

PROTORQUE IRON ROUGHNECK TORQUE TESTING (IRTT)

The IRTT is used to regularly verify the torque output of an Iron Roughneck. This ensures that torque output is accurate, and reduces damage to rotary shoulder connections during make-up. Regular verification can prevent down time, equipment failure, and extend the service life of your drill pipe.

TOTAL RIG SOLUTIONS™

- ACCURATE VERIFICATION, WITHOUT CALCULATIONS OR ALGORITHMIC INTERACTION. REAL-TIME CALIBRATED TORQUE OUTPUT



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PROTORQUETECH.COM



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SPECIFICATIONS

- **FULL-SCALE TORQUE CAPACITY:** 65,000 – 150,000 ft/lbs (88,000 – 203,000 Nm)
- **PIPE DIAMETER:** 6.63 – 9.5” (168.2 – 241.3 mm)
- **GRIP LENGTH:** 9.25 – 12.75” (235 – 323.9 mm)
- **ERROR TOLERANCE:** 1% (±)
- **SAFE OVERLOAD:** 110 (%FS)
- **MATERIAL:** 17 – 4 PH Stainless Steel
- **WEIGHT:** 150 – 250 lbs (70 – 115 kg) dependant on torque range
- **IRTT LENGTH:** 30 – 32” (762 – 812.8 mm)

CONSEQUENCES OF INCORRECT MAKE-UP TORQUE:

1 in 20 wells experience a “back-off” or “twist-off” event due to improper connection make-up

The average cost is \$400,000 per event

73% of Iron Roughnecks under torque drill pipe connections

Over ranging the torque of a connection can cause stretching of threads and damage to seal areas

1 in 6 Iron Roughnecks are out of calibration by 15% or more

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