







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.
- Increased availability since routine maintenance can be done at the face, by operators without specialized training.
- 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
- 230° tramming control arm movement allows operator to position drill accurately and safely
- The dual 'in-line' hydraulic feed cylinders provide a balanced thrust to the center of the drill string
- 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 sens	ing system)	·		
High pressure oil filter	8 micron			
Return oil filter	9 micron			
Main reservoir	208 liters	55 gallons		
Auxiliary reservoir	85 liters	22 gallons		
Electric oil transfer system (filtere	ed)			
NEMA 4 electrical panel				
Water booster pump	3.5 kW 5 hp			
Oil Lubricator (rock drill)	9 liters	2 gallons		
Thermostatically controlled oil cooler (water/oil type)	40 kW	54 hp		
Electric trailing cable	45 m	150 ft		
Filter condition indicator flags				
Fire suppression system (4 nozzl	e, manually operated)			

	Metric	U.S
Air flow @ 90 psi	0.15 m³/min	5 cfm
Water Flow	38 L/min	10 gpm

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 Positi	oner			
		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 telescopic cylinders			
	Standard Helac positioner			
Rotation	dual motor/planetary 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 hydrauli	c cylinders	Metric	U.S.	
Stroke		0.51 m	20 in	
Lift		0.25 m	10 in	

	Metric	U.S.
9000DA Slim feed series feed assembly c/w:	Single 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		
Umbilical remote for all drilling functions (24 VDC)		
Forward and aft tramming controls		

Lights

24vdc sealed beam tramming lights (front and rear)

Single 500 watt halogen drilling light (tripod mounted)

Rock Drill

HD155 - see HD155 Hydraulic rock Drill Tech Data

	Options			
Metric	U.S.			
0.9 m, 1.2 m, 1.83 m	36 in, 48 in, 72 in			
9 kg	22 lbs			
	0.9 m, 1.2 m, 1.83 m			

Ground fault monitor sub panel

Laser hole alignment system

Umbilical remote feed positioning system

Onboard hydraulic oil filtering system (filter loop)



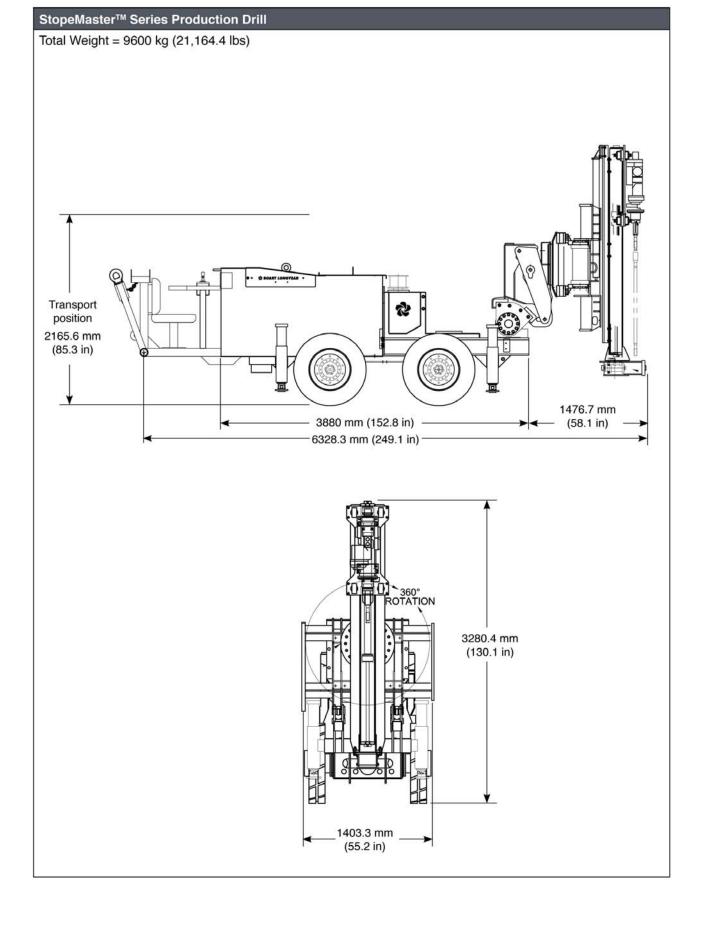
DIMENSIONS AND WEIGHTS

Overall Weight: 7258 kg (16,000 lb)			
	Metric	U.S.	
Cage Transport (less traverse drill for	eed)		
Length	4010 mm	158 in	
Width (wheels manually retracted)	1370 mm	54 in	
Height	1800 mm	70 in	
Weight	5230 kgs	11,500 lbs	

Raise Transport - Power Pack (largest module only)			
	Metric	U.S.	
Length	2570 mm	101 inches	
Width	1320 mm	52 inches	
Height	1220 mm	48 inches	
Weight	2225 kgs	4890 lbs	

Drill Steel size			
	"A"	"B"	"C"
0.91 m (3 ft) Rod Change	2971 mm (117 in)	2540 mm (100 in)	2520 mm (99.2 in)
1.22 m (4 ft) Rod Change	3048 mm (120 in)	2843 mm (112 in)	2825 mm (111.2 in)
1.52 m (5 ft) Rod Change	3353 mm (132 in)	3150 mm (124 in)	3129 mm (123.2 in)







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MINING AND EXPLORATION DRILLING PRODUCTS



Percussive Bits



Percussive Rods



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