

HYDCO International

Technical Data

# Hydco 1200H Diamond / RC Drill Rig

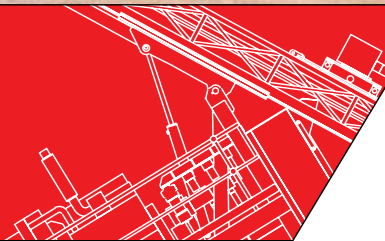
## KEY ELEMENTS

- Fully welded mast and deck
- Truck (8 x 4 or 8 x 8) and Track mounted
- Customisation Available
- 1200 meter "H" depth capacity
- Mast - 9 meter rod pull - 2.5 mt dump
- 2 speed multi purpose head
- Cummins Diesel QSC 8.3 ltr
- Kawasaki and Danfoss pumps and valves
- Water Pump - FMC John Bean





## Hydco International Sales Company Pte Ltd



The Hydco drilling rig platforms have evolved over 20 years of rugged field evaluation in Australia.

Our HYDCO 1200H is the culmination of this infield experience, utilising tried and proven components from world recognised manufacturers. This design experience enables our rigs to withstand the harsh environments where exploration drilling takes place. Key components used have international warranties and the components and consumables are readily available in Australia and worldwide.

The HYDCO 1200H is a higher-capacity drill rig with a 10.3 meter mast structure, which delivers a 9 meter rod pull, while also providing more internal room for make and break options now available from Hydco International.

This "Make & Break" unit, allows RC drill rod joints to be both mechanically tightened and un-tightened without any physical contact from the drill operators, eliminating one of drillings highest safety risk activities.

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## Hydco 1200H Diamond / RC Drill Rig

## 1. Drilling Capacity Coring – Wireline

The technical data supplied for drilling depths, has been based on drilling data obtained from the operations of similar drilling rigs manufactured and designed by HYDCO Pty Ltd. The actual drilling depths reached will be dependent upon a number of factors including the rock type, drilling techniques, tools and overall conditions.

Drill Rod/Core Barrel	Rod Size (mm)	Core Size (mm)	Hole Depth (meters)
B	55.6	36.5	2400 +
N	69.9	47.6	1800 +
H	88.9	63.5	1200 +

## 2. Dimensions

Base	7.4 meter fully welded structure – Channel & RHS Four levelling jacks
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## 3. Drill Mast and Feed

Mast	Fully welded lattice frame with cross bracing Mast Length 10.3 meters (plus winches) Drill Head travel 7.5 meters Hydraulic head slide 22mm non rotating wire ropes with Hydraulic tensioning Hydco hydraulic drill rod clamp
Feed	Variable feed pressure control Pull Back 21,500 kg (Variable) Pull Down 12,500 kg (Variable)
Dump Mast	Heavy Duty 2 meter mast dump UHMWPE Slides

## 4. Drill Head

Drill Head	2 Speed Hollow Floating Spindle Drillhead Variable speed Hydraulic Piston Motor Pressure Lubricated – (Gears Hardened & Ground) Speed and torque @100% efficiency 110 to 1500 RPM 830 nm 165 to 1000 RPM 1246 nm 110 to 250 RPM 4,980 nm 165 to 160 RPM 7,470 nm
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## 5. Winches

Main Winch	Capacity – 17,600 kg single line pull Speed 35 - 90 meters per minute 20 mm non-rotating (35 x 7 Construction) Variable Speed Hydraulic motors – Wire rope overrun cutout Planetary reduction gearbox, Fail safe brake complete with over centre valve
Wire-line Winch	Capacity – 6 mm non-rotating (18 x 7 Construction) 2100 meters Wire Rope level winder Planetary reduction gearbox, Fail safe brake complete with over centre valve



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## 6. Hydraulics System

Pumps	1 x Main Pump Kawasaki K3VL200 Pressure compensated load sensing 2 x Auxiliary pumps Sauer Danfoss Sunstrand Series 45 – 75 cc + 60cc Pressure compensated load sensing
Valves	AMCA Main Directional Valve 2 x Danfoss PVG 32/8 Auxiliary valves Proportional load sensing valves Operating Pressures 240 Bar (3,500 PSI )
Hydraulic Tank	600 ltr capacity
Filtration	Stauff pressure filtration Arlon magnetic core return line filters All circuits 10 micron absolute
Oil Cooler	Hydraulic fan driven cooler

## 7. Control Panel

Control System	All rig functions & Gauges including water flow & pressures All engine controls – Shut down in panel 1 Emergency Stop (3 in total on rig) Hydraulic pivoting control panel
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## 8. Standard Features

Engine	Cummins Diesel QSC 8.3 Custom Pack (305 HP @ 2,100 RPM)
Water Pump	FMC John Bean L09-18HD-BCD Variable speed: Maximum 250 lts/min @ 70 bar
Other Features	Guarding to table with rotation shut off Guarding to all rotating items Rig safety rails including toe kicks Enclosed pulleys Drillers operating platform Fold down ladder to deck Rig lighting
Paint	Two pack paint system

## 9. Options

Options	Fire Suppression system Hydraulic lighting pack Hydraulic generator set Multi-purpose (RC) drill fit out	Mast Ladder Offsiders work platform Jib / Rod winch Rod loader and Rod spinner
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These technical specifications are based on theoretical engineering calculations. Actual capacity will depend on specific drilling conditions and materials. Hydco International Pte Ltd reserves the right to change or make modification to designs and specifications without prior notice or obligation.

