

# Detritus Destroyer™ Knife-Knife

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 and lower screens ensure LCM is broken up along the entire flow path. Larger pieces that are not broken up are captured in the lower, outlet screen.

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
- 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 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**

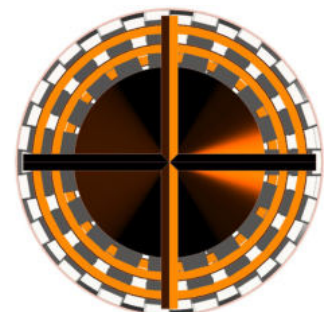
### Technical Specifications

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

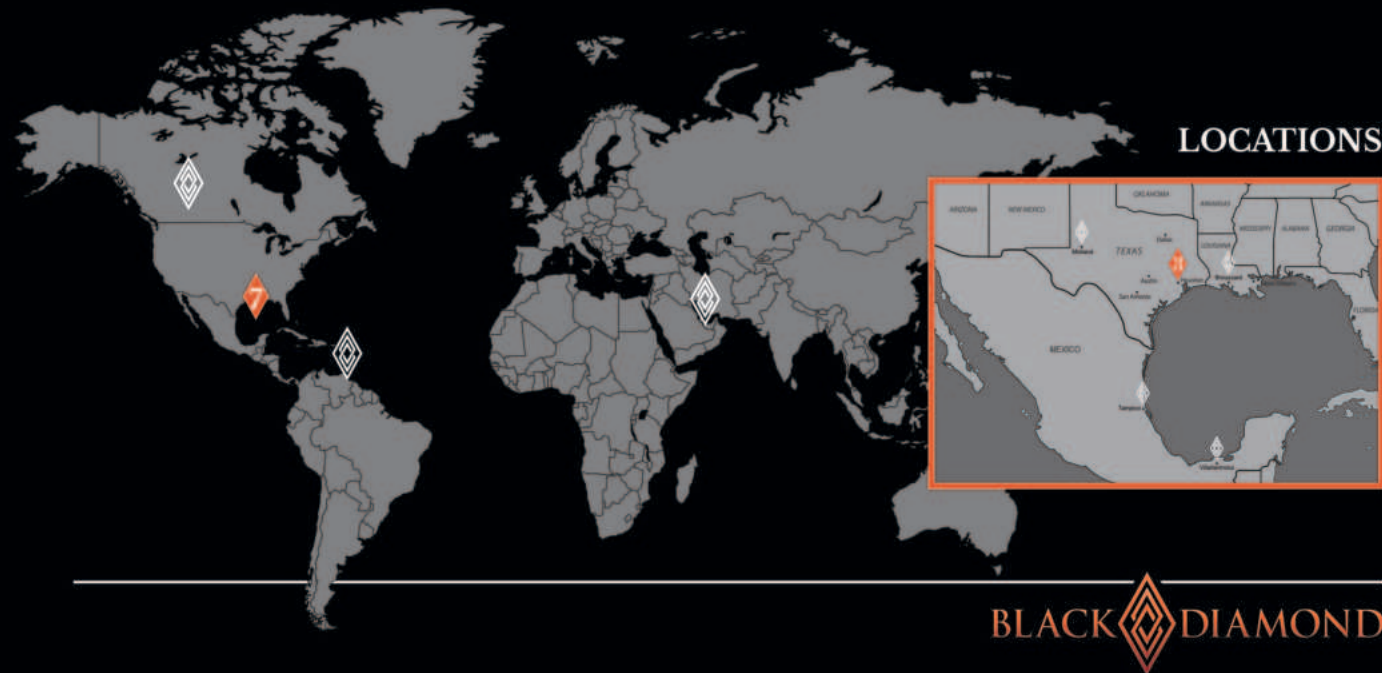
### SCREEN DESIGN



**INLET**



**OUTLET**



**LOCATIONS**



**USA**

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**BLACK DIAMOND CONROE**

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**BLACK DIAMOND MWD**

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**MIDDLE EAST**

**BLACK DIAMOND ABU DHABI**

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