



**Creative and Imaginative
Bolt Tensioning Products**



BOLTIGHT[®]
HYDRAULIC BOLT TENSIONING

BOLTIGHT

Designed with the benefit of 30 years experience to meet the demands of today's global industrial requirements, Boltight tools are technically advanced and extremely cost effective.

- Technically Advanced
- Creative Design Concepts
- Unrivalled Experience
- Uncompromising Safety
- Global reputation
- Ultimate Product Quality
- Total Reliability
- Professional Excellence

Key markets include oil refineries and chemical plants, offshore (both topside and sub sea), power generation for steam, gas, nuclear, hydro, wind and wave energy, bridges, marine, steel manufacturing and all heavy engineering industries.

Boltight Tools

Boltight tools will handle the vast majority of bolt tightening work. Benefiting from state of the art design concepts and incorporating the latest technology composite material seals, the Boltight tools will operate quickly and safely to achieve high residual bolt stresses. Equipment working at pressures above 1000 bar are CE marked and conform to the requirements of the European Equipment Directive.

- Standard Range
- Customised Designs
- Sub Sea Tools
- Hydraulic Nuts
- High Temperature Hydraulic Nuts
- Lightweight
- Advanced Seal Technology
- Cost Effective
- CE Marked



Wind Turbine Tool

1500 bar Tools

The Boltight 1500 bar range was created to provide the optimum balance of lightweight tooling with high load capacity.

Designed

for long life operation, these tools are ideal for fast, accurate and reliable bolt tensioning of standard flanges on many types of plants including oil, gas, petrochemical, offshore, etc...

Available on quick delivery, these tools are cost effective and easy to use.



Standard Bolt Tensioners

1000 bar Tools

The 1000 bar tooling was introduced in the late 1970's and has today been largely replaced by the 1500 bar range. However, Boltight offer the option of a 1000 bar range to customers who are committed to their ongoing use.

The 1000 bar range provides the same technical benefits as all the Boltight tooling and are compatible with flange geometries and bolt load requirements.

2500 bar Tooling

Boltight offer special and custom designed tooling using 2500 bar hydraulic operating pressure for space restricted applications requiring high loads. The equipment uses ultra high pressure pumps, hoses and quick release connections for fast, accurate and reliable performance.

Hydraulic Nuts

Custom designs and standard models to

replace regular hexagon nuts and remain in place. Designs available with upper, lower and shim type load

retaining features, hydraulic nuts are ideally suited for presses, mining equipment, and other ambient temperature applications.



Hydraulic Nuts



HydraNut High Temperature Hydraulic Nut

The HydraNut designed with metallic seals for service temperatures exceeding 530 degrees C, replace conventional nuts and remain in place during plant operation. Ideally suited for gas turbines, nuclear service, heat exchangers, valves, pumps, wherever heat is a consideration, the HydraNut is the solution.



HydraNut

Special Tool Features

Boltight will design and manufacture hydraulic bolt tensioning tools to solve your bolt tightening problem. Features such as **automated piston return** and **positive stop**, **captive sockets**, **double deck pistons**, and **gear driven nut rotation** can be designed into the tools.

Sub Sea Tooling

The Boltight Sub Sea range of bolt tensioners are designed with the diver in mind to achieve fast and effective bolt tensioning of sub sea flanges and clamps. The tools feature long stroke pistons and incorporate the option of quick acting or regular reaction nuts. The complete tool package, available on quick delivery, includes air driven pump, interconnecting hoses and quick connectors, and downline located on an easy to use hose reel and stand.



Sub Sea Tool

Seals

Boltight tools use the latest technology composite material seals. They are low friction and self energising, click into position with no adjustment, exhibit high wear resistance, are self lubricating and have a long life. The design of the seals has minimised the effort required to retract the pistons. Seals can be made to any size enabling Boltight to custom build products to meet the exact requirements of the application.

Piston Stroke Indicator

Boltight tools have red piston stroke indicators which are highly visible when the tool has reached the design stroke. Exceeding the piston stroke will cause oil to escape safely into the centre of the Boltight tool.

Pumps and Hoses

A selection of air driven and hand operated hydraulic pumps, hoses and components to operate the bolt tensioning tools are readily available from stock. The extremely reliable and cost effective air driven pumps are supplied in a tubular steel carrying frame and are uniquely identified for calibration purposes. The multi spiral steel reinforced hoses are fitted with self sealing quick connectors and are uniquely identified. All Boltight pumps and hoses are pressure tested and issued with test certification before despatch.

Echometer, Bolt Extension Measurement

The Echometer ultrasonic monitoring equipment provides quick, accurate, and reliable bolt extension measurement. Suitable for customer use,



Echometer

it provides freedom to monitor and check the bolt extension during tensioning and on subsequent occasions.

Comprehensive Operating Manual

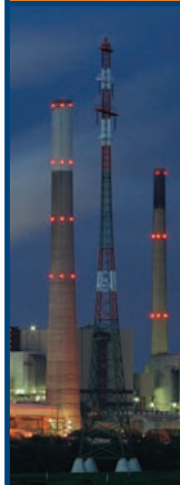
Boltight provide a comprehensive operating manual with each order. The manual features graphically illustrated health and safety procedures for the correct use and maintenance of the equipment.

Product Development and Testing

Boltight use high pressure cyclical fatigue testing for product development and testing. The company operates a continuous product development and improvement policy to ensure optimised customer benefit and to keep Boltight at the forefront of bolt tensioning technology.

Thread Protection Caps

Boltight thread protection caps provide simple, easy and effective protection of exposed bolt threads. The caps are available in a variety of materials and designs, and are suitable for both metric and imperial thread forms.



Oil and Gas Industry

- Offshore
- Topside
- Sub sea
- Refineries
- Petrochemical
- Gas processing

Power Generation Industry

- Steam
- Gas
- Nuclear
- Hydro
- Wind
- Wave

Engineering

- Bridges
- Quarrying
- Mining
- Structures
- Pumps
- Valves
- Tunnelling
- Presses
- Heavy machines
- Marine

Product Summary:

- Hydraulic bolt tensioners
- Hydraulic nuts
- Sub sea tools
- HydraNut for high temperature
- Special tool designs
- Pumps and hoses
- Thread protection caps



- Ultrasonic bolt elongation measurement
- Gas turbine rotor bolt tensioners
 - Steam and gas turbine tools
- Turbine casing closure system
 - Tool refurbishment
 - Studbolts
 - Special bolting

Website: www.boltight.com

Advanced Bolt Tensioning Technology Products

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