

EnduroBlade 360

Rolling diamond element bit

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Increases bit durability

By rotating 360 degrees, heat and wear are mitigated, markedly extending bit life



Extends bit runs

Revolutionary cutting edge rotates to stay sharper for longer



For hard and abrasive formations

Industry's only rolling element that actually cuts rock

Revolutionary rolling cutting technology extends PDC bit durability

The EnduroBlade 360 bit is the result of integrating customized bit manufacturing by Smith Bits, a Schlumberger company, and our cutting technology using the [IDEAS integrated dynamic design and analysis platform](#).

The precise positioning of these elements relative to contact with the formation, coupled with the bit's drilling force, drives efficient rotation of the Enduro 360 element.

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Enduro 360 element rotates within its pocket

7M ft

DRILLED

5,449

RUNS

27

COUNTRIES



Entire circumference of cutting edge drills the formation

The Enduro 360 elements lead Schlumberger's line of rolling cutting elements. They substantially increase bit durability by rotating 360°, dispersing heat and wear. Positioned in the highest wear areas of the bit structure, the elements use the entire circumference of the cutting edge to cut the formation. The rotating action enables the edge to stay sharper longer, extending EnduroBlade 360 bit life far beyond that of conventional PDC bits with fixed cutters.

Using insights gained from the deployment of the 13-mm and 16-mm Enduro 360 elements, a 19-mm size is now available—providing the EnduroBlade 360 bit with even more strength and durability for vertical, curve, and horizontal sections. The larger size enables more aggressive designs with reduced cutter counts and fewer blades. This is made possible by increasing the diamond density of the cutting structure using the rotating cutting edge; maintaining this sharper edge yields more footage and higher ROP. EnduroBlade 360 bits continually increase run lengths by up to 57%,

resulting in fewer bit trips and lower drilling costs.

Related Products



PowerDrive Orbit G2

Rotary steerable system

Increase abrasion resistance and deliver higher DLS for tighter curves with improved directional control.



Aegjs

Armor cladding

400% more erosion resistance and 40% more blade strength than other bit materials.

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VIDEO Cutting Element Scrape Tests

Laboratory tests demonstrate cutting action on formation samples.



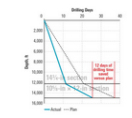
INTERVIEW Wiley Long

Wiley Long, Smith Bits Product Champion, discusses how operators are using the Blade Family of bits to reshape the...



PRODUCT SHEET EnduroBlade 360 Rolling Diamond Element Bit

Revolving cutting-element edge advances durability.



TECH REPORT Frontera Energy Uses Integrated Schlumberger Technologies to Reduce Drilling Costs by USD 900,000

Operator lowers drilling time and eliminates planned runs using EnduroBlade 360 bits, fit-for-purpose PowerDrive RSS...



VIDEO EnduroBlade 360 Rolling Diamond Element Bit

Fill the reservoir more efficiently by using the entire circumference of the cutting structure.



INTERVIEW Alan White

How developing unique-geometry cutting elements ushers in new drilling possibilities.

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