

Rock Drill and Blast Rig Technical Overview





PRODUCTIVITY THROUGH SAFE, RELIABLE AND TRUSTED DESIGN

The StopeMaster™ Production Drill continues
Boart Longyear's drive for continuous improvement.
Along with low capital investment, the StopeMaster
delivers increased productivity and decreased
maintenance costs.

- Designed to bring maximum benefits in a compact, mobile package.
- Modular design with efficient dismantling and reassembly - it can be transported rapidly, even into captive areas, decreasing move time and increasing productivity.
- Excellent deep hole accuracy, through superior guidance of the durable feed system and Hercules centralizer.
- Consistent, high performance regardless of varying operator skill levels or conditions.
- Longer intervals between scheduled preventative maintenance servicing, proven through millions of feet of drilling experience.

Compact enough to get into the tightest drill situations:

- · Cageable flexibility
- · Level-to-level mobility
- · Stope-to-stope versatility
- · Optimum manoeuvrability
- · Proven reliability

Hercules Rod Mate[™] Centralizer

The Boart Longyear™ Hercules Centralizer has very few parts, positive centering and is low cost. the robust Hercules is less complicated, move durable and harder working.

- Cassette type centralizer for quick changes
- · Withstands torsional loading
- Withstands axial loading from percussion, feed force and total drill string weight
- Positively centers the drill output shaft during coupling and collaring functions
- Low maintenance because there are no pins or bushings (only 12 parts)

DRILLING ACCURACY

- · 4 levelling jacks for stability
- Standard Helac positioner assembly and feed stell cylinder ensure feed assembly is held firm and true

Drilling Versatility



Drop Raise



Cable Bolting



Fan Drilling



Ring Drilling





Parallel Drilling

TECHNICAL INFORMATION

Drill Specification:			
Hydraulic Powerpack	Metric	U.S.	
High efficiency electric motor	56 kW	75 hp	
Tandem piston pump (Load sensing system)			
High pressure oil filter	10 micron		
Return oil filter	25 micron		
Main reservoir	260 liters	68 gallons	
Auxiliary reservoir	75 liters	20 gallons	
Fuel Capacity	25 liters	6.5 gallons	
Electric oil transfer system (filtered)			
NEMA 4 electrical panel			
Water booster pump	3.5 kW	5 hp	
Oil Lubricator (rock drill)	5 liters	5 qts	
Thermostatically controlled oil cooler (water/oil type)	40 kW	54 hp	
Electric trailing cable	12 m	36 ft	
Filter condition indicator flags			
Fire suppression system (4 nozzle, manually operated)			

Minimum Requirements to Drill			
	Metric	U.S.	
Air flow @ 90 psi	0.15 m³/min	5 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
Engine (Tramming) Deutz TD2011L0 Diesel 73hp Tier III 55 kW

Drill Positioner			
		Metric	U.S.
Dump		Helac dump positioner	
Traverse	side to side travel (total)	1.5 m	60 in
	Adjustable pads to compensate for wear		
	Movement via dual opposed cylinders		
	Standard Helac positioner		
Rotation	Dual motor drive system c/w SAHR braking system		
	Heavy duty rotation slew bearing		
Feed Crowd	Independent	0.74 m	29 in
	Hydraulic cylinder driven		
Stabilizers			
4 hydraulic cylinders		Metric	U.S.
Stroke		0.51 m	20 in

Rock Drill Feed System			
	Metric	U.S.	
Slim feed series feed assembly c/w:	Single telescopic hydraulic feed cylinder		
	Heavy duty steel frame		
	Replaceable wear pads		
	Front and rear stell cylinder		

Controls		
Modular designed components - for ease and speed of repair		
Direct acting feed positioning controls c/w remote pendant 24 VDC		
Remote control for all drilling functions 24 VDC		
Forward and aft tramming controls		

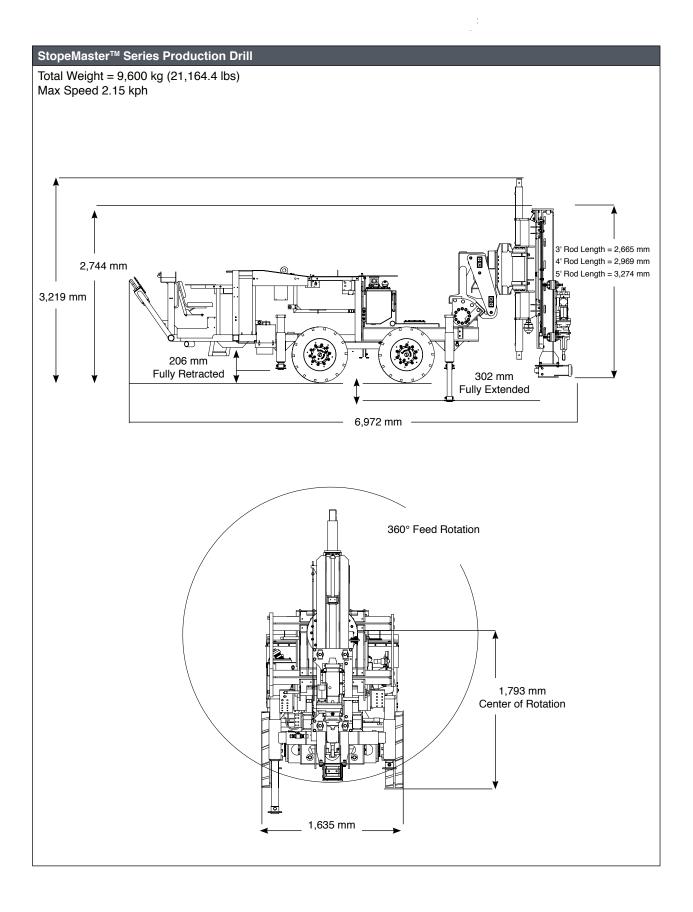
Lights	
24 VDC sealed beam tramming lights (front and rear)	
Single 500 watt drilling light	

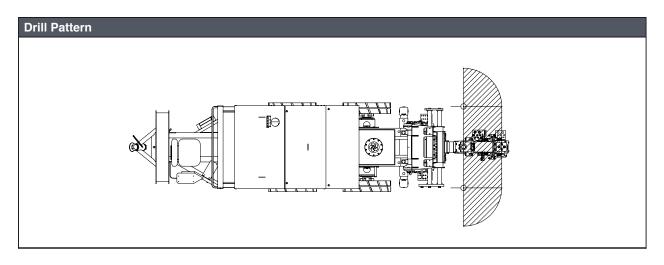
Rock Drill HD155 - See HD155 Hydraulic Rock Drill Tech Data

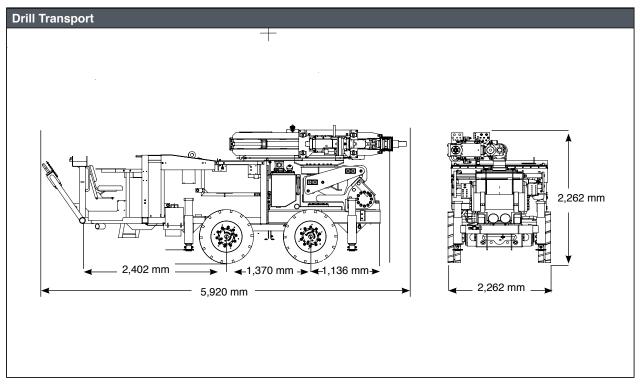
Options			
	Metric	U.S.	
Portable fire extinguisher	9 kg	22 lbs	
Ground fault monitor sub panel			
Laser hole alignment system			

DIMENSIONS AND WEIGHTS

Overall Weight: 9,600 kg (21,165 lbs)			
	Metric	U.S.	
Cage Transport (less traverse drill feed)			
Width	1,635 mm	64.5 in	
Height	1,829 mm	72 in	









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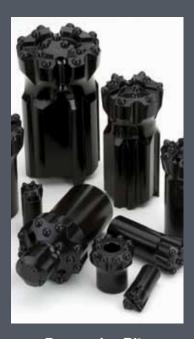
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MINING AND EXPLORATION DRILLING PRODUCTS



Percussive Bits



Percussive Rods



StopeMate[™]