

PullMaster® Cut and Jack System

Trip saver cutting and hydraulic pulling unit

One trip, pulling and slot recovery tool

The PullMaster® is a downhole hydraulic casing jack designed to provide high pulling load, where the rigs do 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.

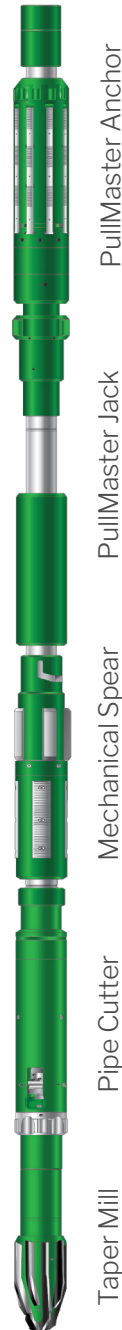
The system is incorporated with the following tools to perform multiple operations in the same trip:

- 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 ⁷ / ₈ [30.16]
Casing size, in. [cm]	13 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]



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

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

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