

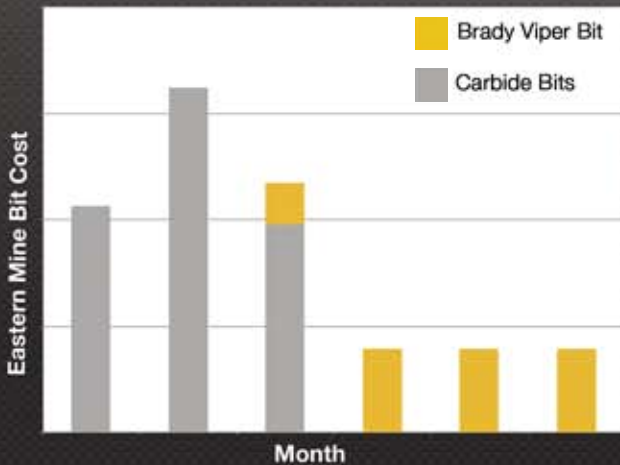
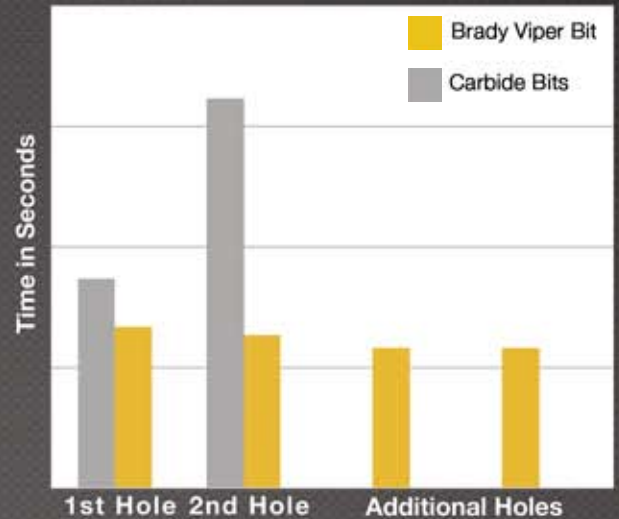


the new *Viper*

The Brady Mining Viper bit brings together the very latest in diamond drilling material and innovative new bit design to offer the longest lasting, most durable dry roof bolting bit in the world.

Features & Benefits

- Drills 50 - 200 times longer than carbide bits
- Increases tonnage and production
- Penetrates hard rock faster
- Reduces respirable dust by approximately 78%
- Significantly reduces equipment downtime by eliminating the ongoing need to change out worn/broken carbide
- Reduces thrust requirements by 50%, increasing drill steel life and eliminating extensive wear on equipment



Increased Rate of Penetration

Carbide bits wear quickly, which result in slower drilling. With carbide, drill times increase for each successive hole. The Brady Mining Viper bit stays sharp and continues to drill quickly hole after hole. This results in a time savings of as much as 60% per hole.

Reduced Bit Usage

Brady Mining Bits can reduce overall bit costs by nearly half. For example, in a US longwall mine Brady helped reduced the amount of bits used—resulting in a 40% savings in bit cost.



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Call 800-535-7419 or visit www.bradymining.com

Description

The Viper is a diamond rotary vacuum roof bit.

Applications

Formations up to 30ksi are successfully drilled with this bit; however success is not solely a function of the compressive strength of the rock formation; other factors may include particle size, shape, and abrasiveness.

The Viper performs best in medium to difficult drilling conditions.

Performance

- Bit life: The Viper can reasonably be expected to outlast a carbide bit 50-200 times in difficult conditions.
- Drill Speed (Rate of Penetration): The Viper drill speed stays constant when carbide drills start slowing due to wear. The effect of this is that the Viper can complete holes in up to 60% less time than carbide bits.
- Dust: The Viper maintains a sharp edge and efficiently cuts rock rather than grinding with a dull edge (as carbide does)—thus lowering the amount of respirable dust generated while drilling.
- Lower Thrust Settings: Because the Viper requires lower thrust settings while drilling, equipment wear and tear is reduced and operator safety is enhanced.



Recommended Settings

- Thrust: 2500 – 3500 lbs. A load cell should be used to calibrate the thrust setting. If a load cell is not available, hydraulic pressure can be set to 800-1000 psi. If premature failure occurs, set hydraulic pressure lower.
- Rotations: 400-600 RPM. Never back spin a bit when it is engaged in the rock.
- Vacuum Pressure: 15 – 21 inHg. Keep dust boxes and filters clean.

Specifications

- Hole diameter: 1", 27mm, 1-3/8"
- Bit Height: 2-1/4"
- Drill Steel Adaption: Standard 5/8" and 7/8" internal hex

Packaging

- Ships in quantities of 8-10
- Package size of 6"x3"x4"
- Approximate weight 1 lb.

