

# G8R

Introducing G8R, Black Diamond's groundbreaking innovation in borehole conditioning and reaming technology. G8R stands as a revolutionary Flow-Activated Ledge Eliminator, providing unparalleled control over cutter extension directly from the surface. Unlike conventional reaming tools, G8R empowers precision reaming performance by allowing operators to deploy cutter extension exactly when needed. The true innovation lies in G8R's capability to not only expand the blades for optimal reaming but also retract them efficiently, eliminating the troublesome torque and drag associated with standard reaming tools. This downhole adaptability sets G8R apart, offering a dynamic solution to enhance drilling efficiency and reduce operational costs. Welcome to a new era of borehole conditioning with G8R, where control meets performance seamlessly.

## Features and Benefits

### Retracted Blade Running:

- G8R can be pushed into or pulled out of the borehole without cutter drag
- With cutters retracted, G8R produces no more drag than a smooth pup joint

### Precision Cutting Power:

- 18 blades, driven by one heavy-duty piston, deliver maximum lateral force to cutters
- 54 PDC cutters provide trusted cutting efficiency
- Tool can be custom assembled to provide optimum cutting force for any operation

### Concentric Blade Design:

- Concentric G8R cutters provide balanced, lower vibration cutting, compared to competitor eccentric reamers
- Drill string and MWD damage reduction
- Cutters do not affect ability to slide

### Borehole Improvement:

- Counteracts wellbore spiraling
- Reams out dog legs
- Reduces key seats, ledges, and hole tortuosity
- Smooths micro dog legs
- Reduces ECD and protects fragile formations

### Selective Cutter Extension:

- Piston-driven cutter blades may be selectively extended in specific regions of key-seating, spiraling, ledges, tight spots, or dog legs

### Enhanced ROP & Directional Control:

- Reduced torque and drag and stick-slip
- Improved weight transfer to the bit
- Cuttings agitation removes low-side buildups
- Opens tight spots reducing risk of differential sticking
- Controls deviation and prevents high-frequency spiraling

### Operational Cost Saving:

- Eliminates the need for back-reaming or dedicated wiper trips
- Reduces trip time by minimizing drag through a conditioned wellbore

### More Secure Casing:

- Allows casing/ liners to go to the bottom faster and more smoothly by decreasing drag through the conditioned hole
- Increases space for cement around the casing

## G8R Specifications

Run In Hole Size (in.)	Hole Size Range (in.)	Tool Body OD (in.)	Blade OD (in.)	Expanded Cutter OD (in.) <sup>1</sup>	Minimum ID (in.)	Length w/o Flex Subs (in.)	Weight w/o Flex Subs (lbs)
6 ¾	6 ¾ - 7 ½	5 ½	6 ½	6 ¾	TBC	TBC	TBC
7 ¾	7 ¾ - 8 ½	6 ½	7 ½	7 ¾	1.9 <sup>2</sup>	116	977
8 ½	8 ½ & up	6 ¾	8 ¾	8 ½	TBC	TBC	TBC
8 ¾	8 ¾	6 ¾	8 ¾	8 ¾	TBC	TBC	TBC

<sup>1</sup> Can be increased if required

<sup>2</sup> Can be made extended to 2.0 in. if required





## LOCATIONS

BLACK  DIAMOND

### USA

#### BLACK DIAMOND CORPORATE

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Houston, Texas 77090  
1.281.443.0062

#### BLACK DIAMOND BROUSSARD

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Broussard, LA 70518  
1.337.359.1994

#### BLACK DIAMOND CONROE

4205 FM 1485  
Conroe, TX 77306  
1.936.441.1480

#### BLACK DIAMOND MWD

2418 N Frazier Street #100  
Conroe, Texas 77303

#### BLACK DIAMOND WEST TEXAS

3510 N. County Rd 1148  
Midland, TX 79705  
1.432.689.0076

### CANADA

#### BLACK DIAMOND EDMONTON

Wenzel Downhole Tools  
3115 – 93 Street NW  
Edmonton, AB T6N 1L7  
1.780.440.4220

### GUYANA

#### BLACK DIAMOND GEORGETOWN

Plantation "A"  
Houston District  
East Bank Demerara  
Georgetown, Guyana

### MEXICO

#### BLACK DIAMOND VILLAHERMOSA

Avenida San Lucas Manzana 2 Bodega 3 y 4  
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### MIDDLE EAST

#### BLACK DIAMOND ABU DHABI

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