



Exploration Drill Rigs Pty Ltd Technical Data

XDR 800 Multi Purpose Drill Rig

KEY ELEMENTS

- 2 Speed Floating Hollow Spindle Drill Head
- Drill Head travel of 7 meters
- 1000 meters H
- Mast Length 10.3 meters
- Heavy Duty 2 meter mast dump
- PLC controlled Winch Limiting device
- Back-Reaming function
- Engine-Cummins Diesel QSB 6.7 Ltr
- FMC John Bean L09-18HD-BCD





Exploration Drill Rigs Pty Ltd

Exploration Drill Rigs (XDR) drill rig platforms have evolved over 20 years of rugged field testing and evaluation in the Australian outback. The new XDR 800 Multi-Purpose drill rig is a culmination of this experience, utilising tried and proven components from world recognised manufacturers to deliver yet another hard working drill to complement the XDR range.

Offering 14,400KG of pullback (variable) with XDR's new splined floating spindle rotation head, this drill is very capable of undertaking 1000 meter H or 1600 meter N core hole programs which will meet the majority of mining company drilling programs. A digital on-board PLC monitors key drilling functions such as rotation speed, water pump flow, while also managing core functions' such as main winch limiter to prevent winch overwind. All XDR drills incorporate a high level of safety devices including rotation guarding to the table. This guarding also incorporates a rotation speed limiter when the safety cage is opened, only allowing partial rotation for drill rods to be made up or broken. Many other safety features are built into the drill including, power isolation, multiple emergency stops and hydraulic safety valving on key elements to assist in providing a safe working environment for our customers.

Key consumables and components incorporated in the 800 are readily available in Australia and world markets while stocks of proprietary items are always held at our 2 factories.

AUSTRALIAN AGENTS

Exploration Drill Rigs Pty Ltd

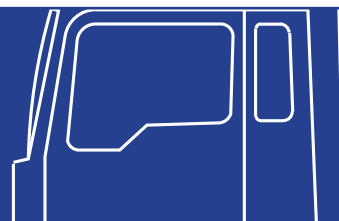
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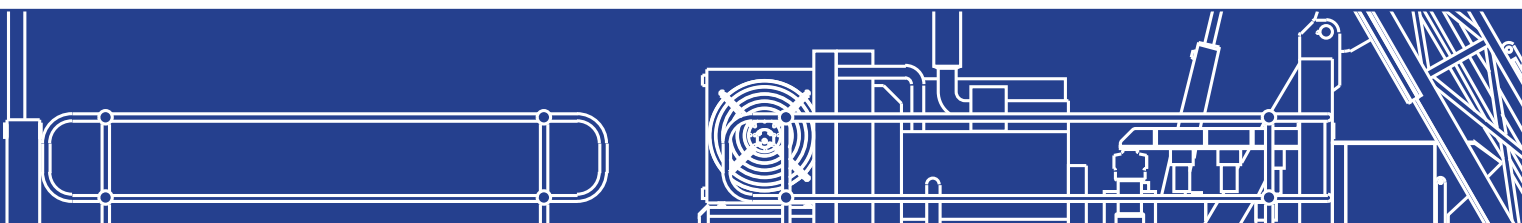
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The XDR 800 is built and designed specifically for the rigours of Diamond Drilling, but can have the option of a Rod Loader and Bins installed allowing it to undertake Hammer Drilling operations. The 800 has a 7 metre deck and is available in both truck and track mounts. 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	2060
N	OD 69.9 ID 60.3	47.6	1630
H	OD 88.9 ID 77.8	63.5	1080
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 Hydraulic operated Tapered Foot Clamps		
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 Floating Hollow Spindle Drill head Variable Speed Piston Motor Pressure Lubricated - (Gears Hardened & Ground) Speed and torque variable High 165 to 1000 RPM -1246Nm Low 170 to 250 RPM - 4980Nm		
Main Winch:	PLC; digital display shows exact position of the pulling plug, with auto stop, eliminating risk of pulling drill rods or casing into the 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 - 8mm non-rotating (18 X 7 Construction) 1400 meters 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 Operating Pressures 240 Bar (3,500 PSI)		
Hydraulic Tank	600Ltr capacity		



XDR 800 Drill Rig

Filtration	Full flow filtration Pressure filtration Return line filtration All circuits 10 micron absolute
Oil Cooler	Hydac fan driven cooler, (combi cooler with Engine)
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 250 HP at 2,100 RPM
Back Reaming	The Back-Reaming function allows recovery of bogged drill string by back reaming up through the collapsed section of the drill hole
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 2 Stage main winch stop Rotation Speed Display Water Flow display

These specifications are based on theoretical engineering calculations. Actual capacity will depend on specific drilling conditions and materials. Drill Rigs International reserves the right

