

BOLTIGHT HYDRAULIC BOLT TENSIONING

TIGHTEN BOLTS SIMULTANEOUSLY TO ENSURE EVEN PRELOAD







BEYOND POSSIBLE

In the world of heavy industry, where large machines and equipment build and shape our world — details matter. No one should ever have to question the integrity of critical bolted connections.

As a global leader in hydraulic bolt tensioning, Boltight is strengthening public and industrial infrastructures that shape modern living.

Since 2001, Boltight has developed a deep understanding of hydraulic bolt tensioning and the markets we serve. We work hard to deploy the latest technology and advanced bolt tensioning solutions that permanently eliminate the risk of loose or over tightened bolts.

Every day, we embrace our customers' challenging and unique technical requirements. We understand that every application is different and some specifications have simply never been seen before. This is where we excel. If no tool exists that fits your application, we will create one from scratch.

DESIGNED FOR CRITICAL APPLICATIONS

WHAT'S YOUR TOUGHEST CHALLENGE?

Safety and performance are priorities on industrial sites everywhere, whether it is an offshore wind farm or onshore oil refinery. As bolts increase in size, the load critically increases, and operators are faced with the challenge of ensuring bolt load accuracy. When tightening a bolt by any method, the operator is aiming to achieve the correct bolt elongation. Due to friction, this can be difficult or even impossible to accurately control when using traditional torque methods.

Using high pressure hydraulics and a predetermined pressure, Boltight hydraulic bolt tensioners axially stretch the bolt. The nut is then rotated down the joint face, accurately locking in the bolt load.



WHEN ACCURACY IS ESSENTIAL

Boltight hydraulic bolt tensioning tools are used extensively across many industrial applications where bolt load accuracy is critical.

Hydraulic bolt tensioning – simple!

As a bolt is stretched, the nut will lift clear of the flange. An access window in the tensioner bridge allows the nut to be turned down to the joint surface with little or no friction. When the hydraulic pressure is released, the stretch in the bolt (the clamping force) is retained.

Easy to use

Whatever the task, Boltight tensioners make on site bolting jobs safer, faster and more efficient.

Quality and environmental certification

We incorporate the latest technology and safety features into our designs. Our business is also LRQA certified for quality and environmental assurance to ISO 9001:2015.



- 1 Hydraulic oil flows into load cell
- 2 Load generated by load cell is transferred into the puller
- 3 Puller transfers the load directly into the bolt
- 4 The nut lifts clear of the flange surface due to bolt stretch
- 5 The socket is used to turn the nut down, retaining the load



THE RIGHT TOOL FOR ANY CHALLENGE

IF WE DON'T HAVE IT, WE'LL MAKE IT — FAST

Our solutions have been at the forefront of the hydraulic bolt tensioning business for many years. Working together with our customers, we have continuously developed new ways to deliver cost-effective solutions for numerous industrial bolting applications. Today, we offer a comprehensive range of standard and bespoke bolt tensioning tools.





STANDARD BOLT TENSIONER

Fits all standard oil and gas flanges and can be used on most topside applications. Our standard model features interchangeable adaptor kits and is always in stock, ready for dispatch.



SPRING RETURN TENSIONER

Featuring a spring-assisted piston function, the TSR fits all standard oil and gas flanges and can be used on most topside applications. This tensioner also has interchangeable adaptor kits available from stock.



XTRA LOAD RANGE

The Xtra load range fits all Norsok compact oil and gas flanges catering to higher loads and reduced space restrictions.



SUBSEA TENSIONER

Designed for subsea applications this two piece tensioner focuses on speed and ease of installation, offering a choice of split or solid reaction nuts. A plated surface finish offers enhanced corrosion resistance.



TYPHOON TENSIONER

A compact tensioner perfect for high load and tight access applications, typically on wind turbines. Available as multi stage or a single stage version, it is hard wearing and ensures maximum cyclic life.



FOUNDATION TENSIONER

Perfect for wind turbine foundation bolts, these long stroke spring assisted tensioners come with optional cycle counter.



MULTI-STUD TENSIONER

With speed and accuracy in mind, MST's require fewer hoses and connections than single tensioners to tension all bolts simultaneously.





HYDRAULIC NUTS

Available as collar or shim type, our hydraulic nuts offer a permanent and maintenance free replacement to standard nuts. Ideal for equipment subjected to high vibration or load.



HYDRAULIC CLOSURE SYSTEMS

Typically used on gas and steam turbine casings, drastically reducing downtime required for clearance checks. Systems available for many OEM turbines.



ROTOR TOOLING

An ideal solution for critical bolts on turbine rotors, we have a large database of toolsets for many OEM's. New requirements can be designed and manufactured quickly.



CASING TOOLS

Complementing our closure systems and rotor tooling, our casing tools are used for final tightening operations. They can be custom manufactured for new or existing turbines.



ENGINE TOOL SETS

For the installation and maintenance of gas and diesel engines, tool sets are available for various OEM engines, including MWM-Deutz, Cummins and Jenbacher. Tools can also be designed for any diesel or gas engine.



ECHOMETER & ECHOMETER+

Compact and portable, our ultrasonic measurement systems quickly and accurately measures bolt elongation and load.



ANCILLARY EQUIPMENT

A range of pumps are available, including electric, air driven and hand pumps in multiple gauge options. Hoses are available with a choice of connector configurations.

THE RIGHT TOOL FOR YOU EVERY TIME

Our customers are at the centre of everything we do. With over 20-years of bolt tensioning experience, we have the expertise to help you solve any challenge. We work closely with you to determine the best solution, whether it is from our standard range, or a special tool designed to meet your exact needs.

Special tools fit for purpose

For many applications, the best approach is to adapt one of our existing designs to your specification. Simple modifications are turned around quickly and economically. Where a complete customer solution is required, we will design and manufacture tools specific to your application.

Certified repairs and refurbishment

Our in-house technicians can provide a complete tool repair and refurbishment service that covers hydraulic bolt tensioners and ancillary equipment.

Training and support

Boltight technicians will help you get the most from your equipment and ensure operatives are trained to use our systems safely and correctly.



EXPERTISE IS THE BOLTIGHT DIFFERENCE



THE WORLD'S TOUGHEST WORKING ENVIRONMENTS

WE'LL WORK THERE WITH YOU

Our equipment is used all over the world, from the deepest subsea situations to power stations, bridges and wind turbines. No matter where you are or what you are working on, we will be there to help you ensure safer, more efficient operations.



POWER GENERATION

We design and manufacture tooling for all sectors of the power generation industry. Whether it is construction of new plants and equipment or routine maintenance programs, our tooling is widely used.

For bolts on pipes or pumps, valves and engines – Boltight has the solution.



WIND

Our wind industry equipment is tried and tested as a reliable tensioning solution for critical joints on offshore and onshore wind turbines and associated structures.

The superior quality of Boltight products ensures continued performance throughout high cycle usage, without the need for frequent maintenance and repair.

Engineered for many applications on OEM turbines, our tools are incredibly popular with construction and installation contractors, and inspection and maintenance providers around the world.





OIL & GAS

Boltight tools are used extensively throughout the oil and gas industry, where reliable and accurate bolt tightening is critical to operational efficiency. We are at the forefront of developing solutions to optimize bolt tightening during construction and maintenance operations, offering both standard and special tools. Working closely with our customers, we have developed a deep understanding of their requirements and the requirements of the industry.

Our standard bolt tensioners and Xtra load bolt tensioners are used both onshore and offshore on pipeline flanges, compact flanges, heat exchangers, cranes, pumps, valves, and other critical bolting applications.

SUBSEA

We have worked closely with the subsea market for many years and continuously develop solutions to meet the ever changing challenges.

We understand that the fast turnaround and reliability of our tensioners is vital to saving time and controlling operating costs.

Used onshore and offshore, our standard equipment supports construction and maintenance projects and specialist diving companies.

Deeper waters often require custom designed solutions, which can be integrated into ROV equipment and emergency repair systems.





OTHER INDUSTRIES

Boltight tools are used extensively across many industrial sectors — in fact, anywhere that critical bolting requires accurate and reliable tightening. Whatever the requirement, we promise a cost effective solution.

Robust designs combine ease of use with reliable performance and low maintenance. Boltight is proud to continue our tradition of providing outstanding customer service.

SAFEGUARDING HUMAN LIVES AND CUSTOMER INVESTMENTS

NORD-LOCK GROUP

In 1982, Nord-Lock developed the original wedge-locking technology that secures bolted joints. Since then, the company has grown to include a range of cutting-edge bolting technologies that together, provide the most comprehensive bolting solutions on the market.

Owned by Swedish investment group Latour, Nord-Lock Group is a global partner for all industries. We are present in 65 countries, with six production plants and six technical facilities around the world.

Nord-Lock Group is on a mission to make the world a safer place and help our customers go beyond what's possible. With a unique combination of bolting expertise and a comprehensive product range, we will provide you with the best solution for your bolting challenge.

NORD-LOCK

Creator of the original wedge-locking washer technology and global leader in industrial washer solutions.

SUPERBOLT

Inventor of the patented Superbolt multi-jackbolt tensioners, designed to eliminate unsafe bolting methods.

BOLTIGHT

Pioneer in innovative hydraulic bolt tensioning, specializing in extreme environments.

Expander

Leader in pivot pin technology, on a mission to end lug wear on industrial sites everywhere.



65+
COUNTRIES

25+
OFFICES
WORLDWIDE

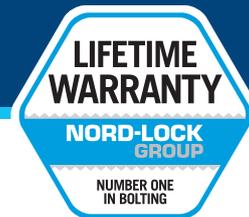
500+
EMPLOYEES

6
PRODUCTION
PLANTS

6
TECHNICAL
CENTERS

WHEN SAFETY REALLY MATTERS

Over 20-years of advancing and perfecting our hydraulic bolt tensioning technology has cultivated our expertise in bolting. As global leaders, we are up to any challenge. We will do anything in our power to help you eliminate breakdowns, control downtime and ensure safety for your entire team.



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GROUP