



HELI-PORTABLE • AIR HAMMER • GEOTECHNICAL

THREE LOADS • 961, 502, 550 KG

Wagon Drill

Flown in, set up on a hillside, and drilling 15 metre holes with the driller standing upright.



Wagon drill

961 kg



75 m hydraulic reel

502 kg



Hydraulic power pack

550 kg

15 m

HOLE DEPTH AT 90 MM

1,825 kg

PULL BACK, VARIABLE

961 kg

HEAVIEST SINGLE LIFT

40 hp

YANMAR DIESEL

THE RIG

Designed for the rigours of *being flown in.*

The XDR WD is an air hammer drill built to withstand the harshest environments where drilling takes place — and built, first of all, to be **heli-portable**. It breaks into three loads, the heaviest 961 kg. On a hillside the driller's platform adjusts so the operator stays upright regardless of the mast's position.

15 m Hole capacity at 90 mm diameter	1.7 m Drill head travel	1,000 kg Main winch, single line pull	210 bar Operating pressure — 3,000 psi
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AT A GLANCE

HELI-PORTABLE

Three separate loads — 961 kg, 502 kg and 550 kg. Weights are approximate.

DRILLING CAPACITY

15 metre holes at 90 mm diameter, air hammer.

HYDRAULICS

210 bar (3,000 psi) operating pressure, load sensing, 100 l tank.

SCOPE OF SUPPLY

Any equipment not clearly specified in this document is not included in XDR's scope of supply.

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It arrives in *three lifts*.

The whole rig — drill, reel and power pack — splits into three loads that a helicopter can place separately. Seventy-five metre hoses mean the power pack can sit wherever there is ground to land it, while the drill works the hole.



961 kg

Wagon drill

The drill itself — fully welded 700 tensile base channel, two levelling jacks, square hollow section mast, and the driller's platform.



502 kg

75 metre hydraulic reel

XDR custom power reel carrying 3 x 75 metre 5/8" hose, variable speed, on its own skid.



550 kg

Hydraulic power pack

Yanmar diesel driving the Brevini pump, with the cooler and tank, in a lifting frame.

Weights are approximate only.

Collared on a slope, *drilled level.*

The mast sets to the angle the hole needs. The driller's platform sets to the angle the driller needs. On hillside work those are rarely the same, and the platform adjusts independently so the operator is never working off-camber.



THE DRILLER AT THE CONTROLS WITH THE HOLE UNDER WAY



COLLARING – THE HAMMER WORKING THROUGH THE FRAME



FLUSHING AT THE COLLAR – HOSES RUNNING BACK TO THE POWER PACK

03 / BASE, MAST AND DRIVE HEAD

EQUIPMENT	DESCRIPTION & SPECIFICATION	NOTES
01 Base	- Fully welded 700 tensile channel - Two levelling jacks	
02 Mast	- Square hollow section mast - Mast length 2.5 m - Drill head travel 1.7 m - Rod spanner box with hydraulic break out arm	
03 Feed	- Variable speed and pressure control - Pull back 1,825 kg, variable - Pull down 2,630 kg, variable	
04 Drive head	- Hollow spindle drill head - Variable speed hydraulic piston motor - Bearings pressure lubricated — grease - Speed and torque variable, 1 to 80 rpm	
05 Driller's platform	In hillside operations the platform adjusts so the driller remains upright, whatever angle the mast is set to	NOTE The reason the rig can work the ground it is flown into



BREAK OUT, MAST RAISE, MAST DUMP, JACKS – ROTATION, WINCH AND FEED ON THE LEVERS, WITH FEED FORCE SET ON THE DIAL



MAST, FEED AND ROD SPANNER BOX WITH HYDRAULIC BREAK OUT ARM

04 / WINCH, HYDRAULICS AND POWER

EQUIPMENT	DESCRIPTION & SPECIFICATION	NOTES
06 Main winch	- Capacity 1,000 kg single line pull 10 mm non-rotating rope, 35 × 7 construction - Planetary reduction gearbox with fail-safe brake	
07 Pump and valves	1 × main pump — Brevini 30 cc - Brevini APV22 proportional load sensing valve - Bucher auxiliary valve - Operating pressure 210 bar (3,000 psi)	
08 Hydraulic tank, filtration and cooling	100 l tank capacity - Stauff return line filtration - HYDAC hydraulic fan driven cooler	
09 Engine	- Yanmar diesel 40 hp at 2,600 rpm	
10 Hose reel	- XDR custom power reel 3 × 75 metre hose, 5/8" - Variable speed	



THE 550 KG HYDRAULIC POWER PACK



THE 502 KG REEL — 3 × 75 M OF 5/8" HOSE

WHY OPERATORS SPECIFY IT

A small rig that *goes where nothing else can.*

It flies in three pieces

961 kg, 502 kg and 550 kg. Three lifts, each well inside the hook capacity of the helicopters that work exploration country.

15 metres at 90 mm

A small rig with real capacity — 15 metre holes at 90 mm, with 1,825 kg of pullback and a rod spanner box with hydraulic break out arm.

Built for the harshest ground

Fully welded 700 tensile base channel, designed for the environments where geotechnical drilling actually happens.

The driller stays upright

On a hillside the platform adjusts independently of the mast, so the operator works level no matter what angle the hole is collared at. That is the difference between a workable site and an abandoned one.

Seventy-five metres of reach

Three 75 metre hoses on the power reel let the power pack sit where it can be landed, while the drill works where the hole is.

Load sensing hydraulics

A Brevini proportional load sensing valve on a 30 cc pump — fine control from a 40 hp engine, because every kilogram flown in has to earn its place.

SUPPLIED BY

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SCOPE

Any equipment not clearly specified in this document is not included in XDR's scope of supply.

Weights are approximate only. 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 modify designs and specifications without prior notice or obligation.

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