

- KEY ELEMENTS...
- 2 Speed Floating Hollow Spindle Drill Head
- Engine-Cummins Diesel QSB 6.7 Ltr
- FMC John Bean L09-18HD-BCD
- Drill Head travel of 3 meters
- Mast Length 9.5 meters
- 1.5 meter mast dump
- 900 meters H



The **XDR 650** is the latest addition to our exploration drill range. Responding to requests for a compact yet powerful diamond coring drill, **XDR** have produced the **XDR 650**. This compact drill packs neatly into a 20ft shipping container, but when unfolded, becomes a 12 ton pullback top head drive powerhouse capable of drilling 1000N meter holes with ease. This power is matched up to sufficient winching capabilities that outperforms many larger drills in the market.

Rotation is through our **XDR** two speed floating spindle rotation head with both variable speed and torque, while the hydraulic head slide makes running casing easy and efficient. The **XDR 650** also incorporates full size tapered foot clamps and can comfortably handle N, H, P, rod sizes. With 3.5 meters of head travel and 9.5 meters of winch travel, the **XDR 650** has the characteristic of a full size drill in a compact easily transportable package.

XDR 650 Diamond Drill Rig

The **XDR 650** is a crawler mounted, purpose built diamond drill rig designed specifically for difficult terrain where access by truck mounted rigs is not possible. The drill is normally sold in conjunction with a crawler mounted support vehicle. The hole depths in the table below are based on 90% of hydraulic efficiency.

| Drill Rod/Core Barrel | Rod Size (mm) | Core Size (mm) | Hole Depth (metres) |
|-------------------------|--|----------------|---------------------|
| B | OD 55.6 ID 46.1 | 36.4 | 1770 + |
| N | OD 69.9 ID 60.3 | 47.6 | 1400 + |
| H | OD 88.9 ID 77.8 | 63.5 | 930 + |
| Base: | Fully welded structure - channel & RHS with four levelling jacks | | |
| Mast: | Square Hollow Section Mast / Mast Length 9.5 metres Drill Head travel 3.6 metres with Hydraulic head slide Drill Head travel 3.6 metres XDR Hydraulic operated Foot Clamps | | |
| Feed Variable: | Variable feed pressure control / Pull Back 12,000 kg (Variable) Pull Down 4,500 kg (Variable) | | |
| Dump Mast: | 1.5 metre mast dump/UHMWPE Slides | | |
| Drill Head: | 2 Speed Floating Hollow Spindle Drill head Variable Speed Piston Motor Pressure Lubricated - (Gears Hardened & Ground) Speed and torque variable High Low 1020 RPM - 980 Nm 170 RPM - 5880 Nm 1250 RPM - 800 Nm 208 RPM - 4780 Nm 1500 RPM - 650 Nm 250 RPM - 3900 Nm | | |
| Main Winch: | Main Winch Capacity - 10,000 kg single line pull / Winch limiter / Wire rope overrun cut out / Planetary reduction gearbox, fail safe brake, complete with over centre valve | | |
| Wireline winch: | Capacity - 8mm non-rotating (18 X 7 Construction) 1400 metres Radial Piston Motor / Planetary reduction gearbox complete with over centre valve | | |
| Pumps | 1 x Main pump Kawasaki 140cc Pressure compensated load sensing 2 x Auxiliary Kawasaki pumps GPM High Pressure Gear Pump | | |
| Valves | AMCA-APV22 Proportional load sensing valve Sauer Danfoss Auxillary valves / Op Press 240 Bar (3,500 PSI) | | |
| Hydraulic Tank | 600Ltr capacity | | |
| Filtration | Full flow filtration / Arlon return line filtration All circuits 10 micron absolute | | |
| Oil Cooler | Combi Cooler with Engine | | |
| Control System | Rig functions & Gauges include water flow and pressures All engine controls - Shut down in panel / 1 Emergency Stop in panel (3 in total on rig) | | |
| Engine | Cummins Diesel QSB 6.7 Ltr Custom Pack 250 HP at 2,200 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 / Enclosed pulleys / Drillers operating platform / Rig Lighting | | |

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

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