

PullMaster Cut and Jack System

Trip saver cutting and hydraulic pulling unit.

APPLICATIONS

- Single trip cut and pull with a hydraulic pulling unit
- Recovery of stuck liners, washpipe, and other tubulars
- Recovery from rigs with limited pulling or jarring capacity
- P&A operations
- Slot recovery operations

BENEFITS

- Multiple cuts on demand, pull and jack on the same trip
- Hold casing in tension while cutting
- Improves operational flexibility by offering an alternative to pilot milling casing in slot recovery operations
- Reduces rig time compared with casing milling operations

FEATURES

- On-demand cut and jack activation
- Hydraulically actuated pulling section
- Allows flow switch between cutting and jacking operations
- Hydraulic set-and-release anchor section
- 1,500,000-lbf pulling capacity
- Used with conventional fishing jarring BHAs

One trip, pulling and slot recovery tool

The PullMaster is a downhole hydraulic casing jack designed to provide high pulling load, where the rigs does not have sufficient pulling capacity to retrieve casing due to settled solids or partial cement. A trip-saving solution that enables casing cuts and handles high pulling loads on demand, in a single trip to recover long intervals of casing in Well Abandonment and Slot Recovery operations.

The system is incorporated with following tools to perform multiple operations in the same trip:

- Pipe Cutter
- Casing Spear
- Pull Section
- Relief Valve
- Hydraulic Anchor

A trip-saving solution that enables casing cuts and handles high pulling loads on demand, in a single trip.

PullMaster Cut and Jack System Specifications

Tool size, in. [cm]	11 $\frac{7}{8}$ [30.16]
Casing size, in. [cm]	13 $\frac{3}{8}$ [33.97]
Max. force generated, lbf [N]	1,500,000 [6,672,332]
Tensile yield, lbf [N]	2,000,000 [8896443]
Torsional yield, ft.lbf [N.m]	67,000 [90,839]
Max. DLS	3 deg/100ft
Max. flow rate	450 GPM
Max. operating temperature	400°F [205°C]
Max. operating pressure, psi [MPa]	5,000 psi [34.47]
Pull ratio, psi:lbf	1:298.5
Stroke length, in. [cm]	30 [11.81]

