

XDQ-1200 Full Hydraulic Portable Diamond Wireline Core Drilling Rig



XDQ-1200 Full Hydraulic Portable Diamond Wireline Core Drilling Rig is used specifically for the mountainous areas of solid mineral surface coring operation, and is designed with a variety of diamond core and rope core drilling techniques.

Application

XDQ-1200 type hydraulic light core drill for mountain foothills of solid surface coring operation and design, suitable for diamond rope core and so on the many kinds of drilling process, applicable to the geological, metallurgical, coal, oil, natural gas, groundwater, etc. The whole machine adopts modular design, disassembly, easy installation and relocation, save time and effort.

Drilling capacity: BQ dia.: 55.6mm depth: 1200m, NQ dia.: 71mm depth: 900m, HQ dia.: 89mm depth: 600m

Power: diesel engine (Perkins 403D-15T)

Features

1. Modular design, a single module is not more than 200 kg, easy to move, convenient to be used in small space.
2. R & D constant pressure control system while drilling, automatically setting constant drilling to improve drilling efficiency, quality assurance down the hole;
3. rig hydraulic system main components are imported brands, domestic brands in general component selection, the system is stable, reliable, long life;
4. uses electro-hydraulic power head gear shifting mode, continuously variable transmission can be realized in a certain range, and a 4-speed gearbox;
5. using direct-acting hydraulic system load feedback to fine-tune the variable power with load changes, high efficiency, and low energy consumption (the system has been

successfully applied in various series on my factory rig);

6.Large power head torque, rotating speed, lifting speed, hydraulic systems and diesel engines with monitoring digital devices.

Technical Data

Drilling capacity	BQ1200m	NQ800m	HQ600m
Post/Feed	Trip:1.7m	Feed Speed: fast, slow, stepless variable speed	
	Feed Force:60KN	Promote Force:120KN	Drilling Angle:0-90°
Auxiliary Winch	Empty drum to promote force: 12KN	Drum to promote full force: 5.2KN	
	Speed(empty drum): 140m/min	Drum Speed(full): 340m/min	
	String up:1200m/φ5mm		
The Engine	Brand: Perkins	Model: V1505	
	Output Power: 33kW*3	Rotate speed: 3000rpm	
	Turbocharged after cooled diesel engine		
Hydraulic system	Main pump: 111L/min, 28MPa		
	Auxiliary pump: 58L/min, 16MPa		
Power Head	The bore diameter: φ94mm		
	Gears	Range of speed(rpm)	Maximum torque
	1	0-150	4000
	2	0-260	2300
	3	0-500	1200
	4	0-840	720
Chuck	Open type: spring clamping hydraulic		

	Chucking power: 392kN
Overall dimensions	A, Moving: 3300*1000*1700mm
	B, Working: 2600*1000*6400mm
Total weight	2800kg

Drill removable module weight			
Power head	A, the spindle reducer: 160kg	B, transmission motor: 180kg	C, chuck: 200kg
Upright	King-tower: 130kg	Deputy tower: 80kg	
Power head carriage	55kg		
Bottom bracket	70kg		
Holder	100kg		
Pedestal	70kg		
Rack	100kg		
Rope hoist	300kg		
Power unit(excluding water tank, oil pump)	200kg*2		
Hydraulic oil tank	200kg		