



## Diamond core drilling machine

### **XDQ-1200 full hydraulic portable core drill rig**



#### **Introduction:**

XDQ-1200 full hydraulic core drill 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. It is applied to geology, metallurgy, coal, oil, natural gas, groundwater and other industries. The machine adopts modular design, easy for demolition, relocation and installation, saving time and effort.

#### **Features:**

1. Modular design, a single module is not more than 300 kg.
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. power head torque, rotating speed, lifting speed, hydraulic systems and diesel engines with monitoring digital devices.

#### **Technical data:**

1.drilling capacity:	BQ dia. : 55.6mm depth: 1200m NQ dia.: 71mm depth: 900m HQ dia.: 89mm depth: 600m									
2.mast/feed system:	Feed stroke: 1.7m Feed speed: fast TO low, CVT thrust: 60kN pull: 120kN drilling angle: 0-90 degree									
3.auxiliary winch:	Hollowing Line pull: 12KN Full drum pull: 4.5KN speed (last layer): 100m/min speed (full drum): 270m/min rope capacity: 1200m/φ5mm									
4.power:	brand: Perkins model: 403D-15T output: 30KW rotating speed: 2600rpm After cooled turbo diesel engine									
5.hydraulic system:	Main pump flow/pressure: 111L/min, 28Mpa Auxiliary pump flow/pressure: 58L/min, 16Mpa									
6.drill head:	spindle: φ94mm <table border="1"> <thead> <tr> <th>Gear</th> <th>Rotating speed(rpm)</th> <th>Max torque(N.m)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0-325</td> <td>4300</td> </tr> <tr> <td>2</td> <td>0-875</td> <td>1600</td> </tr> </tbody> </table>	Gear	Rotating speed(rpm)	Max torque(N.m)	1	0-325	4300	2	0-875	1600
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1	0-325	4300								
2	0-875	1600								
7.hydraulic chuck:	type: spring closed hydraulic opened force: 392kN									
8.overall dimensions:	a. transporting: 3300*1000*1700mm (Approximately) b. working: 2600*1000*6400mm (Approximately)									
9.weight:	2800Kg (Approximately)									
Rig removable module weight:	1.drill head: a. Spindle gear box: 300Kg b. gearbox: 180 Kg 2. Column: a. main column: 130Kg b. Side column: 80 Kg 3. Power head carriage: 55Kg 4. Lower bracket: 70Kg 5. Holder: 100 Kg 6. Base: 70Kg 7. Frame: 100Kg 8. Rope hoist: 300Kg									

	9. Power unit:	270Kg*3
	10. Hydraulic Tank:	200 Kg

