



MINTEC 18

Mineral Exploration Drilling Rig

Designed specifically for mineral exploration, the versatile, heavy duty Mintec 18 rig is capable of wireline coring, reverse circulation (RC) and rotary air blast drilling (RAB) to great depths in remote locations.



Mintec 18 Features



Versatile, heavy duty mineral exploration rig capable of wireline coring, reverse circulation (RC) and rotary air blast drilling (RAB.)



High speed/high torque rotary head with hydraulic side shift and head tilt.



Features include mast dump for angle drilling; main winch for tool handling; wireline winch; hydraulic rod clamps and on-board coring pump.



Various mounting options including 6 x 6 truck for quick mobilisation between sites of long distance or steel tracks for when encountering rough, muddy terrain.

Mintec 18 Specification

CARRIER

Standard	Crawler mounted Heavy duty commercial 6 x 6 truck
Other Options	Skid Customer own support vehicle/structure

DECK ENGINE

Type	Caterpillar C15 570 HP diesel engine Other options available
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COMPRESSOR

Type	Doosan XHP 900 Other options available
Air Displacement	900 CFM
Discharge Pressure	24.1 bar (350psi)

MAST CAPACITY

Pullback	18000 kgf (39683 lbf)
Pulldown	14000 kgf (30865 lbf)
Hook Load (Max)	18000 kgf (39683 lbf)
Working Stroke	Main winch: 9140mm (359.8 inch) Rotary head: 7600mm (299.2 inch)
Drilling Inclination	45° to 90°

BREAKOUT SYSTEM

Type	Double breakout clamps, 60 mm – 250 mm Other options available
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ROTARY HEAD OPTION 1

Rotary head tilt and side shift	
Rotation (Max)	1250 rpm
Torque (Max)	13000 Nm

ROTARY HEAD OPTION 2

Rotary head tilt and side shift	
Rotation (Max)	1000 rpm
Torque (Max)	10660 Nm

MAIN WINCH

Single Line Pull (1st Layer)	8000 kg (17637 lb)
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Mintec 18 Specification

WIRELINE WINCH

Single Line Pull (1st Layer)	3300 kg (7275.3 lb)
Single Line Speed (1st Layer)	254 mpm (835 ft/min)
Cable Length/Drum Capacity (6mm)	1830 m (6004 ft)

CORING PUMP

Type	FMC LL1122 hydraulically driven triplex pump
Flow Rate (Max)	200 lpm (52.8 US gpm)
Discharge Pressure (Max)	68.9 bar (1000 psi)

LEVELLING JACKS

Two front and two rear levelling jacks with individual locking valves

LIGHTING AND ELECTRICAL SYSTEM

Lighting	Control console lighting Mast lighting
Electrical System	24 V

SAFETY FEATURES

3 emergency stop buttons

Hydraulic system protection via relief valves and low level oil sensor

Option: Safety gate with interlock. Automatic decrease in head speed when opened

Option: Rod handler to reduce tool handling

OPTIONAL EQUIPMENT

RC Conversion Kit	For reverse circulation drilling applications
Hydraulic Foot Clamp	With jaws to suit B up to P wireline drill rods. Breakout system is a double acting hydraulic cylinder with adjustable wrench
Other options available on request	

DRILLING DEPTHS*

4" RC (25kg/m)	576 m (1890 ft)
PWL (17.33kg/m)	831m (2726 ft)
HWL (11.6kg/m)	1241 m (4072 ft)
NWL (8kg/m)	1800 m (5906 ft)

*Figures are theoretical and are calculated at 80% of total pullback capacity of the mast