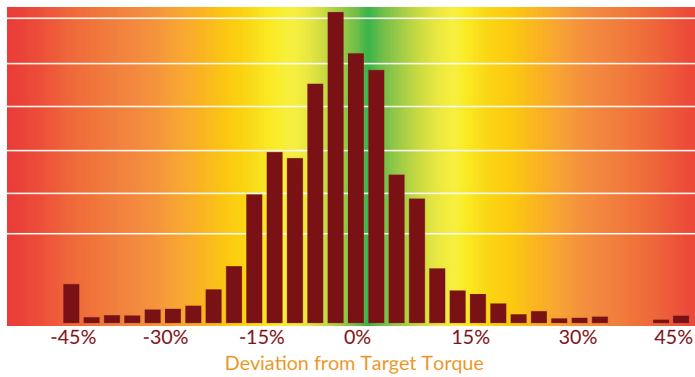


WHEN AN IRON ROUGHNECK DELIVERS INCORRECT MAKE-UP TORQUE THE CONSEQUENCES



IRTT IRON ROUGHNECK TORQUE TESTER

The distribution of over 2000 tests



Such variations and error is indicative of a process that is out of control. 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 insure an Iron Roughneck is delivering correct make-up torque to your connections: Directly measure the torque being applied from within its jaws.



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IRTT

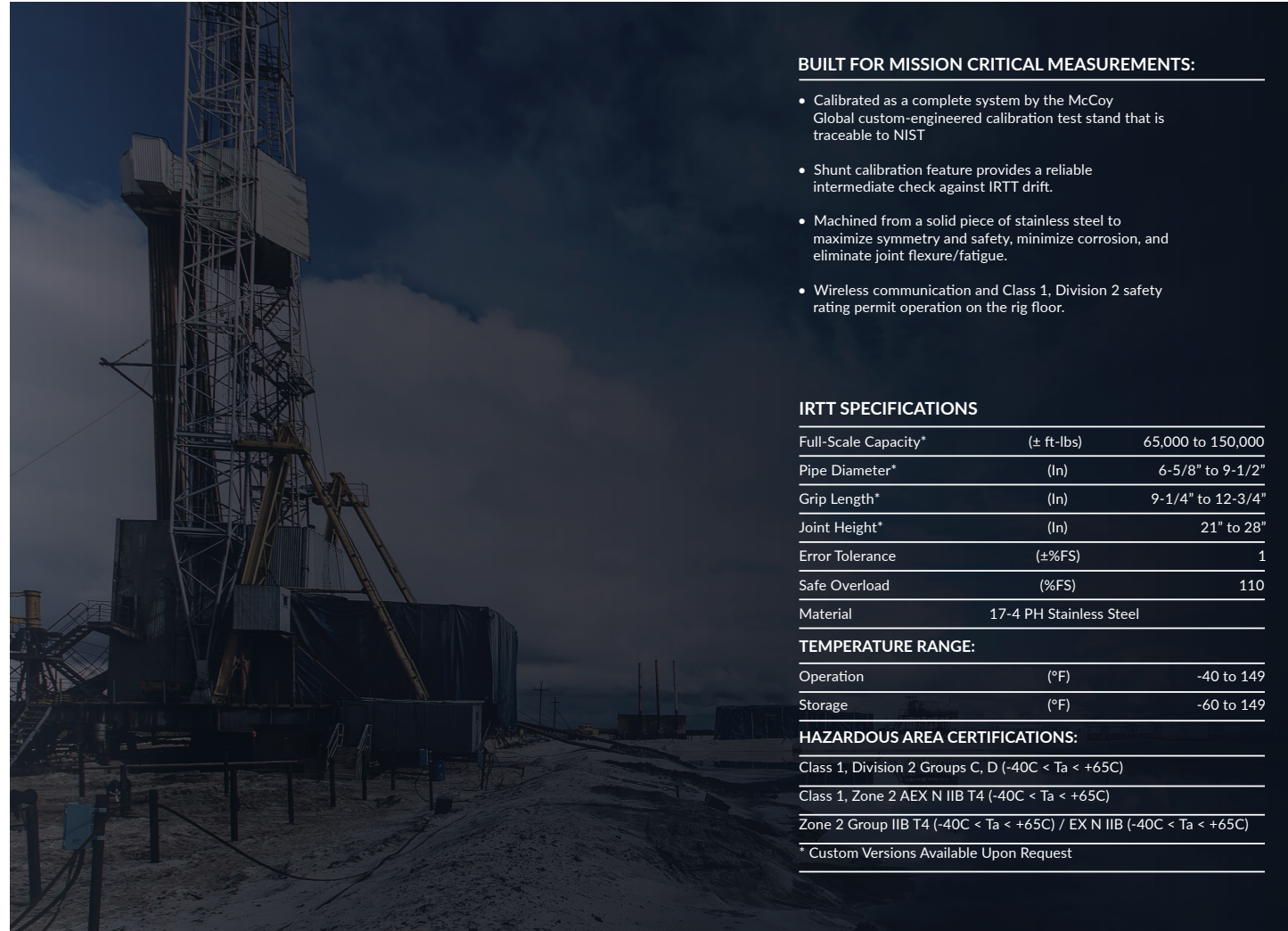
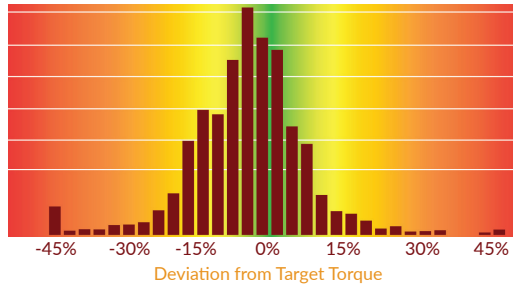
IRON ROUGHNECK TORQUE TESTER

The IRTT is a calibrated torque gauge that is engineered to emulate the specific geometric and material properties of your joints. This likeness allows the IRTT to measure the torque delivered by an Iron Roughneck in situ: the IRTT is placed within the jaws and is loaded just like a joint connection.

Since a direct (not derived or estimated) torque measurement is captured by the IRTT, it removes additional calculations, correlations or guess work. 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.

THE DISTRIBUTION OF OVER 2000 TESTS



BUILT FOR MISSION CRITICAL MEASUREMENTS:

- Calibrated as a complete system by the McCoy Global custom-engineered calibration test stand that is traceable to NIST
- Shunt calibration feature provides a reliable intermediate check against IRTT drift.
- Machined from a solid piece of stainless steel to maximize symmetry and safety, minimize corrosion, and eliminate joint flexure/fatigue.
- Wireless communication and Class 1, Division 2 safety rating permit operation on the rig floor.

IRTT SPECIFICATIONS

Full-Scale Capacity*	(± ft-lbs)	65,000 to 150,000
Pipe Diameter*	(In)	6-5/8" to 9-1/2"
Grip Length*	(In)	9-1/4" to 12-3/4"
Joint Height*	(In)	21" to 28"
Error Tolerance	(±%FS)	1
Safe Overload	(%FS)	110
Material	17-4 PH Stainless Steel	

TEMPERATURE RANGE:

Operation	(°F)	-40 to 149
Storage	(°F)	-60 to 149

HAZARDOUS AREA CERTIFICATIONS:

Class 1, Division 2 Groups C, D (-40C < Ta < +65C)	
Class 1, Zone 2 AEX N IIB T4 (-40C < Ta < +65C)	
Zone 2 Group IIB T4 (-40C < Ta < +65C) / EX N IIB (-40C < Ta < +65C)	

* Custom Versions Available Upon Request