Lexal FHJ

The cost effective answer to stuck pipe. The Lexal FHJ is a fully hydraulic double-acting Drilling Jar.

High-impact forces reliably directed and delivered.

Lexal FHJ double-acting hydraulic impact tool delivers the required force up or down to free stuck pipe or other drilling assembly components.The tool is simple to build, easy to dress, and extremely durable. The tool is not affected by temperature, and offers consistent, dependable hitting performance in any application.

Applications

- To free stuck pipe or other drilling assembly components
- High-impact operations
- High-temperature operations

Heavy impact capability up or down

The Lexal FHJ tool is capable of higher over-pull and impact than conventional impact tools of the same size for maximum performance. The jarring action is not affected by torque, and the tool can consistently deliver jarring forces to free stuck pipe. The Lexal FHJ tool is fully adjustable downhole: Increasing the upward pull on the drill string causes the tool to fire up, and slacking off causes the tool to fire down.

Drill string activation for operational efficiency

Once the desired impact has been delivered, the driller simply raises or lowers the drill string to enable the proprietary metering mechanism to reactivate the Lexal FHJ tool for firing. This readies the tool to deliver the next impact.
And, there's never any need to circulate or cool down the Lexal FHJ tool, because its proprietary design enables the tool to operate without being affected by temperature.

Integral part of the drill string

Designed to operate as an integral part of the drill string, the Lexal FHJ tool can endure the torque and pump pressures of normal drilling for long periods. The tool can withstand operating temperatures of up to 300 F and 450 F when equipped with its optional high-temperature seals. It can easily be racked as part of a stand of drill collars, because it is similar in length and diameter and has compatible connections and slip areas. The jarring mechanism remains inactivated during drilling.

SPECIFICATIONS:

TOOL OD	ID	Max Jarring Load (lbs)	Tensile Strength (lbs)	Torsional Strength (ft lbs)
4.75"	2.25"	90,000	453,000	19,000
6.5"	2.25"	185,000	917,000	56,400
8"	3"	300,000	1,303,000	102,000

FEATURES

- Proprietary metering mechanism enables drill string activation for operational efficiency
- Long free stroke for maximum impact
- Flex subs provide tool joint flexibility can be ran in tension or compression
- Large piston area prevents automatic cocking or firing while pumps are operating normally
- Proprietary detent design protects tool from the affects of temperature
- Endures operating temperatures of up to 300 F and 450 F with optional high-temperature seals
- Can be effectively and efficiently integrated into stuck situations