

UltraJar

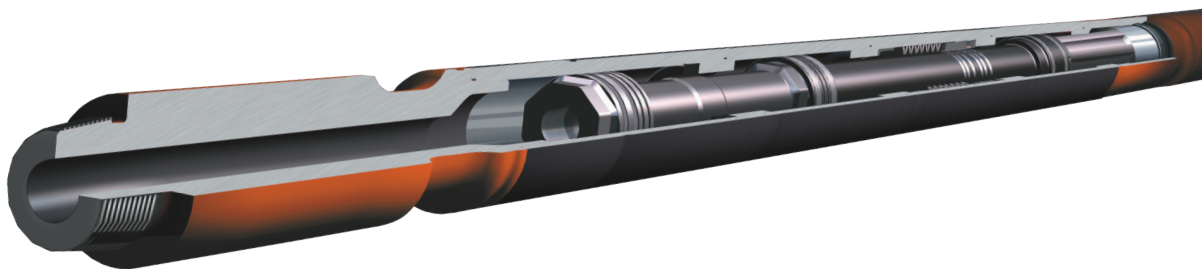
Leveraging cutting-edge proprietary technology, Black Diamond proudly presents UltraJar - the Ultimate Double Acting Hydraulic Drilling Jar. This revolutionary bi-directional drilling jar features hydraulic delay capabilities without the need for a latch mechanism. UltraJar empowers operators with the flexibility to apply variable impact forces both upward and downward with full control from the rigfloor. Specifically designed for challenging environments, such as highly deviated or high-friction wells, where conventional methods might struggle, UltraJar ensures optimal performance in conditions that demand extraordinary solutions.

Features and Benefits

- **Dual Direction Impacts:** Maintaining hydraulic delay in both directions ensures consistent jarring performance and maximal impact when firing up or down.
- **Controlled Force Application:** Driller retains full control of all aspects of the jar firing.
- **Consistent Delay Times:** Advanced metering technology delivers consistent timings across the full operating temperature range.
- **Multi-Environment Reliability:** Regardless of well profile or bore condition UltraJar overcomes obstacles that could hinder the application of ample force to release a mechanical latch.
- **Torque Independence:** Operated by simple up and down motion with no requirement for applied torque.
- **High Temperature Standard:** 160 °C/ 340 °F seals standard in all UltraJar tools with option to extend operating range to 200 °C / 400 °F for hot hole or 230 °C / 450 °F for extreme hot hole.
- **Full Bore Internal Diameter:** Allows for unobstructed passage of balls, darts or wireline, while minimizing pressure loss. **Enhanced Corrosion Resistance:** Advanced engineering and specialized Tungsten Carbide coatings prevent wear and ensure sealing surface performance.
- **Safe Surface Handling:** Safety clamp maintains UltraJar fully extended removing any possibility of accidental firing.
- **Extended Operating Envelope:** Advanced engineering and superior sealing technology ensures reliable and efficient performance, allowing continued jar impacts without compromising effectiveness.
- **UltraAccelerator Partnership:** Ideally run with Black Diamond's UltraAccelerator to maximize impact and protect surface equipment.
- **Fully Customizable:** UltraJar can be manufactured with any drill pipe connection type.

UltraJar Specifications

Nominal OD (in.)	Length (ft)	Thru Bore (in.)	Tensile Yield (lbs)	Torsional Limit (lbf-ft)	Max Pull During Delay (lbs)	Free Stroke Up/ Down (in.)	Total Stroke (in.)
4 ¾	22.0	2.25	370,600	22,800	132,000	8.0	25.0
5	21.5	2.25	370,600	27,300	135,000	8.0	25.0
5 ¼	21.9	2.25	534,300	30,500	185,000	8.0	25.0
6 ½	23.1	2.75	1,220,000	63,700	275,000	8.0	25.0
6 ¾	22.7	2.75	1,220,000	66,600	340,000	8.0	25.0
7	22.7	2.75	1,220,000	66,600	340,000	8.0	25.0
8	23.2	2.81	1,293,900	89,400	450,000	8.0	25.0
9 ½	24.1	3.00	1,658,500	139,400	550,000	8.0	25.0





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