

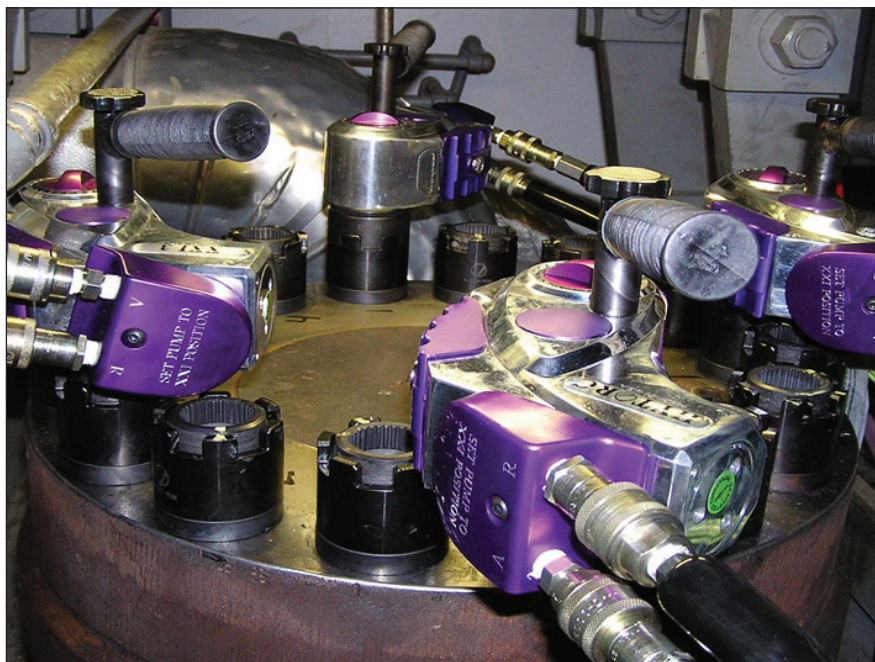
*The World's Most Trusted Industrial Torque and Tension Systems*

# HYTORC NUT™

## Mechanical Tensioner



- Cures any bolting headache – Guaranteed!
- Works with a simple adapter for your HYTORC tools
- No side clearance necessary
- Eliminates the need for bolt elongation measurement
- Available for all temperature applications and all thread forms
- Eliminates back up wrenches and dangerous reaction members
- In use on many critical applications from Nuclear Reactors to Turbines
- Precision straight-pull tensioning with calibrated bolt load accuracy of +/- 5%
- Achieve maximum bolt load with less than 10K psi
- No bolt relaxation or hand torquing guarantees even and accurate bolt load across all bolts



**24 Hour SERVICE**

**877-GO-JETD**

**[www.jetd.com](http://www.jetd.com)**

**JETD®**  
CORPORATION

120 WESLEY ST., SO. HACKENSACK NJ 07606

## The HYTORC NUT™ is a perfect solution for limited radius applications.

Applications set into a pocket or a counter bore situation pose a problem with conventional tooling. Standard drive extensions and machined down accessories compromise the safety of the operator!

The design and the mechanics of the HYTORC Nut™ allows for simple positioning of the torque wrench on all jobs.

### 4 TYPES OF HYTORC NUT™

The HYTORC NUT™ is the highest level of bolting optimization. It provides all of the benefits of the HYTORC Washer™ for applications where there is little or no side clearance. By replacing the nut with one that turns in itself at a known friction, with no side load or torsion, bolt stretching to the desired bolt load has become reality. For all critical applications and the ultimate in peace of mind!

CN-PRIMARY REPLACEMENT NUT



The CN line offers users the speed of regular torque with unmatched repeatability and precision.

TN-COMPACT STYLE REPLACEMENT NUT



TN Series Clamps combine durability, efficiency & the ability to fit in tight spaces.

SN-LTD. OVERHEAD CLEARANCE NUT



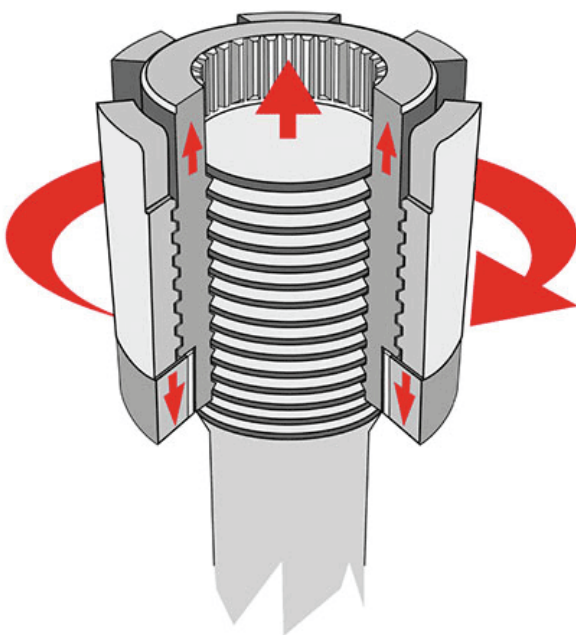
The SN Series clamp line covers a wide range of sizes and applications, specified to overcome tight overhead restrictions.

SS-HIGH TEMP/HIGH LOAD NUT



The Smart Stud's compact geometry makes it a suitable replacement for any fastener regardless of load or temperature.

## The HYTORC NUT™ is a three (3) piece fastener that will directly replace any type of helical nut.



- The inner sleeve is connected to the bolt end and is held stationary by the HYTORC machine during operation.
- The outer sleeve which turns on the washer face is connected to the inner sleeve by an acme thread (ASME/ANSI B1.5) providing a higher turning friction to the inner sleeve and washer than the outer sleeve.
- When the action force of the HYTORC machine is applied to the outer sleeve and its opposite reaction force to the inner sleeve, the outer sleeve turns at a known coefficient of friction on precision machined surfaces.
- This results in the inner sleeve (and the bolt) rising in a torsion-free, pure axial motion applying pre-calibrated tension to the bolt.
- The hardened washer remains stationary during the entire operation eliminating facial galling.
- Pure, mechanical bolt tension is provided hands free (even on inverted applications) without the use of bridges, pullers or jack screws and without relying on bolt relaxation to seat the nut!
- The HYTORC NUT™ is rated for temperatures up to 1,000°F (537°C)
- The HYTORC NUT™ is available for any bolt size (imperial/metric), any thread configuration and upon request, is available in specialty materials to suite the application and environmental conditions
- Install The HYTORC NUT™, set the pump pressure, place the tool and simply push a button on the remote control to achieve unprecedented bolt load accuracy to + 5%... guaranteed!