

COMPACT RIG HK80CK

# COMPACT SOLUTION IN TIGHT SPACE CONSTRAINTS



## Horizontal Directional Drilling – Compact Rig HK80CK

- › Versatile compact crawler rig with the strongest rotary drive of its class
- › A lot on-board options and quick set up time on the job
- › Small footprint and noise protection for jobsites in urban areas
- › 20ft drill pipe length
- › Driller cabin and high pressure pump is mounted directly on the rig
- › Rod loading system allowing quick and safe drilling
- › Quick error detection using self-diagnostic routines and data loggers
- › High-quality components
- › Made in Germany
- › Worldwide service and support

**PIONEERING  
UNDERGROUND  
TECHNOLOGIES**



# Horizontal Directional Drilling – Compact Rig HK80CK

## Technical specifications



Powerful CAT engine built according to the latest standards for emissions in the EU/US.



Everything in sight from the one-man cabin with big touch screen.



Crane connected to the front anchoring system of the HK80CK.

### COMPACT RIG HK80CK

#### Rig

- › Installed power: 328kW (440hp)
- › 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 push/pull 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 (with onboard cabin)

- › Dimension (l/w/h): 12,000 mm/2,800 mm/3,200 mm (39.4 ft/9.19 ft/10.50 ft)
- › Total weight of the equipment excl. crane and rod loading: 28,350 kg (62,500 lbs)

### POWER PACK

- › Installed power: 328kW (440hp)
- › Engine Type: Caterpillar C13
- › Emissions: EPA Tier 4 final/EU Stage IV
- › Noise protection (7 m distance): 78 dB (A)
- › Working environment: -10°C–45°C (14°F–113°F)

### CONTROL CABIN

- › Control system: Siemens Soft PLC/Profibus
- › Visualization: touch-screen monitor
- › Data logger: recording of all drilling data
- › With air-condition and heating
- › Camera system on board
- › MDT Modul for remote monitoring

### ROD LOADING SYSTEM\*

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

### 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 Compact Rig HK80CK



Rod loading and storage system for up to 6 drill pipes on the rig operated by the driller.