

Hydraulic Release Tool (HRT)



High-Torque Hydraulic Release for Downhole Tools

Core Design's Hydraulic Release Tool (HRT) uses drive pins and torque blocks instead of gripping the inside or outside diameter of the released tool.

This design allows the HRT to withstand high torsional, tensile, and compressive loads without damaging the tool surface.

The HRT is ball-activated using standard rig pumps and can operate with drilling fluids or cement slurry. Once released, the drill string can be circulated and drained.

Applications:

- Hydraulic release of downhole tools.
- Vertical and horizontal well applications.

Key Advantages:

- Handles high torque, tension, and compression
- Releases while under compression or torsional load
- Requires minimal pump pressure
- Eliminates internal or external grip marks
- Operates with standard rig pumps
- Compatible with drilling fluids and cement slurry
- Allows circulation and pipe drainage after release

Specifications:

Thread:	4 ½" IF Box
Max Pull Strength:	383,000 lbs
Max Torque:	57,750 ft-lbs
Tool OD:	7.0"
Tool ID:	1.644" latched .808" released
Actuation:	2" Ball (steel or ertalyte)
Activation Pressure:	204 psi/shear screw (816 psi max)
Accessories:	Check Valve, Float Plug, Safety Rupture Disc