

HYDCO Engineering Technical Data

HYDCO 700H Diamond Drill Rig

- **KEY ELEMENTS...**
- 2 Speed Hollow Spindle Drill Head
- Drill Head travel of 7 meters
- Drill 1200 meters NQ
- 700 meters HQ
- Mast Length 10.3meters
- Heavy Duty 2 meter mast dump
- Engine-Cummins Diesel QSB 6.7 Ltr
- FMC John Bean LO9-18HD-BCD





Hydco Engineering Pvt. Ltd.

The Hydco drilling rig platforms have evolved over 20 years of rugged field evaluation in Australia. Our NEW HYDCO 700H Diamond Coring Drill Rig is the culmination of this experience, utilising tried and proven components from world recognised manufacturers. Offering Pull Back of 14,400KG (Variable) with a 2 Speed Hollow Spindle Drill Head plus a Drill Head travel of 7 meters the HYDCO 700H can comfortably Drill 1200 meters NQ and 700 meters HQ. With safety a priority on all drilling sites; as a standard feature the HYDCO 700H provides Guarding to the table with rotation shutoff as well as Guarding to all rotating items.

The Hydco 700H Diamond Coring Drill has been designed to with stand the harsh environments where exploration drilling takes place. Key components and consumables incorporated in the Drill are readily available in Australia and world wide. You will find more details on our website regarding the robust new HYDCO 700H.

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Manufactured in INDIA by:-

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The HYDCO 700H is a purpose built machine designed specifically for the riggers of Diamond Drilling application. The 700H has a 7 metre deck and is available in both truck and track mounts with a number of engines available to meet customer requirements.

Base:	Fully welded structure – channel & RHS Four levelling jacks								
Mast:	Square Hollow Section Mast Mast Length 10.3 metres Drill Head travel 7.5 metres Hydraulic Head Slide 16mm non rotating wire ropes with Hydraulic tensioning Hydco Hydraulic drill rod Footclamps								
Feed:	Variable feed & pressure control Pull Back 14,400KG (Variable) Pull Down 9,200KG (Variable)								
Dump Mast:	Heavy Duty 2 metre mast dump UHMWPE Slides								
Drive Head:	2 Speed Hollow Spindle Drill head (Floating Spindle option available) Variable Speed Piston Motor Pressure Lubricated - (Gears Hardened & Ground) Speed and torque variable <table> <tr> <td>High</td><td>Low</td></tr> <tr> <td>1020 RPM - 980nm</td><td>170 RPM – 5880nm</td></tr> <tr> <td>1250 RPM - 800nm</td><td>208 RPM – 4780nm</td></tr> <tr> <td>1500 RPM - 650nm</td><td>250 RPM – 3900nm</td></tr> </table>	High	Low	1020 RPM - 980nm	170 RPM – 5880nm	1250 RPM - 800nm	208 RPM – 4780nm	1500 RPM - 650nm	250 RPM – 3900nm
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Main Winch:	Capacity - 10,000 kg single line pull 16mm non-rotating (35 X 7 Construction) Winch limiter & speed limiter Wire rope overrun cut out Planetary reduction gearbox, fail safe brake, complete with over centre valve								
Wireline winch:	Capacity - 6mm non-rotating (18 X 7 Construction) 1400 meters Radial Piston Motor Planetary reduction gearbox complete with over centre valve								
Pumps	1 x Main pump Sauer Danfoss 147cc Pressure compensated load sensing 2 x Auxiliary pumps GPM High Pressure Gear Pumps								
Valves	AMCA - APV22 Proportional load sensing valve Bucher Auxillary valves Operating Pressures 240 Bar (3,500 PSI)								
Hydraulic Tank	400Ltr capacity								



HYDCO 700H Drill Rig

Filtration	Full flow filtration Stauff pressure filtration Arlon return line filtration All circuits 10 micron absolute
Oil Cooler	Hydraulic fan driven cooler
Control System	All rig functions & Gauges including water flow and pressures All engine controls - Shut down in panel 1 Emergency Stop (3 in total on rig)
Engine	Cummins Diesel QSB 6.7 Ltr Custom Pack 203 HP at 2,200 RPM 270 HP at 2,300 RPM
Water Pump	FMC John Bean L09-18HD-BCD Variable speed: Maximum 250lts/min @ 70 bar
Other Standard features	Guarding to table with rotation shutoff Guarding to all rotating items Two Pack paint system to Rig Rig safety rails including toe kicks Enclosed pulleys Drillers operating platform Rig Lighting Fold down ladder to deck

These specifications are based on theoretical engineering calculations. Actual capacity will depend on specific drilling conditions and materials. Exploration Drill Rigs Pty. Ltd. reserves the right to change or make modification to designs and specifications without prior notice or obligation.



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