

# IRTT

## IRON ROUGHNECK TORQUE TESTER

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Regular torque calibrations\* of an Iron Roughneck can prevent down time, equipment failure and extend drill pipe service life.

#### CONSEQUENCES OF INCORRECT MAKEUP TORQUE

- 1 in 20 wells experience a "back-off" or "twist-off" event.
- The average cost is \$400,000 per event.
- 73% of Iron Roughnecks under torque drill pipe connections.
- 1 in 6 Iron Roughnecks are out of calibration by 15% or more.

A variety of factors can cause an Iron Roughneck to apply errant torque: mistaken system settings, jaw alignment issues, temperature variations, or plumbing leaks. And it is possible for any of these factors to go undetected by simple pressure checks or other indirect diagnostics.



There is one way to ensure an Iron Roughneck is delivering correct make-up torque to your connections:

Directly measure the torque being applied from within its jaws.

#### CONCLUSION

Since a direct (not derived or estimated) torque measurement is captured by the IRTT, it removes additional calculations, correlations or guesswork. The IRTT directly measures the make-up torque that is being delivered to your joint connections. Measurements captured by the IRTT allows an operator to adjust the Iron Roughneck set point to maximize the accuracy of the make-up torque delivered.