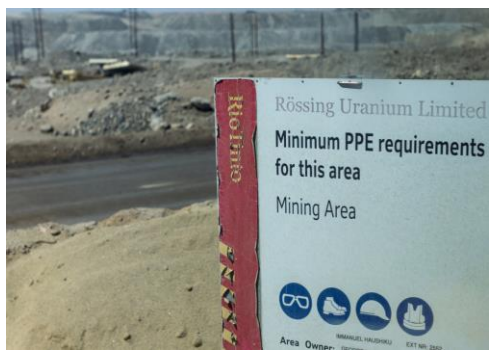


# Rotary bit – 50%+ Saving on Cost per Metre

**Uranium** is used to power commercial nuclear reactors that produce electricity and to produce isotopes used for medical, industrial, and defense purposes around the world, and becoming a central place in the **electric vehicle** future.



**Black Diamond** has been supplying and supporting the biggest Uranium mines in the world, in FY21-22, BD rotary bits achieved a life of **1675.9m averagely** in the **extremely hard and abrasive ground**, resulting in **50%+ saving on Cost per Metre**.

## Site & Drilling Information

MINE	MINERAL	DRILL RIG	BD PRODUCT	BEARING TYPE	CUTTING STRUCTURE
Rössing uranium mine	Uranium ore	MD6640/49HR	251-735 ROTARY BIT SEALED BEARING	IADC 735	

## Product Information

IADC: 735 - TCI sealed roller bearing bit with gauge protection for hard semi-abrasive and abrasive formations.

### Compressive Strength:

- 155 - 193 MPA
- 22,500 - 28,000 PSI



### Ground Description:

Hard, well-compacted rocks such as: hard silica limestones, quartzite streaks, pyrite ores, hematite ores, magnetite ores, chromium ores, phosphorite ores, and granites

Product Specification	Technical
<b>Bearing Type</b>	<b>Operating Suggestions</b>
Roller-Ball-Roller-Thrust Button/Sealed Bearing	Weight on Bit: 15750 - 39380
<b>Circulation Type</b>	Rotary Speed: 80 - 110RPM
Jet Air	Air Back Pressure: 0.2 - 0.4
<b>Cutting Structure</b>	
Inner and Nose Rows: Conical	Gage Row: Chisel
Gage Level Protection: Flat-top	Hardmetal and wear resistant carbide on shirttail lip and lug

Based on the IADC Bit Classification System located in the IADC Drilling Manual, 11th Ed. - Redesigned, 2007

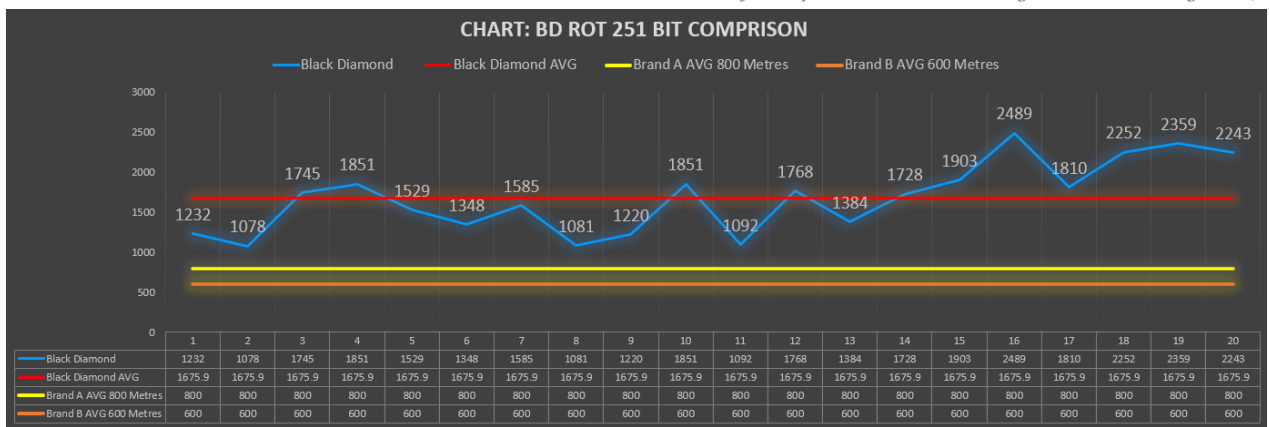


Chart: Customer verified data collected from BD rotary bits used in FY2122

Case study was draft by BD BDM Vince Starcevich.

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