

M.O.S.T. Plus Tool

Delivers safe, single-trip wellhead recovery and casing cutting in subsea environments

Applications

- Subsea wellhead cutting and recovery
- Subsea casing cutting and retrieval

Features and Benefits

- The tool provides single-trip efficiency for both wellhead-recovery operations and casing-cutting and retrieval operations, which reduces rig time.
- An exclusive emergency-release feature jettisons the grapple arms and disconnects from the wellhead.
- The external latching design prevents wellhead turning and listing which minimizes internal damage to the wellhead.
- A visual latch and unlatch confirmation enables safe and dependable wellhead recovery.
- The tool provides excellent lateral support while attached to the wellhead, which reduces lateral whip and enables faster cutting.
- The load capacity exceeds 1,000,000 lb (453,592 kg).
- The tool facilitates tension-cutting and compression-cutting operations driven by either mud-motor or top-drive rotation

Tool Description

The Weatherford M.O.S.T. (mechanical outside-latch, single-trip) Plus tool is a universal wellhead and casing-cutting technology for well abandonment. This environmentally safe, single-trip tool cuts and recovers wellheads up to 18-3/4 in. Available with a wide range of grapple arms, the tool is compatible with most wellheads, including Vetcogray™ MS-700™ and SMS-700, Cameron®, National SB, and Dri-Quip® DX wellheads.

Equipped with exclusive emergency-release pins, the M.O.S.T. Plus tool enables permanent disconnection via remotely operated vehicle (ROV). Unlike internally operated systems, the tool uses mechanically activated arms that latch onto the outside wellhead profile. This feature eliminates the need to lock internally near the sealing area, minimizes damage to the recovered wellhead, accelerates cutting in open water, and eliminates cutting-string wobble.



The Weatherford M.O.S.T. plus tool provides safe, single-trip wellhead-recovery operations with minimal damage.



M.O.S.T. Plus Tool

Specifications

Mechanical

Upper mandrel connection	6-5/8 in. Reg Box
Lower mandrel connection	6-5/8 in. Reg Pin
Operating flow rates	100 to 1,000 gal/min (380 to 3,800 L/min)
Maximum operating pressure	6,700 psi (46 MPa)
Maximum operating rpm	150 @ 50,000-lb (22,727-kg) tension
Total lifting capacity	600,000 lb (427,272 kg)
Total pulling capacity	1,100,000 lb (500,000 kg)
Mandrel tensile strength	1,900,000 lb (863,636 kg)
Fishing-neck diameter	7.5 in. (19.05 cm)
Maximum OD	37 in. (93.98 cm)
Weight	7,450 lb (3,386 kg)
Maximum operating torque	89,230 ft/lb (120,970 N·m)
Makeup torque	50,700 ft/lb (68,730 N·m)

Options

- Grapple arms to retrieve Vetcogray MS-700 and SMS- 700, Cameron, National SB, and Dri-Quip DX wellheads
- Non-rotating flexible stabilizer can be run above and below the cutter



Weatherford®