

STOPEMATE[™] **ROCK DRILL** Rock Drill and Blast Rig Technical Overview

A BOART LONGYEAR

STOPEMATETM

The StopeMate[™] Production Drill is unique by design and created specifically to satisfy the demands of the market for a simple and robust drilling platform that can handle most drilling requirements, especially in tight situations.

Sized to fit:

- Able to tram through a 1.27 x 1.9 m (4.17 x 6.25 ft) opening with pivoting traverse feature
- Back height drilling can be as low as 2.44 m (8 ft) based on a 1 m (3 ft) rod change
- Can fit into most cages with no disassembly



For more information on the StopeMate[™] Production Drill scan with a QR code reader on your smart phone.

PRODUCTIVITY THROUGH SAFE, RELIABLE AND TRUSTED DESIGN

POSITIONING SYSTEM

A key feature of the StopeMate is the ability to drill a complete drop raise pattern from a single position, ensuring parallel holes which is a critical consideration in longhole drilling, where straight holes mean less dilution and more productivity.

Boart Longyear is the first company to incorporate the optional Helac Positioning System into our longhole production drills. The design of this positioning system gives you both the flexibility and smooth operation to drill along a 360° radius with extreme accuracy. The traverse can also easily pivot more than 180° in a very tight space – without ever moving the carrier.

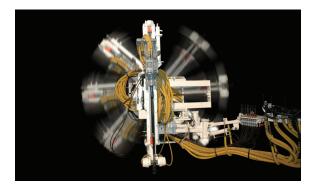
S36 IR ROCK DRILL

The driving force behind the StopeMate is the S36 Independent Rotation Pneumatic Rock Drill, a powerful 114 mm (4.49 in) diameter bore drifter-type drill designed for deep hole drilling. In favourable ground conditions, the S36 IR can drill 37 m (122 ft). • Consistent, high performance drilling

With that kind of power and mobility, the StopeMate is the "go-to" rig for everything from fan drilling, pillar recovery and narrow vein parallel drilling to ring drilling, service holes, drop raises and cable bolting.



- · Fully pneumatic operation ideal for captive areas and narrow vein mining
- Modular design with efficient dismantling and reassembly - it can be transported rapidly, even into captive areas, decreasing move time and increasing productivity
- regardless of varying operator skill levels or conditions decreased maintenance costs with routine maintenance being done in the stope and increased time between scheduled preventive maintenance





Delivering high productivity drilling and low cost in a compact package.

Compact

Ideal for narrow vein applications

Mobile

• Easily hoisted through standard man way skip compartments

Simple Low maintenance cost

Versatile Fits more drilling patterns than any other platform on the market

TECHNICAL INFORMATION

IR Rock Drill Specification:			
Hydraulic Powerpack (Air Operated)	Metric	U.S.	
Radial Piston Air Motor	22 kW	30 hp	
Tandem gear pump	68 L/min	18 gpm	
Return oil filter	10 micron		
Main reservoir	98 liters	26 gallons	
Oil lubricator (rock drill) Secan F61	9 liters	2 gallon	

Minimum Requirements to Drill				
	Metric	U.S.		
Air flow @ 90 psi	16 m³/min	575 cfm		
Water Flow 38 L/min 10 gpm				
Note: Higher water flow is required on deeper, larger diameter downholes				

Carrier

4 wheel skid steer

Gradeability - 30%

4 wheel independent drive and braking (SAHR) system

Solid rubber tires on steel rims

Motion control valving for precise control, even over rough terrain

Quick disconnect brakes for easy towing

Drill Positioner					
		Metric	U.S.		
Dump -	+10° to -45° movement v pivot pins	ia hydraulic cylinder c/w lock valv	ve and mechanical expanding		
Traverse -	side to side travel	1.219 m	48 in		
	adjustable pads to compensate for wear				
movement via hydraulic motor driven feed screw					
	heavy duty rotation slew bearing driven by hydraulic cylinder for 90° traverse rotation				
Rotation -	Rotation - dual hydraulic rack and pinion rotary actuator c/w manual locking system for 360° rotation				
Optional HELAC® feed positioner for increased flexibility and accuracy					

Stabilizers			
Metric	U.S.		
0.38 m	15 in		
0.18 m	7 in		
	0.38 m		

Rock drill Feed System	
MKV series feed assembly c/w:	Steel feed with stainless steel wear guides and rotary screw drive
	Integral cushions at end of travel
	Pneumatic opposed piston type centralizer
	Manual feed crowd

Controls

Direct acting feed positioning controls

Pivoting tramming control arm

Noise Suppression

Standard Dual exhaust, muffler and exhaust on controls rerouted

Rock Drill

S36IR - see S36IR Hydraulic Rock Drill Tech Data

Options		
Traverse travel (center line to center line)	.76 m, .91 m, 1.52 m	30 in, 36 in, 60 in
Laser hole alignment system		

DIMENSIONS AND WEIGHTS

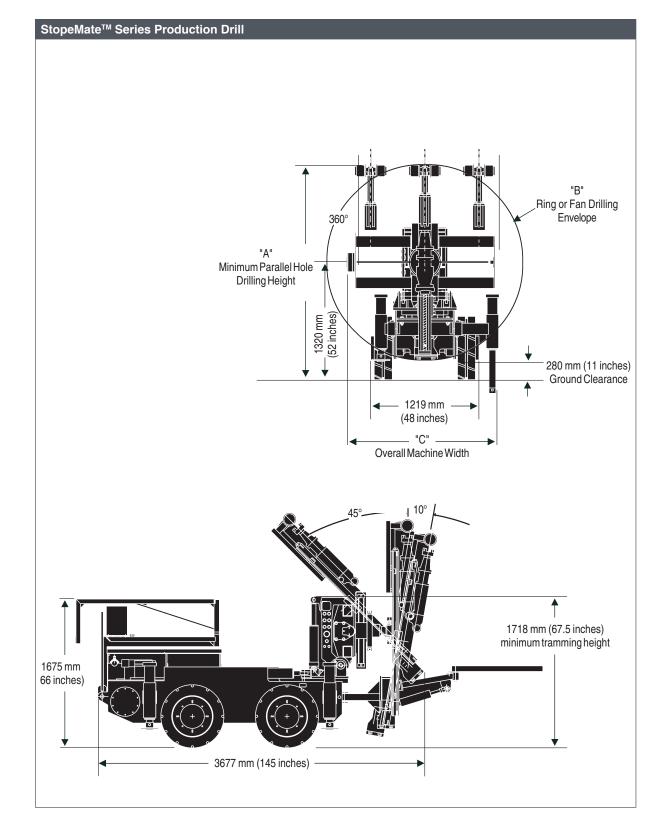
Overall Weight: 3742 kg (8250 lb)

	Metric	U.S.		
Raise Transport - Undercarriage (largest module only)				
Length	2794 mm	110 in		
Width	1220 mm	48 in		
Height	813 mm	32 in		
Weight	1795 kg	3950 lb		
Cage Transport - Traverse Rotates 90° to reduce width for cage transport				

Minimum Parallel Hole Drilling Height			
	Metric	U.S.	"A"
Drill Steel Size	1.22 m Rod Change (Standard)	4 ft	2743 mm (108 in)
Water Flow	0.91 m Rod Change	3 ft	2438 mm (96 in)
	1.52 m Rod Change	5 ft	3048 mm (109 in)

Ring or Fan Drilling Envelope				
	Metric	U.S.	"B"	
Drill Steel Size	1.22 m Rod Change (Standard)	4 ft	2463 mm (97 in)	
	0.91 m Rod Change	3 ft	2247 mm (88 in)	
	1.52 m Rod Change	5 ft	2769 mm (109 in)	

Machine Width "C"				
	Overall	Center to Center Drill Movement		
Standard Traverse	1677 mm (66 in)	1219 mm (48 in)		
Optional Traverse 1219 mm (48 in) 761 mm (30 in)				
"A", "B", "C" - see following page for drawings				



Note: Dimensions and weights may vary depending on options and should be checked before crating or lifting.

6



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ROCK DRILL AND BLAST DRILLING PRODUCTS



Percussive Bits



Percussive Rods



StopeMaster[™] Drill

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