

Detritus Destroyer™ Knife-Rod

Introducing the Detritus Destroyer™ by Black Diamond – the cutting-edge downhole fluid optimization tool designed to efficiently control the flow of LCM (Lost Circulation Material), ensuring uninterrupted drilling operations.

The patent pending design features precision-engineered inlet and outlet filter screens either side of a robust mounting which forms a tight seal against the ID of its dedicated sub. This innovative configuration ensures optimal performance while minimizing pressure drop, and enhancing drilling efficiency.

Flow optimization fins direct mud to the inlet screen and also act as the primary method of LCM breakdown. Knife (triangle) shaped blades on both upper screen cut and separate incoming LCM. Traditional filter screen type rods on the lower outlet screen promote effective LCM fragmentation while capturing oversize particles. The innovative design ensures LCM is broken up along the entire flow path.

The Detritus Destroyer™ is a powerhouse when it comes to handling all major types of LCM. Acting as a vigilant filter screen, it captures oversized LCM particles and circulation debris that could otherwise jeopardize or obstruct lower BHA components. This means fewer interruptions, less downtime, and ultimately, significant cost savings.

Features and Benefits

- Highly efficient fragmentation of lost circulation materials (LCM)
- Directional blade design engineered to ensure continuous LCM breakdown across entire flow path
- High-strength outlet filter rods further fragment LCM while capturing oversized particles.
- Disintegration of LCM clumps ensures uninterrupted flow through MWD tools
- Reduced risk of plugging/ jamming of BHA components
- Decreased BHA damage due to debris impacts and blockages
- Segmentation of LCM into constituent particles improves ability to effectively seal zones of lost circulation
- Minimal pressure drop even in high flow operations
- Advanced engineering and material science employed to offer market-leading erosion resistance
- Can be deployed below the PDM in Motor Assisted RSS applications to catch rubber and avoid plugging the MWD or RSS



**DETRITUS
DESTROYER**

Technical Specifications

OD	6.625"
Length (ft)	6.375
ID (in)	2.750
Weight (lbs)	40
Tool Connections	4.5 IF
Flow Rate (gpm)	1,100

SCREEN DESIGN



INLET



OUTLET





LOCATIONS



USA

BLACK DIAMOND CORPORATE

7906 North Sam Houston Parkway W
Suite 200
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BLACK DIAMOND BROUSSARD

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1.337.359.1994

BLACK DIAMOND CONROE

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Conroe, TX 77306
1.936.441.1480

BLACK DIAMOND MWD

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1.936.202.2889

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BLACK DIAMOND GEORGETOWN

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BLACK DIAMOND VILLAHERMOSA

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MIDDLE EAST

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