115 ft/min)
- › Max. travel distance: 7,500 mm (25 ft)

Rotary drive

- › Variable rotation speed left/right: 0 rpm–100 rpm
- › Max. torque: 60,000 Nm (44,250 ft-lb)
- › Drive shaft adjustment: 125 mm (5 inch)

Breakout unit

- › Self-adjusting clamp grip range: 101 mm–255 mm (4 inch–10 inch)
- › Max. breakout torque: 146,000 Nm (107,700 ft-lb)
- › Max. make up torque: 100,000 Nm (73,700 ft-lb)
- › Traveling distance: 7,500 mm (25 ft)

Transport dimensions

- › Dimensions (l/w/h): 12,100 mm/2,550 mm/3,500 mm (with cabin), 2,900 mm (without cabin) (39.7 ft/8.37 ft/11.5 ft (with cabin), 9.5 ft (without cabin))
- › Weight: 27,000 kg (59,500 lbs)

POWER PACK

- › Installed power: 250 kW (335 hp)
- › Engine type: VEM three-phase induction electric motor
- › Working environment: -10° C–45° C (14° F–113° F)
- › Noise protection (7 m distance): 70 dB (A)

Onboard diesel engine 74 kW

- › Installed power: 74 kW (99 hp)
- › Engine type: Caterpillar

CONTROL CABIN

- › Control system: PLC/touch-screen monitor
- › Data logger: recording of all drilling data
- › Weight of cabin with frame: approx. 1.400 kg (3,086 lbs)
- › Mounted on the rig for transportation
- › Camera system on board
- › MDT Modul for remote monitoring

ROD LOADING SYSTEM*

- › Amount of pipes: 5–6
- › Drill pipe length: 6,000 mm (20ft)

CRANE FOR ROD HANDLING WITH GRIPPER*

- › Crane type: Palfinger
- › Working radius/loading capacity:
 - › maximum: 6.54 m/420 kg (21.5 ft/926 lbs)
 - › common: 5.3 m/700 kg (17.4 ft/1,543 lbs)

*Upgrades for Hybrid Rig HK80CK

HERRENKNECHT AG

77963 Schwanau
Germany
Phone +49 7824 302-0
Fax +49 7824 302-3640
utility@herrenknecht.com
www.herrenknecht.com

