



ULTRAFLOW

MWD SYSTEM



OPERATORS TODAY LEAN ON EFFICIENCY TO MAINTAIN THEIR MARGINS, AND ANY CHANCE TO IMPROVE THEIR OPERATING EFFICIENCY HAS THEIR FULL ATTENTION.

Built for the desired speed of modern pad and batch drilling operations, UltraFlow MWD delivers a streamlined, rig-ready solution that reduces field handling, accelerates deployment, and maintains consistent performance across high-frequency and efficiency-focused drilling campaigns.

Fully assembled and workshop tested before deployment, the turbine-powered UltraFlow arrives at the rig site collar-mounted and ready to run. This minimizes rig-up time, reduces operational complexity, and improves the system's overall efficiency.

Integrated with the Eclipse Touch™ surface platform and supported through Black Diamond's Remote Operations Centre, UltraFlow provides a reliable, low-touch MWD solution built for today's fast-paced drilling environments and remote operations.

FEATURES & BENEFITS

OPTIMIZED FOR HIGH-FREQUENCY DRILLING

Engineered specifically for surface and intermediate sections, UltraFlow maximizes efficiency in operations where speed, reliability, and repeatable performance are essential.

READY-TO-RUN COLLAR-MOUNTED DESIGN

Pre-assembled, configured, and fully workshop-tested before shipment, UltraFlow arrives ready to be integrated directly into the BHA, reducing rig site preparation time and simplifying deployment.

RELIABLE TURBINE POWER WITH BUILT-IN REDUNDANCY

Powered primarily by a high-performance turbine system with integrated battery backup, UltraFlow maintains operational capability during flow-off surveys and contingency scenarios.

WIDE HYDRAULIC OPERATING RANGE

As the system does not require the matching of poppet-orifice to hydraulic parameters, allowing it to work across a wide range of flow rates & mud weights, UltraFlow is not constrained by drilling program changes that require traditional systems to be physically reconfigured.

ADVANCED ECLIPSE TOUCH™ INTEGRATION

Seamlessly paired with the Eclipse Touch surface system, UltraFlow delivers an intuitive user experience combined with advanced decoding capabilities for confident drilling decisions.

CONFIGURABLE DATA TRANSMISSION

Flexible transmission sequences allow operators to tailor data delivery to their application, including both computed and continuous 6-axis survey options.

LOW-TOUCH REMOTE OPERATIONS SUPPORT

Fully compatible with Black Diamond's Remote Operations Centre, UltraFlow enables expert remote support, reduced personnel requirements, and more streamlined field operations.





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TECHNICAL SPECIFICATIONS

COLLAR O.D.	4.75 in	6.75 in	8.25 in.	9.5 in.
Tool Connections ¹	3-1/2 in. IF	4-1/2 in. IF	6-5/8 in. REG	7-5/8 in. REG
Flow Rate Range	100 - 400 usgpm	150 - 800 usgpm	400 - 1,200 usgpm	400 - 1,200 usgpm
Max. Dogleg Rotation	15°/ 100 ft	10°/ 100 ft	7°/ 100 ft	4°/ 100 ft
Max. Dogleg Sliding	30°/ 100 ft	21°/ 100 ft	14°/ 100 ft	7°/ 100 ft
Max. Pressure	20,000 psi	Max. Mud Weight	18 ppg	
Max. Temperature Operating	160 °C / 320 °F	Max. Sand	1.0 % at maximum fluid velocity	
Max. LCM Tolerance	40-50 ppb any type, thoroughly and evenly mixed, with use of surface drill pipe screens			

¹Other connections available on request.

SENSOR SPECIFICATIONS

Directional	Tri-axial Fluxgate Mags & Q-flex Accels	
MEASUREMENT	RANGE	ACCURACY
Inclination	0 - 180°	+/- 0.1°
Azimuth (>10° Inc)	0 - 360°	+/- 0.25°
Toolface - Grav	0 - 360°	+/- 0.5°
Toolface - Mag	0 - 360°	+/- 0.5°
Dip Angle	-90 - 90°	+/-0.15°
Total Gravity Field	0 - 2 g	+/- 0.001 g
Total Mag. Field	0 - 100 μT	+/- 0.075 μT

BLACK DIAMOND OILFIELD SERVICES PROVIDES CUTTING-EDGE SOLUTIONS FOR OILFIELDS, FOCUSING ON IMPROVING EFFICIENCY AND MAXIMIZING PRODUCTIVITY.

