

**FDP-40 HORIZONTAL DIRECTIONAL DRILLING RIG**

The FDP-40 directional drilling rig is driven with full hydraulic system, propelled with its own crawlers. Driven with duplex zero motors, the rotator could drill with two speeds with an advanced and compact structure, adopting chain feeding system driven by motor, the motor could move stably and reliably, the mast could be adjusted for the angle of drilling holes from 8°to 22°. The overall unit is in low center of gravity and good stability with graceful structure, an auxiliary crane equipped to the rig, a comfortable operation circumstance provided for the operator.

Basing on the idea of purchasing internationally, the main matching parts and auxiliary equipments, such as diesel engine, hydraulic pumps, valves, motors, reducer and key hydraulic accessories are all adopted in famous brand at home and abroad.

With big torque, reasonable structure design, advanced operation way and 4.5 m (14.76 feet) length of rod, all these guarantee the rig a high efficient performance.

The Main Machine	
Power of Engine	YC6M240 175 KW(235HP) (2200 r/min)
Max. Push capacity	400KN (89920 lbf)
Max. Pull capacity	400KN (89920 lbf)
Rated Torque	15000 N·M (11055 lbf·ft)
Hollow Spindle RPM	Lower 0-40r/min
	High 0-80r/min
Feeding Stroke	5000 mm(197 inch)

Diameter of Guide Hole	Φ170 mm(6.7 inch)
Drilling Angle	8°—20°
Pressure of hydraulic system	20Mpa(2901 psi)
Traveling speed	2 km/h(6560feet/h)
Structural Style	integrated with steel crawler, crane and mud pump
Dimension (L×W×H)	7800×2300×2350 mm(307×90.6×92.5 inch)
Weight	16000 kg(35280 lb)
Crane	2T/m(1345 lb/feet), Max Straight-arm 4.5m(14.8 feet)
<b>Mud Pump</b>	
Specification	BWF-400
Max. Discharge	400 L/min (106 US Gallons/min)
Peak Pressure	10 Mpa(1450 psi)
<b>Mud Process System (Optional Part)</b>	
Data of engine	20.9PS petrol engine
Pump parameter	100 m <sup>3</sup> /h (3529 feet <sup>3</sup> /h)
Mud processing capacity	16 m <sup>3</sup> /h (565 feet <sup>3</sup> /h)
Mud Tank	5M <sup>3</sup> (176feet <sup>3</sup> )
Weight	500kg(1103 lb)
<b>Drilling Tools and Auxiliary System</b>	
Specification of Rod	Φ89×4500 mm(Φ3.5×177 inch)

Guide Bit	Φ170 mm (6.7 inch)
Reamer	Φ400,Φ500,Φ600,Φ720,Φ830,Φ900mm (Φ15.7,Φ19.7,Φ23.6,Φ28.3,Φ32.7,Φ35.4 inch)
Distributor	60T (132300 lb)
Tracker	Optional Part