BLACK DIAMOND RAISE BORING CUTTERS



Black Diamond Drilling Raise Bore Cutters have been engineered to include new design features that extend service life and increase the penetration rate of the raise bore system.

A more efficient cutter increases productivity and enhances safety for the operator.

These 14-inch V mounted Cutters are premium cutters with excellent performance in hard rock formations.

Optimized Design

A new improved design features a revolutionary bearing technology that provides a longer cutter life. The new carbides are made from a stronger alloy which reduces wear and breakage in harder ground conditions.

Increased Productivity and Safety

A longer lasting cutter results in less equipment changes reducing downtime and increasing productivity.

Product Specifications	
Cutter Type	14-inch Sealed Bearing
Bearing Type	Mechanical Sealed Bearing
Configuration	Roller – Ball – Roller
Seal Type	Metal Face Seals
Cutting Structure	TCI – Tungsten Carbide
Gage Rows	Chisel
Inner Rows	Chisel
Gage bevel	Flat
Mounting Type	V Mount Saddles

© Black Diamond Drilling Group

Operating Parameters	Metric	Imperial
Load per Cutter	90 – 225 kN	20,000 – 50,000 lb
Maximum Load	250 kN	55,000 lb
Maximum Linear Speed	91.4m/min	300 ft/min
Weight per Cutter	130 kg	186 lb

The Black Diamond Drilling RB-CUTTER-BDV14 is purpose-built for raise boring in hard rock formations. They deliver an optimized drilling profile with 25mm insert spacing between rows, ensuring a balanced and efficient cutting structure.
Engineered for demanding conditions, these roller cutters excel in angled raises, abrasive ground, and mixed face formations. Their double gage row and double nose row configuration provide superior protection in challenging environments, while strategically placed inserts on gage bevel areas minimize erosion in highly abrasive rock.



Metal face seals, paired with a compact design, enhance both reliability and ease of maintenance. Backed by advanced engineering and stringent quality control, Black Diamond Drilling consistently delivers performance that exceeds customer expectations.

© Black Diamond Drilling Group