



XY-1A CORE DRILLING RIG

This drill rig is a high-speed rig suitable for census exploration, Geophysical exploration, road and building exploration and blasting holes and other drilling projects

We can use alloys, diamonds and composite sheets bits to drill depending on the bottom layer difference.

It can drill 2-9 grade sandy clay and rock formations, etc.

MAIN FEATURE

- 01 The hoist is equipped with a frame to form a double-sided support star structure that can withstand strong impact.
- 02 It adopts the ball card clamping mechanism instead of the chuck, and can implement the non-stop bar, easy to operate, safe and reliable.
- 03 It has a hydraulic automatic feeding mechanism to improve drilling efficiency and reduce labor intensity.
- 04 Four sets of bearing positioning of the vertical axle box ensure that the gyrator has sufficient rigidity to deal with complex geological conditions such as gravel layer and pebble layer.
- 05 This machine adopts a taper clutch, which has the characteristics of large transmission torque, convenient operation and maintenance-free.



Main technical parameters

Model	XY-1A	Rated speed(r/min)	1500
Main parameter		Rated pressure(mpa)	8
Drilling depth(m)	100	Max pressure(mpa)	12.5
Finally hole diameter(mm)	75	Displacement(L/min)	12
Drilling rod diameter(mm)	42	Power machine	
Dimensions (L*W*H)(mm)	1640*920*1240	Diesel engine model	ZS1100BN
Weight (excluding engine)(kg)	500	Rated speed(r/min)	2200
Swivel head		Rated power(kw)	8.8
Spindle speed (three speed)(rpm)	142,285,570	Weight(kg)	115
Spindle stroke(mm)	450	Motor engine model	Y132M-4-B3
Spindle pull-down max(N)	15000	Rated speed(r/min)	1440
Spindle lifting capacity max(N)	25000	Rated power(kw)	7.5
Hoist		Water pump	
Max lifting capacity(one speed single rope)(N)	10000	Type	Horizontal reciprocating single-acting piston pump
Circumference linear velocity of rlerer(m/s)	0.42,0.81,1.68	Bore(mm)	80
Steel rope capacity(m)	27	Stroke(mm)	100
Steel rope diameter(mm)	9.3	Displacement(L/min)	100 matched with diesel engine(1800)
Oil pump			83 matched with motor(1500)
Type	Gear pump	Pressure(mpa)	1.5Mpa Max make and break allowable pressure
Model	YBC-12/125		0.7Mpa Continuous Pressure