Hi-Force®
HYDRAULIC TOOLS



Hi-Force Bolting Solutions

- Bespoke Mobile On-Site Storage Containers for Bolting Tools
- Bespoke Mobile On-Site Storage Containers for ECITB Approved MJI Training
- Fully Equipped Mobile Workshop for Tool Servicing during On-Site Bolting activities
- BOLTRIGHT PRO Bolt Load Calculation Software and Project Flange Management Software



A leaking bolted joint can have catastrophic consequences for people, environment, assets and reputation.

Hi-Force worldwide on-site bolting services division provides bespoke and comprehensive solutions to ensure leak free joints, first time, every time during construction, commissioning and shutdown turnaround activities including:

Full Technical Support and Pre-Start Up On-Site Bolting Surveys
Comprehensive Work Scope Review and detailed Tooling Specification
Fast delivery of Bespoke Non-Standard Bolting Tools where required
BoltRight Pro Mechanical Joint Integrity (MJI) Calculation Software
Complete Project Flange Management Software with "Real Time" updates
Bespoke On-Site Tool Storage and Tool Maintenance & Service Containers
ECITB Approved MJI Training of Contractors Bolting Technicians delivered on site
Qualified and Experienced On-Site Trainers, Supervisors & Bolting Technicians

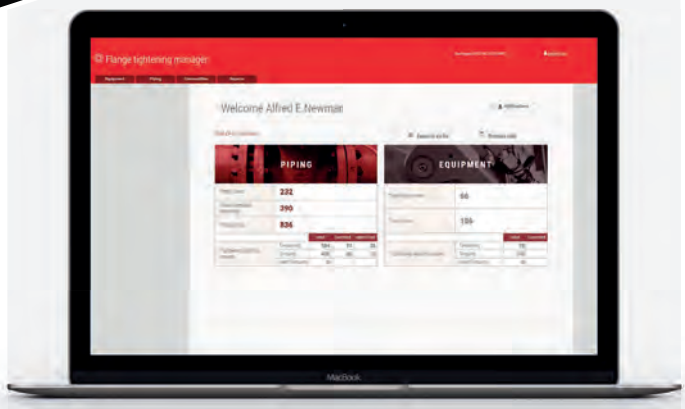
Hi-Force On-Site Bolting Services: A Leak Free Joint First Time, Every Time!!

ECITB Mechanical Joint Integrity (MJI) Training Courses

Hi-Force offers a comprehensive portfolio of training courses including the world renowned ECITB Mechanical Joint Integrity (MJI) training courses.

- » Independently approved by the ECITB UK
- » Includes manual & hydraulic torque wrenches (MJI10 &19)
- » Includes hydraulic stud bolt tensioning (MJI18)
- » Mixture of theory & practical "hands on" training
- » Work based assignments required on completion of training course
- » Online Technical Test (TMJI) requires completion by each delegate within 12 months
- » Individual Certificate awarded and valid for 3 years, after passing the Technical Test (TMJI)
- » Ideally suited for everyone involved in on-site bolting activities

ECITB MJI Training Courses are limited, to four delegates, per class and can be delivered at all Hi-Force approved locations worldwide and on site, subject to prior approval of the available on-site training facilities.



Flange Manager Software

Hi-Force "Flange Manager" software is designed to assist clients to optimise "bolted joint integrity management" and reduce operational costs, for both existing plant turnarounds and new plant construction projects. The database is cloud based, easily accessible via password controlled access and enables the user to manage all the required processes applicable to mechanical joints, along with full asset management control of both "Equipment" and "Piping" applications.

- ✓ Restricted user access ensures accurate and up to date data input of the work progress
- ✓ Authorised users can view current, up to date status of all the piping and equipment assets
- ✓ View and review all isometric drawings of the piping and equipment assets
- ✓ Check up to date work completion report status joint by joint
- ✓ Ensures best available quality, working practices and safety are maintained to industry standards
- ✓ Customer satisfaction from initial site survey to project completion and beyond

BOLTRIGHTPRO

Hi-Force's answer to joint integrity

BOLTRIGHT PRO is an innovative bolted joint integrity software programme, designed to assist engineers, with the provision of accurate bolt load calculations, based on key joint input data. Unlike other software BOLTRIGHT PRO includes gasket and flange stress, as well as bolt stress within its calculation engine.

MAIN FEATURES OF BOLTRIGHT PRO:

- ✓ Calculates for both torque and tension applications
- ✓ Includes flange, gasket & bolt stresses within every calculation
- ✓ Extensive library of bolt, flange and gasket materials
- ✓ Wide selection of lubricants for accurate friction calculations
- ✓ User can input known working temperature of the joint
- ✓ Ability to alter all input data as required where necessary
- ✓ Fully traceable to International Industry Standards
- ✓ Specifies the most suitable Hi-Force bolting tool for the job
- ✓ Bolt tightening procedures produced for each and every joint



Hi-Force Bolting Solution Products



Torque Tools

Comprehensive range of manual, pneumatic and hydraulic torque tools and accessories, including hand torque wrenches and torque multipliers, pneumatic torque multipliers and hydraulic torque wrenches available in both standard square drive and low profile hexagon drive options. Range covers maximum torque outputs from 100 Nm to 48181Nm.



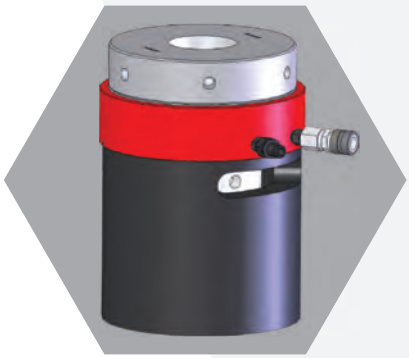
Bolt Tensioners

Hydraulic stud bolt tensioner range includes spring assisted and load return topside bolt tensioners and user friendly subsea bolt tensioners. Range covers standard bolt sizes up to 4" (100 mm) with bespoke, non-standard, higher capacity bolt tensioners available to special order on fast delivery times.



Nut Splitters and Flange Spreaders

Wide range of mechanical and hydraulic flange spreaders and hydraulic nut splitters available to complement our extensive bolting tools range.



Customised & Special Design Bolt Tensioners

Customised and special design hydraulic bolt tensioners operating at working pressures up to 2275 bar, can be supplied with short lead time to meet the customer's specific project requirements.

Request a free copy of our latest product catalogue, from your nearest Hi-Force Regional Office or Authorised Distributor.

EC ITB

afaq ISO 9001 ISO 14001 Quality Environment

Bolt it right first time, every time with Hi-Force Bolting Solutions!

www.hi-force.com