

Market Segments

Boltight hydraulic tensioning tools are in use worldwide, from the high performance standard tooling ranges to the uniquely designed, specialised systems engineered specifically to suit market and application requirements.

Oil and Gas Industry

Boltight standard, spring return and Xtra load bolt tensioners are used both onshore and offshore on pipeline flanges, heat exchangers, cranes, pumps, valves, and many other critical bolting applications. The Boltight Echometer provides a fast and highly accurate method for monitoring bolt elongation, load or stress, using the latest ultrasonic technology. Boltight subsea tensioning tooling is frequently utilised on pipeline flanges, risers, valves, clamps, and various other deep-sea applications.

Power Generation Industry

Boltight solutions are designed and manufactured for all sectors of the power generation industry. Boltight bolt tensioning systems are frequently utilised for critical bolting operations during construction and maintenance of turbine casings, piping, pumps and valves. There are specially designed kits available for gas turbine casing bolting, and for fast and uniform tensioning of rotor through bolts. For steam turbine tops on : tops off operations, Boltight offer a versatile Hydraulic Closure System designed to rapidly accelerate outages and minimise down-time. Boltight tools are used on wind turbine bolting applications, from foundation and tower bolting to blade, nacelle and hub/gearbox bolting. Specialised pressure vessel single tools as well as MST flange tensioners are supplied for nuclear reactor and generator bolting. Specialised bolt tensioners are also available for the hydro sector, where the requirements for fast and safe tightening are no less exacting.



Industrial

Boltight tools are used extensively across many industry sectors – in fact anywhere that critical bolting requires accurate and reliable tightening. Typical construction applications include cable-banding, bridges, tunnels and foundation bolting.

The tensioners Boltight provides are also used extensively on gas / diesel engines, presses, pumps, valves, and even marine applications. They are particularly suitable for vibration affected installations such as cutting and crushing machines and steel rolling mills.

Oil and gas industry

Offshore • Topside • Subsea • Refineries
Petrochemical • Gas

Power generation industry

Steam • Gas • Diesel • Nuclear • Wind • Hydro

Industrial

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

More product information at:
www.boltight.com



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HYDRAULIC TENSIONING

Specialist Design Advanced Technology



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BOLTIGHT™

Boltight Hydraulic Tensioning

Boltight solutions have been at the forefront of the hydraulic tensioning business for many years. By working in partnership with customers, new ways to deliver cost-effective solutions for numerous industrial bolting applications have been developed with Boltight. The tensioning tools feature advanced technology and are built to the highest standards. Boltight hydraulic tensioning tools are lightweight, compact and easy to use, with an inherent focus on safe operation and product quality.

Advanced Technology

Boltight hydraulic tensioning tools are engineered to accomplish the vast majority of bolt tightening work. Benefiting from state-of-the-art design concepts and incorporating the latest materials and composite sealing technologies, the tools operate quickly and safely to achieve high and accurate residual bolt stresses.

Product Development and Testing

Continuous product development and improvement ensure that Boltight remains at the forefront of hydraulic tensioning technology, whilst guaranteeing that the tools always satisfy customers' needs. High pressure cyclical fatigue testing and Finite Element Analysis are frequently used during the product development and testing phases.



The Products

Boltight hydraulic tensioning systems consist of a wide range of standard and bespoke bolt tensioning tools and ancillary equipment. Many items are immediately available from stock, and Boltight's rapid production capability ensures unparalleled delivery on speciality tooling systems.

- Hydraulic bolt tensioners
- Spring return bolt tensioners
- Xtra load bolt tensioners
- Hydraulic nuts
- Subsea bolt tensioners
- Subsea flange pullers
- MST flange tensioners
- Bolt tensioners for gas turbine rotors
- Bolt tensioners for gas turbine casings
- Hydraulic closure system for steam turbines
- Nut splitters
- Hydraulic pumps and hoses
- Echometer U/T bolt elongation monitoring
- Thread protection covers
- Equipment service and certification



Optional Tool Features

- Automated piston return
- Positive piston stop
- Single and multi-stage cylinders
- Gear driven nut rotation
- Piston stroke indicator



Seals

- Low friction and self energising
- Click into position
- High wear resistance
- Self lubricating and long life
- Easy piston retraction

Custom built products – special designs can be engineered to any size or specification to meet the exact requirements of the application.

Key Features and Benefits

All hydraulic systems and tooling engineered by Boltight are built to exacting safety standards.

- Strong and robust designs ensure durability and long operating life
- Lightweight designs ensure tools are easy to work with
- Precise engineering offers smooth, trouble free operation
- Composite material seals for easy piston retraction
- All tensioner equipment conforms to European Pressure Equipment Directive and is CE marked

