

HK500T TRAILER RIG

CLEVER AND POWERFUL DRILLING



Horizontal Directional Drilling – Trailer Rig HK500T

- › Powerful and efficient motion and force control
- › Reliable and robust drilling rig with low maintenance effort
- › Cost- and time-saving transportation and assembly on the jobsite
- › Quick error detection using self-diagnostic routines and data loggers
- › Worldwide data access via satellite remote control
- › High-quality components
- › Made in Germany
- › Worldwide service and support

**PIONEERING
UNDERGROUND
TECHNOLOGIES**



Horizontal Directional Drilling – Trailer Rig HK500T

Technical specifications



Transport: designed for easy transportation as well as easy assembly and disassembly on the jobsite.



Open wrench style: allows direct access and view to the drill rod connection via mirror or camera (optional).



Quality: Rack & Pinion for a precise and durable drive system.

HK500T

Rig

- > Installed power: 2 x 480 kW (2 x 644 hp)
- > Power transmission: Rack & Pinion
- > Entry angle: 8° – 15.5°
- > Drill rod length: 9.6 m (range 2) (31.5 ft (range 2))
- > Pipe support system on mast: 2

Carriage system

- > Pullback force: 5,000 kN (1,100,000 lb)
- > Carriage speed:
 - 0 m/min – 29 m/min (0 ft/min – 95 ft/min)
- > Max. travel distance: 11,725 mm (38.5 ft)

Rotary drive

- > Spindle speed: 0 rpm – 60 rpm
- > Torque: 140 kNm (103,250 ft-lb)
- > Drive shaft adjustment: 150 mm (6 inch)

Breakout unit

- > Clamping range: 105 mm – 305 mm (4 inch – 12 inch)
- > Breakout torque: 190 kNm (140,150 ft-lb)
- > Make up torque: 130 kNm (96,000 ft-lb)
- > Hydraulic drill rod support: 1

Trailer

- > Mounted on the mast with leaf spring
- > Installed axles: 3
- > King pin: 51 mm/89 mm (2 inch – 3.5 inch)

Transport dimensions

- > Dimension (l/w/h): 16.55 m/2.65 m/4.1 m (54.3 ft/8.7 ft/13.5 ft)
- > Weight: 45,500 kg (100,310 lbs)

POWER PACK

- > Number of power packs: 2
- > Installed power: 480 kW (644 hp)
- > Max. rotational speed: 2,100 rpm
- > Hydraulic tank: 700 l (185 US gallons)
- > Fuel tank: 1,200 l (317 US gallons)
- > Noise protection: 80 dB(A) (7 m distance) (80 dB(A) (23 ft distance))
- > Working environment: -10° C – 55° C (14° F – 131° F)
- > Dimension (l/w/h): 6 m/2.45 m/2.6 m (20 ft/8 ft/8.5 ft)
- > Weight: 10,000 kg (22,050 lbs)
- > Transport: 20 ft container

CONTROL CABIN

- > Self-diagnostic control system: PLC
- > Data logger: yes
- > Remote control: optional
- > Air condition/heating of control cabin: yes

Compartments 1

- > Dimension (l/w/h): 3 m/2.45 m/2.43 m (10 ft/8 ft/8 ft)
- > Weight: 5,000 kg (11,000 lbs)
- > Transport: 10 ft container

Compartments 2

- > Dimension (l/w/h): 6 m/2.45 m/2.43 m (20 ft/8 ft/8 ft)
- > Weight: 7,000 kg (15,450 lbs)
- > Transport: 20 ft container



Control Cabin & Process Visualization: HDD Rig operator controls and checks the drilling process with a touch screen monitor and an ergonomic control seat with joysticks.



Sound isolation: power packs are installed in a sound-proofed 20 ft container.