

HXY-8B CORE DRILLING RIG



I. Brief Introduction

The type of HXY-8B 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-8B is a rotary drilling machine. 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-8B could be used as a rotary drilling machine. They are the priority selection equipments and suitable for medium and deep depth hole drilling at present in China.

II. Specifications of HXY-8B

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| Drilling Depth | 1000 m—3200 m(3280—10496 feet) |
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| Rotate speed (rpm) | Clockwise rotation rates | 79,136,121,363,220,379,589,1011 |
| | Anti-clockwise rotation rates | 51,142 |
| Turn table speed (rpm) | Clockwise rotation rates | 27,46,72,124,75,130,202,347 |
| | Anti-clockwise rotation rates | 17,48 |
| Diameter of drilling rod | | Φ50,Φ60,Φ71,Φ89,Φ114 mm (Φ1.97,Φ2.36,Φ2.80,Φ3.50,Φ4.49 inch) |
| Spindle stroke | | 800 mm(31.5 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) |
| Turn table Aperture | | Φ395 mm (Φ15.55 inch) |
| Electromotor model | | Y2-280M-4 |
| Electromotor output | | 90 kw(122HP) |
| Electromotor Rotation rate | | 1480 r/min |
| Diesel Engine model | | Cummins 6BTA5.9-C180 |

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| Diesel Engine output | 132kw(180HP) |
| Diesel Engine rotation rate | 1900 r/min |
| Dimensions | With electromotor 4413×1692×2653 mm (173.7×66.6×104.5 inch) |
| | With diesel engine 4413×1892×2803mm (173.7×74.5×110.4 inch) |
| Weight | 10100 kg(22270 lb) |