



BLACKHAWK
SPECIALTY TOOLS
A division of Frank's International

ENGINEERED CEMENTING SOLUTIONS

6-5/8" WIRELESS TOP DRIVE CEMENT HEAD

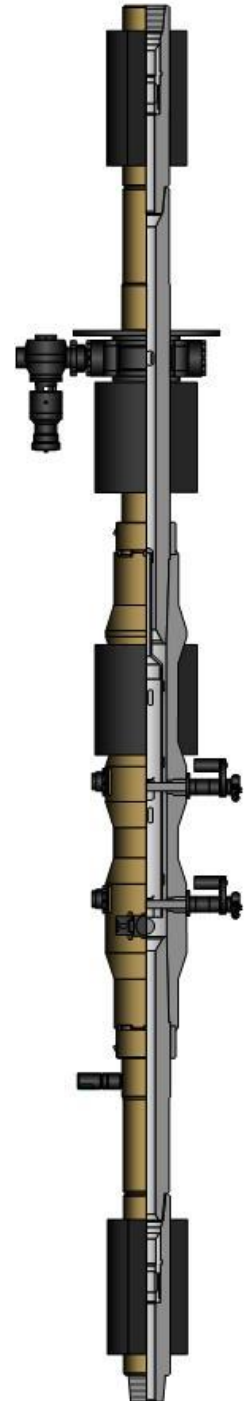
Blackhawk's 6-5/8" Top Drive Cement Head, the industry leader in GoM deepwater primary cementing operations, now features the most advanced wireless automation system available. Incorporating a vast-array of industry-exclusive technologies and features focused on safety, speed, and efficiency, Blackhawk continues to refine what is the most versatile cement head currently on the market.

FEATURES

- Fully-wireless automation system eliminates hydraulic umbilical line and operating console.
- Industry-exclusive, interchangeable cage design (6.625" maximum ID) prevents "wadding" deformation of dart fins, mitigating fluid bypass and displacement volume discrepancies.
- Wireless, remote-operated pin pullers enable fast and accurate launching of wiper plugs, darts, and rubber/nerf balls.
- Wireless, remote-operated plug and isolation valves quickly actuate during cementing operations.
- Industry-exclusive LED tattle-tale, effective in all weather conditions, enables confirmation of plug/dart/ball release from tool; automatically resets between launches.
- Quik-LockSM connections allows for the fastest plug/dart/ball reloads in the industry.
- Manual backup on all remote-operated features ensures redundancy and risk-free operation.
- Quad head and manual versions also available

VALUE

- Continuous wireless link monitoring; radio signal filtering blocks Wi-Fi and Bluetooth interference for increased reliability.
- Wireless, remote-operated, "on-the-fly" plug/dart/ball launching, eliminates the need to stop pumping, reciprocating, and/or rotating.
- Wireless, remote-operated features eliminate the number of riding belt trips above the rig floor, improving safety.
- Reduced likelihood of plug/dart/ball damage improves cementing efficiency.
- Quick reloads on the rig floor reduce downtime.
- LED and observation ports leave no doubt that the plugs/darts/balls launched from the head as intended.
- Rotating ability further facilitates effective cementing.
- Adaptable to essentially any primary cementing application.
- Liner setting balls are loaded in ball droppers on the rig, allowing verification of ball size by all critical personnel.

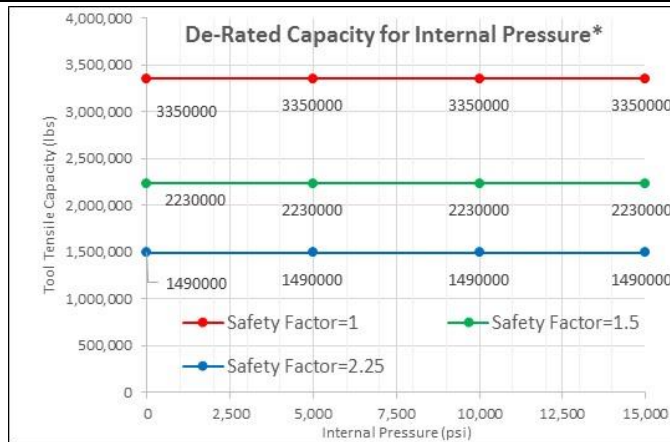




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SPECIFICATIONS

6-5/8" Wireless Top Drive Cement Head (Gen II)	
Maximum Hookload	See Chart Below*
Maximum Working Pressure	See Chart Below*
Maximum Combined Loading	See Chart Below*
Torque-thru Tool Rating	100K ft-lbs
Maximum Pump Rates	35 bpm through top drive
	15 bpm through 2" 1502
	20 bpm through 3" 1502
Complete Tool Weight	Needs to be Verified



*Ratings do not include drillpipe connections or Full-Open Isolation Valves. Ratings for Full-Open Isolation Valves can be found in TSB-10012.

WIRELESS REMOTE CONTROL

