

# Detritus Destroyer™ Demonstrates Value

Detritus Destroyer™ by Black Diamond recently demonstrated its value when deployed with multiple operators in East Texas.

The cutting-edge downhole fluid optimization tool is designed to efficiently control the flow of LCM (Lost Circulation Material) while acting as a downhole filter screen, ensuring uninterrupted drilling operations.

In one critical deployment the Detritus Destroyer, in its dedicated sub, was installed in the BHA below the motor in a Motor Assisted RSS [MARS] application. The tool had knife blades in its uphole screen to break down debris and LCM clumps, and rods in the downhole screen to effectively catch oversized detritus. The system proved invaluable in capturing debris (shown) of such large size and considerable quantity that it would have likely proved fatal for the MWD and/ or RSS below. Preventing the passage of the debris allowed the run to be completed as planned with no impact on the lower BHA.

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)
- Downhole capture of any potentially damaging debris in the circulation system
- Variable configurations of knife blades or rods for the upper and lower screens provide adaptability to meet any demands
- Directional blade design engineered to ensure continuous LCM break-down across entire flow path
- Advanced engineering and material science employed to offer market-leading erosion resistance
- Precision-engineered inlet and outlet filter screens on either side of a robust mounting
- Flow optimization fins direct mud to the inlet screen and break down Lost Circulation Material (LCM)
- Larger unbroken LCM pieces are captured in the lower, outlet screen
- Disintegration of LCM clumps ensures uninterrupted flow through MWD tools
- Reduced risk of plugging/ jamming of BHA components
- Decreased possibility of BHA damage due to debris impacts and block-ages
- Segmentation of LCM into constituent particles improves ability to effectively seal zones of lost circulation
- Minimal pressure drop even in high flow operations



**DETRITUS  
DESTROYER**

### Technical Specifications

OD	6.625"
Length (ft)	6.375
ID (in)	2.750
Weight (lbs)	34
Tool Connections	4.5 IF
Flow Rate (gpm)	1,100





## LOCATIONS



## USA

### BLACK DIAMOND CORPORATE

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Suite 200  
Houston , TX 77064  
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### 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, TX 77303  
1.936.202.2889

### 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  
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1.780.440.4220

## GUYANA

### BLACK DIAMOND GEORGETOWN

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Houston District  
East Bank Demerara  
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## MEXICO

### BLACK DIAMOND VILLAHERMOSA

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## MIDDLE EAST

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