

# MAN-O-WAR™ TOP DRIVE CEMENT HEAD



The in-house engineered MAN-O-WAR™ Top Drive Cement Head is the most modernized and optimized way to launch cementing darts/plugs and foam/solid balls. Designed to be a reliable, simple, and a safer alternative to your typical cumbersome top drive cement heads and circulating iron manifolds.



Rated to an **INDUSTRY FIRST** combined simultaneous load of 10,000 psi at 2,000,000 lbf tensile with 110,000 ft-lb applied torque.

## Features:

- Adaptable pin connector facilitates quick and hassle-free field redressing of the bottom connection to accommodate any drill pipe specific connection/sizes
- 5.75-inch chamber I.D. mitigates compression set of darts prior to job
- Fully independent remote system with safety features that control safety valves, release valves, ball drop, and launch indicators
- Mechanical electric over hydrolic plug departure indicators
- Modular design: add or remove chambers to accommodate additional plugs/balls or for extended length plugs
- Engineered for field loading, redress, and maintenance using the innovative offshore basket with integral skid design
- Contingency manual operation
- Wireless Remote System ATEX Zone 1 & UL Class I Div. II Certified:
  - Worldwide Remote Actuation
  - Augmented reality for ultimate remote support
- DNV Certified

## SPECIFICATIONS

Rated Hookload	3,000,000 lbf
Rated Hookload (combined)	2,000,000 lbf
Rated MAWP (combined)	10,000 psi
Rated Torque (combined)	110,000 ft-lbf
Swivel Rated RPM	50 rpm
Flow Rate (Top Drive)	35 bbl/min
Flow Rate (Swivel)	16 bbl/min
Tool Weight	4,914 lb
Tool Length	13.4 feet



Citadel's 365 24/7  
DEVGRU support