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RST™ SERIES RODS AND BITS

Robust Standard Thread Series Product Overview

RST™ SERIES RODS AND BITS

Strength Defined

Boart Longyear has a long history of providing premium Rock Drill and Blast Drilling products for the most demanding conditions. This tradition continues with the introduction of the Robust Standard Thread (RST™) Series percussive rods and bits with industry leading strength and penetration rates. Boart Longyear has responded to industry demands for stronger, more versatile percussive rods and bits by developing the RST Series that incorporates a larger cross-sectional transition area as well as an increased bit skirt length. This delivers improved impact efficiency for faster penetration rates, increased rod tip-off resistance, and less hole deviation.

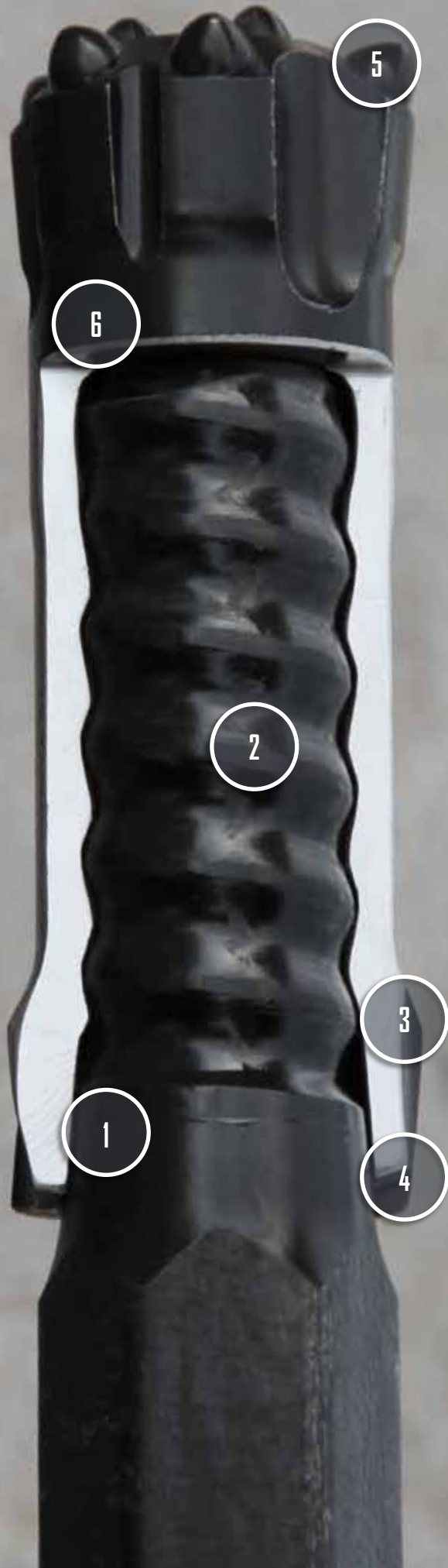
Superior Productivity and Design

The RST Series rods incorporate a larger cross-sectional transition area for a nearly 45% increase in bending strength. The bit skirt is also extended for improved interface, making rod tip-off events less likely and reducing cost and downtime. The design of the RST Series results in straighter and truer holes with penetration rate increases of up to 20% as compared to a competitive design offering.

Interchangeability

As an additional benefit, the RST Series design allows for interchangeability with standard rods and bits for improved flexibility in the field, unlike the competitive offerings which utilize unique thread designs.





1 LARGER CROSS-SECTIONAL TRANSITION AREA

Increased rod rigidity/strength when used in deviated applications such as scaling. This results in decreased rod tip-offs and increased productivity

2 UNIVERSAL THREAD

Designed to be compatible with both RST™ Series R32 and existing standard R32 products

3 EXTENDED BIT SKIRT

Provides straighter holes with reduced deviation

4 RETRACT OR STRAIGHT TRACK BIT DESIGN (OPTIONAL)

Provides a cleaner, straighter hole as well as easier bit removal in varied ground conditions

5 PREMIUM TUNGSTEN CARBIDE BUTTONS

Delivers extended drilling performance and longer durability by increasing toughness and wear-resistant properties

6 PREMIUM BODY STEEL MATERIAL

Reduces face and body wear and provides uniform wear characteristics, improved button retention and efficient energy transfer



COMPETITIVE COMPARISON

Side-by-side field testing with the competitive offering provided the following results:

RST™ Series Penetration Speed

- RST Series drill string was over 20% faster than the competing standard string

Bit Meters Drilled

- RST Series bits drilled nearly 35% more meters than the competing standard bit

Rod Meters Drilled

- RST Series rods drilled on average nearly 30% more meters than the competing standard rod

*These results were based on dual jumbo side by side comparison test. Actual results may vary depending upon rock conditions, equipment and other factors

RST™ SERIES BENEFIT COMPARISON

Feature	Benefit	RST Series	Competing Standard Product
Increased rod cross sectional area	Reduced rod 'Tip-offs' and Reduced hole deviation	✓	✓
Interchangeable with industry standard R-type thread profiles	Can be used in conjunction with standard R type thread products if/ when required	✓	No
Extended bit skirt with additional cross-sectional area	Improved alignment, reduced hole deviation and tip-off events	✓	✓
More efficient energy transfer and faster penetration rates	Increased productivity	✓	No
Increased bit and rod life	Reduced consumable costs	✓	No



ROD SIZES AVAILABLE

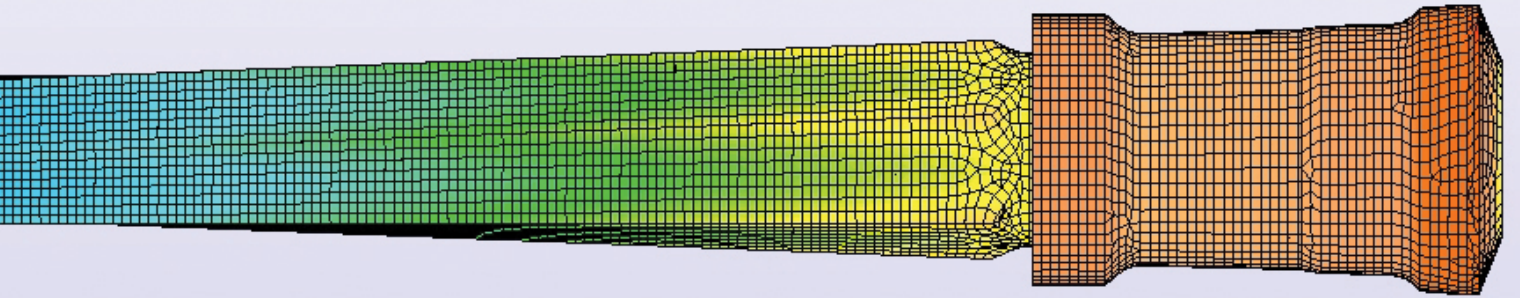
Part Number	Diameter	Bit Thread	End Thread	Length	M/M
220508	35H	R32	R38	3090 mm	M/M
220510	35H	R32	HM38	3700 mm	M/M
220503	35H	R32	R38	3700 mm	M/M
220502	35H	R32	HM38	4310 mm	M/M
220507	35H	R32	R38	4310 mm	M/M
220500	35H	R32	HM38	4915 mm	M/M
220501	35H	R32	HM38	5525 mm	M/M



BIT SIZES AVAILABLE

Part Number	Diameter	Thread	Buttons	Skirt Design
110953	43 mm	R32	BF 5/2 H	Standard
140196	45 mm	R32	BF 6/3 H	Straight Trac & Retrac
140197	45 mm	R32	BF 6/3 P	Straight Trac & Retrac
140208	45 mm	R32	BF 6/3 P	Straight Trac
110956	45 mm	R32	BF 6/3 P	Standard
110958	45 mm	R32	BF 5/2 H	Standard
110959	48 mm	R32	BF 6/3 P	Standard
110960	51 mm	R32	BF 6/2 H	Standard
110961	51 mm	R32	BF 6/3 P	Standard

FINITE ELEMENT ANALYSIS (FEA)



GLOBAL ENGINEERING

Boart Longyear's global engineering team delivers reliability, productivity and safety in a market leading percussive consumables offering.





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ROCK DRILL AND BLAST DRILLING PRODUCTS



Production Equipment



Pneumatic Rock Drills



Rock Drill and Blast Tooling