

**FDP-400 HORIZONTAL DIRECTIONAL DRILLING RIG**


<b>Main Drill Rig</b>	
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
<b>Motor</b>	
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.
<b>Operator's cab</b>	
Equipped with air-conditioner	
<b>Dimension and Gross weight</b>	
Dimension(L×W×H)	17.17×3.25×3.45m (56.32×10.33×11.32 feet)
Gross weight	52000kg (114660 lb)
<b>Mast Entrance Oblique Angle</b>	
HDD Rig 8-16°	
<b>Environmental Standard and Service</b>	
Engine emissions and noise meeting European II standard.	

<b>Drilling Tool</b>	
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)
<b>Shackles</b>	
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.)
<b>Mast</b>	
Length of mast 16.5 meters.(54.12 feet)	
<b>Hydraulic Mud Pump</b>	
Full Hydraulic driving, flux step less adjustable.	
Flux Rate	0-2200L/min (0-581 US Gallons/min)
Pressure	0-10Mpa (0-1450 psi)
<b>Chassis</b>	
Track Caterpillar Assembly Type	
<b>Accessory</b>	
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.	