

UltraAccelerator

Unleash the power of impact with Black Diamond's UltraAccelerator, the hydraulic jar accelerator designed to optimize jarring performance regardless of well depth or deviation. UltraAccelerator's hydraulic spring mechanism harnesses energy when the drillstring is under tension. During the jarring stroke energy is released upwards, accelerating the drill collars and upper section of the jar, producing a highly intensified jarring impact. Available as single or double action, UltraAccelerator ensures maximal jarring impact when it is most needed.

Features and Benefits

- **Maximized Impact Energy:** Jar acceleration, and so force, is typically reduced by friction between drillstring and wellbore. With UltraAccelerator the velocity of the mass applied to the jar is optimized, thus releasing devastating force.
- **Extended Reach Success:** Ideal for extended reach or highly deviated wells where traditional jar performance may be compromised by hole drag.
- **Shallow Hole Adaptability:** Suited for shallow, or tortuous, holes with minimal pipe stretch. Offers reliable impact in diverse drilling scenarios.
- **Drill String & Surface Equipment Protection:** Prevents jar energy being transmitted uphole thus protecting all components from destructive shocks and vibrations.
- **Circulation Independence:** Operation is completely un-reliant on fluid circulation.
- **High Temperature Standard:** 160 °C/ 340 °F seals standard in all UltraAccelerator tools with option to extend operating range to 200 °C / 400 °F.
- **Sealed & Lubricated Spline Drive:** Ensures a long service life even under high torque and stroking applications.
- **Enhanced Corrosion Resistance:** Advanced engineering and specialized Tungsten Carbide coatings prevent wear.
- **Optimal Torque Transmission:** Unique spline design ensures full torque can be transmitted during all stages of operation.
- **Reduced Collar Requirements:** Removes the need for extra mass to counter reduced drillstring stretch, particularly in shallow wells.

UltraAccelerator Specifications

Nominal OD (in.)	Type	Length (ft)	Thru Bore (in.)	Tensile Yield (lbs)	Torsional Limit (lbf-ft)	Load to Extend (lbs)	Load to Compress (lbs)	Stroke (in.)
3 1/8	Single Acting	11.3	1.00	227,000	5,700	34,000	-	8.0
3 3/8	Single Acting	13.5	1.50	235,000	9,000	36,000	-	8.0
4 3/4	Single Acting	14.4	2.25	371,000	22,800	58,000	-	8.0
4 3/4	Double Acting	20.9	2.25	370,600	22,800	42,000	31,000	12.5
6 1/2	Single Acting	14.7	2.25	970,600	56,300	141,000	-	8.0
6 1/2	Double Acting	22.2	2.75	1,220,000	63,700	99,400	43,900	12.5
6 5/8	Single Acting	14.7	2.75	999,000	61,500	136,000	-	8.0
6 3/4	Single Acting	15.0	2.75	999,000	66,000	150,000	-	8.0
7	Single Acting	15.3	2.75	994,000	65,100	160,000	-	8.0
8	Single Acting	15.5	3.00	1,163,000	86,200	198,000	-	8.0
8	Double Acting	19.8	2.81	1,294,000	89,400	138,500	63,700	12.5
8 1/4	Single Acting	15.5	3.00	1,164,000	86,200	198,000	-	8.0
9 1/2	Single Acting	14.3	3.00	1,658,000	139,900	210,000	-	8.0





LOCATIONS



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BLACK DIAMOND CONROE

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BLACK DIAMOND MWD

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MIDDLE EAST

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