

FASTBACK[™]

Built for ROP



ULTERRA[®]

THINKING FORWARD. CHALLENGING LIMITS.[®]



ADVANCED COMPOSITION

Tungsten carbide, diamond, unique alloys, high tensile treated steel. PDC bits are made up of some of the most extreme materials on the planet. However, radical properties often require big trade-offs in design and manufacturing that affect performance. Ulterra decided to change the game, and set themselves the challenge of creating a PDC platform that was superior to both traditional matrix and steel bodied PDC bits. Instead of limiting PDC bits by the weakness of the materials, FastBack aligns their strengths with each part of the construction enhancing the others.

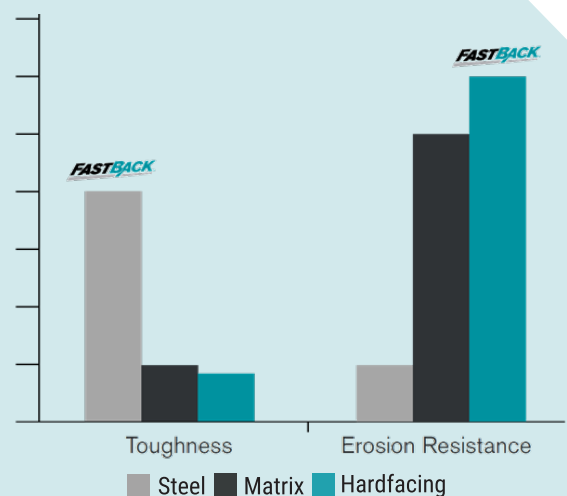
It's not just the features you can see, it's the manufacturing processes, quality standards and material properties that make a FastBack bit the best in the industry.

- Superior materials provide increased strength and toughness with erosion and abrasion resistance.
- Focuses energy in to the cutters to drill more efficiently.
- Quality focused design and process ensures industry leading reliability.
- Materials used to deliver consistent performance.

BEST OF BOTH WORLDS

FastBack combines materials to bring you the toughest and most erosion resistant bit possible.

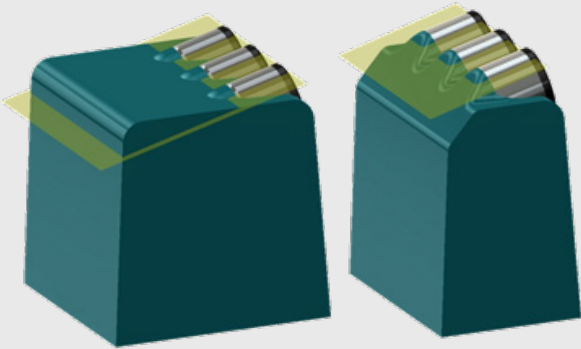
- Built in toughness – structural steel body material is up to 4x stronger than conventional blades.
- Maximum erosion resistance – super-hard surfacing materials are selectively placed to deliver better erosion resistant properties.





GETS THE BLADE OUT OF THE WAY

Because FastBack bits utilize superior materials and engineering principles, we can design the bit in a way that focuses more of the drilling energy on the PDC cutters themselves. The most obvious visual effect of this is the tall, thin, sculpted blades of a FastBack bit, a feature that is only possible through the use of the most advanced materials technology in the business. Traditional PDC blade geometry uses wide blades which engage with the formation at high ROP and high WOB, leading the ROP to founder. With FastBack we get the blade out of the way and bury the cutters deep in to the formation.



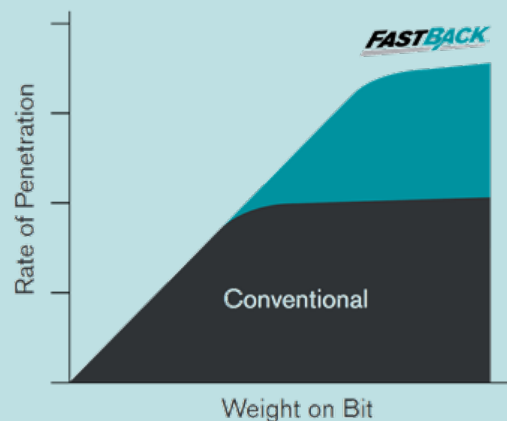
Angled Blade Geometry for Focused ROP.

Traditional PDC blade geometry uses wide blades which engage with the formation at high ROP and high WOB, leading the ROP to founder. With FastBack we get the blade out of the way and bury the cutters deep in to the formation.

- Mechanically supports the PDC cutters in a minimalist fashion.
- All energy focused on sharp, diamond-cutting surfaces.
- No energy wasted pushing flat blade surfaces in to the formation.

FOCUSED DRILLING ENERGY

Today's drilling environment is focused on higher parameters and increased efficiency by eliminating factors which get in the way of increased performance. FastBack has the ability to drill even faster in the higher WOB ranges, using world leading materials and engineering technology Ulterra has designed a drill bit that has the ability to extend the limit of performance. In addition the faster we drill, the more cuttings need to be evacuated from the bit face, if not then performance starts to founder from cuttings build up. Since FastBack technology allows thinner blades with a higher blade standoff, the open face volume of the bit is much higher allowing for greater hydraulic efficiency and better evacuation of cuttings.



ADVANCING TECHNOLOGY

Ultrerra is constantly developing innovative bit technology to better adapt to changing operating conditions and specific application requirements.

COUNTERFORCE®

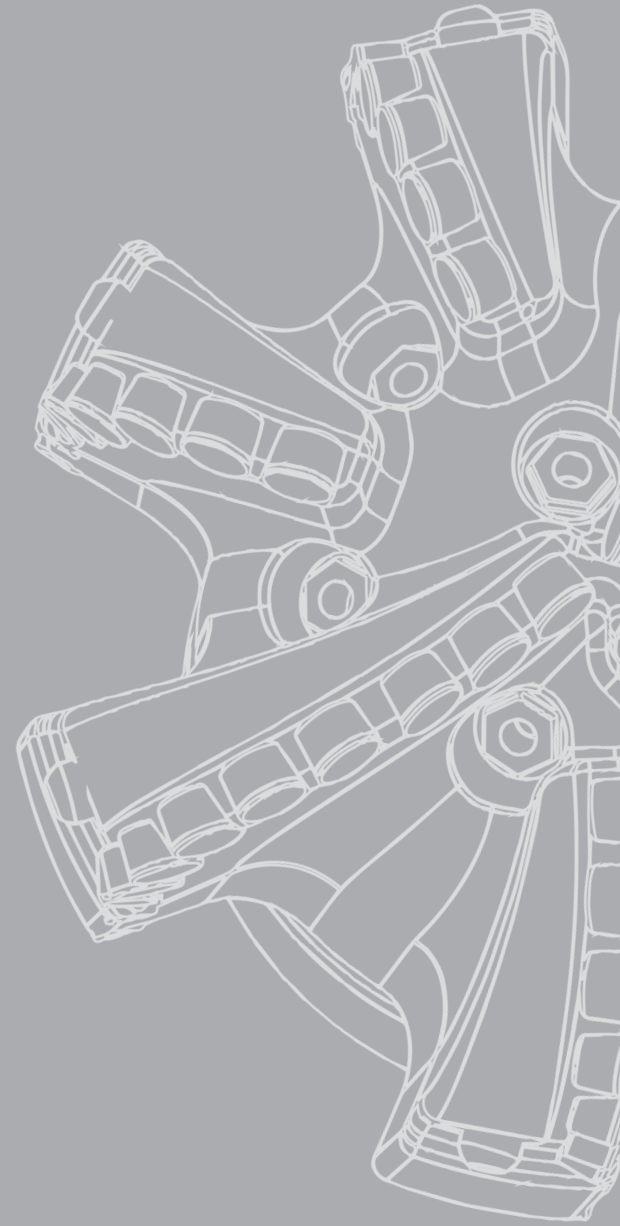
The unique cutter configuration minimizes bit-reactive torque and vibration, providing more lateral stability and improving drilling efficiency.

SPLITBLADE™

The unique blade design and superior hydraulics significantly improves cuttings evacuation and prevents recirculation for better cutter performance and ROP.

ULTERRA IS DEDICATED TO MAXIMIZING THE EFFICIENCY OF OIL AND GAS DRILLING OPERATIONS THROUGH THE USE OF GROUNDBREAKING DRILL BITS AND APPLICATION TECHNOLOGIES. THROUGHOUT THE WORLD'S DRILLING BASINS, WE ARE BUILDING OUR REPUTATION ON PERFORMANCE.

LET ULTERRA SHOW YOU HOW WE CAN IMPROVE YOUR DRILLING EFFICIENCIES AND LOWER YOUR COSTS. VISIT ULTERRA.COM/FASTBACK OR CALL 1-844-ULTERRA.



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