



CHRISTIE

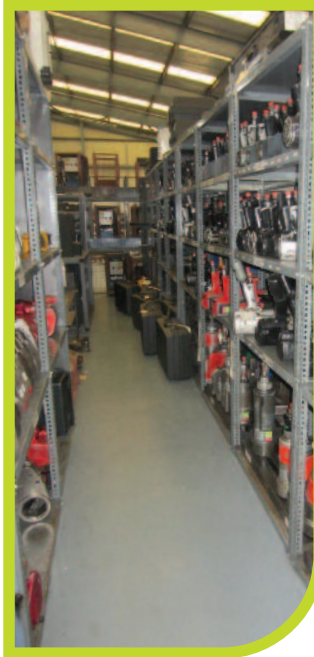
TOTAL TORQUE SOLUTIONS



W. Christie Services



Hire Service



The right tooling when needed

W. Christie's extensive hire range includes:

- **Pneumatic Torque Tools**
- **Hydraulic Torque Tools**
- **Power Packs & Pumps**
- **Electric & Battery Torque Tools**
- **Test Equipment**
- **Rams & Jacks**
- **Nut Splitters & Flange Spreaders**
- **Manual Torque Tools & Multipliers**
- **Tensioners**
- **Sockets**

For full details of the product range and the service delivery please visit our website.

Tool Maintenance & Calibration

Properly maintained tools for accuracy and safety



CALIBRATION

Calibration of manual, pneumatic, hydraulic, electric and electronic torque tools (traceable to UKAS laboratories).

SERVICE

Scheduled servicing of torque tools and bolting equipment.

REPAIR

Full repair and maintenance service of torque tools and bolting equipment.



Understanding bolting and ensuring the correct use of tools

Training

Training in torque tightening, bolt load and relevant tooling, including:

- **Understanding why fasteners fail**
- **Relationship between applied torque and achieved load**
- **The effect of lubrication**
- **Bolting concepts and technology**
- **Bolting terminology**
- **Tool selection**

- **Safe use of tooling with reference to POWER Regulations and use of Personal Protective Equipment**

Training is on-site or at our dedicated workshop and training room by qualified personnel in accordance with ISO 9001, using both practical and theoretical methods.

Get it right with our expert advice

Experienced W. Christie personnel will visit your site to:

- **Discuss**
- **Assess**
- **Recommend**

...the most appropriate solution for your specific bolting or engineering application.



Site Assessment

W. Christie site assessment service

No two applications are the same



Bespoke Engineering

Experienced in designing bespoke engineering solutions for both end users and manufacturers in a wide range of industries, W. Christie provide Total Engineered Solutions - meaning you only have to deal with one company during the complete project cycle and thereafter. W. Christie will:

- **Assess the problem**
- **Propose a solution**
- **Design appropriate tooling/equipment**
- **Manufacture in-house**
- **Finish, test and document**
- **Ensure suitability for purpose**

W. Christie are not restricted to specific engineering disciplines or industries, and work closely with clients from concept through to supply.

Visit the Bespoke Engineering Section of our website for project examples.



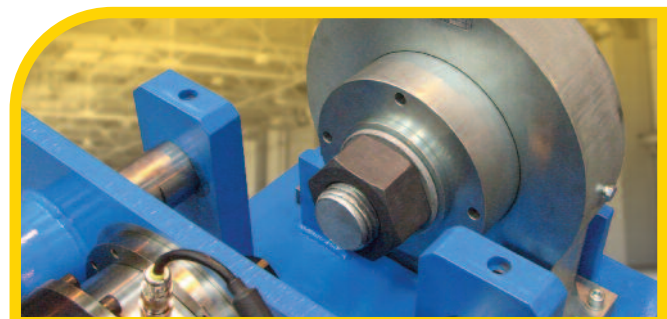
W. Christie bespoke engineering

Avoiding bolt failure

Incorrect or inaccurately applied torque can lead to:

- **Joint separation**
- **Joint slippage**
- **Flange leakage**
- **Structural instability**
- **Structural failure**
- **Vibration**

For peace of mind and confidence in your bolting applications, W. Christie's Bolt Testing Service uses a Windows® managed test facility to give you the information to apply the correct torque to your particular application.



Bolt Testing

W. Christie bolt testing service

Order **FREE** the latest
Engineers Friend
Booklet and **Poster**



CHRISTIE
 TOTAL TORQUE SOLUTIONS

Visit www.wchristie.com
 or call **01709 550088**

To **download our brochures** visit our website
www.wchristie.com and click **brochures/tech.data**

Alternatively printed versions can be
 requested via our website or by
 contacting us on **01709 550088**



W. CHRISTIE (INDUSTRIAL) LTD,
 Christie House, Meadowbank Road, Rotherham, South Yorkshire, S61 2NF UK
Tel: +44(0)1709 550088 **Fax: +44(0)1709 550030**
Email: info@wchristie.com **Visit: www.wchristie.com**

No statement or data within this literature is warranted or guaranteed to be accurate.

REGISTERED OFFICE:
 UNIT F7, FESTIVAL BUSINESS CENTRE, 150 BRAND STREET, GLASGOW, G51 1DH, SCOTLAND
 Tel: +44(0)141 427 9801 • Fax: +44(0)141 427 9802 • Email: WCHRISTIEGLW@BTCONNECT.COM
 REGISTRATION NO: SC 035247

