

PROCESS SERVICES | INTEGRITY MANAGEMENT

Bolt torquing and tensioning

Meet project schedules and control costs

APPLICATIONS

- Hydraulic torque tightening
- Hydraulic tensioning
- Flange spreading
- Nut splitting
- Ultra-sonic bolting monitoring

FEATURES

- First-class safety record
- Onsite calibration
- Tension capacity: 1"–3.5" diameter, including metric equivalent
- Full range of hydraulic and hand torque wrenches, including low-profile and square-drive heads

BENEFITS

- Safely accelerates time to mechanical completion
- Piece of mind leak free start-up
- Works directly with testing operations to bring schedule efficiencies
- Reduced work force due to highly-qualified, multi-disciplined personnel



Overview

Bolting is a specialist skill and only technicians trained and competent in the use of bolt tightening equipment, who have completed a recognized competence assessment program, shall carry out the controlled breakout and tightening of bolted joints.

Utilizing the safest and most advanced equipment in the industry, tooling is selected for its high cycle performance, compact design, light weight frame and durability which have been proven to be robust and reliable.

Integrity management software is embedded with specifically developed engineering calculation tools ensure the correct equipment and pressure requirement to achieve the necessary residual bolt stress and gasket compression are identified.

Hydraulic torque tightening

Using the most advanced, reliable, light weight, high strength torque tools available, a wrench is applied to the nut either directly or in conjunction with an impact socket ensuring an accurate bolt load is achieved using hydraulic power.

Hydraulic tensioning

Hydraulically tensioning or “stretching” the stud bolt to a pre-defined limit is the fastest most accurate method of controlled bolt tightening. This enables a direct load to be applied evenly across all bolts and is not dependent on the type of lubrication used by eliminating the effect of friction between the nut and the threads.

Flange spreading

Over time, flange material conditions can deteriorate making it difficult to carry out repairs due to being unable to separate flange faces. The spreader tool helps to expand and separate problem flanges by working into the gaps using a hydraulic-jacking system until they are released, allowing for access and remedial work to be completed.

Nut splitting

A range of nut splitting equipment has been selected by our expert technicians with a primary focus on safety and eliminates the need for any high risk hot work activities including grinding or flame cutting. Heavy duty blades are triple edged, providing tool longevity resulting in equipment that is proven and reliable, enabling safe and efficient removal during disassembly.

Ultrasonic bolt monitoring

Bolt meter easily and accurately measure the elongation produced by tightening a threaded fastener from 1/2 inch to 8 feet in length. Using ultrasonic measurement, a bolt meter can accurately measure bolt elongation, load, and stress percentage strain.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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