

Nabors Torque Rings

Nabors MTT & MLT Rings are specially designed to enhance the torque capacity of various API connections, including LTC, Buttress, STC, and EUE. They are engineered to fit seamlessly with standard API casing and tubing connections and are an efficient way to upgrade connections while minimizing lead time.

Benefits

- Mechanical shoulder provides enhanced torque capacity
- Improved flow as the ring creates smoother transitions preventing collar washout
- Cost effective alternative to premium connections

Available Sizes

- Available Sizes 2 3/8 inches to 20 inches
- Nabors torque rings are identified based on OD of pipe, weight of the casing/tubing, grade of the steel, and are color coded to identify the ring height needed for casing

Ease of Installation

- Torque rings can be installed at the pipe yard or rig site to enhance operational convenience
- Installation requires no special tools with MTT
- Torque rings offer the flexibility of quick installation providing contingency decision-making capabilities to adapt to evolving well conditions

API Round and Buttress Thread with MTT & MLT Rings refers to the Connection Makeup Formula below. The MTT & MLT® ring significantly boosts torque capacity to round and buttress thread connections. The total torque capacity is determined as follows:

$$\text{Torque Shoulder} + \text{Delta Torque} = \text{Torque Total}$$

Example: 7-5/8" 29.7 lb/ft Multi Thread Torque (MTT) Ring

Torque Ring Type	Casing Grade	Ring I.D.	Torque Without Ring	Delta Torque	Total Torque
MTT	L-80	6.875"	7,630 ft/lb	17,310 ft/lb	24,940 ft/lb
MLT	L-80	6.875"	7,630 ft/lb	17,310 ft/lb	24,940 ft/lb



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MLT and MTT Rings provide a positive make-up shoulder when installed in standard API Round and Buttress threaded and coupled connections. The Multi-lobe ring shape and OD surface finish hold rings firmly in place during transporting, handling, and running casing.

Applications

Casing Running

- Improves cementing operations and allows rotation of casing and liners without thread damage. This is particularly effective when used on problem wellbores with top drive and casing drive system (CDS).
- Positive torque shoulder increases torque capacity of API threads in drilling. Highest torque performance is achieved with API Buttress threads.

Tubing Production & Work Strings

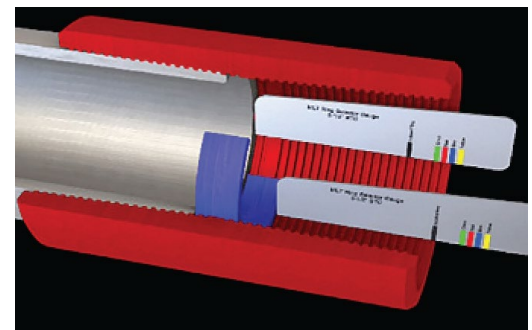
- Reduce rethreading costs. Torque shoulder prevents over make-up (surface and downhole) while extending thread and seal life by controlling coupling and pin stresses.
- Higher connection torques eliminate the need for progressive cavity pump anchors in production tubing strings and reduce connection back-off.

Installation of MLT Rings is Fast & Easy

Streamlined Torque Ring Installation with MTT and MLT Options

Our torque rings offer two efficient installation methods to suit your project needs:

- **MTT Threaded Rings:** These rings feature a threaded design for a **fast and simple installation process**, minimizing downtime. They can be securely tightened using a dedicated tool, ensuring a **reliable and consistent fit**.
- **MLT Hydraulically Pressed Rings:** For applications demanding the **highest holding power**, MLT rings utilize a hydraulic press for installation. This method of installation also ensures the ring is concentric to the ID of the tubing, creating a smooth passthrough of plugs and tools through the connection.



MLT Ring selection is made simply with a tool inserted into the end of the coupling.

Choose the right torque ring and installation method for optimal performance and efficiency in your project.