

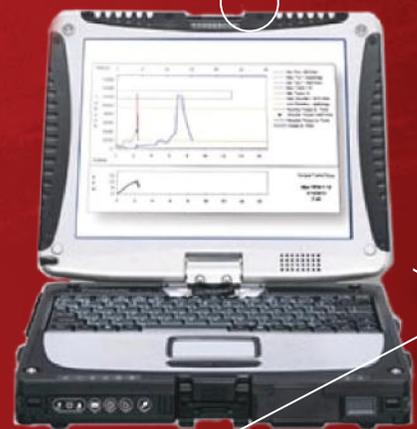
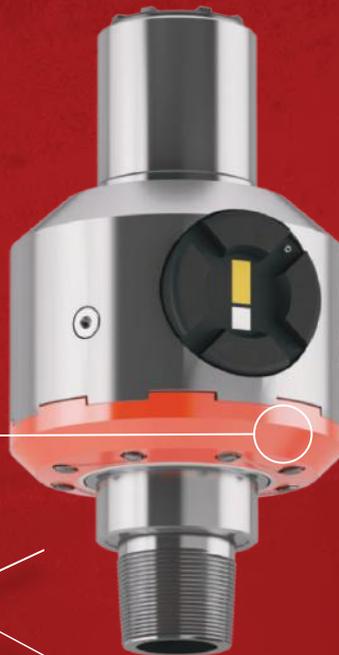
PROTORQUE HOOK LOAD & TORQUE VERIFICATION

The Torque Sub is used to regularly verify the top drive and rig tong torque outputs. This is to ensure that they are accurate and to reduce damage to the rotary shoulder connections during make-up. Regular verifications help to prevent downtime, equipment failure, repair costs and can extend the service life of your drill pipe.

TOTAL RIG SOLUTIONS™

- VERIFIES DRILLING AND HOOK LOAD OUTPUT VALUES

- REAL-TIME DATA ANALYSIS



CANADA
780.933.0404

UNITED STATES
713.300.5216

PROTORQUETECH.COM



PROTORQUE HOOK LOAD & TORQUE VERIFICATION



SPECS

- **TORQUE CAPACITY:** 40,000 – 50,000 ft/lbs (54,200 – 67,700 Nm)
- **HOIST CAPACITY:** 750,000 – 1,000,000 lbs (375 – 500 tons)
- **WEIGHT:** Approx 350 lbs (160 kg)
- **SUB LENGTH:** 18.6 – 22" (472.4 – 558.8 mm)

Specialty weights, lengths and capacities will depend on customer drill pipe specifications

CONSEQUENCES OF INCORRECT MAKE-UP TORQUE:

1 in 20 wells experience a “back-off” or “twist-off” event

The average cost is \$400,000 per event

30-35% of top drives deliver inaccurate drill pipe connection torques

1 in 4 top drives are out of calibration by more than 10%

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