

Ultra-Vac

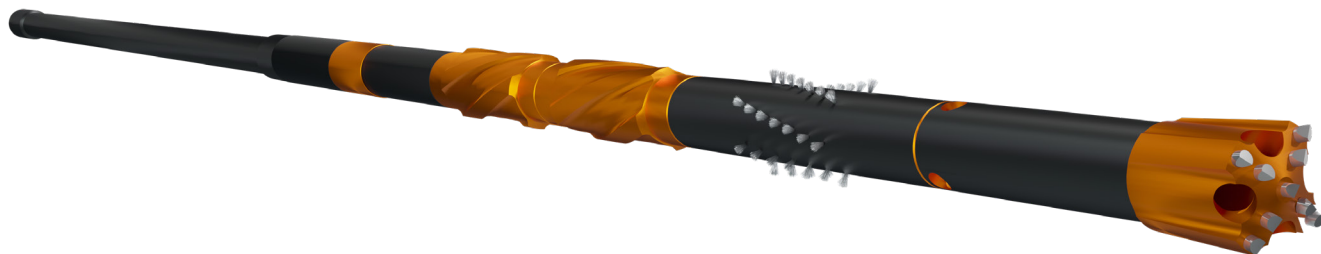
Introducing Black Diamond's Ultra-Vac, a revolutionary solution in downhole clean-out and recovery systems. Engineered to redefine efficiency and precision in wellbore maintenance, the Ultra-Vac is designed to maximize solids recovery, ensuring unparalleled performance in even the most challenging environments. With its innovative technology, the Ultra-Vac tool sets a new standard for clean-out methods, offering enhanced reliability and effectiveness in both vertical and horizontal wells. Excelling in all clean-out applications, its capability to trap and vacuum solids makes it indispensable for operations where debris removal is paramount, especially in low-bottom hole pressure wells.

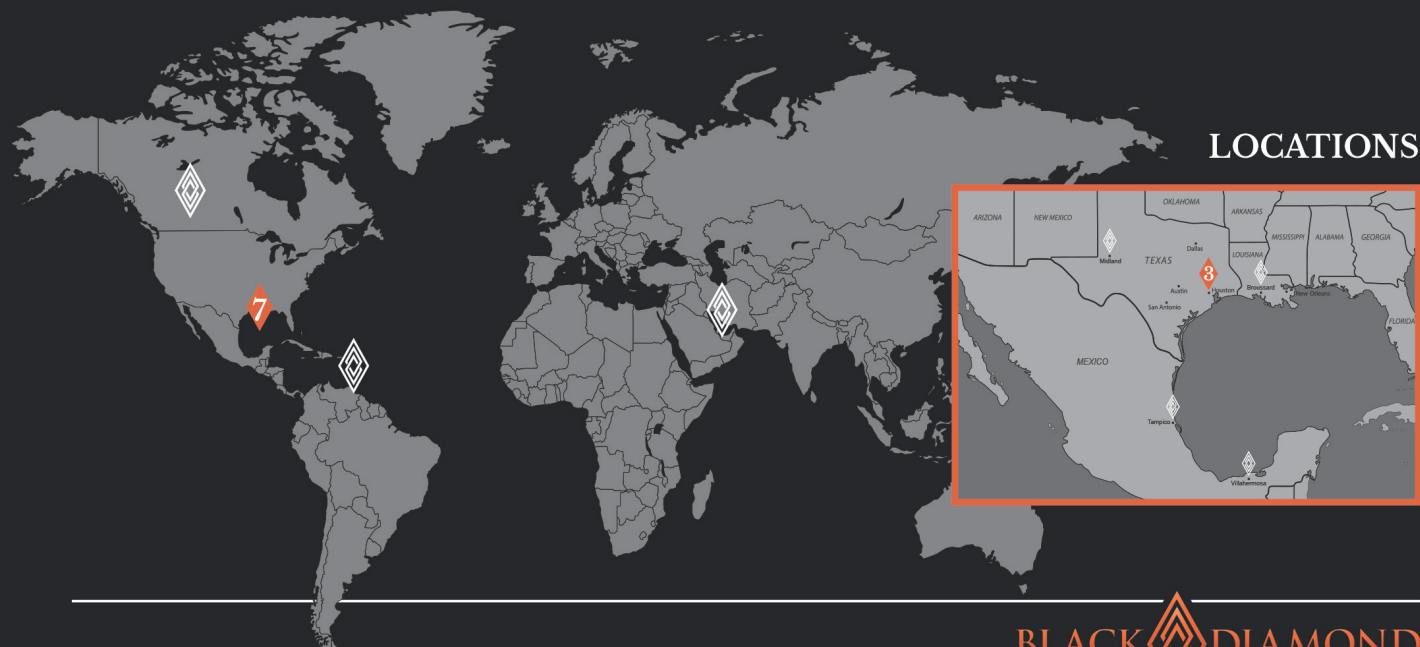
Features and Benefits

- **Enhanced Solids Recovery:** Traps all types of solids in the lower cavity of the tool, ensuring superior recovery compared to traditional clean-out methods.
- **Integrated Ported Casing Brush:** Enhances removal of residual cement, debris, scale and casing burrs.
- **Increased Operational Efficiency:** Reduces fluid volume required for circulating sand and debris from the wellbore, saving time and resources.
- **Versatile Application:** Suitable for use in both Vertical, Deviated and Horizontal wells, providing flexibility across various well geometries.
- **Optimized for Low-Bottom Hole Pressure Wells:** Excellently suited for wells with low-bottom hole pressure, maintaining efficient operations even under challenging conditions.
- **Critical Debris Recovery:** Ideal for drill-outs and mill-outs where debris and solids recovery are crucial for maintaining well integrity and performance.
- **Precision Engineering:** Engineered with state-of-the-art technology for maximum reliability and performance, ensuring consistent results in every operation.
- **Pre-Completion Well Conditioning:** Ensures optimal well condition by removing all debris which cannot be removed by traditional methods including fines which can block production pathways.
- **Cost savings:** Reduces the need for frequent well interventions and costly cleanout operations, leading to significant savings in maintenance and operational expenses over the lifespan of the well.
- **Improved well integrity:** Helps preserve well integrity by preventing the accumulation of debris that could contribute to corrosion, erosion, or mechanical damage to downhole equipment and casing.

Ultra-Vac Specifications

OD (in.)	4	
Bore Hole ID Range (in.)	4 ½ - 5 ½	
Length (ft)	60	
Weight (lbs)	1,100	
Major Assemblies	2	
Make-Up Torque (lbf-ft)	7,000	
Bearing Assembly	Oil Sealed	
Ultra-Vac Orientation	Vertical	
Collection Tube Orientation	Vertical or Horizontal	
Connections	Upper	2 ¾ IF Box
	Lower	2 ¾ IF Pin
Running Fluid	Brine or KCl	
Differential Pressure Range (psi)	500 - 800	
Optimal Flow Range (gpm)	100 - 175	
Optimal Pump Suction range (bbl/min)	0.16 - 0.27	
Collection Tubing (in.)	2 ¾	
Optimum Stirrup (rpm)	80 - 90	
Max. Operating Torque (lbf-ft)	3,000	
Safety Shear Capacity (lbs)	90,375 - 129,700	
Safety Torque (lbf-ft)	3,000	





LOCATIONS



USA

BLACK DIAMOND CORPORATE

7906 N. Houston Parkway W
Suite 200
Houston , TX 77064
1.281.443.0062

BLACK DIAMOND BROUSSARD

1173 Old Spanish Trail, Hwy 182 N
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
Edmonton, AB T6N 1LY
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
Parque Logistico Industrial Tabasco
Rancheria Anacleto Canabal 4ta. Seccion.
Centrol, Tabasco C.P. 86287
+52 993 688 8579

BLACK DIAMOND TAMPICO

Carretera federal 20 de Noviembre km 18.7
Congregacion Anahuac
Pueblo Viejo, Ver., C.P. 92035
+52 993 688 8579

MIDDLE EAST

BLACK DIAMOND ABU DHABI

Wenzel Downhole Tools
Al Markaz Industrial Area
Waha Land, LT01 B25-32
Abu Dhabi, U.A.E.
+971 2 585 2800