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S250-M3 ROCK DRILL

Rock Drill & Blast Equipment and Technical Overview

S250-M3 ROCK DRILL

Boart Longyear has significantly improved the industry standard S250 by introducing advanced noise suppression. This new technology directs more energy to the face of the rock and less into the body of the driller. Independent tests showed the S250-M3 reduces noise while increasing torque and penetration rates. Driller's production rates will improve while the fatigue to their ears, hands and feet will be greatly reduced. One driller commented that it was the first time he could feel his feet and hands after a full shift using a rock drill.

The S250-M3 is offered in three primary configurations, Jackleg, Stoper, and Sinker, to provide maximum versatility.

LESS NOISE

Independent testing reported the S250-M3 produced 50% (6 dBA) less sound pressure than the leading competitor rock drills. Drillers will not only hear the difference the S250-M3 makes but will also feel it. The significant reduction in noise-related vibration causes less fatigue throughout a driller's entire body.

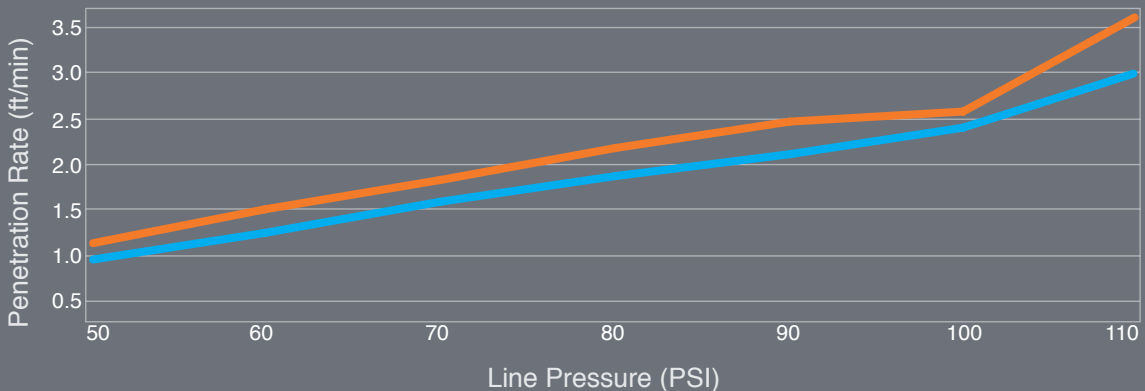
LESS COST

Due to the reduced amount of energy transferred into the components of the S250-M3, less wear is experienced. Rebuild costs are significantly reduced and the drill stays running longer.

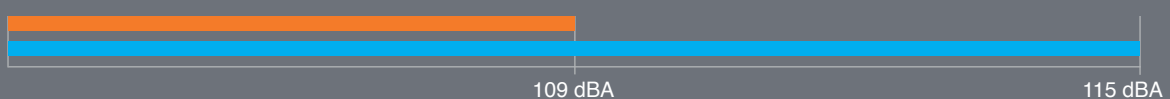
MORE TORQUE AND PENETRATION

The S250-M3 channels more energy to the face of the rock and less into the hands of the driller operating it. This efficiency improves torque by 39% and penetration by over 6 inches per minute at 110 PSI.

PENETRATION COMPARISON



NOISE PERFORMANCE - 50% LOWER



TORQUE PERFORMANCE** - 39% HIGHER



* Top five leading rock drills were independently tested and their scores averaged.

** Stall torque rating



MUFFLED DESIGN

Patented design drastically reduces operating noise, while significantly decreasing vibration. Drillers benefit from the full production of the S250 without the fatigue.

PREMIUM MATERIALS

The S250-M3 uses premium materials, machined to exacting specifications to deliver high performance and exceptional durability.

PROVEN TECHNOLOGY

Boart Longyear's S250-M3 rock drill is based on the well-established, market-leading S250 design.

UTILITY

The S250-M3 is available in three primary variations including Jackleg, Stoper and Sinker, providing maximum utility for the specific customer needs.

HEX 22 MM AND 25 MM CHUCK ENDS

Boart Longyear provides both 22 mm and 25 mm hex chuck ends to accommodate popular steel sizes.

SERVICES & TRAINING

Boart Longyear offers on-site services training and complete rebuild and overhaul service to ensure optimal drill performance and extended life.

S250-M3 TECHNICAL INFORMATION

Jackleg / Sinker Drill

Jackleg / Sinker Rock drill Specification:		
	Metric	U.S.
Bore	79.4 mm	3.126 in
Stroke	73.25 mm	2.884 in
Blows / Minute	2200 @ 6.2 bar	90 psi
Air Consumption	4.4 m ³ / min @ 6.2 bar	156 cfm @ 90 psi
Air Connection	-	1 in BSP
Water Connection	-	1/2 in BSP

Notes:

1. The figures in these tables have been calculated based on field experience, and may be reasonably expected.
2. Actual drilling capacity will depend on in-hole tools and conditions, drilling techniques and equipment used.

Supply Hose ID (required):		
	Metric	U.S.
Air	25 mm	1 in
Water	12 mm	1/2 in

Steel Size (HEX) - Chuck End:		
	Metric	U.S.
Standard	22 mm HEX x 108 mm long	7/8 in HEX x 4-1/4 in long
Optional	25 mm HEX x 108 mm long	1 in HEX x 4-1/4 in long

* Drill designed to except collared/tapered HEX steel to ISO standard 723

Standard S250-M3 Airleg (Sold Separately):		
	Metric	U.S.
Bore Diameter	68 mm	2.677 in
Stroke Length	1295 mm	51 in
Thrust	230 kg at 6.2 bar	506 lb @ 90 psi

Optional S250-M3 Airleg (Sold Separately):

	Metric	U.S.
Stroke Length	991 mm	39 in
Stroke Length	762 mm	30 in

Sound Emissions*

Noise Pressure	109 dBA
Power	123 dBA

S250-M3 DIMENSIONS AND WEIGHTS

Jackleg / Sinker Drill

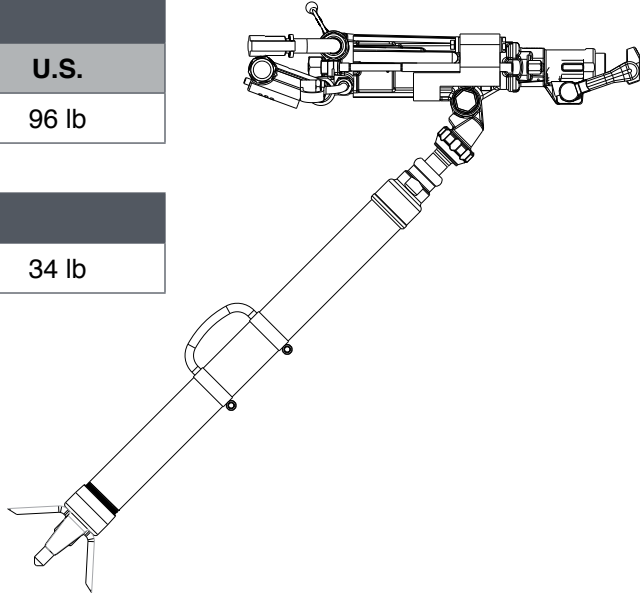
S250-M3 Jackleg Drill

Jackleg and Optional Airleg

Weight (less airleg)	Metric	U.S.
S250-M3	43.5 kg	96 lb

Standard length Airleg

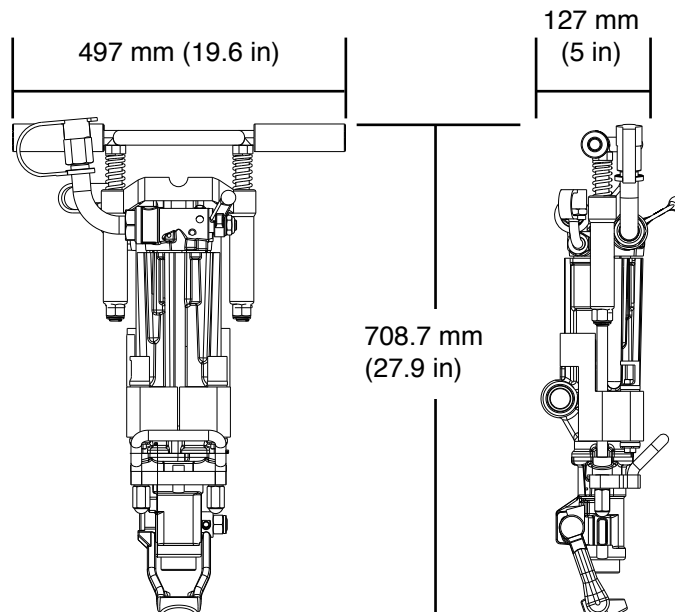
Weight	15.5 kg	34 lb
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S250-M3 Sinker Drill

Sinker

Weight	Metric	U.S.
S250-M3	38.1 kg	84 lb



S250-M3 TECHNICAL INFORMATION

Stoper Drill

Stoper Rock Drill Specification:		
	Metric	U.S.
Bore	79.4 mm	3.126 in
Stroke	73.25 mm	2.884 in
Blows / Minute	2,200 @ 6.2 bar	2,200 @ 90 psi
Air Consumption	4.4 m ³ / min @ 6.2 bar	175 cfm @ 90 psi
Air Connection	-	1 in BSP
Water Connection	-	1/2 in BSP

Supply Hose ID (required):		
	Metric	U.S.
Air	25 mm	1 in
Water	12 mm	1/2 in
Steel Size (HEX) - Chuck End		
Standard	22 mm HEX x 108 mm long	7/8 in HEX x 4-1/4 in long
Optional	25 mm HEX x 108 mm long	1 in HEX x 4-1/4 in long

* Drill designed to except collared/tapered HEX steel to ISO standard 723

Standard S250-M3 Airleg (Sold Separately)		
	Metric	U.S.
Bore Diameter	68 mm	2.677 in
Stroke Length	1,295 mm	51 in
Thrust	230 kg at 6.2 bar	506 lb @ 90 psi

Optional S250-M3 Airleg (Sold Separately)		
	Metric	U.S.
Stroke Length	991 mm	39 in
Stroke Length	762 mm	30 in

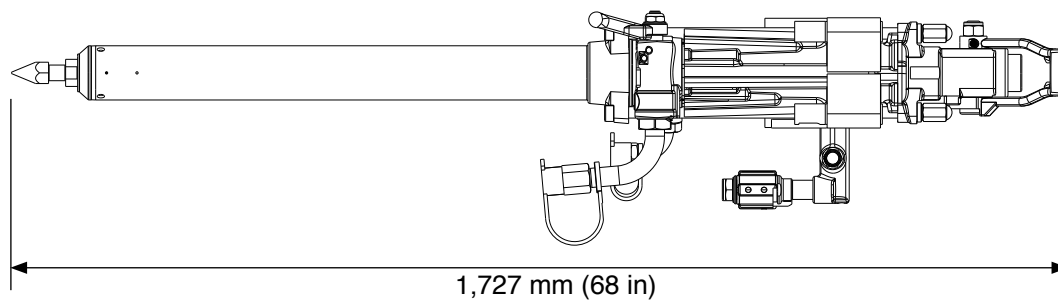
S250-M3 DIMENSIONS AND WEIGHTS

Stoper Drill

S250-M3 Stoper Drill

Stoper		
Weight	Metric	U.S.
Muffled	43.5 kg	96 lb

Standard Airleg		
Weight	Metric	U.S.
	15.5 kg	34 lb



S250-M3 TECHNICAL INFORMATION

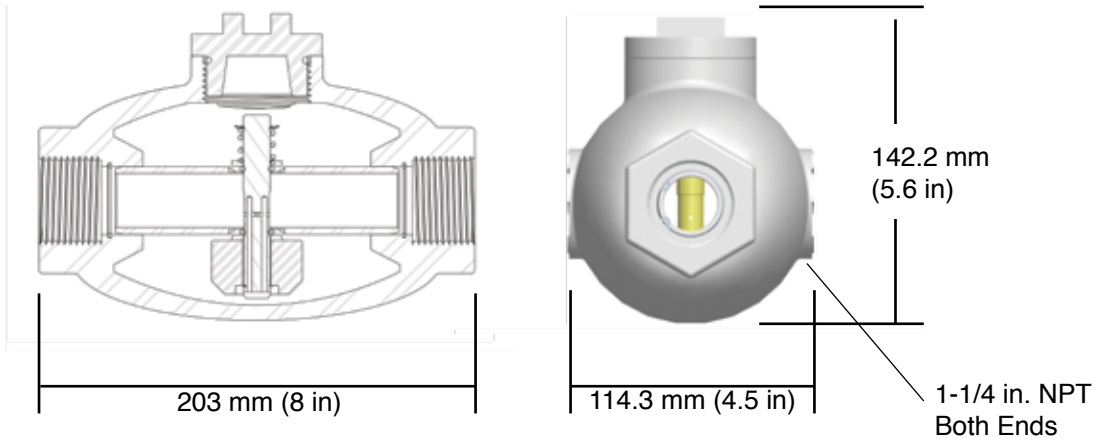
Jackleg, Stoper, Sinker Drill

S250-M3 Jackleg / Stoper / Sinker Drill

Football Style Lubricator

	Metric	U.S.
Weight	4.8 kg	10.6 lb
Capacity (rock drill oil)	600 ml	36.6 in ³
Min / Max Adjustment: 1/4 turn		
4 hours drilling capacity with S250 Rock drill		
Install in line, within 3.5 m (12 ft) of Rock drill		

* TSSA certified pressure fitting





TECHNICAL SERVICES GROUP

Your equipment investment is supported by experienced Boart Longyear teams of factory-based service technicians. In-house and field-based repair services are available as well as technical advice and support.

With fully equipped facilities and professional staff, we provide:

- OEM-trained staff and genuine parts to optimize your Boart Longyear drilling fleet
- Guaranteed component repair and overhaul
- Drill rig repair, overhaul and modification
- Direct access to OEM manufacturing support staff, technical data and engineering

TRAINING

Being able to operate, maintain and troubleshoot your own drilling equipment starts with understanding how and why all the various components work. Boart Longyear offers training programs that provide the key information needed to properly operate and perform basic repairs on S250 rock drills. This training can help minimize down-time related to equipment maintenance.





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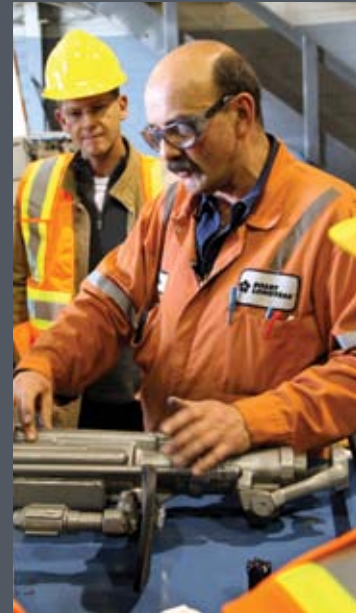
ROCK DRILL AND BLAST DRILLING PRODUCTS



Production Equipment



Rock Drill and Blast Tooling



Technical Services and Training