

HXY-8 Core Drilling Rig



I. Brief Introduction

The type of HXY-8 Core Drill Rig is a kind of core drill rig for medium and deep hole drilling using diamond and carbide-tipped bits, with mechanical transmission, spindle rotation, hydraulic feeding. HXY-8 is a type of vertical-spindle drilling rig. The drill rigs can be applied to metallic and nonmetallic solid mineral deposits prospecting; shallow strata oil and natural gas exploration. They could be used widely in geology, metallurgy, coal, hydrogeology, hydrological well and engineering and other industries fields. The HXY-8 could be used as traditional vertical-spindle drilling rig. It is the priority selection equipments and suitable for medium and deep depth hole drilling at present in China.

II. Specifications of HXY-8

Drilling depth		1000—3000 m (3280—9840 feet)
Rotate peed (rpm)	Clockwise rotation rates	79,136,121,363,220,379,589,1011
	Anti-clockwise rotation rates	51,142
Diameter of drilling rod		Φ50,Φ60,Φ71,Φ89,Φ114 mm (Φ1.97,Φ2.36,Φ2.80,Φ3.50,Φ4.49 inch)
Spindle stroke		1000 mm(39.4 inch)
Shift range		690 mm(27.2 inch)
Max. hoisting force		300 kN(67440 lbf)
Max. pressuring force		141 kN(31697 lbf)
Max. single-wire hoisting force		125 kN(28100 lbf)
Max. content of winding drum		120 m(394 feet)
Steel wire size		21.5 mm(0.85 inch)
Hoisting speed		0.663,1.09,1.693,2.90,1.761,3.034,4.713,8.803m/s (2.17,3.58,5.55,9.51,5.78,9.95,15.46,28.87 feet/s)
Electromotor model		Y2-280M-4
Electromotor output		90 kw(122HP)
Electromotor rotation rate		1480 r/min
Diesel engine model		Cummins 6BTA5.9-C180

Diesel engine output	132 kw(180HP)
Diesel engine rotation rate	1900 r/min
Dimensions	With electromotor 3905×1692×2603 mm (153.7×66.6×102.5 inch)
	With diesel engine 4105×1892×2803 mm (161.6×74.5×110.4 inch)
Weight	8200 kg(18080 lb)