

6200



Description: The 6200 is a track mounted In-The-Hole drill designed to drill with ITH hammers powered by high air pressure. High pressures are obtained with an optional towable booster.

Performance: The 6200 can be used to drill from 3.5" (89 mm) to 8.5" (216 mm) diameter holes. Most applications allow the machine to drill to a depth greater than 330' (100m).

Optional Accra Feed and ERIS panel

The inclusion of Accra Feed on Cubex underground drills has increased overall drill performance by providing optimal pressure to the bit in all rock conditions. Lost drill string situations are reduced and overall hole integrity is improved.

All the hydraulic control functions are electric/hydraulic controlled through the CAN-BUS controller/computer and programmable modules – this provides more robust mechanical connections in the wiring harnesses.

The Cubex ERIS system is set up so that mine managers and engineers are able access the benefits of an expandable control platform. This unit has proven to be very reliable, while providing a high degree of productivity.

Main Specifications

Carrier	6200 Standard	
Top Drive	6230	
Mast	Standard Mast, Fixed Centralizer	
Positioning System	Single Slideover	
Control System	Electric/Hydraulic Controls	
Powerpack	37 kW	50 HP
Hammer Lubrication	AS-5200	
Water Injection System	27 lpm (48 bar)	7 gal/min (700 psi)
Ground Clearance	180 mm	7.1"
Tramming Length	5 009 mm	197.2"
Tramming Width	1 803 mm	71"
Tramming Height	2 510 mm	98.8"
Weight	8 165 kg	18 000 lbs
Tramming Speed, Electric <i>Horizontal Only</i>	2 kph	1.2 mph
Gradeability	35%	

Top Drive

Top Drive	6230	
Max Working Pressure	207 bar	3 000 psi
Max Torque	5 730 Nm	4 225 lb.ft.
Rotation Speed	0-80 rpm	
Patented Splined Piston Breakout System		

Standard Specifications

Carrier

Tracks - Sealed and lubricated with Caterpillar® take up system

Type	Triple Grouser, Sealed and Lubricated	
Width	305 mm	12"
Brakes	SAHR	
Ground Clearance	180 mm	7.1"
Centralized Grease Lubrication		

Mast

Mast	Standard Mast, Fixed Centralizer	
Feed Force	70 kN	15 800 lbs
Max Opening	222 mm	8.75"

Positioning System

Single Slideover	724 mm	28.5"
Feed Extension (1.8 m [6'] Rod)	1 371 mm	54"
Swing Angle	360°	
Stinger Extension		
Top	1 830 mm	6'
Bottom	610 mm	2'

Control System

Control System	Electric/Hydraulic Controls, Buggy Mounted Smooth Collaring 7.6 m (15') Cable
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Powerpack

Electric Motor	1 x 37 kW	1 x 50 HP
Pump Type	1 x 100 cc Variable Displacement Axial Piston Pump	6.1 cu.in./rec
Filtration		
Pressure	1 x 5 micron	
Return	1 x 10 micron	
Oil Tank Volume	265 L	70 US Gal
Tank Filling	Electric Fill Pump	
Oil Cooling	Shell and Tube Cooler	

Hammer Lubrication System

Grease/Oil Injection		
Metering Capacity	4 L/hr	1 US Gal/hr
Tank Size	20 L	5.3 US Gal

Water Injection System

Water Pump Type	Triplex Piston Pump	
Capacity	27 Lpm (48 bar)	7 Gal/min (700 psi)
Inlet Pressure	2 - 7 bar (drilling)	30 - 100 psi (drilling)

Electrical System

Total Input Power	37 kW
Standard Voltage	600 VAC
Frequency	60 Hz
Lights	
Working	2 x 55W HID
Driving Lights	2 x 65W
Starter	Delta-Wye
Safety Shutdowns	Low Mine Water Pressure Low Hydraulic Oil Level
Safety Feature	Tram Active Strobe

Selection of Optional Equipment

Optional Masts

Masts	Feed Force		Max Opening		Drill Pipe Lengths
	70 kN	15 800 lbs	222 mm	8.75"	
Standard Mast (Fixed or Split Centralizer)	133 kN	30 000 lbs	222 mm	8.75"	4' / 5' / 6'
Heavy Mast (Fixed or Split Centralizer)					4' / 5' / 6'

Pipe Handling Options

Pipe Arm, Single Axis	To Assist Manual Pipe Handling
Pipe Arm, Dual Axis	

Fire Suppression

Automatic	ANSUL System (6 Nozzles)
Manual	

Positioning Systems Options

Positioning System - Double Slideover <i>Parallel Coverage</i>	1 448 mm	57"
50/50 Stingers		
Top	1 219 mm	4'
Bottom	1 219 mm	4'
Increased Forward Dump	For 30° of extra dump (45° total dump)	
Slideover Fold Up		

Control System

Control System	Eris Panel - CanBus
Accra Feed	Feed and Rotation Control / Anti-Jamming
Remote Secondary Control	15m (50') Tethered, Drill Controls Only

Reverse Circulation Option

Discharge Diameter	76 mm	3"
Max ID of Centre Tube	64 mm	2.5"
6230-RC Top Drive	RC Swivel	
Hydraulic Centralizers with RC Slip Plate and Dual Torque		

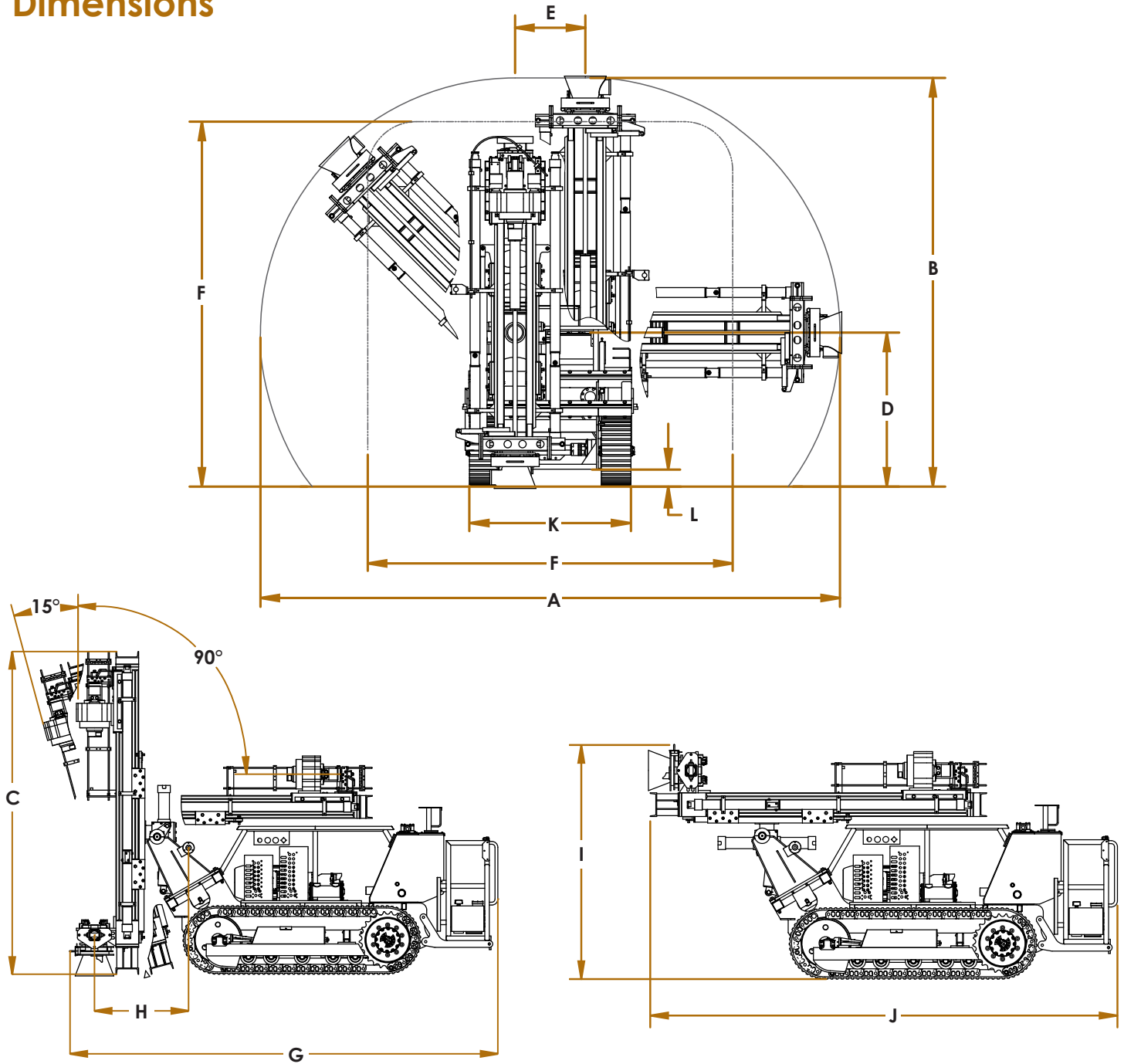
Optional Top Drive

6230-RB30R Top Drive		
Max Working	207 bar	3 000 psi
Max Torque	8 520 Nm	6 283 lb.ft.
Rotation Speed	0-50 rpm	

Additional Options

- Alignment laser
- Angle indicators
- Auto lubrication (Lincoln)
- Cable reel with automatic cable limit stop (cable and power plug not supplied)
- Deutz diesel engine (D914L4 Tier III, 20 L diesel tank)
- Ground fault monitor
- Indicator for low level hammer lubricant
- On-board pressure washer
- Petrol chain wrench
- RPM indicator for top drive
- Special Electrics 380-600 VAC 50 or 60 Hz available
- Stainless steel electrical panel
- Tools to specifications
- Wassara water hammer package

Dimensions



Dimensions		Drilling								Tramming				
Model	Units	Max Reach		Mast Height	Feed Extension	Pivot Height	Slideover	Min. Drift	Length	Laser Offset	Height	Length	Width	Clearance
		A	B	C	-	D	E	F	G	H	I	J	K	L
6200 1.8m (6') Rods	Inches	235	165.8	142	54	62.5	28.5	148	188.3	41.4	98.8	197.2	71	7.1
	mm	5 969	4 210	3 607	1 371	1 588	724	3 759	4 783	1 052	2 510	5 009	1 803	180
6200 1.5m (5') Rods	Inches	217	156.8	130	45	62.5	28.5	136	188.3	41.4	98.8	197.2	71	7.1
	mm	5 512	3 981	3 302	1 143	1 588	724	3 454	4 783	1 052	2 510	5 009	1 803	180
6200 1.2m (4') Rods	Inches	199	147.8	118	36	62.5	28.5	124	188.3	41.4	98.8	197.2	71	7.1
	mm	5 055	3 753	2 997	914	1 588	724	3 150	4 783	1 052	2 510	5 009	1 803	180

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