

# Hydraulic Anderreamer

Robust and reliable underreamer designed for the most demanding applications

The Anderreamer™ tool is a hydraulically actuated underreamer with a proven track record of exceptional performance. Backed by over 25 years of field experience, it has earned a reputation as the most reliable choice among concentric underreamers.

Engineered for demanding downhole environments, the Anderreamer tool delivers dependable cutter block expansion and retraction, minimizing operational risk and enhancing drilling efficiency.

Representing the next step in the evolution of this trusted tool, the Lock-Closed Anderreamer introduces a simplified lockable design - adding versatility and control to the underreaming process.

Proven applications include:

- Underreaming above RSS
- Underreaming for ECD management
- Underreaming plastic formations
- Underreaming to run close-tolerance casing
- Expandable liners
- Salt creep
- Better cement jobs

Additional functionality provided by a Lock-Closed Anderreamer:

- Deactivation of underreamer in the event of losses
- Option to drill ahead with pilot hole size
- Full flow circulation inside casing
- Full flow circulation for hole cleaning



## Features and Benefits

- Cutter blocks actuated by hydraulic force, independent of BHA weight.
- Cutter blocks are driven by a shallow taper cam to provide a high mechanical advantage and ensure full gauge hole.
- Reliable dovetail retraction mechanism (strong retraction spring).
- Cutter block locking mechanism enables safe shoe drilling.
- Cutter blocks are activated/deactivated by drop ball and may be cycled up to two times.
- Pressure difference confirms positive cutter block activation.
- Compatible with all RSS types.
- FEA modeling applied to deliver optimum tool strength.
- Integral pilot hole stabilization below cutter blocks (360° coverage).
- Large fluid flow path around main body and cutters.
- Jet nozzles can be adjusted for additional cleaning if required.
- Very few seals and moving parts for increased reliability.
- NOV ReedHycalog premium PDC cutter technology.