

FDP-400 HORIZONTAL DIRECTIONAL DRILLING RIG



Main Drill Rig	
Max Feed Thrust / Feed Pull	4000KN(899200 lbf)
Feed Thrust/ Feed Pull System	Pinion and rack type, moving with 6 gears driving with three-speed gear shift, step less speed regulating I shift: 7.5m/min (24.6 feet/min) II shift: 32m/min (105 feet/min)
Rotation driving of HDD Rig	Gear transmission, step less speed regulating I shift hollow spindle torque: 98000N·m(72226 lbf·ft)@42r/min II shift hollow spindle torque: 49000N·m (36113 lbf·ft)@84r/min
Motor	
Manufacturer	Weichai Power Co., Ltd
Rated Value of HDD Rig motor	552kW (750HP)
Operational State	Thrust/Pull and rotation all can reach above mentioned max performance index.
Operator's cab	
Equipped with air-conditioner	
Dimension and Gross weight	
Dimension(L×W×H)	17.17×3.25×3.45m (56.32×10.33×11.32 feet)
Gross weight	52000kg (114660 lb)
Mast Entrance Oblique Angle	
HDD Rig 8-16°	
Environmental Standard and Service	
Engine emissions and noise meeting European II standard.	

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Drilling Tool	
Drilling Rod to be used.	5" , "5 1/2"
Reaming shell(cutting type)	Φ425,Φ530,Φ680,Φ760,Φ900,Φ1100,Φ1350mm (Φ16.7,Φ20.9,Φ26.8,Φ29.9,Φ35.4,Φ43.3,Φ53.1 inch)
Shackles	
Clamp holder centering by it, Shackles full distance moving.	
Clamper/ Break-out Tong	Distance adjustable with accurate, stable and reliable breaking- out.
Max HDD Rig make-up torque	110000N·m (81070 lbf-ft)
Max break out torque	220000N·m (162140 lbf-ft) (It can be designed according to the requirement of client.)
Mast	
Length of mast 16.5 meters.(54.12 feet)	
Hydraulic Mud Pump	
Full Hydraulic driving, flux step less adjustable.	
Flux Rate	0-2200L/min (0-581 US Gallons/min)
Pressure	0-10Mpa (0-1450 psi)
Chassis	
Track Caterpillar Assembly Type	
Accessory	
Pressure, flux rate, and revolution and other more than ten data will be shown in figures. This is easy for analysis and judgment of problems and conditions in the performance process.	