

**FDP-120 HORIZONTAL DIRECTIONAL DRILLING RIG**


<b>MAIN DRILL RIG</b>	
Max Feed Thrust / Feed Pull	1200KN(269760 lbf)
Feed Thrust/ Feed Pull System	Pinion and rack type, moving with 4 gear driving with three-speed gear shift, step less speed regulating I shift : 7m/min (23 feet/min) II shift: 16m/min (52.5 feet/min) III shift: 28m/min (91.8 feet/min)
Rotation driving	Gear transmission, step less speed regulating I shift hollow spindle torque: 50000N·m(36850 lbf·ft)@38r/min II shift hollow spindle torque : 25000N·m(18425 lbf·ft)@76r/min
<b>Motor</b>	
Manufacturer	Weichai Power Co., Ltd
Rated Value	Two-motors 400kW (540HP), Single motor 360kW
Operational State	Thrust/Pull and rotation all can reach above mentioned max performance index.
<b>Dimension and Gross weight</b>	
Dimension(L×W×H)	14.5×2.8×2.85m (47.6×9.2×9.3 feet)
Gross weight	30000kg (66150 lb)
<b>Mast Entrance Oblique Angle</b>	

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.	4 1/2" 、 5"
Reaming shell(cutting type)	Φ325 ,Φ530,Φ660,Φ760,Φ900,Φ1100mm (Φ12.8 ,Φ20.9,Φ26,Φ29.9,Φ35.4,Φ43.3 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 make-up torque	60000N·m (44220 lbf·ft)
Max break out torque	120000N.m (88440 lbf·ft) (It can be designed according to the requirement of client.)
<b>Crane On The Rig</b>	
3MT (9.8 feet) Straight-arm Crane.	
<b>Mast of Rig</b>	
Length of mast 14 meters.(45.9 feet)	
<b>Hydraulic Mud Pump</b>	
Full Hydraulic driving, flux step less adjustable.	
Flux Rate	0-1000L/min(0-264 US Gallons/min)
Pressure	0-8Mpa(0-1160 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.	