



Drilling rig
FORWARD RX33×120
 intended for underground
 engineering communications
 construction by horizontal
 directional drilling method

Main technical characteristics

Diesel engine			
Model	Weichai-DEUTZ		
Power	176 kW		
Cylinders	6		
Rotation	2 200 rpm		
Cooling type	Water cooling		
Fuel consumption	16-23 L/h		
Rotation			
Gears			2
	Low Speed	Rotation Speed	0-90 rpm
		Maximum Spindle Torque	14 000 Nm
	High Speed	Rotation Speed	0-180 rpm
		Maximum Spindle Torque	7 000 Nm
Thrust and pullback			
Move Speed			3
	Low Speed	Thrust force	330 kN
		Pullback force	330 kN
		Speed	0-9,5 m/min
	High Speed	Thrust force	165 kN
		Pullback force	165 kN
		Speed	0-19 m/min
	Carriage Speed	Thrust force	165 kN
		Pullback force	165 kN
		Speed	0-42 m/min
Other parameters			
Drilling angle			10-18°
Clamping system	Jaws clamping spindle torque		10 500 Nm
	Jaws reducing spindle torque		21 000 Nm
Mud pump	Maximum capacity		450 L/min
	Maximum pressure		10 MPa
Motion	Motion speed		0-3 km/h
	Maximum elevation angle		25°
Drilling rod	Length		3 000 mm
	Rod lock		Ø 82 mm
	Rod body		Ø 73 mm
	Max bending		6%
	Weight		45 kg
Loading capacity of drill rods holder		40 pc	
HDD rig weight		11 000 kg	
Dimensions (L×W×H)		6,80×2,20×2,33 m	
Diesel engine preheating		+	
Hydraulic system preheating		+	
Hydraulic anchor system		+	
Drill rods supply system		+	
Drill rods lubrication system		+	
Fuel tank capacity		247 L	
Hydraulic tank capacity		311 L	

Standard configuration

No	Item	Specification	Quantity	Remarks
Main parts				
1	Horizontal directional drilling rig	RX 33×120	1 unit	main machine
2	Mud mixing system		1 set	1 set includes: mud tanks (3 cbm) - 2 pc, Honda mixing pumps - 2 pc, funnels - 2 pc, pipes - 1 set
Drilling tools				
3	Drill rod	Ø 73 mm L=3000 mm	100 pc	40 pc in holder
4	Transmitter housing		1 pc	in assembly
5	Starter rod		1 set	
6	Reamer	Ø 200/Ø 300/Ø 400 Ø 500/Ø 650/Ø 850	1 set	three-wing reamer
7	Pulling eyes (pin and box)		1 set	
8	Swivel	40 t	1 pc	
Spare parts and accessories				
9	Spare parts and accessories		1 set	

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