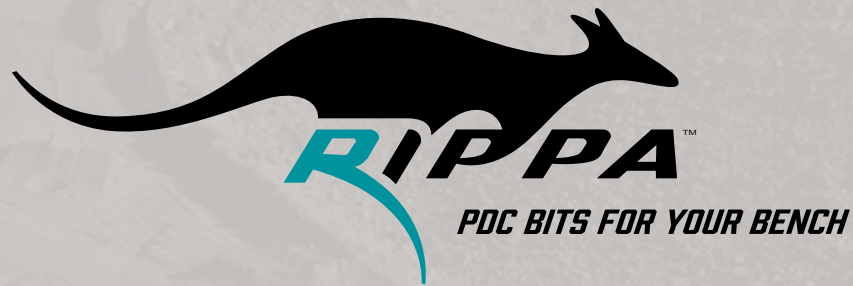




**DRILL FAST,
NO WORRIES MATE.**



ULTERRA[®]
MINING



PDC BITS BUILT FOR MINING

RIPPA™ introduces a new generation of drilling technology for the mining industry. Using PDC diamond technology, RIPPA drill bits can drill further, faster, and smoother than existing roller cone bits. Reducing maintenance costs, improving safety on the job site, and saving you time.

WHAT MAKES PDC DIFFERENT?

Polycrystalline Diamond Compact

Known as PDC, diamond cutters are more durable, sharper, make smaller cuttings, and last longer than tungsten carbide inserts.

Hard-Faced Steel Body

With no moving parts, PDC bits are more durable than other options. The hardfacing layer on the steel prevents damage and maintains drill bit integrity.

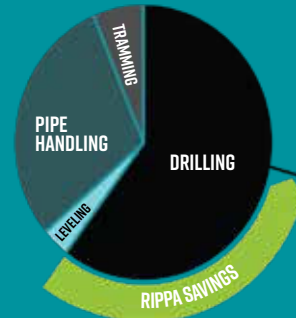
Nozzle Placement

RIPPA PDC bits have the freedom to place nozzles where they are most needed to quickly lift cuttings up and out.

PDC REVOLUTION

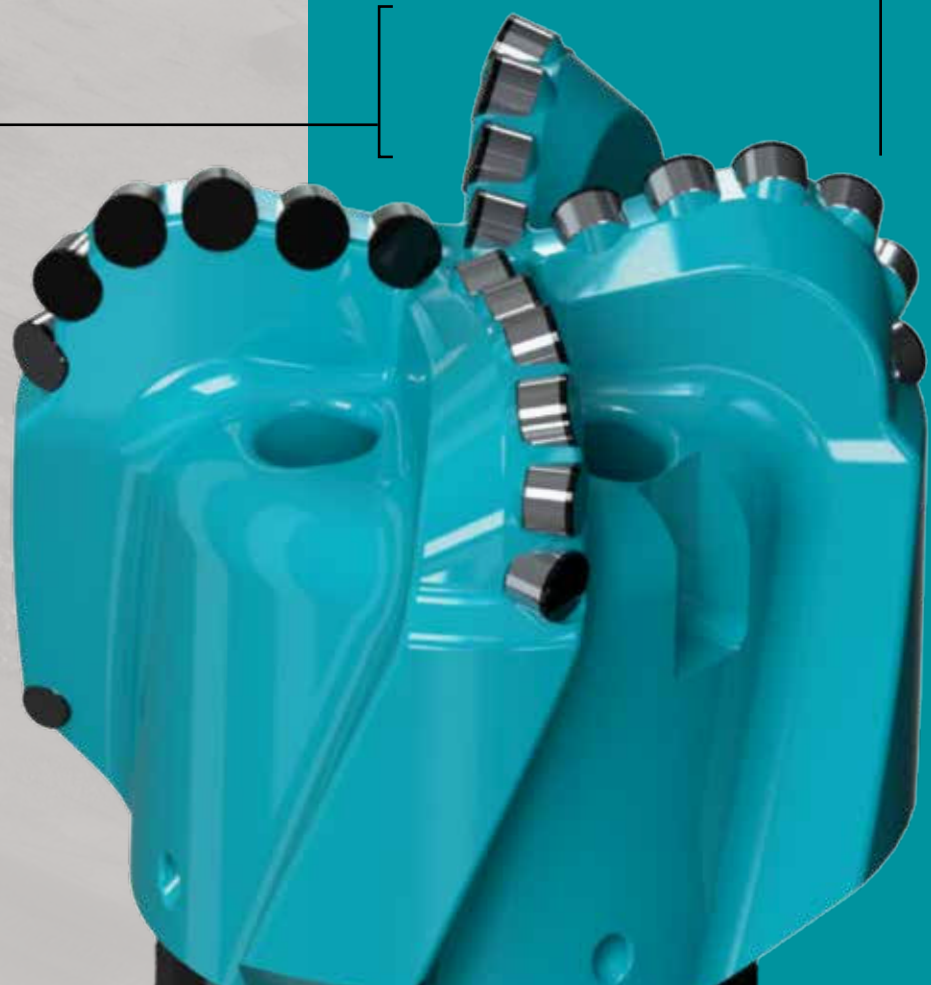
RIPPA PDC bits save you time and money. They have higher penetration rates and drill more total metres compared to roller cone bits. This

means you can drill your bench faster while saving costs.



PDC DIAMOND IS THE HARDEST MATERIAL ON EARTH.

EACH CUTTER IS PRESSED WITH 1,000,000 PSI



PDC VS. ROLLER CONE

RIPPA PDC bits use efficiency and shear to drill rock instead of crushing it. In all types of rock, this means higher drilling efficiency that traditional roller cone bits can't match. By using shear force to cut rock, you can drill twice as fast with the same amount of weight applied.

	RIPPA PDC	ROLLER CONE
HOW IT CUTS	Shear	Crush
LIFESPAN	Over 15 km	3 - 5 km
AVG. SPEED	200 m/hr	80 m/hr
LOST CONE RISK	No	Yes
VIBRATION	Low	High

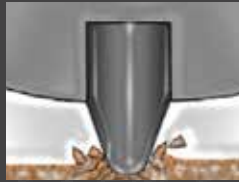
SCIENCE OF SHEAR VS. CRUSH

PDC Bits are up to twice as aggressive as traditional mining drill bits, creating more efficiency from the same rig to drill faster and smoother!

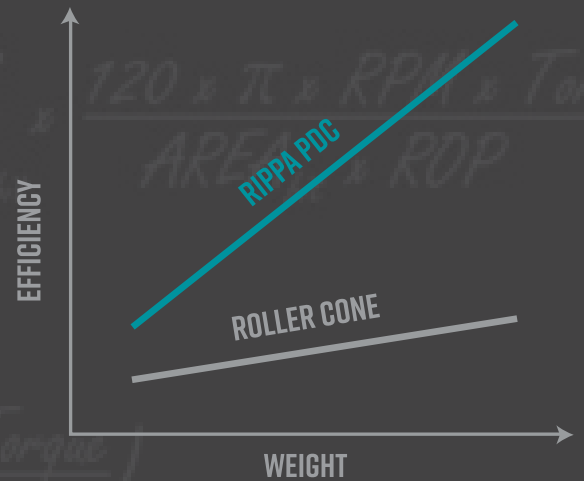
NO MOVING PARTS, FASTER PERFORMANCE



SHEAR



CRUSH



SMOOTHER FEEL, NO HASSLES, THAT'S DRILLING ON AN ULTERRA PDC BIT.

On a recent bench located in the volcanic Bowen Basin, an Ulterra RIPPA PDC bit drilled a 3-day section of bench. With only minor adjustments to feed and efficiency by the driller, the RIPPA bit eliminated any prior rod rattle and allowed the driller to operate at just 30% capacity!

By the end of the first hole, the driller registered a 200% increase in ROP in the medium and soft/medium formations vs. the roller cone option. Hole deviation checks were within tolerances. The

chip bed piles had better distribution, and visibly smaller cuttings which prevented any down hole slough back or re-drilling. This performance set the stage for a highly successful 24hr period, with record metreage for one night shift driller!

IT DRILLS LIKE A DREAM, NO CHATTER OR VIBRATION!

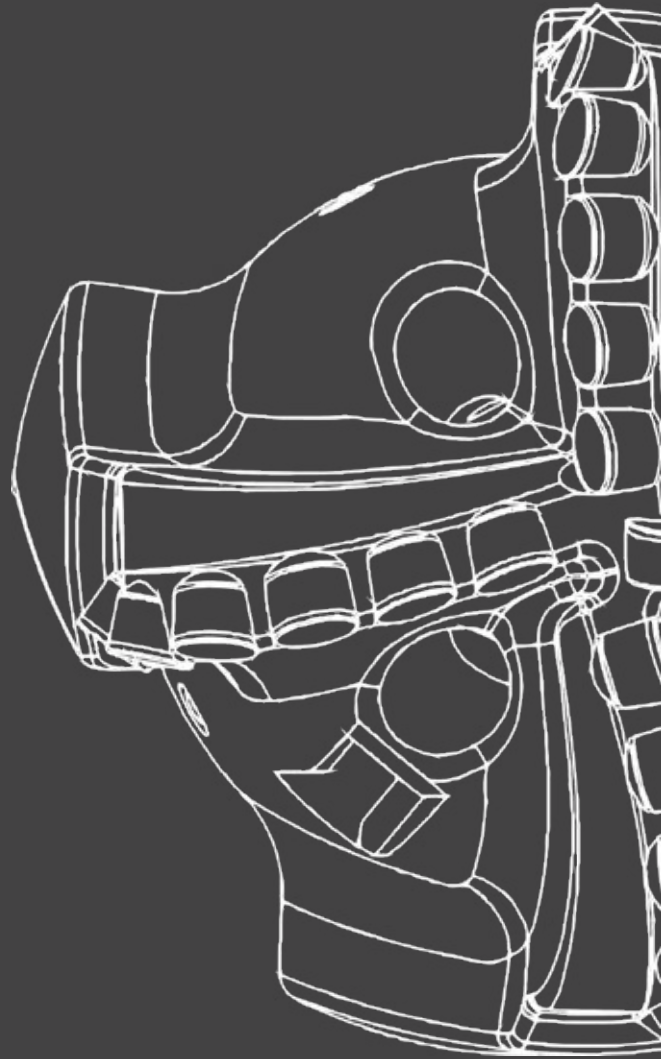
- ON-SITE DRILLER

ULTERRA AUSTRALIA

Since 2016, Ulterra Australia has been the mining branch of Ulterra Drilling Technologies in Asia Pacific Region. We design and manufacture innovative and goal driven PDC drill bits for the mining industry. Ulterra is dedicated to maximising the efficiency of drill and blast operations using groundbreaking, and application specific, drill bit technology. Throughout Australia, New Zealand, and the world, we are building our reputation on performance & trust.

Let Ulterra show you how we can improve your drilling efficiencies to save you time and lower your costs, visit Ulterra.com/Mining to learn more.

LOCATIONS



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