

DOUBLE-ACTING HYDRAULIC/MECHANICAL DRILLING JAR

This jar combines the latch with hydraulic delay in both directions. All features of the Hydraulic/Mechanical Drilling Jar are available with this tool, and operation of the tool is similar, but the hydraulic jar down requires a slight change of procedure.

To jar downward, apply a compression load to the jar in excess of the down-latch setting. This will release the mechanical latch and initiate the hydraulic delay sequence. Following the delay period, the jar will release, causing a downward jarring impact. Raising the drill string will re-engage the mechanical latch ready for further jarring, or to resume normal drilling as required.

Features:

- ✓ Will not fire unexpectedly while drilling, tripping, making connections, or tagging bottom .
- ✓ No safety clamp or special handling procedures are required on the rig floor.
- ✓ Less restricted jar placement in the BHA; the jar can be placed in tension, neutral or compression.
- ✓ Ideal for use in compression, as there is no need to wait for “bleed through” when tagging or picking up off bottom.
- ✓ Ideal for use in directional or extended reach horizontal wells, the jar can be run in the lower BHA in compression or in the upper BHA in tension.
- ✓ No special tripping or drilling procedures are required.
- ✓ Linear latch is not affected by torque; ideal for use in high friction, directional and extended reach horizontal wells.
- ✓ Simple up and down motion to operate .
- ✓ Adjustable latch release settings .
- ✓ Mechanical latch prevents wear of the tool during drilling operations.
- ✓ Hydraulic delay up and down jarring allows the operator to vary jarring force Downhole.
- ✓ Allows draw works brake to be applied to protect hoisting equipment.
- ✓ Special metering devices maintain relatively constant delay timing, even after prolonged jarring.
- ✓ Fully sealed and oil bath lubricated for longer service life and less wear.
- ✓ Available dressed for 300°F or 500°F bottom hole temperatures.