

## HXY-500 Hydraulic Medium and Deep Rock Core Drilling Rig



### **Application**

The HXY-500 medium and deep rock core drilling machine is a complete hydraulic pressure feed-in, mechanical impetus head rotary type drilling machine independently created by our institute. It is mainly used in all kinds of engineering drilling such as diamond or hard alloy rock core drilling in solid mineral bed, project address exploration, underground water and well etc. It is also suitable for engineering drilling such as ventilation in mine shaft, drainage and stake radix perfusion stake hole, dyke slurry injection and leakage filling.

### **Main Features**

- 1, The vertical shaft has many rotating levels, their distribution is reasonable, and the torque is great at low speed;
- 2, The windlass is strong, its planet gear adopts suspension arm support on the precondition of completely guaranteeing its intention; the structure is simple, easy to dismantle and maintain, great airproof capacity; and the lubrication in the machine is great.
- 3, The vertical shaft has a long feeding journey, which is favorable for improving the efficiency of the drilling machine, reduce accidents such as congestion and burning of the drilling machine;

4, The hydraulic system adopts double joint gear pump fuel supply, it is convenient to choose the big and small displacement; the systematic pressure is stable, the temperature of the fuel is low, and the power consumption is small. Most of the controlling valves has four circuits, which can offer pressure fuel for the hydraulic pressure machine. The frequently dismantled glue pipe adopts fast change and self-seal interface, which is convenient to dismantle, and consumes few fuel.

5, The pressure indicator at the bottom of the hole adopts shockproof manometer with plunge type structure, which is accurate and has a long service life.

6, The clutch is in fuel immersion type, its capacity is reliable, the startup is stable, the overloading protection is great and has a long service life, It is attached with arresting device, and can stop quickly.

7, The entire structure is simple, with reasonable layout. The intension of the components is high and the stability is great; it is easy to dismantle and move, and convenient to repair, maintain, firm and durable.

8, The manipulating handles are converged, so the operation is flexible and reliable. The engine can choose electromotor or diesel engine according to demand.

### Technical Data

Machine type		HXY-500	HXY-500A(new product)
Engine	electric engine	22KW	30KW(Increased dynamic style)
	diesel engine	395,30PS	495,50PS
Rotating speed of vertical axis		1200~64r/min	1200~37r/min
Windlass:Elevating capacity (single rope)		30KN	41KN
Angel of drill bore		0~360°	0~360°
Feeding-in journey of vertical axis		600mm	600mm
Diameter of vertical axis interior hole		68mm	68mm
Piston journey of the portable machine device		400mm	400mm
Gearbox and clutch		Self-made fuel soaking gearbox and clutch	Automobile gearbox and clutch
Hydraulic pressure system		32L+11 L/min 8Mpa	32L+11 L/min 8Mpa
Exterior size		2100×950×1700mm	2210×960×1700mm
Weight (not including impetus)		1.1t	1.1t