

# TORQUE TOOLS



Designed & Built  
in Britain.

The Power of Precision

formerly **TORQUELEADER**

EDITION 2

# The Power of Precision

Welcome to our 2017 catalogue. It contains information about the world's most advanced range of torque tools, produced in the UK by Gedore Torque (formerly Torqueleader).

For the past 80 years, the world's most sophisticated engineering, manufacturing and technology businesses have depended upon our products to build, maintain and repair some of the most amazing things on earth. We are confident that this catalogue will maintain that tradition.

## **When accuracy and consistency really matter**

Engineering and manufacturing businesses depend upon the accurate measurement and application of torque to nuts, bolts and threaded fasteners. Adherence to the correct torque specification ensures process conformity, product quality, product safety and reliability.

That's why when accuracy and consistency really matter, our customers choose Gedore Torque products. You'll find our tools in industries such as aerospace, aviation, automotive and telecommunications, being used in environments including production, quality control, research & development and servicing.

## **A commitment to excellence, innovation and customer service**

With distributors and customers in more than 51 countries, we are a global business. And as part of the Gedore Group, the world's largest group of tool specialists, our new name reflects the world-class standards to which we operate.

While our name has changed, our commitment to excellence, innovation and customer service remains the same. From our base in the UK, Gedore Torque will continue to design and manufacture a comprehensive range of industry-leading torque tools, delivering the accuracy and reliability our customers need, as well as first-class advice, service and technical support.

If we can help you to benefit from the power of precision, please get in touch.

BT Tower 'A unique feat of engineering' \*

*When the BT Tower opened in 1966, it was the tallest building in London. Since then, telecommunications has been one of Gedore Torque's most important industry sectors.*

\* Gavin Patterson, BT CEO

Front cover 'An extraordinary tale of engineering imagination.'\*

*When Airbus built the A380, the world's largest passenger aircraft, they chose Gedore Torque tools to ensure absolute precision. \* The Guardian newspaper*

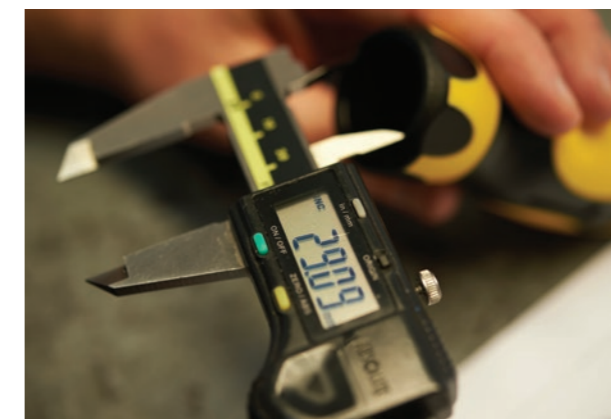


### A place for precision

For the past 80 years, all our torque tools have been designed and manufactured at our United Kingdom site, located 35 miles outside London.

Gedore Torque has built upon our proud engineering traditions and highly-skilled workforce with a multi-million pound investment in the most up-to-date manufacturing technology. Every tool is still assembled by hand, ready to provide years of accurate, reliable service.

We are within easy reach of our customers and distributors, close to the UK's motorway network, London airports and the Channel tunnel and ports. London Heathrow Airport is 30 miles away, London Gatwick Airport 35 miles and Dover 95 miles.



### Everything in one location

Our 28,000 square feet site has been at the forefront of UK torque tool design and manufacture since 1937. Today, the same location is home to the world's most advanced and fully-integrated torque tool manufacturing facility.

Every aspect of our business is based here: Research & Development, Procurement, Manufacture, Assembly and Despatch. Our UKAS Calibration Laboratory ensures absolute accuracy, while our sales, marketing and customer service teams ensure that customers are always at the heart of our business.

Most importantly, the expertise and skills of our 70-strong team are always focused on the needs of our customers for increasingly efficient, innovative and reliable ways of measuring, applying and calibrating torque.

Everything we do conforms to exacting standards, both internal and external, including ISO and UKAS accreditations for our on site calibration laboratory. The quality of our people, process and facilities is your guarantee that our tools will deliver unsurpassed accuracy, quality and durability.

# Contents

Welcome to the world's most advanced and comprehensive range of Torque Tools, applications and services.

We are confident that these can provide the accuracy and reliability you need, for just about any torque application, in most industries.

If you require further assistance or information, please contact us, using the details below.

**Power and precision** At 200 mph, absolute accuracy and total precision really matter. We have supplied tools to every F1 racing team for more than 20 years.

## Torque Measuring Tools 8-15

Torque Screwdrivers and Wrenches that measure the level of torque that has been applied to a nut, bolt or threaded fastening. Used in Research & Development, Quality Auditing and Production Improvement.

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## Torque Multipliers 58-67

Our new Torque Multiplier product range enables each torque wrench to achieve a wider range of torque output, becoming more versatile and more productive.

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Tools that are used for the testing, calibration and recalibration of Torque Tools, to ensure accurate and consistent operation. Used in production lines for Quality Control and in Calibration Laboratories.

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Custom Tools and Tool Kits for the most exacting and specialised torque applications. Can also be supplied as Private Label, to meet user branding specifications.

## Torque Accessories 84-95

A wide range of Accessories, all compatible with our Torque Screwdrivers and Accessories. Custom accessories to meet specific application or operational needs.

## Technical Support 96-103

Unparalleled technical information, services and support. A worldwide network of factory-trained distributors. On-site Calibration Laboratory. Quality Assurance and Standards. Torque information.

## For more information:

website: [www.awp.be](http://www.awp.be)

Email [info@awp.be](mailto:info@awp.be)

Telephone +32 (0)9 232 06 78

# Torque Measuring Tools

## Introduction

Torque Measuring Tools are used in many manufacturing and engineering businesses to check, determine or apply the correct level of torque, using a dial or digital readout. They perform a crucial role in Audit, Inspection, Production, Quality Control, Research & Development and Servicing environments.

Engineering and manufacturing depend upon the accurate application of torque to nuts, bolts and fasteners. In fact, torque is essential for process conformity, product safety and total reliability: service problems and product failure can often be the result of insufficient or excessive torque. Gedore Torque Measuring Tools minimise these problems by ensuring that the correct torque settings can be applied and checked, with absolute and repeatable accuracy.

## Types of Measuring Tool

Torque Measuring Tools are available as Torque Screwdrivers or Torque Wrenches. They are fitted with a dial, or digital readout, which enables Torque to be measured as it is applied (Track mode) or when the maximum torque value has been reached (Peak mode).

## The application of Torque Measuring Tools

Torque Measuring Tools are used in many engineering, manufacturing and service environments, where adherence to the correct level of torque is essential for process conformity.

In Research & Development, Torque Measuring Tools can be used to determine what level of torque should be applied to a nut or bolt.

They can also be used in Auditing, Inspection and Quality Control in a manufacturing environment, to ensure that the correct level of torque has been applied.

Torque Measuring Tools can also be used to give absolute and repeatable accuracy in Production and Servicing, where operators may be required to tighten fasteners to various torque values.

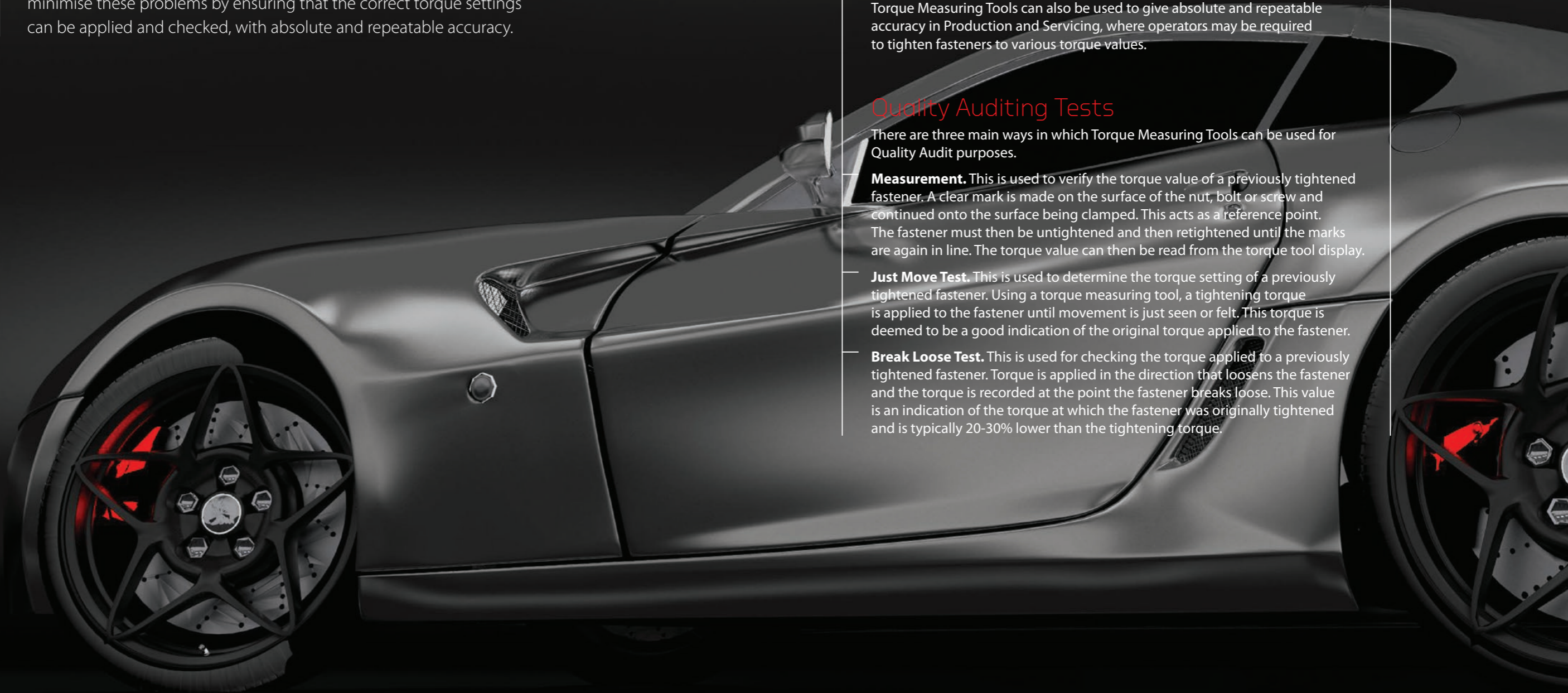
## Quality Auditing Tests

There are three main ways in which Torque Measuring Tools can be used for Quality Audit purposes.

**Measurement.** This is used to verify the torque value of a previously tightened fastener. A clear mark is made on the surface of the nut, bolt or screw and continued onto the surface being clamped. This acts as a reference point. The fastener must then be untightened and then retightened until the marks are again in line. The torque value can then be read from the torque tool display.

**Just Move Test.** This is used to determine the torque setting of a previously tightened fastener. Using a torque measuring tool, a tightening torque is applied to the fastener until movement is just seen or felt. This torque is deemed to be a good indication of the original torque applied to the fastener.

**Break Loose Test.** This is used for checking the torque applied to a previously tightened fastener. Torque is applied in the direction that loosens the fastener and the torque is recorded at the point the fastener breaks loose. This value is an indication of the torque at which the fastener was originally tightened and is typically 20-30% lower than the tightening torque.



## TT Dial Measuring Torque Screwdrivers

Torque range from 0.1 to 5 N.m

The Gedore Torque range of Dial Measuring Torque Screwdrivers is designed for torque evaluation and torque verification, in order to ensure process conformity, product safety and absolute reliability. These low cost and versatile tools provide accuracy,

reliability and economy in a wide range of Maintenance and Repair, Quality Control, Research & Development and Assembly operations in any engineering or manufacturing environment.



TT 100 FH

### INDUSTRY SECTORS

#### Maintenance & Repair



#### Quality Control



Packaging

### Versatile Torque Measuring Screwdrivers for any manufacturing environment

**Absolute accuracy.** Unique torsion bar mechanism to ensure total precision

**Dual scale.** Dial provides efficient measurement in Metric and Imperial torque units in both directions, delivering flexibility and minimising tool investment

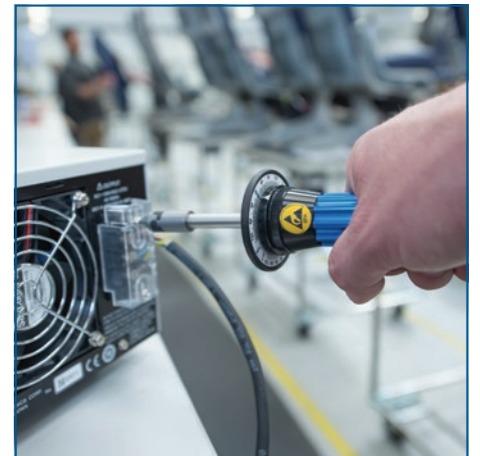
**Ease of use.** Lightweight materials. Tools can be used by operators at any skill level

**Long tool life.** High quality, robust construction: stainless steel shaft, attractive coloured aluminium handle and sturdy dial

**Measure Process Conformity.** Unique memory function enables these tools to carry out the Just Move and Break Loose Quality Auditing Tests

**No risk of tool damage.** Overload Protection System with unique positive contact mechanism

**Operational versatility.** Torque can be measured as it is applied (Track mode) or when the maximum torque value has been recorded (Peak mode)



### Additional features

Calibration Service enables tools to be kept accurate and up to date. **See page 98**

Two year warranty provides additional peace of mind

Range of accessories provides versatility. **See pages 84-95**

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
**YouTube**  
Watch our video

| Order Code | Model     | Calibrated Range |          |               |            | Drive         | k mm | g   | Accuracy | ISO 6789 Class |   |
|------------|-----------|------------------|----------|---------------|------------|---------------|------|-----|----------|----------------|---|
|            |           | ISO              | Imperial | Imperial      | Imperial   |               |      |     |          |                |   |
| 017400     | TT 50 FH  | 10-50 cN.m       | 2 cN.m   | 14-70 ozf.in  | 2 ozf.in   | $\frac{1}{8}$ | 178  | 190 | +/- 6%   | 1D             | ✓ |
| 017500     | TT 100 FH | 20-100 cN.m      | 4 cN.m   | 28-140 ozf.in | 4 ozf.in   | $\frac{1}{4}$ | 178  | 190 | +/- 6%   | 1D             | ✓ |
| 017600     | TT 250 FH | 50-250 cN.m      | 10 cN.m  | 4-20 lbf.in   | 0.5 lbf.in | $\frac{1}{2}$ | 250  | 465 | +/- 6%   | 1D             | ✓ |
| 017700     | TT 500 FH | 100-500 cN.m     | 20 cN.m  | 8-40 lbf.in   | 1 lbf.in   | $\frac{1}{2}$ | 250  | 465 | +/- 6%   | 1D             | ✓ |

# Dial

## Dial Measuring Torque Wrenches

Torque range from 0.8 to 2000 N.m

BDS 80 E



ADS 25 S



Durable storage case for ADS and BDS models

The Gedore Torque range of Dial Measuring Torque Wrenches is designed to verify or monitor torque, in order to ensure process conformity, product safety and absolute reliability. The main pointer on the dial captures the finishing torque applied to a fastener with a memory pointer. These low cost, durable and versatile tools can be used for Maintenance, Repair, Quality Control and Assembly in any engineering or manufacturing environment.



### INDUSTRY SECTORS

Maintenance & Repair



Quality Control



ADS, BDS, CDS, DDS & EDS

Signal versions available. All ADS models are EPA compliant

### Robust and versatile tools Dial Measuring Torque Wrenches

**Dual scale.** Dial provides effective measurement in Metric and Imperial torque units in both directions, delivering flexibility and minimising tool investment

**Ease of use.** Tools can be used by operators at any skill level

**Long tool life.** High quality construction and robust design with a two year warranty

**No risk of tool damage.** Overload Protection System. Recessed dial minimises damage to the dial display

**Versatile usage.** Use for Maintenance, Repair, Assembly and Quality Control

**Wide range of applications.** Tightening and untightening measurement is possible, with double-ended ratchet as standard (except EDS versions)

### Additional features

Calibration Service enables tools to be kept accurate and up to date. **See page 98**

Special extension spanners. **See page 95**

Optional audio visual signal system. Clear indication is given when the target torque has been reached

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
**YouTube**  
Watch our video

| Order Code | Model      | Calibrated Range |          |                 | Drive      | k mm | kg   | Accuracy | ISO 6789 Class | Signal | Warning |   |
|------------|------------|------------------|----------|-----------------|------------|------|------|----------|----------------|--------|---------|---|
|            |            | ISO              | Imperial | Imperial        |            |      |      |          |                |        |         |   |
| 010100     | ADS 4      | 0.8-4.0 N.m      | 0.1 N.m  | 7-35 lbf-in     | 1 lbf-in   | 1/4  | 244  | 0.52     | +/- 3%         | 1B     | X       | ✓ |
| 010108     | ADS 4 S    | 0.8-4.0 N.m      | 0.1 N.m  | 7-35 lbf-in     | 1 lbf-in   | 1/4  | 244  | 0.52     | +/- 3%         | 1B     | ✓       | ✓ |
| 010120     | ADS 8      | 1.6-8.0 N.m      | 0.25 N.m | 14-75 lbf-in    | 1 lbf-in   | 1/4  | 244  | 0.52     | +/- 3%         | 1B     | X       | ✓ |
| 010128     | ADS 8 S    | 1.6-8.0 N.m      | 0.25 N.m | 14-75 lbf-in    | 1 lbf-in   | 1/4  | 244  | 0.52     | +/- 3%         | 1B     | ✓       | ✓ |
| 010140     | ADS 12 D   | 2.4-12 N.m       | 0.5 N.m  | 24-120 lbf-in   | 2 lbf-in   | 1/4  | 244  | 0.52     | +/- 3%         | 1B     | X       | ✓ |
| 010148     | ADS 12 DS  | 2.4-12 N.m       | 0.5 N.m  | 24-120 lbf-in   | 2 lbf-in   | 1/4  | 244  | 0.52     | +/- 3%         | 1B     | ✓       | ✓ |
| 010160     | ADS 12 A   | 2.4-12 N.m       | 0.5 N.m  | 24-120 lbf-in   | 2 lbf-in   | 3/8  | 244  | 0.52     | +/- 3%         | 1B     | X       | ✓ |
| 010168     | ADS 12 AS  | 2.4-12 N.m       | 0.5 N.m  | 24-120 lbf-in   | 2 lbf-in   | 3/8  | 244  | 0.52     | +/- 3%         | 1B     | ✓       | ✓ |
| 010180     | ADS 25     | 5-25 N.m         | 1 N.m    | 48-240 lbf-in   | 10 lbf-in  | 3/8  | 244  | 0.52     | +/- 3%         | 1B     | X       | ✓ |
| 010188     | ADS 25 S   | 5-25 N.m         | 1 N.m    | 48-240 lbf-in   | 10 lbf-in  | 3/8  | 244  | 0.52     | +/- 3%         | 1B     | ✓       | ✓ |
| 010200     | ADS 25 F   | 5-25 N.m         | 1 N.m    | 4-20 lbf-ft     | 0.5 lbf-ft | 3/8  | 244  | 0.52     | +/- 3%         | 1B     | X       | ✓ |
| 010208     | ADS 25 FS  | 5-25 N.m         | 1 N.m    | 4-20 lbf-ft     | 0.5 lbf-ft | 3/8  | 244  | 0.52     | +/- 3%         | 1B     | ✓       | ✓ |
| 010220     | ADS 40     | 8-40 N.m         | 1 N.m    | 72-360 lbf-in   | 10 lbf-in  | 3/8  | 244  | 0.52     | +/- 3%         | 1B     | X       | ✓ |
| 010228     | ADS 40 S   | 8-40 N.m         | 1 N.m    | 72-360 lbf-in   | 10 lbf-in  | 3/8  | 244  | 0.52     | +/- 3%         | 1B     | ✓       | ✓ |
| 010240     | ADS 40 F   | 8-40 N.m         | 1 N.m    | 6-30 lbf-ft     | 1 lbf-ft   | 3/8  | 244  | 0.52     | +/- 3%         | 1B     | X       | ✓ |
| 010248     | ADS 40 FS  | 8-40 N.m         | 1 N.m    | 6-30 lbf-ft     | 1 lbf-ft   | 3/8  | 244  | 0.52     | +/- 3%         | 1B     | ✓       | ✓ |
| 010300     | BDS 80 A   | 16-80 N.m        | 2 N.m    | 12-60 lbf-ft    | 1 lbf-ft   | 3/8  | 435  | 1.35     | +/- 3%         | 1B     | X       | X |
| 010380     | BDS 80 AS  | 16-80 N.m        | 2 N.m    | 12-60 lbf-ft    | 1 lbf-ft   | 3/8  | 440  | 1.47     | +/- 3%         | 1B     | ✓       | X |
| 010320     | BDS 80 E   | 16-80 N.m        | 2 N.m    | 12-60 lbf-ft    | 1 lbf-ft   | 1/2  | 435  | 1.36     | +/- 3%         | 1B     | X       | X |
| 010400     | BDS 80 ES  | 16-80 N.m        | 2 N.m    | 12-60 lbf-ft    | 1 lbf-ft   | 1/2  | 440  | 1.49     | +/- 3%         | 1B     | ✓       | X |
| 010410     | BDS 100 EF | 20-100 N.m       | 2 N.m    | 14-70 lbf-ft    | 2 lbf-ft   | 1/2  | 515  | 1.41     | +/- 3%         | 1B     | X       | X |
| 010415     | BDS 100 E  | 20-100 N.m       | 2 N.m    | 168-840 lbf-in  | 24 lbf-in  | 1/2  | 515  | 1.41     | +/- 3%         | 1B     | X       | X |
| 010340     | BDS 160    | 32-160 N.m       | 2.5 N.m  | 24-120 lbf-ft   | 2 lbf-ft   | 1/2  | 515  | 1.41     | +/- 3%         | 1B     | X       | X |
| 010420     | BDS 160 S  | 32-160 N.m       | 2.5 N.m  | 24-120 lbf-ft   | 2 lbf-ft   | 1/2  | 520  | 1.54     | +/- 3%         | 1B     | ✓       | X |
| 010360     | BDS 200    | 40-200 N.m       | 5 N.m    | 30-160 lbf-ft   | 5 lbf-ft   | 1/2  | 515  | 1.41     | +/- 3%         | 1B     | X       | X |
| 010440     | BDS 200 S  | 40-200 N.m       | 5 N.m    | 30-160 lbf-ft   | 5 lbf-ft   | 1/2  | 520  | 1.54     | +/- 3%         | 1B     | ✓       | X |
| 010520     | CDS 400 S  | 80-400 N.m       | 10 N.m   | 60-300 lbf-ft   | 10 lbf-ft  | 3/4  | 710  | 3.20     | +/- 3%         | 1B     | ✓       | X |
| 010620     | DDS 800 S  | 160-800 N.m      | 20 N.m   | 120-600 lbf-ft  | 20 lbf-ft  | 3/4  | 1000 | 4.90     | +/- 3%         | 1B     | ✓       | X |
| 010700     | EDS 1400 S | 280-1400 N.m     | 25 N.m   | 200-1000 lbf-ft | 25 lbf-ft  | 1    | 2040 | 16.7     | +/- 3%         | 1B     | ✓       | X |
| 010720     | EDS 2000 S | 400-2000 N.m     | 50 N.m   | 300-1500 lbf-ft | 50 lbf-ft  | 1    | 2040 | 16.7     | +/- 3%         | 1B     | ✓       | X |

## Torcotronic Digital Torque Wrench with Angle

Torque range from 10 to 350 N.m

Torcotronic Digital Torque Wrenches provide highly accurate and controlled bi-directional tightening, suitable for Production, Quality Auditing, Research & Development, and Maintenance and Repair applications. These microprocessor-controlled tools have

built-in memory which stores data for download to analysis software. A comprehensive range of accessories ensures that these robust, versatile precision assembly tools provide accuracy across a wide range of applications.

### INDUSTRY SECTORS

#### Maintenance & Repair



Aerospace



Military



Utilities

#### Quality Control



Aerospace



Automotive



Packaging

### Robust, versatile tightening - plus data collection and auditing capability

**Accuracy.** Exceptionally high levels of accuracy of +/-1% of reading between 10% and 100% of full scale

**Bi-directional tightening.** Supplied with reversible ratchet as standard

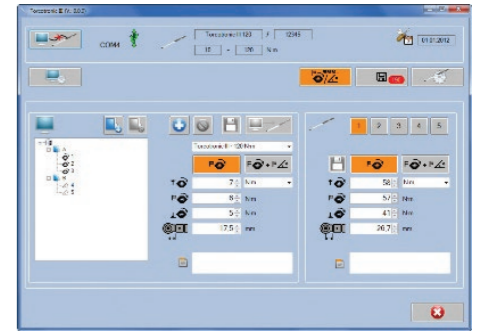
**Control.** High levels of accuracy give confidence that the tightening process is under control, hence also controlling rework and warranty costs with the added benefit of five programmable preset values

**Data collection.** The built-in memory can store 2,000 data points ready for download to analysis software. This also makes the tools faster and easier to use

**Long tool life.** High quality construction and robust design

**Process traceability.** Historic data storage and management features of easy to use PC software, available in 11 languages

**Versatility.** Tools integrate with 9x12 and 14x18 wrench fittings. Torque and angle capability ensures suitability for a broad range of applications across Production, Quality Auditing, Research & Development, and Maintenance and Repair



Software supplied as standard



Torcotronic 350 with Angle

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476

Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?



Watch our video

| Order Code | Model | ← Calibrated Range → |               | Drive | Adaptors | ↕    |      | Accuracy | ISO 6789 Class |
|------------|-------|----------------------|---------------|-------|----------|------|------|----------|----------------|
|            |       | ISO                  | Imperial      |       |          | k mm | kg   |          |                |
| 021640     | 120   | 10-120 N.m           | 7-88 lbf.ft   | 1/2   | 9x12     | 565  | 1.01 | +/- 1%   | 1C             |
| 021650     | 350   | 70-350 N.m           | 51-258 lbf.ft | 1/2   | 14x18    | 701  | 1.18 | +/- 1%   | 1C             |



# Torque Application Tools

## Introduction

Gedore Torque offers the world's most comprehensive range of Torque Application Tools.

Torque Application Tools are used to apply a set torque to a fastener. When used, Torque Applying Tools will slip, break or click to signal to the operator when the set torque is reached.

Torque Application Tools are available as both screwdrivers and wrenches, with a wide torque range, to suit all application requirements. Choose from Preset Tools, that enable the consistent application of the same level of torque, or Calibrated Scale Tools, that enable a range of different torque settings to be applied.

Screwdrivers are available in a choice of aluminium, with its lighter weight and durability, or plastic, with an ergonomic hand grip for easier operator use.

All Torque Application Tools are guaranteed to deliver the correct torque every time, with absolute accuracy.

## Types of Torque Application Tools

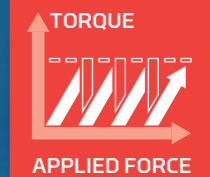
**Preset Tools.** Preset tools are ideal in environments that require the same torque to be applied to a fastener time after time. They can be used by operators of any skill level, as the level of torque applied by the tool is pre-set using a Calibration Analyser.

**Calibrated Scale Tools.** Calibrated Scale Tools are ideal for use in situations where a range of different torque settings need to be applied. These types of tools have a visible scale that allows the user to adjust them to their desired torque setting.

## The principles underlying Torque Tool Mechanisms

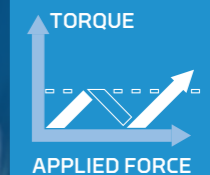
### Slipping Tools... Overtightening Impossible

When the preset torque value is reached, (as indicated by the dotted line in the graph) a mechanism in these tools cause the application of torque to cease and the tools slip free.



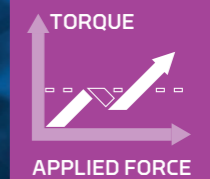
### Breaking Tools... Overtightening Unlikely

When the preset torque value is reached, (as indicated by the dotted line in the graph) these tools break at a specific point along their length. The movement is approximately 20°.



### Clicking Tools... Overtightening Possible

When the preset torque value is reached, (as indicated by the dotted line in the graph) the operator will hear and feel a click.



# TLS

## Aluminium TLS Preset Torque Screwdrivers

Torque range from 0.02 to 13.6 N.m

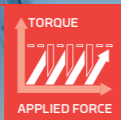
A range of compact aluminium preset torque screwdrivers, each of which delivers the correct torque accurately and repeatedly.

All tools are also available with One Way (O/W) clockwise torque and anti clockwise torque.

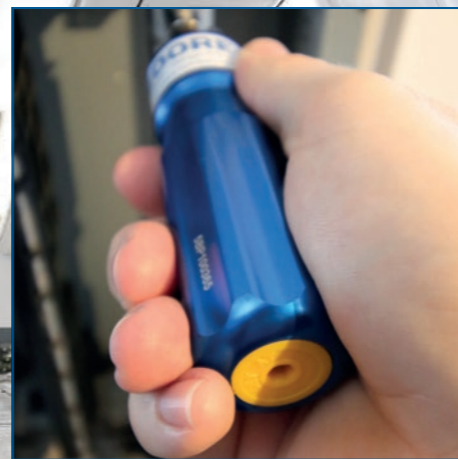
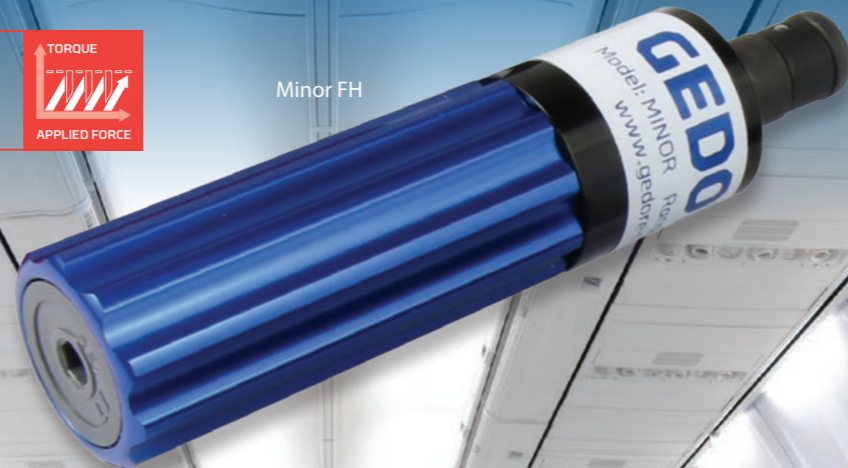
The models in this range include: TLS 0022, Minor, Standard & TLS 1360. Technical details of all models are given on pages 18-21.

These durable, versatile and lightweight tools can be used for Assembly, Maintenance and Servicing in any engineering or manufacturing environment.

Slipping Mechanism  
Incorrect tightening is impossible



Minor FH



### Lightweight, high quality TLS Preset Torque Screwdriver range

**Absolute accuracy and consistency.** Accurate process control is ensured by eliminating under and over tightening due to the proven slipping mechanism

**Ease of use.** Tools can be used by operators at any skill level, due to unique slipping mechanism

**Improved production quality.** Accurate torque application reduces the likelihood of warranty and rework

**Increased production efficiency.** Lightweight aluminium construction and smooth reset action of the tools increase production efficiency by reducing operator fatigue

**Long tool life.** High quality, robust construction

**Operational versatility.** These versatile tools are ideal for a wide range of applications, with wide torque range and one way slipping action option



Standard FH



TLS 1360 FH



### Additional features

TLS range (excluding 0022 range) supplied as standard with a quick converter adaptor to 1/4" male square drive

For more information on ESD compliant versions. **See page 25**

Comprehensive range of Accessories, Bits and Blades. **See pages 88-89**

TLS Screwdrivers can be customised to your exacting requirements. **See page 83**

TLS Screwdrivers are supplied with a pack of four interchangeable coloured end caps to allow easy identification of what tool is set to what torque value, hence making a job more efficient. (Order Code: 015999) ●●●● (not supplied with TLS 0022 screwdrivers)

### INDUSTRY SECTORS

Manufacturing



| Order Code | Model   | Range        |               | Drive | k mm | g   | Repeatability | ISO 6789 Class | Colour |  |
|------------|---|--------------|---------------|-------|------|-----|---------------|----------------|--------|--|
|            |   | ISO          | Imperial      |       |      |     |               |                |        |  |
| 015200     | Minor FH  | 14-135 cN.m  | 1.2-12 lbf.in |       | 111  | 210 | +/- 6%        | 2F             | Blue   |  |
| 015205     | Minor FH O/W  | 14-135 cN.m  | 1.2-12 lbf.in |       | 125  | 300 | +/- 6%        | 2F             | Blue   |  |
| 015600     | Standard FH   | 50-400 cN.m  | 4.4-36 lbf.in |       | 127  | 280 | +/- 6%        | 2F             | Blue   |  |
| 015605     | Standard FH O/W   | 50-400 cN.m  | 4.4-36 lbf.in |       | 127  | 300 | +/- 6%        | 2F             | Blue   |  |
| 015890     | TLS 1360 FH   | 2.5-13.6 N.m | 22-120 lbf.in |       | 137  | 325 | +/- 6%        | 2F             | Blue   |  |
| 015895     | TLS 1360 FH O/W   | 2.5-13.6 N.m | 22-120 lbf.in |       | 137  | 400 | +/- 6%        | 2F             | Blue   |  |
| 015999     | Pack of four interchangeable coloured end caps (supplied free with all TLS Screwdrivers except 0022) ●●●● |              |               |       |      |     |               |                |        |  |

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476 Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)



## Aluminium TLS Preset Torque Screwdrivers

Torque range from 0.02 to 13.6 N.m

A range of compact aluminium preset torque screwdrivers, each of which delivers the correct torque accurately and repeatedly.

The models in this range include: TLS 0022, Minor, Standard & TLS 1360. Technical details of all models are given on pages 18-21.

All tools are also available with One Way (O/W) clockwise torque and anti clockwise torque.

These durable, versatile and lightweight tools can be used for Assembly, Maintenance and Servicing in any engineering or manufacturing environment.



### Lightweight, high quality TLS Preset Torque Screwdriver range

**Absolute accuracy and consistency.** Accurate process control is ensured by eliminating under and over tightening due to the proven slipping mechanism

**Ease of use.** Tools can be used by operators at any skill level, due to unique slipping mechanism

**Improved production quality.** Accurate torque application reduces the likelihood of warranty and rework

**Increased production efficiency.** Lightweight aluminium construction and smooth reset action of the tools increase production efficiency by reducing operator fatigue

**Long tool life.** High quality, robust construction

**Operational versatility.** These versatile tools are ideal for a wide range of applications, with wide torque range and one way slipping action option



**Slipping Mechanism**  
Incorrect tightening is impossible



TLS 0022 MICRO

TLS 0022 FH

### Additional features

For more information on ESD compliant versions. **See page 25**

Comprehensive range of Accessories, Bits and Blades. **See pages 88-89**

TLS Screwdrivers can be customised to your exacting requirements. **See page 83**

| Order Code | Model             | Range     |               | Drive | k mm | g   | Repeatability | ISO 6789 Class | Colour |
|------------|-------------------|-----------|---------------|-------|------|-----|---------------|----------------|--------|
|            |                   | ISO       | Imperial      |       |      |     |               |                |        |
| 015000     | TLS 0022 Micro FH | 4-22 cN.m | 5.7-32 ozf.in |       | 76   | 050 | +/- 6%        | 2F             | Blue   |
| 015080     | TLS 0022 FH       | 2-22 cN.m | 2.8-32 ozf.in |       | 104  | 072 | +/- 6%        | 2F             | Blue   |
| 015085     | TLS 0022 FH O/W   | 2-22 cN.m | 2.8-32 ozf.in |       | 116  | 085 | +/- 6%        | 2F             | Blue   |

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)



# Pro

## Pro Preset Torque Screwdrivers

Torque range from 0.05 to 13.5 N.m

The Redefined Preset Torque Screwdriver range has been designed to complement our traditional accuracy, durability and quality with the benefits of a moulded plastic body and enhanced ergonomic design.

The models in this range include: ESD, Prime and Pro. Technical details of all models are given on pages 25-27.

These durable, versatile and lightweight tools can be used for Assembly, Maintenance and Servicing in any engineering or manufacturing environment.

Slipping Mechanism  
Incorrect tightening is impossible



### INDUSTRY SECTORS

Manufacturing



### The Redefined Preset Torque Screwdriver range

**Absolute accuracy and consistency.** Accurate process control is ensured by eliminating under and over tightening due to the proven slipping mechanism

**Ease of use.** Tools can be used by operators at any skill level, due to unique slipping mechanism

**Improved production quality.** Accurate torque application reduces the likelihood of warranty and rework

**Increased production efficiency.** Dual formed moulded ergonomic handgrip is more suited to certain production techniques and provides comfort and grip to user. The smooth tool reset action increases production efficiency by reducing operator fatigue

**Long tool life.** High quality, robust construction. Many years of dependable service are provided by the robust design, especially if regularly calibrated

**Operational versatility.** These versatile tools are ideal for a wide range of applications, with wide torque range and one way slipping action option

To allow for customisation and clear identification interchangeable coloured end caps are available in packs of four (Order Code: 065800)



### Additional features

Calibration stickers can be easily applied to the purpose designed nose

The 1/4" female hexagon Pro range proves versatile with a quick conversion to male square 1/4" drive by using a convertor (Order Code: 029200)

For more information on EPA compliant versions. **See page 25**

Comprehensive range of Accessories, Bits and Blades. **See pages 88-89**

Pro Screwdrivers can be customised to your exacting requirements. **See page 83**

Tool presetting service. **See page 98**

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476 Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)



## Pro Preset Torque Screwdrivers

Torque range from 0.05 to 13.5 N.m

Versatile Preset Torque Application Screwdrivers for any manufacturing environment

These tools complement our traditional accuracy, durability and quality with the benefits of a moulded plastic body and enhanced ergonomic design

Durable, versatile and lightweight tools that can be used for Assembly, Maintenance and Servicing in any engineering or manufacturing environment

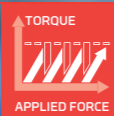
Pro 450 and 1350 models come with T-Bars as standard to assist with higher torque

To allow for customisation and clear identification interchangeable coloured end caps are available in packs of four (Order Code: 065800)



Comprehensive range of Accessories, Bits and Blades. See pages 88-89

Slipping Mechanism  
Incorrect tightening is impossible



Pro 25 & 150

Pro 450 & 1350

T-Bar

## ESD Preset Torque Screwdrivers

Torque range from 0.05 to 13.5 N.m

Preset Torque Application Screwdrivers for electronic component assembly

The ESD Preset Torque Screwdriver range is ideal for safe electronic component assembly as these tools are EPA compliant

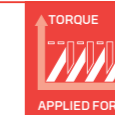
Tools that complement our traditional accuracy, durability and quality with the benefits of a moulded plastic body and enhanced ergonomic design

ESD 450 and 1350 models come with T-Bars as standard to assist with higher torque

To allow for customisation and clear identification interchangeable coloured end caps are available in packs of four (Order Code: 065800)

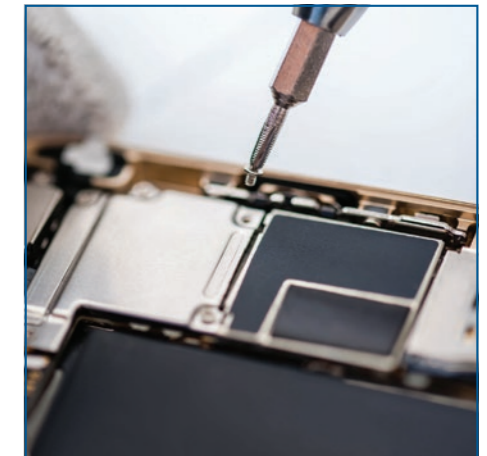


Slipping Mechanism  
Incorrect tightening is impossible



ESD 25 & 150

ESD 450 & 1350



For more information: Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
**YouTube**  
Watch our video

| Order Code | Gedore Ref   | Model       | Range           |                   | Drive         | k   | mm  | g      | Repeatability | ISO 6789 Class | T-Bar |  |
|------------|--|-------------|-----------------|-------------------|---------------|-----|-----|--------|---------------|----------------|-------|--|
|            |  |             | ISO             | Imperial          |               |     |     |        |               |                |       |  |
| 065400     | 2927756  | Pro 25 FH   | 0.05 - 0.25 N.m | 0.45 - 2.2 lbf.in | $\frac{1}{4}$ | 132 | 210 | +/- 6% | 2F            | X              | X     |  |
| 065500     | 2927764  | Pro 150 FH  | 0.2 - 1.5 N.m   | 1.8 - 13 lbf.in   | $\frac{1}{4}$ | 132 | 210 | +/- 6% | 2F            | X              | X     |  |
| 065600     | 2927772  | Pro 450 FH  | 0.5 - 4.5 N.m   | 4.5 - 40 lbf.in   | $\frac{1}{4}$ | 140 | 230 | +/- 6% | 2F            | ✓              | X     |  |
| 065700     | 2927780  | Pro 1350 FH | 2.5 - 13.5 N.m  | 22 - 120 lbf.in   | $\frac{1}{4}$ | 140 | 230 | +/- 6% | 2F            | ✓              | X     |  |
| 065405     | 2927799  | ESD 25 FH   | 0.05 - 0.25 N.m | 0.45 - 2.2 lbf.in | $\frac{1}{4}$ | 132 | 210 | +/- 6% | 2F            | X              | ✓     |  |
| 065505     | 2927802  | ESD 150 FH  | 0.2 - 1.5 N.m   | 1.8 - 13 lbf.in   | $\frac{1}{4}$ | 132 | 210 | +/- 6% | 2F            | X              | ✓     |  |
| 065605     | 2927810  | ESD 450 FH  | 0.5 - 4.5 N.m   | 4.5 - 40 lbf.in   | $\frac{1}{4}$ | 140 | 230 | +/- 6% | 2F            | ✓              | ✓     |  |
| 065705     | 2927829  | ESD 1350 FH | 2.5 - 13.5 N.m  | 22 - 120 lbf.in   | $\frac{1}{4}$ | 140 | 230 | +/- 6% | 2F            | ✓              | ✓     |  |
| 065800     | Pack of four interchangeable coloured end caps ● ● ● ● |             |                 |                   |               |     |     |        |               |                |       |  |

# Prime Preset Torque Screwdrivers

Torque range from 0.2 to 4.5 N.m

These tools have been specifically designed to provide a low cost product that is suitable for light or occasional use, or one-off applications. Can be used up to 2,000 cycles.

They have no certification and are not intended for regular or heavy use, where our Pro Preset range of preset screwdrivers should be selected.

## Low cost Preset Torque Application Screwdrivers, for one-off applications or light use

Prime Preset Torque Screwdrivers offer a low cost option for applications where a torque tool may not previously have been considered

A comprehensive range of Accessories, Bits and Blades is available.  
**See pages 88-89**

They combine accuracy with the benefits of a moulded plastic body and ergonomic design, to remove the risk of under or over tightening. As well as the application of torque, they can also undo fasteners, as One Way (O/W) action is standard



**Slipping Mechanism**  
Incorrect tightening is impossible



Prime 150



Prime 450

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
**YouTube**  
Watch our video

| Order Code | Model        | Range         |                 | Drive         | k mm | g   | Repeatability |
|------------|--------------|---------------|-----------------|---------------|------|-----|---------------|
|            |              | ISO           | Imperial        |               |      |     |               |
| 065100     | Prime 150 FH | 0.2 - 1.5 N.m | 1.8 - 13 lbf.in | $\frac{1}{4}$ | 138  | 198 | +/- 10%       |
| 065200     | Prime 450 FH | 0.5 - 4.5 N.m | 4.5 - 40 lbf.in | $\frac{1}{4}$ | 138  | 198 | +/- 10%       |

## TLS Preset Clean Room Torque Screwdrivers

Torque range from 0.04 to 13.6 N.m

Clean Room (CRS) Class 100 Compliant

Designed specifically for use in Clean Rooms, to protect precision products from contamination during assembly, utilising PTFE impregnated sealed anodised aluminium handles.

External steel components are either high grade stainless steel or coated to inhibit corrosion thereby utilising suitable surface treatments and incorporating high performance seals in their design.



### INDUSTRY SECTORS

Manufacturing



Automotive



Electronics



Military



Consumer Products

### Preset Torque Screwdrivers for Clean Rooms

Increased operator comfort from the soft reset action of the tool

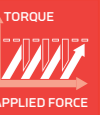
Complete control of the tightening process is achieved. Both under and over tightening are eliminated by our unique slipping mechanism

Suitable for use by operators of any skill level, as these tools will repeatedly deliver the set torque without the need for operator intervention

CRS Torque Screwdrivers are preset type torque tools. They must be set to the required value by using a Torque Analyser. **See page 78 for details**

Comprehensive range of Accessories, Bits and Blades. **See pages 88-89**

**Slipping Mechanism**  
Incorrect tightening is impossible



CRS 100-1360 FH



CRS 100-1360 comes supplied with T-bar

CRS 100-0135 FH



CRS 100-0022 FH



**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
**YouTube**  
Watch our video

| Order Code | Model           | Range        |               | Drive         | k mm | g   | Repeatability | ISO 6789 Class | Colour |
|------------|-----------------|--------------|---------------|---------------|------|-----|---------------|----------------|--------|
|            |                 | ISO          | Imperial      |               |      |     |               |                |        |
| 015089     | CRS 100-0022 FH | 2-22 cN.m    | 6-32 ozfin    | $\frac{1}{4}$ | 104  | 072 | +/- 6%        | 2F             | Grey   |
| 015209     | CRS 100-0135 FH | 14-135 cN.m  | 0.9-12 lbf/in | $\frac{1}{4}$ | 111  | 210 | +/- 6%        | 2F             | Grey   |
| 015609     | CRS 100-0406 FH | 50-400 cN.m  | 4.4-36 lbf/in | $\frac{1}{2}$ | 127  | 280 | +/- 6%        | 2F             | Grey   |
| 015939     | CRS 100-1360 FH | 2.5-13.6 N.m | 22-120 lbf/in | $\frac{1}{2}$ | 137  | 325 | +/- 6%        | 2F             | Grey   |



# ESD Electric Torque Screwdrivers

Torque range from 0.05 to 9.81 N.m

ESD Electric Torque Screwdrivers are ideal for the accurate and consistent application of torque in high volume production environments. These tools are durable,

efficient, effective and easy to use in any manufacturing business. Special features also make them suitable for the assembly of electronic and plastic products.



EF 120

K 450



HTC 35 Controller

HF Series

## INDUSTRY SECTORS

Manufacturing



Automotive



Electronics



Utilities



Consumer Products

# ESD Electric Torque Screwdrivers

EF 120, K 450 & HF Series

Electric Torque Screwdrivers, for accurate, effective and consistent torque application

**Absolute accuracy and consistency.**

**Ease of use.** The tools are easy to set up and require minimal operator training. The operator is able to work effectively and safely, as these tools are comfortable to use because of their ergonomic design. This can be further enhanced by pairing the driver with a tool weight balancer or torque reaction arm

**Electronic assembly.** Maximises the production yields of electronic assemblies as these tools protect the assembly from static shocks due to their ESD compliance

**Improved production efficiency.** Accurate torque application reduces the likelihood of rework and scrap by delivering controlled repeatable torque through features like 'slow start' mode that minimises cross threading

**Long tool life and effective production.**

These tools maximise productivity by keeping downtime to a minimum, as they are constructed from durable robust materials and designed to last

**Plastic assembly.** Ensures the quality of plastic assembly tightening by combating joint relaxation through use of the 'doublehit' repeat torque mode

Please note: These tools must be used in conjunction with a controller listed below



STC 30+ Controller

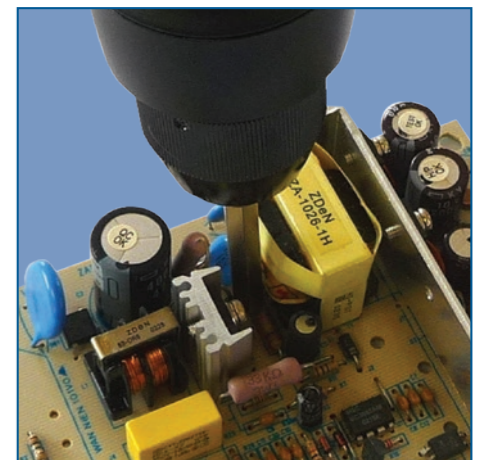
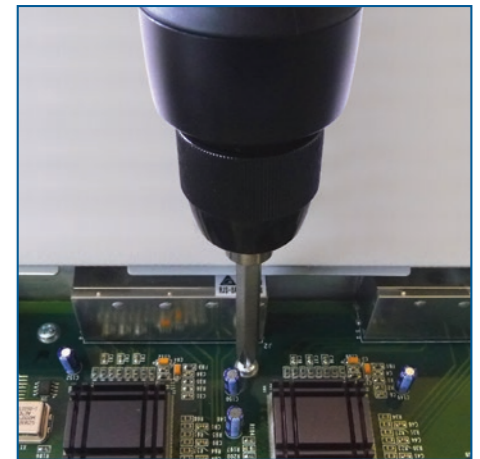
## Additional features

Details of Accessories and Power Bits. **See pages 84-95**

Set and calibrate your Screwdriver with CAPTURE Hub Torque Calibration Analyser. **For more details see page 72** or visit [www.gedore-torque.com](http://www.gedore-torque.com)

Torque counter balancer are available on request

Tamper proof cover to suit K series tools, order code: 090200. EF tools, order code: 090210



**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
**YouTube**  
Watch our video

| Order Code | Model  | Range         |                 | RPM |     | Drive | g   | ⚠ | CE | Repeatability |
|------------|--|---------------|-----------------|-----|-----|-------|-----|---|----|---------------|
|            |  | ISO           | Imperial        | Hi  | Low |       |     |   |    |               |
| 090010     | EF 120   | 0.19-1.17 N.m | 1.7-10.4 lbf-in | 700 | 460 | 1/4"  | 311 | ✓ | ✓  | +/- 10%       |
| 090150     | K 450  | 0.5-4.4 N.m   | 4.3-39 lbf-in   | 550 | 330 | 1/4"  | 595 | ✓ | ✓  | +/- 10%       |
| 090160     | HF   | 3.9-9.81 N.m  | 34.7-87 lbf-in  | 550 | 150 | 1/4"  | 810 | ✓ | ✓  | +/- 10%       |
| 090001     | HTC 35 Transformer (Compatible with HF Series)             |               |                 | -   | -   | -     | 816 | - | ✓  | +/- 10%       |
| 090000     | STC 30+ Controller (Compatible with EF 120 & K 450 Series) |               |                 | -   | -   | -     | 950 | - | ✓  | +/- 10%       |



# Ergo

## Ergo Quickset Adjustable Torque Screwdrivers

Torque range from 0.08 to 9 N.m

Ergo Quickset Adjustable Torque Screwdrivers are calibrated scale tools that can be used for the accurate and consistent application of torque in any manufacturing, engineering or servicing environment. They are EPA compliant, for safe electronic component assembly, and ergonomically designed for enhanced

operator comfort. Unique Slipping Technology ensures that the risk of over or under tightening is eliminated. Their adjustability and wide range of torque make them suitable for a broad range of applications.

QSN 120 FH



T-Bar is not included with the Ergo Quickset Screwdriver Range

QSN 600 FH

### INDUSTRY SECTORS

Maintenance & Repair



### Ergo Quickset Adjustable Torque Screwdrivers (ISO and Imperial Scales)

**Absolute accuracy and consistency.** Accurate process control is ensured by eliminating under and over tightening due to the unique Slipping Technology

**Calibrated scale.** A visible scale allows the user to adjust the tool to their desired torque setting, enabling a range of different torque settings to be applied

**Ease of use.** Tools can be used with confidence by operators at any skill level, due to unique slipping mechanism

**Easy to set up.** Fast and accurate to set, using the quick and clear to read micrometer style setting scale with unique locking feature

**Electronics.** Ideal for safe electronic component assembly as this tool is EPA compliant for use in Electrostatically Sensitive Areas

**Improved production quality.** Accurate torque application reduces the likelihood of warranty and rework

**Increased production efficiency.** Increased operator comfort and productivity, from the smooth reset action of the tool and the ergonomic handle design

**Long tool life.** High quality, robust construction. Many years of dependable service are provided by the robust design and hard-wearing materials, that include stainless steel and aluminium

**Operational versatility.** These versatile tools are ideal for a wide range of applications, due to their adjustability and wide torque range



### Additional features

Optional Lock On T-Bar for larger models of screwdriver, provides extra leverage (Order Code: P29530)

Can be supplied as part of a Service Repair Kit

Tool can be kept accurate and up to date with our Calibration service. **See page 98 for details**

### Slipping Mechanism

Incorrect tightening is impossible



**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476

Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?



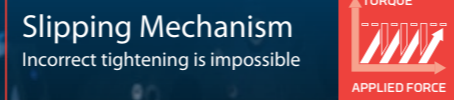
Watch our video

| Order Code    | Model      | ← Calibrated Range → |            | Drive         | k mm | g   | Repeatability | ISO 6789 Class | Adjusting Lock Colour |   |
|---------------|------------|----------------------|------------|---------------|------|-----|---------------|----------------|-----------------------|---|
|               |            | Range                | Scale      |               |      |     |               |                |                       |   |
| <b>060700</b> | QSN 40 FH  | 8-40 cN.m            | 1 cN.m     | $\frac{1}{4}$ | 159  | 124 | +/- 6%        | 2D             | Blue                  | ✓ |
| <b>060740</b> | QSA 60 FH  | 12-60 ozf.in         | 1 ozf.in   | $\frac{1}{4}$ | 159  | 124 | +/- 6%        | 2D             | Blue                  | ✓ |
| <b>060720</b> | QSA 4 FH   | 0.8-4 lbf.in         | 0.1 lbf.in | $\frac{1}{4}$ | 159  | 124 | +/- 6%        | 2D             | Blue                  | ✓ |
| <b>060100</b> | QSN 120 FH | 20-120 cN.m          | 1 cN.m     | $\frac{1}{4}$ | 183  | 230 | +/- 6%        | 2D             | Blue                  | ✓ |
| <b>060140</b> | QSA 160 FH | 20-160 ozf.in        | 1 ozf.in   | $\frac{1}{4}$ | 183  | 230 | +/- 6%        | 2D             | Blue                  | ✓ |
| <b>060120</b> | QSA 12 FH  | 2-12 lbf.in          | 0.1 lbf.in | $\frac{1}{4}$ | 183  | 230 | +/- 6%        | 2D             | Blue                  | ✓ |
| <b>060300</b> | QSN 600 FH | 1-6 N.m              | 0.1 N.m    | $\frac{1}{4}$ | 196  | 335 | +/- 6%        | 2D             | Blue                  | ✓ |
| <b>060320</b> | QSA 50 FH  | 10-50 lbf.in         | 1 lbf.in   | $\frac{1}{4}$ | 196  | 335 | +/- 6%        | 2D             | Blue                  | ✓ |
| <b>060500</b> | QSN 900 FH | 4-9 N.m              | 0.1 N.m    | $\frac{1}{4}$ | 196  | 335 | +/- 6%        | 2D             | Blue                  | ✓ |
| <b>060520</b> | QSA 80 FH  | 30-80 lbf.in         | 1 lbf.in   | $\frac{1}{4}$ | 196  | 335 | +/- 6%        | 2D             | Blue                  | ✓ |

## Quickset Adjustable Torque Screwdrivers

Torque range from 0.2 to 9 N.m

Quickset Adjustable Torque Screwdrivers are calibrated scale tools that can be used for the accurate and consistent application of torque in any manufacturing, engineering or servicing environment. Their adjustability and wide range of torque make them suitable for a broad range of applications. These tools are durable, easy to use and the unique Slipping Technology means that the risk of over or under tightening is eliminated.



### INDUSTRY SECTORS

Maintenance & Repair



### Quickset Adjustable Torque Screwdrivers (ISO and Imperial Scales)

- Absolute accuracy and consistency.** Accurate process control is ensured by eliminating under and over tightening due to the unique Slipping Technology
- Calibrated scale.** A visible scale allows the user to adjust the tool to their desired torque setting, enabling a range of different torque settings to be applied
- Ease of use.** Tools can be used with confidence by operators at any skill level, due to unique slipping mechanism
- Easy to set up.** Fast and accurate to set, using the quick and clear to read micrometer style setting scale
- Improved production quality.** Accurate torque application reduces the likelihood of warranty and rework
- Increased production efficiency.** Increased operator comfort and productivity, from the smooth reset action of the tool and the ergonomic design
- Long tool life.** High quality, robust construction. Many years of dependable service are provided by the robust design and hard-wearing materials, that include stainless steel and aluminium
- Operational versatility.** These versatile tools are ideal for a wide range of applications, due to their adjustability and wide torque range



### Additional features

- Accessories. **See pages 84-95**
- EPA compliant alternative available. **See page 32**
- Optional Lock On T-Bar for larger models of screwdriver, provides extra leverage when required. (Order Code: P29530)
- Tool can be kept accurate and up to date with our Calibration service. **See page 98 for details**

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
**YouTube**  
Watch our video

| Order Code | Model                    | ← Calibrated Range → |            | Drive | k mm | g   | Repeatability | ISO 6789 Class | Colour |
|------------|--------------------------|----------------------|------------|-------|------|-----|---------------|----------------|--------|
|            |                          | Range                | Scale      |       |      |     |               |                |        |
| 016040     | Quickset Minor Metric FH | 20-120 cN.m          | 1 cN.m     | 1/4"  | 169  | 165 | +/- 6%        | 2D             | Blue   |
| 016060     | Quickset Minor Imp FH    | 20-120 ozf.in        | 1 ozf.in   | 1/4"  | 169  | 165 | +/- 6%        | 2D             | Blue   |
| 016070     | Quickset Minor lbf.in FH | 2-12 lbf.in          | 0.1 lbf.in | 1/4"  | 169  | 165 | +/- 6%        | 2D             | Blue   |
| 016500     | Quickset 6 FH            | 1-6 N.m              | 0.1 N.m    | 1/4"  | 184  | 335 | +/- 6%        | 2D             | Blue   |
| 016600     | Quickset 50 FH           | 5-50 lbf.in          | 1 lbf.in   | 1/4"  | 184  | 335 | +/- 6%        | 2D             | Blue   |
| 016700     | Quickset 9 FH            | 4-9 N.m              | 0.1 N.m    | 1/4"  | 184  | 335 | +/- 6%        | 2D             | Blue   |
| 016800     | Quickset 80 FH           | 30-80 lbf.in         | 1 lbf.in   | 1/4"  | 184  | 335 | +/- 6%        | 2D             | Blue   |

### Dual Scale Quickset Screwdrivers Available:

| Order Code | Model             | ← Calibrated Range → |         |               |          | Drive | k mm | g   | Repeatability | ISO 6789 Class | Colour |
|------------|-------------------|----------------------|---------|---------------|----------|-------|------|-----|---------------|----------------|--------|
|            |                   | ISO                  | Scale   | Imperial      | Scale    |       |      |     |               |                |        |
| 016011     | Quickset Minor DS | 20-120 cN.m          | 1 cN.m  | 20-120 ozf.in | 1 ozf.in | 1/4"  | 160  | 158 | +/- 6%        | 2D             | Blue   |
| 016550     | Quickset 6 DS     | 1-6 N.m              | 0.1 N.m | 5-50 lbf.in   | 1 lbf.in | 1/4"  | 169  | 340 | +/- 6%        | 2D             | Blue   |

# TSN

## TSN Preset Slipping Torque Wrenches

Torque range from 1 to 125 N.m

High quality tools that have been designed and precision-engineered to meet the stringent demands of manufacturing businesses in most industries. The tools have been given a full facelift, resulting in a contemporary, high quality appearance appropriate to high technology

manufacturing lines. The unique slipping mechanism eliminates under and over tightening in Production, hence ensuring absolute precision. EPA compliant.



Slipping Mechanism

Incorrect tightening is impossible



### INDUSTRY SECTORS

Manufacturing



Automotive



Aerospace



Military



Consumer Products

## Preset Slipping Torque Wrenches

Models: TSN 5, 10, 25, 55 & 125

**Absolute accuracy and consistency.** Accurate process control is ensured by eliminating under and over tightening, regardless of operator's hand position, due to the unique Slipping Technology

**Ease of use.** Tools can be used with confidence by operators at any skill level, due to unique slipping mechanism

**Electronics.** Ideal for safe electronic component assembly as this tool is EPA compliant for use in Electrostatically Sensitive Areas. See table for details

**Improved production efficiency.** Reduces the likelihood of warranty and rework by assuring process control through accurate and repeatable torque setting due to its adjusting system

**Improved Process Control.** Process control can be further enhanced by using the Switch Operated Signal Torque versions (Sw) to confirm the correct torque has been applied to a particular fastener (see pages 42-43)

**Long tool life.** High quality, robust design and construction, further guaranteed by a two year warranty



### Additional features

Accessories. See pages 84-95

EPA compliant alternative available. See table below

For details of Sockets. See page 87 or visit [www.gedore-torque.com](http://www.gedore-torque.com)

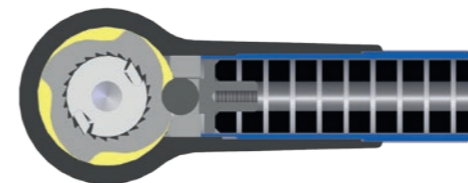
For Switch Operated Signal Torque versions (Sw). See pages 42-43

TSN Wrenches are preset type torque tools. They must be set to the required value by using a Torque Analyser like the DREMOTEST E or Capture Calibration System. See page 78 for details

TSN 25 versions come with either 1/4" or 3/8" Drive

TSN 5 & 10 use new bearing technology. The bearings are manufactured from self-lubricating polymer material, meaning that they are extremely wear resistant

**Non-slip grip.** TSN 5 & 10 utilise glass filled Nylon 66, giving non-slip grip. This means greater durability, anti-static properties and EPA compliance, for use in Electrostatically Sensitive areas.



Working principle of the Gedore Torque Slipping Wrenches

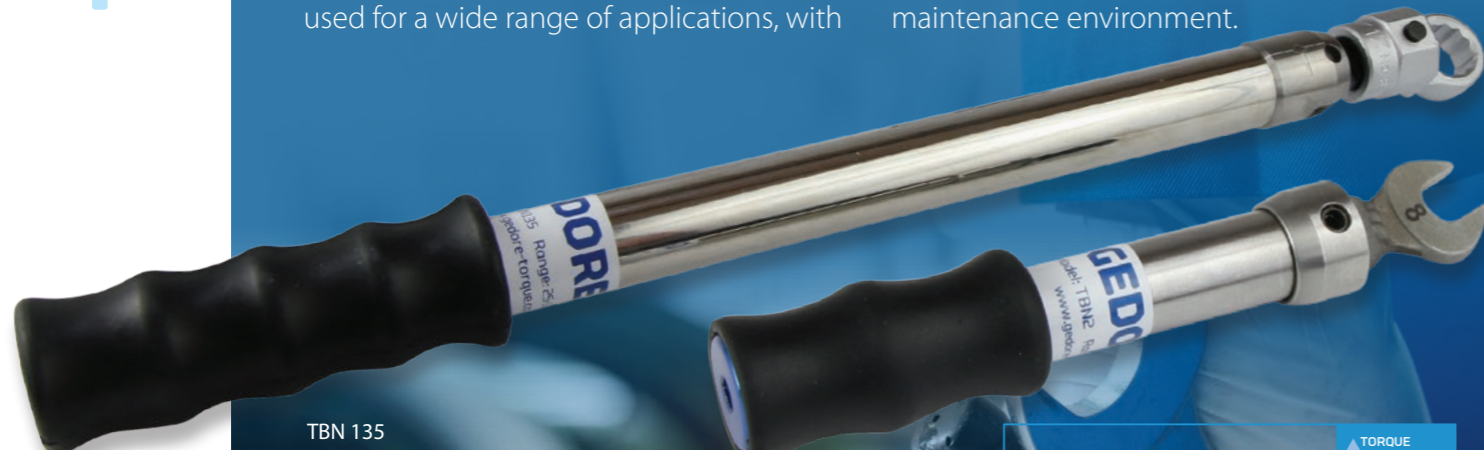
| Order Code | Model     | Range      |              | Drive  | k mm | kg   | Repeatability | ISO 6789 Class | ⚠ |
|------------|-----------|------------|--------------|--------|------|------|---------------|----------------|---|
|            |           | ISO        | Imperial     |        |      |      |               |                |   |
| 011301     | TSN 5/45  | 1-5 N.m    | 10-45 lbf.in | 1/4"   | 185  | 0.19 | +/- 6%        | 2C             | ✓ |
| 011401     | TSN 10/90 | 2-10 N.m   | 20-90 lbf.in | 1/4"   | 185  | 0.19 | +/- 6%        | 2C             | ✓ |
| 011017     | TSN 25 D  | 5-25 N.m   | 4-18 lbf.ft  | 1/2"   | 216  | 0.34 | +/- 4%        | 2C             | ✓ |
| 011019     | TSN 25 A  | 5-25 N.m   | 4-18 lbf.ft  | 3/8"   | 216  | 0.34 | +/- 4%        | 2C             | ✓ |
| 011035     | TSN 55    | 15-55 N.m  | 10-40 lbf.ft | 3/4"   | 324  | 0.80 | +/- 4%        | 2C             | ✗ |
| 011055     | TSN 125   | 40-125 N.m | 30-90 lbf.ft | 1 1/2" | 460  | 1.36 | +/- 4%        | 2C             | ✗ |

## TBN Preset Breaking Torque Wrenches

Torque range from 0.4 to 200 N.m

TBN Preset Breaking Torque Wrenches are robust production tools that reduce the chance of over-tightening, because of the unique Breaking Mechanism. They can be used for a wide range of applications, with

a choice of compatible interchangeable end fittings. Their durable yet compact design makes them easy to use in restricted spaces in any manufacturing or maintenance environment.



TBN 135

TBN 2

### Breaking Mechanism

Incorrect tightening is unlikely



### INDUSTRY SECTORS

Maintenance & Repair



Military

Manufacturing



Automotive



Aerospace



Electronics



Military



Consumer Products



## TBN Preset Breaking Torque Wrenches

TBN 2, 10, 25, 65, 135 & 200



**Improved accuracy, consistency and control.** Accurate process control is ensured by reducing the risk of under and over tightening, due to unique Breaking Technology. This gives the operator more time to react once the target torque is reached

**Compact slimline design.** This maximises productivity in restricted space applications

**Compatible End Fittings.** A range of interchangeable end fittings is available, making this an extremely versatile tool. **See pages 84-86 for details**

**Ease of use.** Tools can be used with confidence by operators at any skill level, due to the unique Breaking Technology

**Increased production efficiency.** Increased operator comfort and productivity, from the ergonomic design, that includes lightweight materials and moulded handgrip

**Long tool life.** High quality, robust design and construction minimise tool replacement and downtime costs

Rectangular fitting version also available. **See table below**

### Additional features

TBN 2 and 10 Wrenches will be supplied with a Calibration Certificate when ordered with an attached end fitting and pre-set

For EPA options, **see table below**

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?



Watch our video

| Order Code | Model     | Range      |               | Drive       | k mm | kg   | Repeatability | ISO 6789 Class | ✓ |
|------------|-----------|------------|---------------|-------------|------|------|---------------|----------------|---|
|            |           | ISO        | Imperial      |             |      |      |               |                |   |
| 011100     | TBN 2     | 0.4-2 N.m  | 3.5-18 lbf.in | Captive Pin | 105  | 0.11 | +/- 6%        | 2C             | ✓ |
| 011110     | TBN 2 G   | 0.4-2 N.m  | 3.5-18 lbf.in |             | 133  | 0.13 | +/- 6%        | 2C             | ✓ |
| 011200     | TBN 10    | 1-10 N.m   | 9-89 lbf.in   | Captive Pin | 105  | 0.13 | +/- 6%        | 2C             | ✓ |
| 011210     | TBN 10 G  | 1-10 N.m   | 9-89 lbf.in   |             | 133  | 0.15 | +/- 6%        | 2C             | ✓ |
| 050000     | TBN 25    | 5-25 N.m   | 4-18 lbf.ft   |             | 265  | 0.41 | +/- 4%        | 2C             | ✗ |
| 050010     | TBN 25 G  | 5-25 N.m   | 4-18 lbf.ft   |             | 265  | 0.41 | +/- 4%        | 2C             | ✗ |
| 050100     | TBN 65    | 10-65 N.m  | 7-48 lbf.ft   |             | 302  | 0.75 | +/- 4%        | 2C             | ✗ |
| 050110     | TBN 65 G  | 10-65 N.m  | 7-48 lbf.ft   |             | 302  | 0.75 | +/- 4%        | 2C             | ✗ |
| 050200     | TBN 135   | 27-135 N.m | 18-100 lbf.ft |             | 408  | 1.03 | +/- 4%        | 2C             | ✗ |
| 050210     | TBN 135 G | 27-135 N.m | 18-100 lbf.ft |             | 408  | 1.03 | +/- 4%        | 2C             | ✗ |
| 050300     | TBN 200   | 40-200 N.m | 29-147 lbf.ft |             | 520  | 1.40 | +/- 4%        | 2C             | ✗ |
| 050310     | TBN 200 G | 40-200 N.m | 29-147 lbf.ft |             | 520  | 1.40 | +/- 4%        | 2C             | ✗ |

## 50V Insulated Preset Torque Wrenches

Torque range from 0.4 to 25 N.m

These tools have been precision-engineered to provide absolute accuracy and user safety during electrical assembly and maintenance. Our unique breaking or slipping mechanism eliminates the risk of incorrect tightening and the compact tool design provides protection where there are electrically live components, up to 50V.

### Essential service and maintenance - with no power

Helicopters require frequent maintenance and servicing, in order to ensure continuous safe operation. Often, this work has to be carried out in remote locations, without access to power, meaning that it is not possible to use hydraulic or impact wrenches.

Gedore Torque tools provide precision torque control, making it easier and often safer to tighten and loosen threaded fasteners to the high standards critical to the performance and safety of civilian and military helicopters.



### INDUSTRY SECTORS

Manufacturing



Automotive



Utilities



Aerospace



Military



Consumer Products

## 50V insulated preset torque wrenches for electrical assembly

Torque range from 0.4 to 25 N.m

Performing business critical work accurately, easily - and safely

Many businesses, organisations and industries depend upon emergency backup power systems to provide a continuous supply of electricity in the event of the loss of mainstream power supply. Often, this is provided by banks of batteries, that need to be checked, maintained and replaced on a regular basis – including while they are in operation and therefore electrically ‘live’. Battery cells used to power all electric vehicles like the Tesla Model S or hybrids like BMW and Volkswagen all need to be maintained during their lifetime and most EV makers offer end-of-life vehicle recycling to ensure batteries and electrical parts are disposed of responsibly. Gedore Torque Insulated Torque Wrenches ensure that this essential work can be carried out accurately, easily and safely.

**Absolute accuracy and consistency.** Accurate process control is ensured by eliminating under and over tightening, due to the unique Breaking or Slipping Technology installed in the wrench

**Improved production efficiency.** Eliminates the possibility of product failure due to shorting, arcing or other electrical damage

**Ease of use.** The small and compact design combined with the totally insulated body is ideal for use in restricted space where there are electrically live components

**User safety.** Designed for use in low voltage and other battery applications where protection up to 50 volts is required. Double layer nonconductive PVC insulation provides protection against low voltage shorting

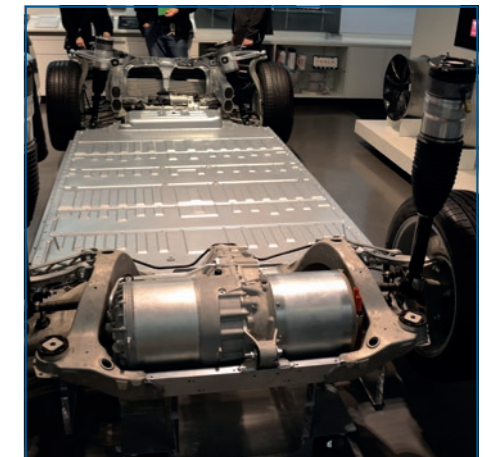
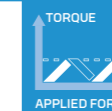
**Slipping Mechanism**  
Incorrect tightening is impossible



TBN 10 50V



**Breaking Mechanism**  
Incorrect tightening is unlikely



### Additional features

Accessories. **See pages 84-95**

These Wrenches are preset type torque tools. They must be set to the required torque value by using a Torque Analyser like the DREMOTEST E. **See page 78 for details**

Tool pre-set at point of order

Tool can be kept accurate and up to date with our Calibration service. **See page 98 for details**

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476 Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
**YouTube**  
Watch our video

| Order Code | Model        | Range     |               | Drive | k mm | kg   | Repeatability |
|------------|--------------|-----------|---------------|-------|------|------|---------------|
|            |              | ISO       | Imperial      |       |      |      |               |
| 011108     | TBN 2 50V    | 0.4-2 N.m | 3.5-18 lbf.in | 1/4   | 105  | 0.17 | +/- 6%        |
| 011208     | TBN 10 50V   | 1-10 N.m  | 9-89 lbf.in   | 1/4   | 105  | 0.17 | +/- 6%        |
| 011062     | TSN 25 D 50V | 5-25 N.m  | 4-18 lbf.ft   | 1/2   | 220  | 0.40 | +/- 4%        |
| 011072     | TSN 25 A 50V | 5-25 N.m  | 4-18 lbf.ft   | 3/8   | 220  | 0.40 | +/- 4%        |

## Switch Operated Signal Torque Wrenches

Torque range from 0.4 to 200 N.m

Switch Operated Signal Torque Wrenches are process control tools that provide absolute confidence that the correct level of torque has been applied. As well as the Slipping or Breaking Mechanism, that reduces or eliminates the risk of incorrect tightening, the tool also sends a signal each

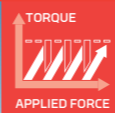
time the wrench achieves its pre-set torque value. This makes these tools suitable for production line control or to provide a counting function, as they can be connected to the customers production systems.



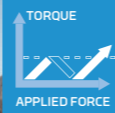
TSN 25 A Sw

TBN 25 Sw

**Slipping Mechanism**  
Incorrect tightening is impossible



**Breaking Mechanism**  
Incorrect tightening is unlikely



### INDUSTRY SECTORS

Manufacturing



Automotive



Consumer Products



Aerospace



Military



## Switch Operated Signal Torque Wrenches

Ranges: TSP, TSN & TBN

**Absolute accuracy and consistency.** Accurate process control is ensured by eliminating or reducing under and over tightening, due to the unique Slipping or Breaking Technology

**Better production control.** These wrenches confirm that the tightening process has been performed by validating that the torque wrenches have operated at a pre-set torque value. A signal is sent upon each successful activation of the wrench, that can be used to control production flow or count completed tightenings

**Cost effective.** These tools can easily be integrated into most Production Lines as the output signal is simply a switch opening and closing

**Ease of use.** Tools can be used with confidence by operators at any skill level, due to unique slipping or breaking mechanism

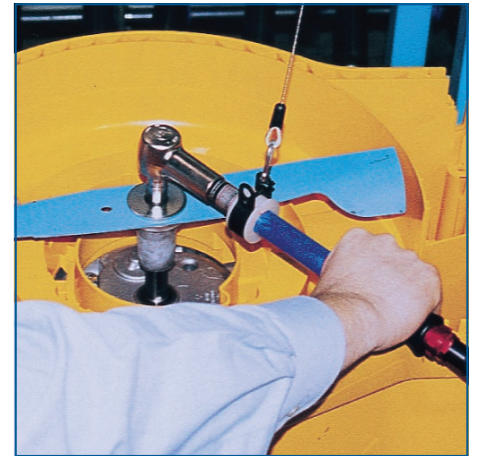
### Additional features

A Signal Delay Unit (SDU) can be used to reduce the risk of missing wrench activations by extending the time of the signal output

Two types of cables are available - either a 5 metre, straight cable (Order Code: D94402) or a 1.5 metre coiled cable (Order Code: D94406)

Universal Switch Module (Order Code: B25900) is connected via cable to the Production Line Control System

For End Fittings, see pages 84-86



Universal Switch Module  
Order Code: B25900



Signal Delay Unit (SDU)  
Order Code: C12870

| Order Code | Model        | Range      |               | Drive       | k mm* > | kg   | Repeatability | ISO 6789 Class |
|------------|--------------|------------|---------------|-------------|---------|------|---------------|----------------|
|            |              | ISO        | Imperial      |             |         |      |               |                |
| 056093     | TSP 5 Sw     | 1-5 N.m    | 10-45 lbf.in  | 1/4         | 335     | 0.53 | +/- 6%        | 2C             |
| 056103     | TSP 10 Sw    | 2-10 N.m   | 20-90 lbf.in  | 1/4         | 335     | 0.53 | +/- 6%        | 2C             |
| 011003     | TSN 25 D Sw  | 5-25 N.m   | 4-18 lbf.ft   | 1/4         | 366     | 0.68 | +/- 4%        | 2C             |
| 011013     | TSN 25 A Sw  | 5-25 N.m   | 4-18 lbf.ft   | 3/8         | 366     | 0.68 | +/- 4%        | 2C             |
| 011033     | TSN 55 Sw    | 15-55 N.m  | 10-40 lbf.ft  | 3/8         | 474     | 1.14 | +/- 4%        | 2C             |
| 011053     | TSN 125 Sw   | 40-125 N.m | 30-90 lbf.ft  | 1/2         | 610     | 1.70 | +/- 4%        | 2C             |
| 011103     | TBN 2 Sw     | 0.4-2 N.m  | 3.5-18 lbf.in | Captive Pin | 255     | 0.45 | +/- 6%        | 2C             |
| 011113     | TBN 2 G Sw   | 0.4-2 N.m  | 3.5-18 lbf.in | 9/32        | 133     | 0.13 | +/- 6%        | 2C             |
| 011203     | TBN 10 Sw    | 1-10 N.m   | 9-89 lbf.in   | Captive Pin | 255     | 0.47 | +/- 6%        | 2C             |
| 011213     | TBN 10 G Sw  | 1-10 N.m   | 9-89 lbf.in   | 9/32        | 133     | 0.15 | +/- 6%        | 2C             |
| 050003     | TBN 25 Sw    | 5-25 N.m   | 4-18 lbf.ft   | 16          | 415     | 0.75 | +/- 4%        | 2C             |
| 050013     | TBN 25 G Sw  | 5-25 N.m   | 4-18 lbf.ft   | 9/32        | 415     | 0.75 | +/- 4%        | 2C             |
| 050103     | TBN 65 Sw    | 10-65 N.m  | 7-48 lbf.ft   | 16          | 452     | 1.09 | +/- 4%        | 2C             |
| 050113     | TBN 65 G Sw  | 10-65 N.m  | 7-48 lbf.ft   | 9/32        | 452     | 1.09 | +/- 4%        | 2C             |
| 050203     | TBN 135 Sw   | 27-135 N.m | 18-100 lbf.ft | 16          | 558     | 1.68 | +/- 4%        | 2C             |
| 050213     | TBN 135 G Sw | 27-135 N.m | 18-100 lbf.ft | 9/32        | 558     | 1.68 | +/- 4%        | 2C             |
| 050303     | TBN 200 Sw   | 40-200 N.m | 29-147 lbf.ft | 16          | 670     | 1.74 | +/- 4%        | 2C             |
| 050313     | TBN 200 G Sw | 40-200 N.m | 29-147 lbf.ft | 9/8         | 670     | 1.74 | +/- 4%        | 2C             |

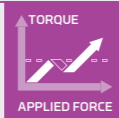
\* Length of tool and switch not including cable

## Torcofix Production Clicker Torque Wrenches

Torque range from 5 to 200 N.m

Versatile Production tools, with a range of interchangeable end fittings, designed for accurate and repeated torque application. An audible click provides tightening process control.

**Clicking Mechanism**  
Incorrect tightening is possible



Torcofix 85 FS



### INDUSTRY SECTORS

Maintenance & Repair



Automotive



Aerospace



Utilities



Consumer Products

**Audible click providing accurate process control.** The risk of under and over tightening is reduced, as a click can be heard and felt when the preset torque is reached

**Preset torque.** Enhanced tightening process control, as unauthorised adjustment of the level of torque is not possible. These tools must be set to the required torque value by using a Torque Analyser like the DREMOTEST E. **See page 78 for details**

**Long tool life.** High quality, robust design and construction, further guaranteed by a two year warranty

**Multiple industrial applications.** The versatile design allows the use of a range of end fittings and ratchets

## New TSC Adjustable Slipping Torque Wrenches

Torque range from 1 to 10 N.m

Compact, versatile and lightweight tools which eliminate over-tightening in a wide range of industrial applications, including maintenance and repair. Calibrated scale allows for adjustment of torque. EPA compliant.

TSC 10



**Slipping Mechanism**  
Incorrect tightening is impossible



**Bearing Technology.** The new bearings are extremely wear resistant,utilizing a self-lubricating polymer material,which offers a heightened level of performance, while at the same time reducing the weight to improve the user experience

**Serviceability.** The full tool is user serviceable but as it contains moving parts we recommend periodic servicing to ensure your tool works correctly and to maximum efficiency

**Scale.** The new TSC incorporates a micrometer style fine adjustment, with a positive locking system providing fast, easy and accurate setting

**Grip.** Glass filled Nylon 66, non-slip grip for durability with anti -static properties giving the tool EPA compliance, for use in Electrostatically Sensitive areas

### INDUSTRY SECTORS

Maintenance & Repair



Aerospace



Electronics

Manufacturing



Automotive



Consumer Products

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
**YouTube**  
Watch our video

| Order Code | Model           | Range      |                 | Drive | k mm | kg   | Accuracy | ISO 6789 Class |
|------------|-----------------|------------|-----------------|-------|------|------|----------|----------------|
|            |                 | Range      | lbs.ft          |       |      |      |          |                |
| 7601960    | Torcofix 25 FS  | 5-25 N.m   | 3.7-18 lbf.ft   | 9/16" | 180  | 0.21 | +/- 4%   | 2C             |
| 7602180    | Torcofix 50 FS  | 10-50 N.m  | 7.5-37.5 lbf.ft | 9/16" | 240  | 0.27 | +/- 4%   | 2C             |
| 7602850    | Torcofix 85 FS  | 17-85 N.m  | 12.5-65 lbf.ft  | 9/16" | 320  | 0.34 | +/- 4%   | 2C             |
| 7603580    | Torcofix 200 FS | 40-200 N.m | 30-150 lbf.ft   | 1/2"  | 400  | 0.75 | +/- 4%   | 2C             |

| Order Code | Model  | Calibrated Range |            | Drive | k mm | g   | Accuracy | ISO 6789 Class | EPA |
|------------|--------|------------------|------------|-------|------|-----|----------|----------------|-----|
|            |        | Range            | lbs.in     |       |      |     |          |                |     |
| 059020     | TSC 5  | 1-5 N.m          | 0.05 N.m   | 1/4"  | 195  | 235 | +/- 6%   | 2A             | ✓   |
| 059040     | TSC 10 | 2-10 N.m         | 0.1 N.m    | 1/4"  | 195  | 235 | +/- 6%   | 2A             | ✓   |
| 059060     | TSC 45 | 10-45 lbf.in     | 0.5 lbf.in | 1/4"  | 195  | 235 | +/- 6%   | 2A             | ✓   |
| 059080     | TSC 90 | 20-90 lbf.in     | 1.0 lbf.in | 1/4"  | 195  | 235 | +/- 6%   | 2A             | ✓   |

# ATB

## ATB Adjustable Breaking Torque Wrenches

Torque range from 0.5 to 10 N.m

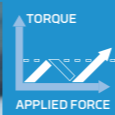
Compact and versatile tools engineered to reduce the risk of under and over tightening in Production, Service and Repair. Calibrated scale allows for pre-setting of torque. EPA compliant.



ATB 5

ATB 10 G

**Breaking Mechanism**  
Incorrect tightening is unlikely



### INDUSTRY SECTORS

Maintenance & Repair



Automotive



Aerospace



Military

Manufacturing



Automotive

## ATB Adjustable Breaking Torque Wrenches

ATB 2.5, 5 & 10

**Accuracy and consistency.** Improved process control is ensured by reducing the risk of under and over tightening, due to the unique Breaking Technology

**Calibrated scale.** A visible micrometer style scale allows the user to adjust the tool quickly and easily to their desired torque setting, enabling a range of different torque settings to be applied

**Ease of use.** Can be used in restricted spaces through its compact design

**Electronics.** Ideal for safe electronic component assembly and servicing, as this tool is EPA compliant for use in Electrostatically Sensitive Areas

**Long tool life.** High quality, durable design and construction, minimises replacement and downtime costs

**Process Control.** Reduces the likelihood of warranty and rework by assuring process control through accurate and repeatable torque application

**Production efficiency.** Improved operator comfort and productivity, from the ergonomic design, which includes lightweight materials and moulded plastic handgrip

**Versatility.** Versatile tools ideal for Maintenance & Repair applications where a range of torques can be applied quickly and easily to a variety of fasteners and connectors



### Additional features

N.m or lbf.in versions come with either an 8 mm spigot or a 9x12 rectangular fitting

Can be supplied as part of a Customised Kit

For details of accessories, see pages 84-95

Tool can be kept accurate and up to date with our Calibration service. See page 98 for details



**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?



Watch our video

| Order Code | Model     | Calibrated Range |           |                 |             | Drive | k mm | kg   | Accuracy | ISO 6789 Class | ⚠ |
|------------|-----------|------------------|-----------|-----------------|-------------|-------|------|------|----------|----------------|---|
|            |           | ISO              | Imperial  | Imperial        | Imperial    |       |      |      |          |                |   |
| 050520     | ATB 2.5   | 50-250 cN.m      | 1.25 cN.m | -               | -           | 8     | 190  | 0.24 | +/- 6%   | 2A             | ✓ |
| 050525     | ATB 2.5   | -                | -         | 4.5-22.5 lbf.in | 0.1 lbf.in  | 8     | 190  | 0.24 | +/- 6%   | 2A             | ✓ |
| 050527     | ATB 2.5 G | 50-250 cN.m      | 1.25 cN.m | -               | -           | 9x12  | 192  | 0.27 | +/- 6%   | 2A             | ✓ |
| 050532     | ATB 2.5 G | -                | -         | 4.5-22.5 lbf.in | 0.1 lbf.in  | 9x12  | 192  | 0.27 | +/- 6%   | 2A             | ✓ |
| 050500     | ATB 5     | 1-5 N.m          | 0.025 N.m | -               | -           | 8     | 220  | 0.29 | +/- 6%   | 2A             | ✓ |
| 050505     | ATB 5     | -                | -         | 10-45 lbf.in    | 0.25 lbf.in | 8     | 220  | 0.29 | +/- 6%   | 2A             | ✓ |
| 050507     | ATB 5 G   | 1-5 N.m          | 0.025 N.m | -               | -           | 9x12  | 230  | 0.29 | +/- 6%   | 2A             | ✓ |
| 050512     | ATB 5 G   | -                | -         | 10-45 lbf.in    | 0.25 lbf.in | 9x12  | 230  | 0.29 | +/- 6%   | 2A             | ✓ |
| 050550     | ATB 10    | 2-10 N.m         | 0.05 N.m  | -               | -           | 8     | 220  | 0.30 | +/- 6%   | 2A             | ✓ |
| 050555     | ATB 10    | -                | -         | 20-90 lbf.in    | 0.5 lbf.in  | 8     | 220  | 0.30 | +/- 6%   | 2A             | ✓ |
| 050557     | ATB 10 G  | 2-10 N.m         | 0.05 N.m  | -               | -           | 9x12  | 230  | 0.30 | +/- 6%   | 2A             | ✓ |
| 050562     | ATB 10 G  | -                | -         | 20-90 lbf.in    | 0.5 lbf.in  | 9x12  | 230  | 0.30 | +/- 6%   | 2A             | ✓ |



# ATB

## ATB Adjustable Breaking Torque Wrenches

Torque range from 5 to 100 N.m

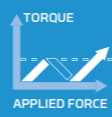
High quality, versatile, tools that have been designed and engineered to reduce the risk of under and over tightening in Production,

Service and Repair. The Calibrated Scale allows for pre-setting of torque.

ATB 100

ATB 25 showing N.m Scale

**Breaking Mechanism**  
Incorrect tightening is unlikely



### INDUSTRY SECTORS

Maintenance & Repair



Automotive



Aerospace



Military

Manufacturing



Automotive

## ATB Adjustable Breaking Torque Wrenches

ATB 25, 50 & 100

**Accuracy and consistency.** Improved process control is ensured by reducing the risk of under and over tightening, due to the unique Breaking Technology

**Calibrated scale.** A visible micrometer style scale allows the user to adjust the tool quickly and easily to their desired torque setting, enabling a range of different torque settings to be applied

**Long tool life.** High quality, durable design and construction, minimises replacement and downtime costs

**Process Control.** Reduces the likelihood of warranty and rework by assuring process control through accurate and repeatable torque application

**Production efficiency.** Improved operator comfort and productivity, from the ergonomic design, which includes lightweight materials and moulded plastic handgrip

**Versatility.** Versatile tools ideal for Maintenance & Repair applications where a range of torques can be applied quickly and easily to a variety of fasteners and connectors

### Additional features

1/4", 3/8" or 1/2" interchangeable ratchet heads come as standard

Available in N.m, lbf.in or lbf.ft versions

For details of Wrench End Fittings & Sockets. **See pages 84-86**

Tool can be kept accurate and up to date with our Calibration service. **See page 98 for details**



**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?



Watch our video

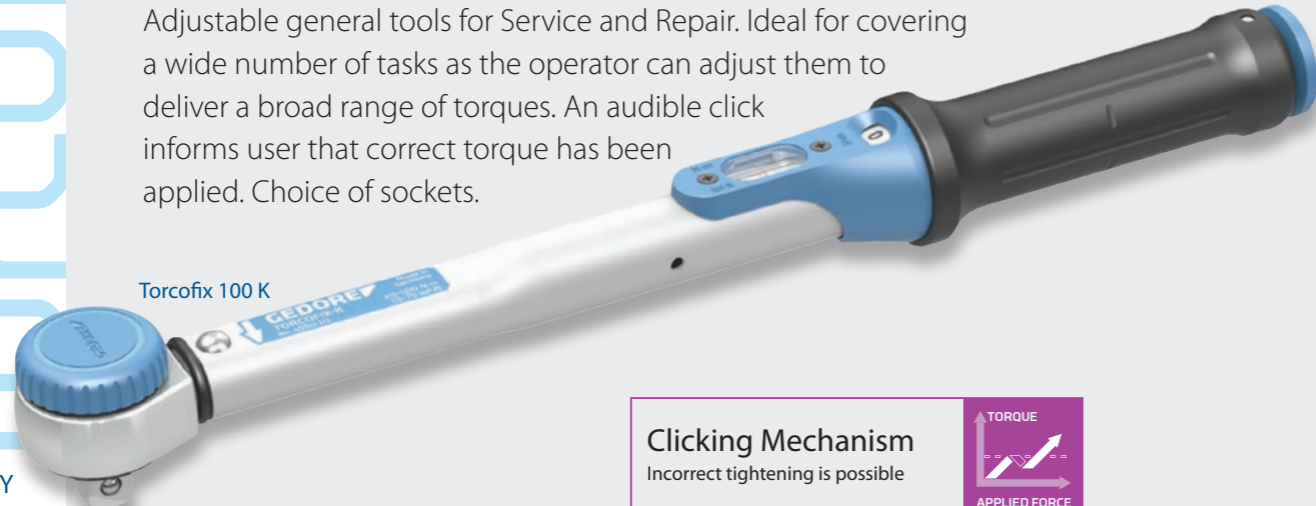
| Order Code | Model    | Calibrated Range |          |                | Drive        | k mm | kg   | Accuracy | ISO 6789 Class |
|------------|----------|------------------|----------|----------------|--------------|------|------|----------|----------------|
|            |          | ISO              | Imperial | Imperial       |              |      |      |          |                |
| 050636     | ATB 25 D | 5-25 N.m         | 0.1 N.m  | -              | 1/4"         | 345  | 1.11 | +/- 4%   | 2A             |
| 050641     | ATB 25 D | -                | -        | 50-250 lbf.in  | 1 lbf.in     | 345  | 1.11 | +/- 4%   | 2A             |
| 050646     | ATB 25 D | -                | -        | 4-20 lbf.ft    | 0.1 lbf.ft   | 345  | 1.11 | +/- 4%   | 2A             |
| 050638     | ATB 25 A | 5-25 N.m         | 0.1 N.m  | -              | 3/8"         | 345  | 1.12 | +/- 4%   | 2A             |
| 050643     | ATB 25 A | -                | -        | 50-250 lbf.in  | 1 lbf.in     | 345  | 1.12 | +/- 4%   | 2A             |
| 050648     | ATB 25 A | -                | -        | 4-20 lbf.ft    | 0.1 lbf.ft   | 345  | 1.12 | +/- 4%   | 2A             |
| 050685     | ATB 50   | 10-50 N.m        | 0.25 N.m | -              | 3/8"         | 365  | 1.14 | +/- 4%   | 2A             |
| 050690     | ATB 50   | -                | -        | 120-440 lbf.in | 2 lbf.in     | 365  | 1.14 | +/- 4%   | 2A             |
| 050695     | ATB 50   | -                | -        | 7-37 lbf.ft    | 0.125 lbf.ft | 365  | 1.14 | +/- 4%   | 2A             |
| 050735     | ATB 100  | 20-100 N.m       | 0.5 N.m  | -              | 1/2"         | 400  | 1.30 | +/- 4%   | 2A             |
| 050740     | ATB 100  | -                | -        | 240-880 lbf.in | 4 lbf.in     | 400  | 1.30 | +/- 4%   | 2A             |
| 050745     | ATB 100  | -                | -        | 14-74 lbf.ft   | 0.25 lbf.ft  | 400  | 1.30 | +/- 4%   | 2A             |

## Torcofix Adjustable Clicker Torque Wrenches

Torque range from 1 to 750 N.m

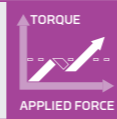
Adjustable general tools for Service and Repair. Ideal for covering a wide number of tasks as the operator can adjust them to deliver a broad range of torques. An audible click informs user that correct torque has been applied. Choice of sockets.

Torcofix 100 K



### Clicking Mechanism

Incorrect tightening is possible



### INDUSTRY SECTORS

Maintenance & Repair



**Audible click provides accuracy and control.** The risk of under and over tightening is reduced, as a click can be heard and felt when the preset torque is reached

**Choice of Drives.** Interchangeable 1/4" and 3/8" Square Drive Push Through 1/2" Square Drive

**Efficient to use.** Minimises the time to complete the task as these wrenches are quick and easy to adjust due to the clear scale design and simple to use locking mechanism

**Long tool life.** High quality, robust design and construction, further guaranteed by a two year warranty

**Socket choice. See page 87**

**Versatility.** Versatile tools ideal for Maintenance & Repair applications where a range of torques can be applied quickly and easily to a variety of fasteners and connectors



Interchangeable 1/4" and 3/8" Square Drive



Push Through 1/2" Square Drive

| Order Code | Drive |
|------------|-------|
| 024000     | 1/4"  |
| 024010     | 3/8"  |
| 024020     | 1/2"  |

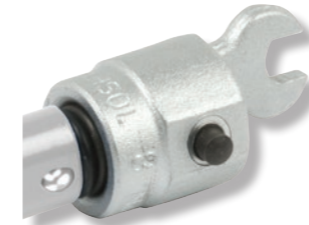
| Order Code | Model          | Calibrated Range |          | Drive           | k mm | kg   | Accuracy | ISO 6789 Class |    |
|------------|----------------|------------------|----------|-----------------|------|------|----------|----------------|----|
|            |                | ISO              | Imperial |                 |      |      |          |                |    |
| 2201429    | Torcofix 5 K   | 1-5 N.m          | 0.25 N.m | 0.75-3.7 lbf.ft | 1/4" | 224  | 0.32     | +/- 4%         | 2A |
| 1545132    | Torcofix 25 K  | 5-25 N.m         | 1 N.m    | 3.7-18 lbf.ft   | 1/4" | 285  | 0.45     | +/- 4%         | 2A |
| 1545140    | Torcofix 50 K  | 10-50 N.m        | 2.5 N.m  | 7.5-37 lbf.ft   | 3/8" | 335  | 0.54     | +/- 4%         | 2A |
| 7601530    | Torcofix 100 K | 20-100 N.m       | 5 N.m    | 15-75 lbf.ft    | 1/2" | 394  | 0.90     | +/- 4%         | 2A |
| 7601610    | Torcofix 200 K | 40-200 N.m       | 10 N.m   | 30-150 lbf.ft   | 1/2" | 485  | 1.10     | +/- 4%         | 2A |
| 7601880    | Torcofix 300 K | 60-300 N.m       | 10 N.m   | 45-220 lbf.ft   | 1/2" | 577  | 1.40     | +/- 4%         | 2A |
| 7674330    | Torcofix 400 K | 80-400 N.m       | 10 N.m   | 60-300 lbf.ft   | 3/4" | 686  | 2.00     | +/- 4%         | 2A |
| 7674760    | Torcofix 550 K | 110-550 N.m      | 10 N.m   | 80-405 lbf.ft   | 3/4" | 957  | 3.80     | +/- 4%         | 2A |
| 1521365    | Torcofix 750 K | 150-750 N.m      | 10 N.m   | 110-550 lbf.ft  | 3/4" | 1236 | 4.80     | +/- 4%         | 2A |

## Torcofix Adjustable Clicker Torque Wrenches

Torque range from 5 to 400 N.m

Adjustable general tools for Service and Repair. Ideal for covering a wide number of tasks as the operator can adjust them to deliver a broad range of torques.

An audible click informs user that correct torque has been applied. Multiple applications via range of end fittings and ratchets.

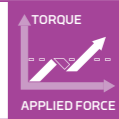


Torcofix 100 Z



### Clicking Mechanism

Incorrect tightening is possible



### INDUSTRY SECTORS

Maintenance & Repair



**Audible click provides accuracy and control.** The risk of under and over tightening is reduced, as a click can be heard and felt when the preset torque is reached

**Efficient to use.** Minimises the time to complete the task as these wrenches are quick and easy to adjust due to the clear scale design and simple to use locking mechanism

**Long tool life.** High quality, robust design and construction, further guaranteed by a two year warranty

**End Fittings.** The design allows the use of a range of 16mm spigot, 9x12 end fittings and ratchets for multiple industrial applications. See pages 84-86

**Versatility.** Versatile tools ideal for Maintenance & Repair applications where a range of torques can be applied quickly and easily to a variety of fasteners and connectors

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476 Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?



Watch our video

| Order Code | Model           | Calibrated Range |          | Drive         | k mm  | kg  | Accuracy | ISO 6789 Class |    |
|------------|-----------------|------------------|----------|---------------|-------|-----|----------|----------------|----|
|            |                 | ISO              | Imperial |               |       |     |          |                |    |
| 1646168    | Torcofix 25 Z   | 5-25 N.m         | 1 N.m    | 3.7-18 lbf.ft | 16    | 280 | 0.50     | +/- 4%         | 2A |
| 1646176    | Torcofix 50 Z   | 10-50 N.m        | 2.5 N.m  | 7.5-37 lbf.ft | 16    | 330 | 0.60     | +/- 4%         | 2A |
| 7097270    | Torcofix 100 Z  | 20-100 N.m       | 5 N.m    | 15-75 lbf.ft  | 16    | 375 | 0.60     | +/- 4%         | 2A |
| 7097350    | Torcofix 200 Z  | 40-200 N.m       | 10 N.m   | 30-150 lbf.ft | 16    | 465 | 0.80     | +/- 4%         | 2A |
| 7097430    | Torcofix 300 Z  | 60-300 N.m       | 10 N.m   | 45-220 lbf.ft | 16    | 565 | 1.20     | +/- 4%         | 2A |
| 7094090    | Torcofix 400 Z  | 80-400 N.m       | 10 N.m   | 60-300 lbf.ft | 16    | 650 | 1.50     | +/- 4%         | 2A |
| 1646192    | Torcofix 25 SE  | 5-25 N.m         | 1 N.m    | 3.7-18 lbf.ft | 9x12  | 280 | 0.50     | +/- 4%         | 2A |
| 1646206    | Torcofix 50 SE  | 10-50 N.m        | 2.5 N.m  | 7.5-37 lbf.ft | 9x12  | 330 | 0.60     | +/- 4%         | 2A |
| 7600210    | Torcofix 100 SE | 20-100 N.m       | 5 N.m    | 15-75 lbf.ft  | 9x12  | 375 | 0.60     | +/- 4%         | 2A |
| 7600990    | Torcofix 200 SE | 40-200 N.m       | 10 N.m   | 30-150 lbf.ft | 14x18 | 465 | 0.80     | +/- 4%         | 2A |
| 7601020    | Torcofix 300 SE | 60-300 N.m       | 10 N.m   | 45-220 lbf.ft | 14x18 | 565 | 1.20     | +/- 4%         | 2A |
| 7604120    | Torcofix 400 SE | 80-400 N.m       | 10 N.m   | 60-300 lbf.ft | 14x18 | 650 | 1.50     | +/- 4%         | 2A |

## Industrial Adjustable Breaking Torque Wrenches

Torque range from 150 to 1000 N.m

The new Gedore Torque range of industrial torque wrenches has been designed and precision-engineered to meet the needs of the most demanding industries and the toughest working conditions. This includes the automotive, bus and truck, chemical, energy and nuclear industries, as well as major construction and engineering projects.

All these industries require absolute accuracy and precision, supported by robust construction that will survive the toughest working conditions. Our industrial torque wrenches can be used for applications from assembly and manufacture to maintenance, repair and service.

### Absolute accuracy, adjustable torque

These robust tools reduce the chance of over and under tightening, because of the unique Breaking Mechanism: hence their description as 'Breaking Torque Wrenches'. When the preset torque value is reached, these tools break at a specific point along their length. This gives a clear signal – which can be both seen and felt – to the operator that the correct level of torque has been applied and allows time for appropriate operator reaction.

Adjustability is provided by calibrated scales that allow the user to adjust the tool to their desired torque setting, enabling a range of different torque settings to be applied. This makes them suitable for a number of applications, or for applications that require more than one torque value.

At any setting, these tools are guaranteed to deliver the correct torque every time, with absolute and repeatable accuracy. Accurate results to +/- 4 can be expected, in even the toughest working conditions.

## BIW Industrial Breaking Torque Wrenches

BIW 700, 800, 1000

**Accuracy, consistency and control.** These tools will function to the most stringent and exacting requirements, even in the toughest conditions, because of their robust construction. Accurate process control is ensured by reducing the risk of under and over tightening, due to unique Breaking Technology

**Calibrated scale.** A visible micrometer style scale allows the user to adjust the tool quickly and easily to their desired torque setting, enabling a range of different torque settings to be applied. Dual scaled N.m and lbf.ft

**Durable.** High quality, durable and robust design, construction and materials ensure absolute accuracy, continuity of use and a long tool life in the toughest conditions, hence minimising tool replacement and downtime costs. All-steel construction and corrosion-resistant finish

**Ease of use.** Tools can be used with confidence by operators at any skill level, due to the unique Breaking Technology

**Process Control.** Reduces the likelihood of warranty and rework by assuring process control through accurate and repeatable torque application

**Tested.** These tools are tested to the requirements of ISO 6789 and are supplied with a calibration certificate and storage case

**Versatile.** A range of different torque settings can be applied, making these tools suitable for a number of applications



Industrial Wrench

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
**YouTube**  
Watch our video

| Order Code | Model    | Range        |               | k mm<br>LxWxH   | Output Drive | Repeatability | ISO 6789 Class |
|------------|----------|--------------|---------------|-----------------|--------------|---------------|----------------|
|            |          | N.m          | Ft.lb         |                 |              |               |                |
| 3022854    | BIW 700  | 150-700 N.m  | 100-500 Ft.lb | 1250 x 100 x 60 | 3/4"         | +/- 4%        | 2F             |
| 3022862    | BIW 800  | 200-800 N.m  | 150-600 Ft.lb | 1250 x 100 x 60 | 3/4"         | +/- 4%        | 2F             |
| 3022870    | BIW 1000 | 300-1000 N.m | 200-750 Ft.lb | 1470 x 100 x 60 | 3/4"         | +/- 4%        | 2F             |

## Weld Stud Test Tools

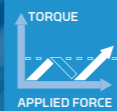
Torque range from 0.4 to 20 N.m

Weld Stud Test Tools are used during the production of sheet metal products. They are designed for a quick and easy controlled test of the strength and integrity

of welds holding threaded welding studs onto sheet metal. They are most often used for Quality Control in the automotive and appliance industries.

### Breaking Mechanism

Incorrect tightening is unlikely



WSTT 20

WSTT 10

### INDUSTRY SECTORS

Quality Control



Automotive



Aerospace



Electronics



Consumer Products

## Weld Stud Test Tools

WSTT 2, 10 & 20

**Audit.** These versatile Quality Audit tools enable Quick Go/No Go tests for weld stud integrity to be carried out quickly and efficiently on a wide range of weld studs from M2.5 to M12

**Accuracy.** The risk of damage to the fastener is greatly reduced, due to the unique breaking technology

**Easy and effective to use.** Intuitive & bi-directional "T" shaped handle for easy operation

**End Fittings.** A range of Interchangeable end fittings are available. End fittings are available for use with most popular weld stud thread sizes and lengths

**Long tool life.** High quality, robust design and construction, further guaranteed by a two year warranty

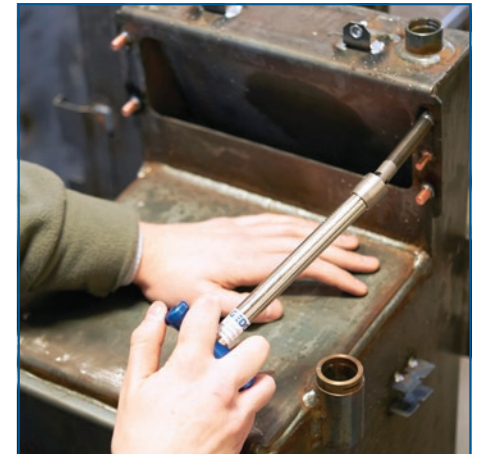
**Versatility.** A range of compatible interchangeable End Fittings are available, for use with most popular weld stud thread sizes and lengths. **See pages 84-86 for details**

### Additional features

All WSTT Tools are supplied with a Calibration Certificate when ordered with an attached end fitting

These Wrenches are preset type torque tools. There is no external adjustment scale and they must be set to the required torque value by using a Torque Analyser. **See page 73 & 77 for details**

Calibration Adaptor (Order Code A25880) is compatible with all WSTT models



### Typical Maximum Torque Test Values (Capacitor discharge method)

| Threaded Stud | Steel 4.8 Weldable | Stainless Steel 1.403/03 (A2-50) | Aluminium Alloy AlMg3 F23 | Copper CuZn37 (Ms63) |
|---------------|--------------------|----------------------------------|---------------------------|----------------------|
| M3            | 1.2 N.m            | 0.75 N.m                         | 0.6 N.m                   | 0.9 N.m              |
| M4            | 2.7 N.m            | 1.4 N.m                          | 1.3 N.m                   | 1.9 N.m              |
| M5            | 5.4 N.m            | 3.5 N.m                          | 2.9 N.m                   | 4.0 N.m              |
| M6            | 9.2 N.m            | 5.7 N.m                          | 4.6 N.m                   | 6.75 N.m             |
| M8            | 12.0 N.m           | 14.0 N.m                         | 11.25 N.m                 | 16.5 N.m             |
| M10           | 18.0 N.m           | 20.0 N.m                         | -                         | -                    |

NOTE: These torque values are for guidance only. The torque for each application should be calculated and proven by practical test.

| Order Code | Model   | Calibrated Range |               | k mm | g   |
|------------|---------|------------------|---------------|------|-----|
|            |         | ISO              | Imperial      |      |     |
| 055005     | WSTT 2  | 0.4-2 N.m        | 3.5-18 lbf.in | 120  | 215 |
| 055000     | WSTT 10 | 1-10 N.m         | 9-90 lbf.in   | 120  | 215 |
| 055010     | WSTT 20 | 4-20 N.m         | 35-180 lbf.in | 220  | 320 |

### Metric or Imperial range of End Fittings available

| Metric     |                                   |            |                                   |
|------------|-----------------------------------|------------|-----------------------------------|
| Order Code | Weld Stud Thread x Maximum Length | Order Code | Weld Stud Thread x Maximum Length |
| WSTT 10    |                                   | WSTT 20    |                                   |
| 055020     | M2.5 x 25                         | 055050     | M5 x 50                           |
| 055025     | M3 x 50                           | 055055     | M6 x 50                           |
| 055030     | M4 x 50                           | 055060     | M8 x 50                           |
| 055035     | M5 x 50                           | 055065     | M10 x 75                          |
| 055040     | M6 x 50                           | 055070     | M12 x 75                          |
| 055045     | M8 x 50                           | -          | -                                 |

| Metric     |                                   |            |                                   |
|------------|-----------------------------------|------------|-----------------------------------|
| Order Code | Weld Stud Thread x Maximum Length | Order Code | Weld Stud Thread x Maximum Length |
| WSTT 10    |                                   | WSTT 20    |                                   |
| 055075     | 4-40 x 1.5"                       | 055105     | 10-32 x 2.5"                      |
| 055080     | 6-32 x 2"                         | 055110     | 10-24 x 2.5"                      |
| 055085     | 8-32 x 2"                         | 055115     | 1/4-20 x 4"                       |
| 055090     | 10-32 x 2.5"                      | 055120     | 5/16-18 x 4"                      |
| 055095     | 10-24 x 2.5"                      | 055125     | 3/8-16 x 4"                       |
| 055100     | 1/4-20 x 4"                       | -          | -                                 |

## RTU Dynamic Torque Limiters

Torque range from 0.1 to 14 N.m

RTU Dynamic Torque Limiters allow conventional Hand and Power tools to be easily converted into versatile pre-set Torque Tools, giving reliable torque limited fastening to joints. Rotary Torque Units (RTUs) provide a wide range of potential

applications where conventional torque screwdrivers or wrenches might not be appropriate. They are particularly well-suited for maintenance and repair use in manufacturing industries, as they guarantee absolute accuracy and repeatability.

### Slipping Mechanism

Incorrect tightening is impossible



### INDUSTRY SECTORS

Maintenance & Repair



Utilities

Manufacturing



Packaging



Automotive



Electronics

## RTU Dynamic Torque Limiters

**Accuracy.** Accurate process control is ensured by eliminating under and over tightening, due to the unique proven Gedore Torque Slipping Technology. Absolute accuracy is delivered time after time

**Ease of use.** Simply install the RTU to the end of a traditional power tool or hand tool, converting it to a torque tool

**Flexibility.** A range of heavy duty torque limiters creates tools that are suitable for just about any occasion – and can be moved if required

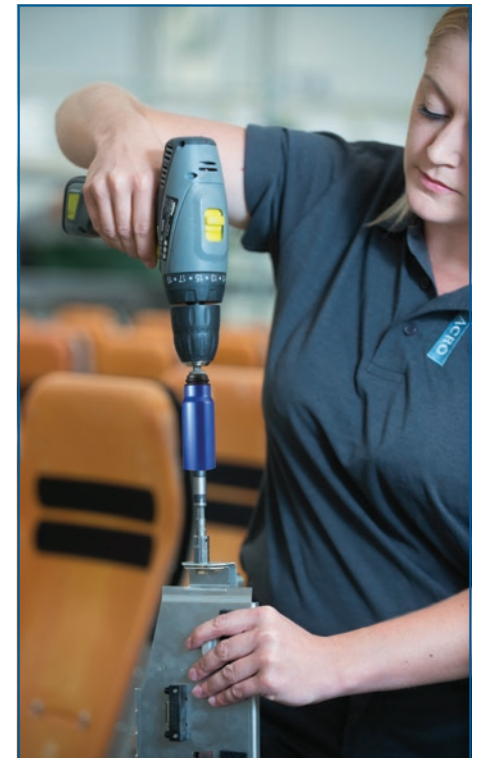
**Power, where you need it.** Powered assembly applications can be performed accurately and quickly, including the tightening of bottles, caps and lids

**Versatility.** New higher range RTU gives users the ability to tighten torque up to 14 N.m

**Wide range of applications.** Can be used where conventional torque screwdrivers or wrenches might not be appropriate

### Additional features

Custom designs and higher torque settings are available



RTU 14

RTU 1

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?



Watch our video

| Order Code | Model  | Range       |                 | Speed    | Input Drive | Output Drive | Repeatability | ISO 6789 Class |
|------------|--------|-------------|-----------------|----------|-------------|--------------|---------------|----------------|
|            |        | N.m         | lbf.in          |          |             |              |               |                |
| 019100     | RTU 1  | 0.1-1 N.m   | lbf.in 0.9-8.8  | 0-500RPM | 3/8" 1/4"   | 1/4" 1/4"    | +/- 6%        | 2F             |
| 019200     | RTU 4  | 0.6-4.5 N.m | lbf.in 5.5-39.8 | 0-500RPM | 3/8" 1/4"   | 1/4" 1/4"    | +/- 6%        | 2F             |
| 019400     | RTU 14 | 2-14 N.m    | lbf.in 18-123.8 | 0-250RPM | 3/8" 1/4"   | 1/4" 1/4"    | +/- 6%        | 2F             |

# The new Torque Multiplier

## More features, more innovation, more torque

New for 2017, the Torque Multiplier product range continues our proud 80 year tradition of engineering excellence and customer focus. Building on the success of the Torque Multipliers produced by the Gedore Group for the past 40 years, the new products set new standards for what can be expected from torque tools.

At Gedore, we are committed to design and manufacturing innovation. That's why we believe that the new Torque Multiplier range is a worthy addition to the world's most advanced range of torque tools.

## Helping your business to achieve more

A Torque Multiplier enables a single torque wrench to achieve a wider range of torque output, accurately and consistently. As a result, every torque wrench has the potential to be more versatile and more productive.

For users, this has a whole host of benefits. A single tool can now be used for a wider range of applications, fewer tools need to be carried around, smaller torque tools can be used in confined spaces and lighter tools can be used in difficult working conditions.

For your business, this all adds up to reduced inventory costs and increased speed and productivity.

## Design and manufacturing innovation

**Lighter housing and gear unit.** The housing is 30% lighter than other torque multipliers, but is just as robust and durable. The new ceramic-Teflon® coating enables minimum device lubrication which means that, unlike conventionally lubricated torque multipliers, there is no decrease in performance when outside temperatures are colder.

**Non-destructive overload protection.** 40-550RS models are equipped with a patented non-destructive overload safety mechanism. The basis of this extra feature is a highly-dynamic, pre-tensioned slip-coupling which triggers with a clearly audible acoustic noise as soon as the maximum permissible input torque is exceeded.

**Certified safety.** Every torque multiplier is supplied with a calibration certificate. This guarantees absolute accuracy and enables bolting operations to be implemented at a high level of torque precision.

## Improved reaction arm delivers improved performance

All our torque multipliers are fitted with a reaction arm made of light chrome vanadium steel alloy, which is fitted with an adjustable locking knob with a moveable square end. The purpose of this is to improve performance by absorbing the stress built up in the gear while the bolt is tightened. Without this feature, the tilting movement caused by reaction to use of the multiplier would reduce the maximum permitted torque by 20%. The reaction arm uses a new shape and materials, making it more stable and durable than other torque multipliers. It is equipped with a patented hold function that prevents the gear teeth from slipping.



## The Torque Multiplier LKV Series, 500 - 54,000 N.m

The new Gedore Torque LKV series of Torque Multipliers enables your existing torque wrenches to deliver a much wider range of torque output, accurately and consistently. With an LKV Torque Multiplier, a single torque tool can be used for a greater number of applications. For the user, this means greater flexibility, fewer tools to carry around, and enhanced capabilities

from smaller and lighter tools, for confined or difficult working conditions. For your business, this means increased efficiency and reduced inventory costs.

The LKV series of Torque Multipliers sets new standards for design, innovation and quality. These add up to industry-leading performance, reliability and flexibility.

Series LKV-40 550RS



### INDUSTRY SECTORS



## Torque Multiplier LKV-40 to 550RS

**Accuracy and consistency.** Built to a high standard of precision, to ensure that your torque tools operate to their full capabilities

**Calibration certificate.** Supplied with individual Gedore calibration certificate, guaranteeing accuracy and performance

**Ease of use.** Can be used with confidence by operators at any skill level. Easy and quick to assemble. Clear output calculations. Low operator input results in higher output

**Flexibility and versatility.** Existing tools can be used for additional applications, meaning enhanced capabilities, reduced inventory costs and increased productivity. Lighter or smaller tools can be used when working in confined spaces and difficult working conditions

**Improved reaction arm.** Drop-forged reaction arm with lock on function, made of light chrome vanadium steel alloy for increased durability, stability and performance



**Lightweight.** Lean, high-performance aluminium housing is 30% lighter than standard steel housing. This improves operator comfort and ease of use

**Overload safety.** An integrated overload safety mechanism protects the gear unit, by ensuring that the square drive has a pre-determined breaking point. The square shears if overloaded and is easily replaced

**Production efficiency.** Increased speed and productivity are achieved by the use of existing torque wrenches. Decreased bolting time prevents tightening failure and associated costs. A high level of torque is achieved from a low level of input

**Return safety.** Integrated return safety for CW/CCW rotation and safe operation

**Temperature-resistant.** Planet gear unit with ceramic-Teflon®-coated tooth flanks enables minimum device lubrication, meaning that there is no decrease in performance when outside temperatures are colder. This also means that the tool can be stored in a vehicle in a stable transport case



| Order Code | Model     | N.m max | lbft max | N.m min/ max | lbft min/ max | Ratio  | Q   | Drive | Ø D mm | H mm  | kg   |
|------------|-----------|---------|----------|--------------|---------------|--------|-----|-------|--------|-------|------|
| 2653087    | LKV-40    | 300     | 220      | 500-4000     | 400-2930      | 1:16   | 1/2 | 1     | 88     | 212.8 | 3.9  |
| 2653109    | LKV-40RS  | 310     | 230      | 500-4000     | 400-2930      | 1:16   | 1/2 | 1     | 88     | 226.9 | 4.2  |
| 2653117    | LKV-60RS  | 400     | 300      | 650-6000     | 500-4400      | 1:18   | 3/4 | 1 1/2 | 102    | 256.2 | 6.6  |
| 2653125    | LKV-80RS  | 420     | 310      | 800-8000     | 600-5870      | 1:22   | 3/4 | 1 1/2 | 128    | 276.5 | 9.1  |
| 2653133    | LKV-100RS | 410     | 305      | 1000-10000   | 700-7330      | 1:28.5 | 3/4 | 1 1/2 | 142    | 291.5 | 10.9 |
| 2653141    | LKV-120RS | 380     | 280      | 1320-13000   | 1000-9530     | 1:39   | 3/4 | 1 1/2 | 174.5  | 306   | 17.0 |
| 2653168    | LKV-550RS | 380     | 280      | 5500-54000   | 4000-40330    | 1:175  | 3/4 | 2 1/2 | 270    | 414.5 | 64.6 |

## INDUSTRY SECTORS



## The Torque Multiplier LKV Series 12, 50 - 1,300 N.m

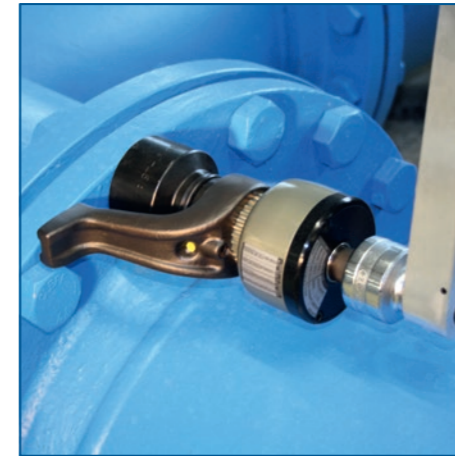
The new Gedore LKV12 series is the smallest Torque Multiplier in our range and can fit into a pocket. Despite its size, this lightweight and rugged tool enables existing torque wrenches to deliver a wider range of torque output, accurately and consistently.

With an LKV12 Torque Multiplier, a single torque tool can be used for a greater number of applications. For the user, this means greater flexibility, fewer tools to carry around and enhanced capabilities from smaller and lighter tools, for confined or difficult working conditions. For your business, this means increased efficiency and reduced inventory costs. The LKV series of Torque Multipliers sets new standards for design, innovation and quality. These add up to industry-leading performance, reliability and flexibility

The LKV12 is particularly suited for use in workshops, for maintenance and as an on-board tool in utility or construction site vehicles.



Series LKV-12



**Accuracy and consistency.** Built to a high standard of precision, to ensure that your torque tools operate to their full capabilities

**Calibration certificate.** Supplied with individual Gedore calibration certificate, guaranteeing accuracy and performance

**Ease of use.** Small, lightweight and portable. Can be used with confidence by operators at any skill level. Easy and quick to assemble. Clear output calculations. Low operator input results in higher output

**Flexibility and versatility.** Existing tools can be used for additional applications, meaning enhanced capabilities, reduced inventory costs and increased productivity. Valuable when working in confined spaces and difficult working conditions, because of its small size plus the ability to use lighter and smaller torque tools

**Improved reaction arm.** Drop-forged reaction arm with lock on function, made of light chrome vanadium steel alloy for durability, stability and performance. It is equipped with an offset reaction arm and can be retrofitted with a straight reaction arm

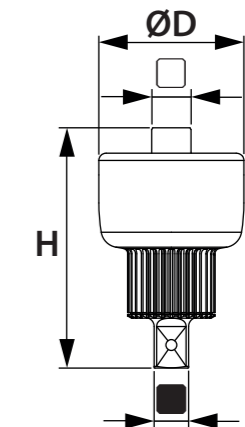
**Lightweight.** Not only is the unit small, but it also uses lean, high-performance aluminium housing which is 30% lighter than standard steel housing. This improves operator comfort and ease of use. The total weight of 1.9 kg delivers the best torque-weight ratio available

**Production efficiency.** Increased speed and productivity are achieved by the use of existing torque wrenches. Decreased bolting time prevents tightening failure and associated costs. A high level of torque is achieved from a low level of input

**Overload safety.** An integrated overload safety mechanism protects the gear unit, by ensuring that the square drive has a pre-determined breaking point. The square shears if overloaded and is easily replaced

**Return safety.** Integrated return safety for CW/CCW rotation and safe operation

**Temperature-resistant.** Planet gear unit with ceramic-Teflon®-coated tooth flanks enables minimum device lubrication, meaning that there is no decrease in performance when outside temperatures are colder. This also means that the tool can be stored in a vehicle in a stable transport case



**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
**YouTube**  
Watch our video

| Order Code | Model  | N-m max | lbft max | N-m min/max | lbft min/max | Ratio | Q   | Drive | Ø D mm | H mm  | kg  |
|------------|--------|---------|----------|-------------|--------------|-------|-----|-------|--------|-------|-----|
| 2653370    | LKV-12 | 270     | 200      | 50-1300     | 40-950       | 1:5   | 1/2 | 3/4   | 80     | 132.5 | 1.3 |



# Multipplier

## INDUSTRY SECTORS



## The Torque Multiplier

### LKV Series 20Z / 28Z, 100 - 2,800 N.m

The new Gedore Torque LKV 20Z – 28Z series of Torque Multipliers enables your existing torque wrenches to deliver a much wider range of torque output, accurately and consistently. With an LKV Torque Multiplier, a single torque tool can be used for a greater number of applications. For the user, this means greater flexibility, fewer tools to carry around and enhanced capabilities from smaller and lighter tools, for confined or difficult working conditions.

For your business, this means increased efficiency and reduced inventory costs.

These tools are particularly well-suited for flange bolt connections, where the positioning of the torque multiplier must be implemented easily and rapidly. The LKV-20Z/28Z is equipped with a fixed straight reaction arm and is therefore a complete solution for flange bolt connections. The required spacing between two bolts can be rapidly and easily set using the adjustable reaction square, hence accelerating work.

The LKV-Z series is particularly suitable for mechanical and plant engineering, maintenance and the transport industry.



Series LKV-20Z/28Z

**Accuracy and consistency.** Built to a high standard of precision, to ensure that your torque tools operate to their full capabilities

**Calibration certificate.** Supplied with individual GEDORE calibration certificate, guaranteeing accuracy and performance

**Ease of use.** Can be used with confidence by operators at any skill level. Easy and quick to assemble. Clear output calculations. Low operator input results in higher output

**Flange bolt connections.** Particularly well-suited for flange bolt connections, as the reaction arm and adjustable output square enable rapid positioning of the torque multiplier

**Flexibility and versatility.** Existing tools can be used for additional tasks, meaning enhanced capabilities, reduced inventory costs and increased productivity. Valuable when working in confined spaces and difficult working conditions, because of the ability to use lighter and smaller torque tools

**Improved reaction arm.** Drop-forged reaction arm with lock on function, made of chrome-vanadium steel for durability, stability and performance. This is cranked and fixed to the tool

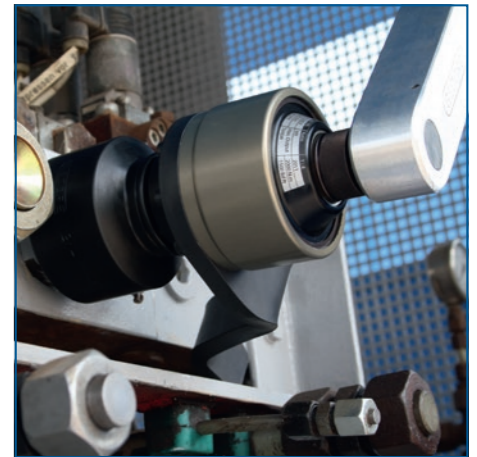
**Lightweight.** Lean, high-performance aluminium housing is 30% lighter than standard steel housing. This improves operator comfort and ease of use

**Production efficiency.** Increased speed and productivity can be achieved, using existing torque wrenches. Decreased bolting time prevents tightening failure. High level of torque from low level of input

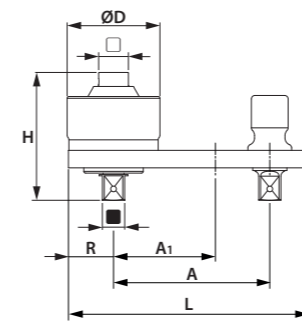
**Overload safety.** An integrated overload safety mechanism protects the gear unit, by ensuring that the square drive has a pre-determined breaking point. The square shears if overloaded and is easily replaced

**Return safety.** Integrated return safety for CW/CCW rotation and safe operation

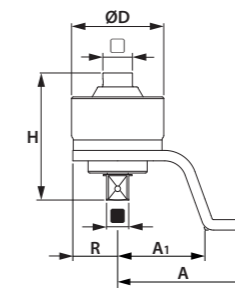
**Temperature-resistant.** Planet gear unit with ceramic-Teflon®-coated tooth flanks enables minimum device lubrication, meaning that there is no decrease in performance when outside temperatures are colder. This also means that the tool can be stored in a vehicle in a stable transport case



Series LKV-20L/28L



LKV-L



LKV-Z

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
**YouTube**  
Watch our video

| Order Code | Model   | N.m max | lbfft max | N.m min/max | lbfft min/max | Ratio | Drive | Drive | A mm | A mm | Ø D mm | H mm | R mm | kg  |
|------------|---------|---------|-----------|-------------|---------------|-------|-------|-------|------|------|--------|------|------|-----|
| 2653249    | LKV-20L | 580     | 430       | 100-2000    | 70-1500       | 1:4   | 3/4"  | 1     | 152  | 73   | 88     | 131  | 43   | 1.8 |
| 2653265    | LKV-20Z | 580     | 430       | 100-2000    | 70-1500       | 1:4   | 3/4"  | 1     | 150  | 100  | 88     | 131  | 43   | 1.8 |
| 2653257    | LKV-28L | 550     | 410       | 500-2800    | 400-2050      | 1:5.5 | 3/4"  | 1     | 199  | 83   | 106    | 146  | 52   | 2.4 |
| 2653273    | LKV-28Z | 550     | 410       | 500-2800    | 400-2050      | 1:5.5 | 3/4"  | 1     | 151  | 101  | 106    | 146  | 52   | 2.4 |

## The Cordless Torque Wrench LDA/LAW Series, 90 - 6,000 N.m

The new Gedore high-torque cordless torque wrench delivers accurate torque, wherever you need it. This powerful tool is capable of generating precise torque up to 6,000 N.m, without slip coupling and impact mechanism. The powerful lithium ion battery means that the tool can be used

independently and flexibly at great heights or in confined spaces. Once the battery is fully discharged, you can switch to electrical operation with the optional hybrid set. The Gedore Cordless Torque Wrench is available as a straight (LDA series) or angled (LAW series) version.



LDA series



Hybrid set option available

### INDUSTRY SECTORS



LAW series

**Accuracy and consistency.** Built to a high standard of precision, to ensure accurate torque application, every time, reducing the risk of over or under tightening

**Batteries that run for longer.** The powerful lithium ion batteries operate for twice as long as nickel-cadmium batteries. What's more, they operate with uniform peak performance until they are fully discharged

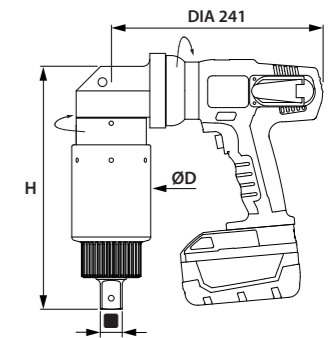
**Easy and safe to use.** The soft-grip of the motor unit sits comfortably in the hand, non-slip and fatigue-free, due to the gear centre of gravity. The battery can be inserted from two sides. The braked 360°-rotating drive unit prevents any injuries to the operator when used in confined spaces

**Power with precision.** Patented microprocessor electronics increase and regulate the battery voltage.

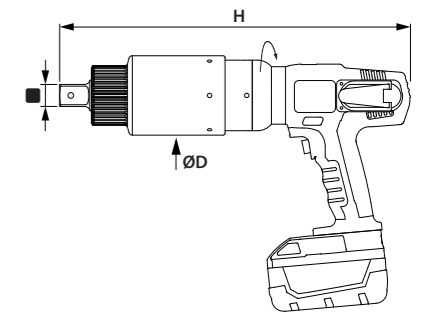
This increases the running time of the battery and maintains the torque at a constant level. This allows the tightening torque for each bolting operation to be precisely maintained and ensures stable torque accuracy over the entire discharging cycle of the battery

**Protection and safety.** The microprocessor prevents gear damage when loosening hard bolted connections. An active release function ensures that the wrench automatically releases after work is complete

**Standard accessories.** The LDA and LAW series both come complete with a machine reaction arm cranked, two lithium ion batteries, a battery charger, tool case, operating manual and factory calibration certificate



LAW series – angled version



LDA series – straight version

| Order Code | Model      | N.m min/max | lbf.ft min/max | Max RPM | Drive  | Ø D mm | H mm | kg  |
|------------|------------|-------------|----------------|---------|--------|--------|------|-----|
| 19100.000  | LDA - 05   | 90 - 500    | 70 - 370       | 48      | 3/4"   | 80     | 308  | 4.2 |
| 19140.000  | LDA - 07   | 120 - 700   | 90 - 520       | 27      | 3/4"   | 80     | 342  | 4.7 |
| 19190.000  | LDA - 09ST | 130 - 900   | 100 - 670      | 24      | 3/4"   | 80     | 342  | 4.7 |
| 19250.000  | LDA - 15   | 180 - 1500  | 110 - 1110     | 20      | 1"     | 88     | 357  | 5.9 |
| 19350.000  | LDA - 16ST | 250 - 2100  | 180 - 1550     | 9       | 1"     | 90     | 375  | 6.5 |
| 19450.000  | LDA - 28ST | 350 - 3100  | 260 - 2290     | 7       | 1"     | 90     | 398  | 7.2 |
| 19500.001  | LDA - 40   | 430 - 4000  | 320 - 2950     | 5       | 1"     | 94     | 398  | 7.5 |
| 19550.000  | LDA - 60   | 650 - 6000  | 480 - 4430     | 4       | 1 1/2" | 102    | 412  | 8.7 |
| 19191.000  | LAW - 09ST | 130 - 900   | 100 - 670      | 24      | 3/4"   | 80     | 220  | 5.9 |
| 19351.000  | LAW - 16ST | 250 - 2100  | 180 - 1550     | 9       | 1"     | 90     | 254  | 7.5 |
| 19451.000  | LAW - 28ST | 350 - 3000  | 260 - 2200     | 7       | 1"     | 90     | 277  | 8.3 |
| 19501.000  | LAW - 40   | 430 - 4000  | 320 - 2950     | 5       | 1"     | 94     | 277  | 8.5 |

# Torque Calibration

## Introduction

This section covers the comprehensive range of Torque Calibration equipment manufactured by Gedore Torque.

Torque calibration equipment is used for the testing, calibration and recalibration of Torque Tools. This ensures that torque equipment operates to peak performance and guarantees absolute and consistent accuracy and adherence to national and international standards. It also ensures that potential tooling problems are identified before they arise, ensuring that lifetime ownership costs are minimised. Torque Calibration equipment is also used to predict the behaviour of fasteners and to recommend optimum torque.

As an alternative to purchasing calibration equipment, the Gedore Torque service centre offers a wide range of Calibration Services. These can be carried out at our UKAS accredited Calibration Laboratory.

## Torque Calibration Analysers

Torque Calibration equipment is based upon Torque Calibration Analysers, of which there are two basic types: Electronic and Mechanical.

### Electronic Torque Calibration Analysers

Our modern range of Digital Torque Calibration Equipment is highly accurate, reliable and easy to use. It enables the user to download test results, test power tools, select different units of measurement and carry out calibration beyond the scope of mechanical calibration devices.

### Mechanical Torque Calibration Analysers

Mechanical Torque Analysers offers the user a low cost, robust and easy to use device, that's designed to set and calibrate low range torque tools. These Analysers will give many years of accurate and reliable service.

## Functions of Torque Calibration Analysers

This chart summarises the functions of the various Torque Calibration Analysers. Further details are on the following pages.

| Torque Calibration Analysers | Screwdriver Testing | Wrench Testing | Powered Tool Testing | Memory Capability | PC Download Capability | Interchangeable Sensors |
|------------------------------|---------------------|----------------|----------------------|-------------------|------------------------|-------------------------|
| CAPTURE System               | ✓                   | ✓              | ✓                    | ✓                 | ✓                      | ✓                       |
| CAPTURE Hub                  | ✓                   | ✓              | ✓                    | ✓                 | ✓                      | ✓                       |
| MTP                          | ✓                   | -              | -                    | -                 | -                      | -                       |
| MTS                          | ✓                   | ✓              | -                    | -                 | -                      | -                       |
| DREMOTEST E                  | ✓                   | ✓              | -                    | -                 | ✓                      | -                       |

## CAPTURE Display

This intuitive easy to use Display can be integrated with your existing Sensors. This enables you to benefit from the industry-leading CAPTURE system, whilst minimising investment.

**Cost-effective.** Minimise investment, as the CAPTURE Display is designed to integrate with customers' existing industry standard nominal 2mV/V Sensors

**Carry Case included.** To protect the CAPTURE Display when not in use it is supplied complete in a high impact plastic carry case

**Ease of use.** Designed to allow users to become productive quickly due to its intuitive features, such as easy to navigate menus, tool database and Plug & Play integration with CAPTURE Sensors

**Fully Inclusive.** The following items are included with the Display and are stored in the Carry Case - USB Power Cable (for charging from Mains or PC and also used for data transfer), Power Supply (multi-national), Calibration Certificate, Start Up Guide and Instructions

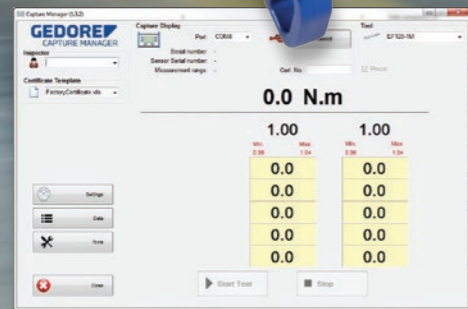
**Long Life Battery.** Work for longer between battery charges as the unit is fitted with a long life Lithium-ion battery and has an auto power down mode

**Memory.** CAPTURE Display can store 500 tools and 2000 data readings in the onboard memory

**Versatility.** Design allows static laboratory use and mobile data collection using an onboard memory and rechargeable battery. The data can then be transferred to PC via USB connection



CAPTURE Display



CAPTURE Manager

| Order Code | Model  |
|------------|--|
| 038700     | CAPTURE Display                                    |
| 038710     | CAPTURE Manager - PC Software                      |
| 038703     | CAPTURE Display - 4 Way Switch                     |
| 036226     | CAPTURE Cable - CAPTURE Display to Custom Sensor   |
| 036246     | CAPTURE Cable - CAPTURE Display to CAPTURE Sensor  |
| 036251     | CAPTURE Cable - CAPTURE Display to SDX Screwdriver |
| 036256     | CAPTURE Cable - CAPTURE Display to ETX Wrench      |

## CAPTURE Sensor

Torque Range from 0.1 to 1500 N.m

The CAPTURE Sensor is part of the industry-leading CAPTURE system, providing highly accurate torque measurement for Hand and Power Torque Tools.

CAPTURE Sensor CS 10



CAPTURE Sensor with optional rundown fixture

**Calibrated range:** 10% to 100% of capacity

**Carry Case.** To protect the Sensor when not in use it is supplied in a high impact plastic carry case

**Flexible.** Built-in flexibility as the sensor can be mounted horizontally or vertically without the need for any accessories

**Ease of Use.** Fast to set up when used with a CAPTURE Display due to the imbedded Quicktec technology that passes all the Sensor information to the Display

**Optional Torque Loading System.** Remove human error from testing by using the CAPTURE Sensor with the ISO 1500/90° Torque Loading System **(Adaptor required – see page 79)**

**Quick Change Plate.** For users with limited space who need to change Sensors between tests the Quick Change Plate increases calibration productivity

**UKAS Certification.** Sensors come complete with a UKAS certificate to BS 7882: class 1 or better

| Order Code | Model         | Range        | Drive | k mm<br>H x W x D | kg   | Hole Centres (mm) | Mounting Hole Size       | Fixings Supplied |        |
|------------|---------------|--------------|-------|-------------------|------|-------------------|--------------------------|------------------|--------|
| 038802     | CS 1.5        | 0.1-1.5 N.m  | 1/4"  | 62 x 85 x 65      | 0.50 | 56                | M8 x 1.25 (10 Deep Min)  | M8 x 50 *        | P34320 |
| 038805     | CS 2          | 0.2-2 N.m    | 1/4"  | 62 x 85 x 65      | 0.50 | 56                | M8 x 1.25 (10 Deep Min)  | M8 x 50 *        | P34320 |
| 037110     | RF 2 Rundown  | 0.2-2 N.m    | 1/4"  | –                 | 0.50 | –                 | –                        | M4 x 8           | P15900 |
| 038807     | CS 5          | 0.5-5 N.m    | 1/4"  | 62 x 85 x 65      | 0.50 | 56                | M8 x 1.25 (10 Deep Min)  | M8 x 50 *        | P34320 |
| 037120     | RF 5 Rundown  | 0.5-5 N.m    | 1/4"  | –                 | 0.50 | –                 | –                        | M4 x 8           | P15900 |
| 038810     | CS 10         | 1-10 N.m     | 1/4"  | 62 x 85 x 65      | 0.50 | 56                | M8 x 1.25 (10 Deep Min)  | M8 x 50 *        | P34320 |
| 038815     | CS 25         | 2.5-25 N.m   | 5/16" | 62 x 85 x 65      | 0.50 | 56                | M8 x 1.25 (10 Deep Min)  | M8 x 50 *        | P34320 |
| 037130     | RF 25 Rundown | 2.5-25 N.m   | 1/2"  | –                 | 0.50 | –                 | –                        | M4 x 8           | P15900 |
| 038820     | CS 50         | 5-50 N.m     | 3/8"  | 62 x 85 x 65      | 0.57 | 56                | M8 x 1.25 (10 Deep Min)  | M8 x 50 *        | P34320 |
| 038825     | CS 100        | 10-100 N.m   | 1/2"  | 62 x 85 x 65      | 0.60 | 56                | M8 x 1.25 (10 Deep Min)  | M8 x 50 *        | P34320 |
| 038830     | CS 250        | 25-250 N.m   | 1/2"  | 82 x 120 x 87     | 1.45 | 79                | M12 x 1.75 (16 Deep Min) | M12 x 1.75 *     | P34330 |
| 038835     | CS 500        | 50-500 N.m   | 3/4"  | 82 x 120 x 87     | 1.6  | 79                | M12 x 1.75 (16 Deep Min) | M12 x 1.75 *     | P34330 |
| 038845     | CS 1500       | 150-1500 N.m | 1"    | 100 x 165 x 134   | 4.00 | 125               | M16 x 2.0 (20 Deep Min)  | M16 x 90 *       | P34340 |

\* Socket Cap Head Screw

## CAPTURE Hub

The Gedore Torque CAPTURE Hub is the latest addition to the industry-leading Capture range of calibration equipment and is available from 2017. A lineside torque analyser for production power tools, it provides highly accurate measurement

both clockwise or anti clockwise, as well as hand tools if required, and incorporates an integrated Screen and Sensor. It is portable enough to be used as part of a mobile calibration centre and robust enough to be used in a production environment.



### CAPTURE Hub: the latest addition to the Capture range

**Calibrated range.** 10% to 100% of capacity

**Easy to Repair.** Modular design allows for simple component replacement

**Cost-effective.** Minimise investment, as the CAPTURE Hub is designed to be a standalone solution, or to integrate with customers' existing Capture components as well as other industry standard nominal 2mV/V Sensors

**Ease of use.** Intuitive software design is similar to CAPTURE Display allowing existing Capture users to be familiar with the architecture and new users to become productive quickly, with its easy to use menus and Plug & Play functionality

**Flexibility.** The CAPTURE Hub can integrate with CAPTURE Manager PC software (Order Code 038710) and users with extra Sensors can plug them directly into the external port on the side of the CAPTURE Hub. The unit can also be mounted horizontally or vertically to meet the existing setups of customers

**Long Life Battery.** Work for longer between battery charges as the unit is fitted with an improved long life Lithium-ion battery and has a customisable auto power down mode

**Carry Case.** To protect the CAPTURE Hub when not in use it is supplied in a high impact plastic carry case

**Calibration Certificate.** All CAPTURE Hub systems are supplied complete with in house Certificate which is traceable to International Standards. Accuracy +/-1% of reading. UKAS certification is available on request at additional cost

**Versatility.** The design allows static laboratory use and mobile data collection using an on-board memory and rechargeable battery. This means that the system can be used as part of mobile calibration centre and also at the point of use. The data can be transferred to PC via USB connection

**Yet more versatility.** Can be used with Optional Torque Loading System. Remove human error from testing by using the CAPTURE Hub with the ISO-A Loading System (**Adaptor required – see page 79**)

**Tool Storage and memory.** The CAPTURE Hub can store 50 tools and 2000 readings



Rundown fixture

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?



Watch our video

| Order Code | Model         | Range      | Drive         | $\begin{matrix} \text{mm} \\ \text{H} \times \text{W} \times \text{D} \end{matrix}$ | $\begin{matrix} \text{kg} \\ \text{Weight} \end{matrix}$ | Hole Centres (mm) |
|------------|---------------|------------|---------------|---|--|-------------------|
| 036910     | CH 1          | 0.1-1 N.m  | $\frac{1}{4}$ | 50 x 200 x 110  | 0.50   | 56                |
| 036920     | CH 2          | 0.2-2 N.m  | $\frac{1}{4}$ | 50 x 200 x 110  | 0.50   | 56                |
| 037110     | RF 2 Rundown  | 0.2-2 N.m  | $\frac{1}{4}$ | 62 x 93 x 32  | 0.50   |                   |
| 036930     | CH 5          | 0.5-5 N.m  | $\frac{1}{4}$ | 50 x 200 x 110  | 0.50   | 56                |
| 037120     | RF 5 Rundown  | 0.5-5 N.m  | $\frac{1}{4}$ | 62 x 78 x 32  | 0.50   |                   |
| 036940     | CH 25         | 2.5-25 N.m | $\frac{7}{8}$ | 50 x 200 x 110  | 0.50   | 56                |
| 037130     | RF 25 Rundown | 2.5-25 N.m | $\frac{1}{2}$ | 62 x 120 x 32   | 0.50   |                   |

## CAPTURE Manager

The CAPTURE Manager is PC Software that allows storage, management and analysis of tools and data readings. It is part of the

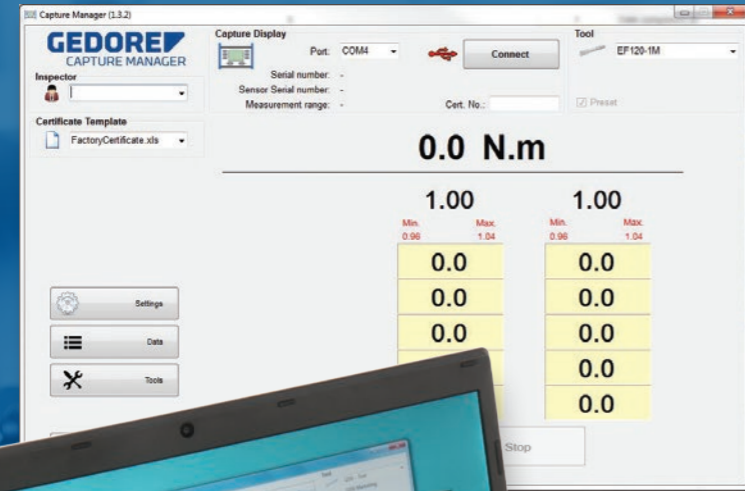
industry-leading CAPTURE system, providing highly accurate torque measurement for Hand and Power Torque.

**Data management and analysis.** Manage tool and test data through the CAPTURE Manager PC software. The software also makes analysing the data quick and easy through integration with Microsoft Excel®

**Test Wizard.** Ensures tools are performing to the required standard through the ISO 6789 test wizard. This clear and easy to use feature guides the user through the test procedure

**Data storage.** The CAPTURE Manager PC software allows unlimited storage of tools and data readings that can be uploaded and downloaded to the CAPTURE Display via USB connection

**Tool Calibration Certificates.** Tool traceability can be achieved as the CAPTURE Manager PC software can generate customised calibration certificates to the requirements of ISO 6789



CAPTURE Manager



## Rotary Torque Sensors

Torque range from 0.2 to 1400 N.m

These Sensors provide highly accurate torque measurement for Hand and Power Torque Tools. They can be used in conjunction with our CAPTURE Display or with your current Torque Analyser. Connect between tool and joint, to measure the actual torque being applied from the joint to the fastener.

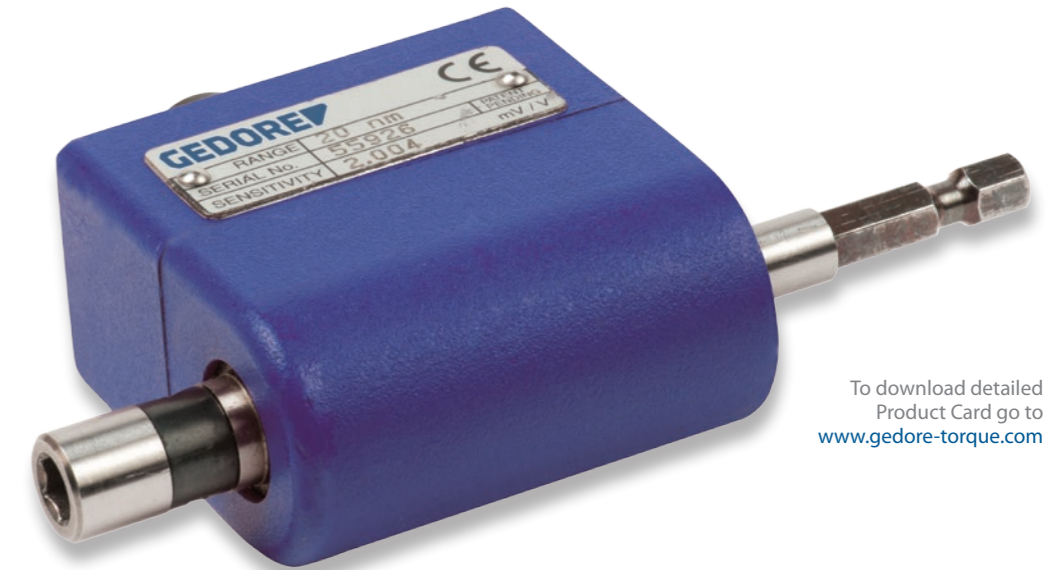
**Accurate measurement.** These Sensors are designed to ensure your tightening process is within acceptable limits with a high degree of certainty. The Rotary Torque Sensor is the ideal torque-auditing tool for testing the actual torque being applied on the assembly application. By connecting a rotary torque sensor between an electric or pneumatic tool and assembly application, you can monitor the torque being applied from the tool to fastener or bolt

**Inline connection.** Designed to be placed inline with the tooling, they measure the actual torque being applied on the assembly application, accurate to 0.3% of maximum torque applied. By connecting a rotary torque sensor between an electric or pneumatic tool and assembly application, you can monitor the torque being applied from the tool to fastener or bolt

**UKAS certificates.** Rotary Sensors come complete with UKAS certificates to BS7882

**Versatile.** These Sensors are designed to be compatible with most industry standard devices

**Work with most Torque Analysers.** A cost effective solution, as in most cases, there is no need to upgrade



To download detailed Product Card go to [www.gedore-torque.com](http://www.gedore-torque.com)

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476 Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?



Watch our video

| Order Code | Model      | Calibrated Range |  | Drive | Maximum RPM |              | Width<br>k mm | Height<br>k mm | Depth<br>k mm | kg   |
|------------|------------|------------------|--|-------|-------------|--------------|---------------|----------------|---------------|------|
|            |            | ISO              |  |       | Continuous  | Intermittent |               |                |               |      |
| 036510     | XR 2 HD    | 0.2-2 N.m        |  | 1/4   | 5000        | 11000        | 116           | 56.0           | 68.0          | 0.21 |
| 036520     | XR 5 HD    | 0.5-5 N.m        |  | 5/16  | 5000        | 11000        | 116           | 56.0           | 68.0          | 0.21 |
| 036530     | XR 20 HD   | 2-20 N.m         |  | 1/2   | 5000        | 11000        | 116           | 56.0           | 68.0          | 0.21 |
| 036540     | XR 20 SD   | 2-20 N.m         |  | 3/8   | 5000        | 11000        | 71.5          | 56.0           | 71.5          | 0.20 |
| 036550     | XR 75 SD   | 7.5-75 N.m       |  | 3/4   | 2500        | 10000        | 77.0          | 56.0           | 74.0          | 0.24 |
| 036560     | XR 180 SD  | 18-180 N.m       |  | 1     | 2500        | 7600         | 87.0          | 58.0           | 82.5          | 0.43 |
| 036570     | XR 500 SD  | 50-500 N.m       |  | 1 1/2 | 2000        | 5000         | 106           | 60.0           | 93.5          | 0.78 |
| 036580     | XR 1400 SD | 140-1400 N.m     |  | 2     | 1000        | 4400         | 125           | 64.5           | 104           | 1.50 |

| Order Code | Description                   |
|------------|-------------------------------|
| 038710     | CAPTURE Manager - PC Software |

## MTP & MTS Mechanical Torque Testers

Torque range from 0 to 25 N.m

Mechanical Torque Calibration Analysers that can be used in a many different situations to provide accurate measurement of torque values for hand-operated Torque Tools. These testers are portable, robust and do not require power.

## MTP & MTS Mechanical Torque Testers

MTP 10 & MTS 35, 130, 400, 1200 & 2500

**Accurate measurement.** Designed to monitor low torque values for Hand operated Torque Tools, providing +/-2% accuracy

**Ease of use.** Perfect for use by operators of any skill level, as the robust design eliminates the fear of damage caused by overloading

**Fast results.** The MTS Testers are designed to quickly give confidence that your Torque Tools are operating within limits. The easy to read analogue dial, peak torque and limit pointers all work together to give the operator instant confirmation of tool performance

**Long tool life.** High quality and robust design, with a two year warranty

**End Fittings.** Compatible with Setting adaptors see page 84

**Versatile.** Able to operate in a wide variety of environments and situations from shop floor to field operations as the MTS and MTP have no requirement for power

**Servicing.** Regular servicing is essential to ensure precision and consistent accuracy



**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?



| Order Code | Model    | ISO         | Calibrated Range |               |            | Drive       | kg   | Accuracy |
|------------|----------|-------------|------------------|---------------|------------|-------------|------|----------|
|            |          |             | SI               | Imperial      | SI         |             |      |          |
| 058100     | MTP 10   | 0-10 cN.m   | 0.5 cN.m         | 0-14 ozf-in   | 1 ozf-in   | 1/4"        | 0.98 | +/- 2%   |
| 058110     | MTS 35   | 7-35 cN.m   | 0.5 cN.m         | 10-50 ozf-in  | 0.5 ozf-in | 1/4" + 1/4" | 3.20 | +/- 2%   |
| 058120     | MTS 130  | 26-130 cN.m | 2 cN.m           | 36-180 ozf-in | 2 ozf-in   | 1/2" + 1/4" | 3.20 | +/- 2%   |
| 058130     | MTS 400  | 0.8-4 N.m   | 0.05 N.m         | 7-36 lbf-in   | 0.5 lbf-in | 1/2" + 1/4" | 3.20 | +/- 2%   |
| 058140     | MTS 1200 | 2.4-12 N.m  | 0.2 N.m          | 24-120 lbf-in | 2 lbf-in   | 3/4" + 7/8" | 3.20 | +/- 2%   |
| 058150     | MTS 2500 | 5-25 N.m    | 0.5 N.m          | 44-220 lbf-in | 5 lbf-in   | 1" + 9/8"   | 3.20 | +/- 2%   |

## DREMOTEST E Torque Calibration Analysers

Torque range from 0.2 to 3000 N.m

Robust, accurate Torque Calibration Analysers that are ideal for Hand Torque Tools covering a wide torque range, in a Workshop or Repair environment.

**Accurate measurement.** Easy to use, robust Torque Calibration Analysers providing +/-1% accuracy

**Data management capability.** A RS 232 output allows data to be exported to Hyper Terminal Software

**Full set of Accessories.** Drive adaptor, mains lead, connectors and Certificate of Calibration all included

**Long Service Life.** Simple lightweight design, backed up by a full Aftersales and Recalibration Service

**Versatility.** Five models available covering a range from 0.2 to 3000 N.m

**Value for money.** A comprehensive package, at a competitive price compared to traditional Mechanical Analysers

DREMOTEST E 12



DREMOTEST E 55



## ISO 1500/90° & ISO-A

### Torque Loading Systems

Versatile Torque Loading Systems that enable precise Torque calibration and testing, up to a surprisingly high level of torque, to be undertaken on your own premises. Accurate and easy to use, the possibility of human error or variation is eliminated.

**Accurate.** These Torque Loading Systems enable the accurate testing of all Torque Wrenches within their given range, whilst removing the possibility of human error or variation

**Adaptable.** An easy adjustment system to suit the individual Torque Wrench being calibrated

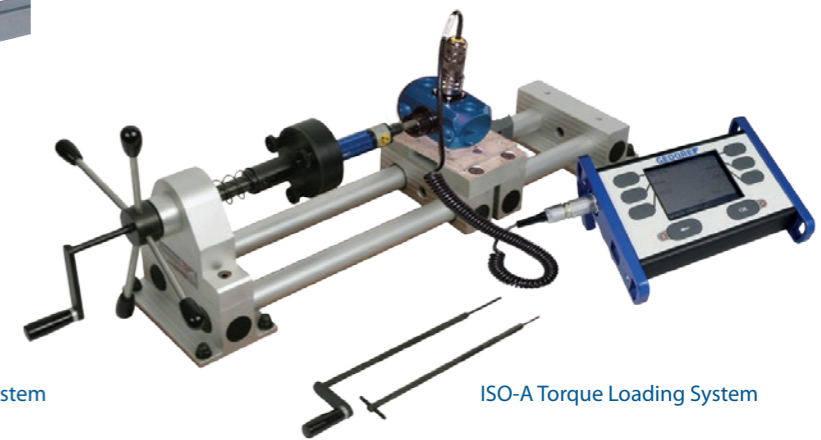
**Easy to use.** 1200:1 Gearbox requires low operator effort, therefore torques as high as 1500 N.m can be achieved with ease

**Improved in-house capability.** Torque calibration and testing can be carried out on your own premises, eliminating the need to use external suppliers

**ISO accreditation.** Meets the International Standard ISO 6789 for the calibration of Torque Wrenches



ISO 1500/90° Torque Loading System



ISO-A Torque Loading System

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476 Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
**YouTube**  
Watch our video

| Order Code | Model            | Calibrated Range |            |                 |              | Drive           | kg   | Accuracy |
|------------|------------------|------------------|------------|-----------------|--------------|-----------------|------|----------|
|            |                  | ISO              | Resolution | Imperial        | Resolution   |                 |      |          |
| 2288311    | DREMOTEST E 12   | 0.2-12 N.m       | 0.001 N.m  | 1.8-106 lbf.in  | 0.001 lbf.in | 1/4 + 1/4 + 7/8 | 2.60 | +/- 1%   |
| 1947699    | DREMOTEST E 55   | 0.9-55 N.m       | 0.01 N.m   | 0.7-40 lbf.ft   | 0.01 lbf.ft  | 1/4 + 3/8       | 2.60 | +/- 1%   |
| 1856111    | DREMOTEST E 320  | 9-320 N.m        | 0.1 N.m    | 7-236 lbf.ft    | 0.1 lbf.ft   | 3/8 + 1/2       | 2.60 | +/- 1%   |
| 1947702    | DREMOTEST E 1100 | 90-1100 N.m      | 1 N.m      | 66-811 lbf.ft   | 1 lbf.ft     | 1/2 + 3/4       | 10.0 | +/- 1%   |
| 2529858    | DREMOTEST E 3000 | 500-3000 N.m     | 1 N.m      | 369-2214 lbf.ft | 144 lbf.ft   | 1               | 26.0 | +/- 1%   |

| Order Code | Model                                     | Maximum Capacity |             | Maximum Tool Length |      |
|------------|---|------------------|-------------|---------------------|------|
|            |   | ISO              | Imperial    | mm                  | kg   |
| 014300     | ISO 1500/90° Torque Loading System        | 1500 N.m         | 1107 lbf.ft | 1350                | 32.0 |
| 014400     | Torque Master ISO-A Torque Loading System | 30 N.m           | 22 lbf.ft   | 300                 | 8.75 |
| D18204     | E-tp Mounting Kit                         | 30 N.m           | 22 lbf.ft   | 300                 | 1.60 |
| D18205     | CAPTURE Sensor & CAPTURE Hub ISO-A Mount  | 30 N.m           | 22 lbf.ft   | 300                 | 3.40 |
| 038771     | CAPTURE Sensor ISO 1500/90° Adaptor       | 1500 N.m         | 1107 lbf.ft | -                   | 2.60 |



## Special Torque Tool Projects

### Introduction

Our 80 years experience and expertise as the leading producer of torque tools mean that we are able to meet the needs of our customers for tools to meet the most exacting and specialised torque applications.

At our UK site, the world's most advanced and fully-integrated torque tool manufacturing facility, we are able to combine innovative expert engineering design skills with our high quality core product range to produce bespoke tools.

For our customers, this means that whatever challenges they are facing, we are able to find cost-effective solutions. For the Royal Navy (see right-hand facing page), we were able to help save money and lives. Your needs may be less dramatic, but we will take them just as seriously.

#### **In this section you will find further information about:**

Custom Tool Kit Designs

Tailor-made Torque Screwdrivers and Wrenches

Private Label Torque Tools

#### **HMS Illustrious: the power of precision**

*The correct application of torque guarantees the safety, reliability and longer life of products. This was certainly the case when Gedore Torque worked with the Ministry of Defence and the Royal Navy to build a custom tool kit for maintaining lifejackets on ships like the famous aircraft carrier, HMS Illustrious. With more than 1,000 crew and Flight Arm personnel on HMS Illustrious alone, that's a serious task. Said Petty Officer Keith Spiller, responsible for the project, 'At the end of the day, by applying exactly the correct level of torque to the equipment, we're saving lives – and we're also saving money.'*



## Custom Tool Kit Designs

Our Custom Design Service can create a complete Torque Tool Kit, tailor-made to meet your application needs.

**Experience and expertise.** A wide range of Tool Kit needs can be met using our Custom Design Service. This draws upon our experience and expert engineering design skills to produce bespoke tools to meet the most exacting of application needs

**Tool Cases.** To meet operational needs, Tool Kits can be supplied in bespoke tool cases and foam cut outs. These can range from standard design for use in normal working environments to high performance cases for use in harsh operational conditions

**Tool Kit Versatility.** A combination of Gedore Torque and outsourced tools can be created to meet your particular specification



## Custom Torque Tool Designs

Our Custom Design Service can create Torque Tools to meet specific operational needs.

**Experience and expertise.** Our Custom Design Service can design and produce Torque Tools to a customised specification to meet your operational and application needs. This draws upon our experience and expert engineering design skills to produce bespoke tools to meet the most exacting of application needs

**Innovation.** Our track record of torque innovation means that we are able to meet the wide range of performance criteria required from the modern Torque Tool with a range of innovative tool designs and appropriate materials

**Operational Integrity.** Our tried and tested tool designs and technology can be depended upon to produce bespoke successful engineering solutions



Modification of RTU for Track Bolt Tightening

## Private Label Torque Tools

Our Custom Design Service can create a complete Torque Tool Kit, tailor-made to meet your application needs.

**Image enhancement.** As well as enabling you to carry out the best possible job, private label tools can also provide you with a more professional image

**Our tools, your design.** A full Design Service is available for custom label tools that use a variety of materials, component design, tool labelling and custom tool certification

**Technology-aided design.** Cost-effective own branding has been made easier by the use of our modern 3D CAD Systems, laser engraving machines and custom label manufacturing technology

**Let's Torque.** Use our Tool Selector at [www.gedore-torque.com/tool-selector](http://www.gedore-torque.com/tool-selector) to select the right tool for your application, then tell us your branding requirements on +44 (0) 1483 894 476



Private Label of an Ergo Quickset Adjustable Torque Screwdriver



Private Branding of an ADS Dial Wrench



TSN Wrench Private Branding

Private Label projects are subject to minimum quantities

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

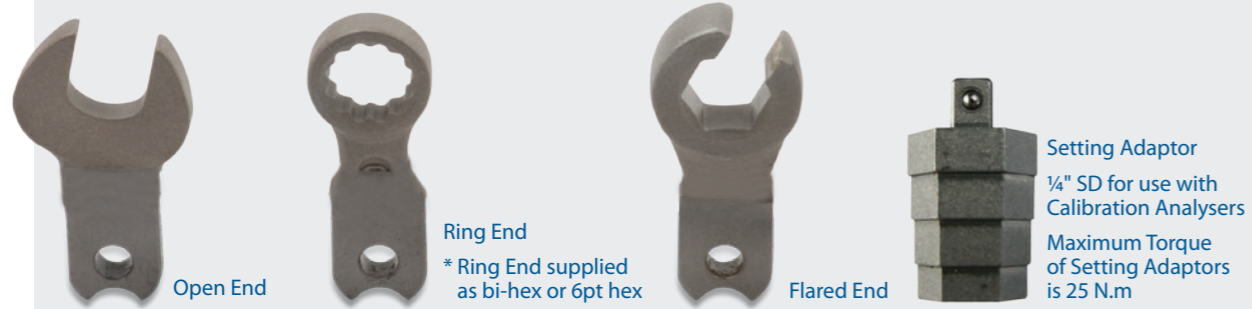
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# Torque Accessories

## Torque Wrench End Fittings

### Captive Pin Type

Metric & Imperial Accessories compatible with TBN Preset Breaking Torque Wrenches, Models TBN 2 & 10 (see page 38)



| Metric         |                     | Metric         |                      | Metric         |                       | Metric         |                            |
|----------------|---------------------|----------------|----------------------|----------------|-----------------------|----------------|----------------------------|
| Order code A/F | Order code Open End | Order code A/F | Order code Ring End* | Order code A/F | Order code Flared End | Order code A/F | Order code Setting Adaptor |
| 3.2            | 012000              | 3.2            | 012250               | 3.2            | -                     | 3.2            | 012700                     |
| 4              | 012005              | 4              | 012255               | 4              | -                     | 4              | 012700                     |
| 5              | 012010              | 5              | 012260               | 5              | -                     | 5              | 012700                     |
| 5.5            | 012015              | 5.5            | 012265               | 5.5            | -                     | 5.5            | 012700                     |
| 6              | 012020              | 6              | 012270               | 6              | -                     | 6              | 012705                     |
| 7              | 012025              | 7              | 012275               | 7              | -                     | 7              | 012705                     |
| 8              | 012030              | 8              | 012280               | 8              | 012505                | 8              | 012705                     |
| 9              | 012035              | 9              | 012285               | 9              | 012510                | 9              | 012705                     |
| 10             | 012040              | 10             | 012290               | 10             | 012515                | 10             | 012710                     |
| 11             | 012045              | 11             | 012295               | 11             | 012520                | 11             | 012710                     |
| 12             | 012050              | 12             | 012300               | 12             | 012525                | 12             | 012710                     |
| 13             | 012055              | 13             | 012305               | 13             | 012530                | 13             | 012710                     |
| 14             | 012060              | 14             | 012310               | 14             | 012535                | 14             | 012715                     |
| 15             | 012065              | 15             | 012315               | 15             | 012540                | 15             | 012715                     |
| 16             | 012070              | 16             | 012320               | 16             | 012545                | 16             | 012715                     |
| 17             | 012075              | 17             | 012325               | 17             | 012550                | 17             | 012715                     |
| 18             | 012080              | 18             | 012330               | 18             | -                     | 18             | 012720                     |
| 19             | 012085              | 19             | 012335               | 19             | 012555                | 19             | 012720                     |
| 20             | 012090              | 20             | 012340               | 20             | -                     | 20             | 012720                     |
| 21             | 012095              | 21             | 012345               | 21             | -                     | 21             | 012720                     |
| 22             | 012100              | 22             | 012350               | 22             | 012560                | 22             | 012722                     |
| 23             | 012105              | 23             | 012355               | 23             | -                     | 23             | 012722                     |
| 24             | 012110              | 24             | 012360               | 24             | 012565                | 24             | 012722                     |
| 25             | 012115              | 25             | 012365               | 25             | -                     | 25             | 012722                     |

| Imperial       |                     | Imperial       |                      | Imperial       |                       | Imperial       |                            |
|----------------|---------------------|----------------|----------------------|----------------|-----------------------|----------------|----------------------------|
| Order code A/F | Order code Open End | Order code A/F | Order code Ring End* | Order code A/F | Order code Flared End | Order code A/F | Order code Setting Adaptor |
| 5/32           | 012150              | 5/32           | 012400               | 5/32           | -                     | 5/32           | 012725                     |
| 3/16           | 012155              | 3/16           | 012405               | 3/16           | -                     | 3/16           | 012725                     |
| 7/32           | 012160              | 7/32           | 012410               | 7/32           | -                     | 7/32           | 012725                     |
| 1/4            | 012165              | 1/4            | 012415               | 1/4            | 012600                | 1/4            | 012725                     |
| 5/16           | 012175              | 5/16           | 012420               | 5/16           | 012605                | 5/16           | 012730                     |
| 3/8            | 012185              | 3/8            | 012425               | 3/8            | 012610                | 3/8            | 012730                     |
| 7/16           | 012195              | 7/16           | 012430               | 7/16           | 012615                | 7/16           | 012730                     |
| 1/2            | 012200              | 1/2            | 012435               | 1/2            | 012620                | 1/2            | 012730                     |
| 9/16           | 012205              | 9/16           | 012440               | 9/16           | 012625                | 9/16           | 012735                     |
| 5/8            | 012210              | 5/8            | 012445               | 5/8            | 012630                | 5/8            | 012735                     |
| 11/16          | 012215              | 11/16          | 012450               | 11/16          | -                     | 11/16          | 012735                     |
| 3/4            | 012220              | 3/4            | 012455               | 3/4            | 012635                | 3/4            | 012735                     |
| 13/16          | 012225              | 13/16          | 012460               | 13/16          | -                     | 13/16          | 012740                     |
| 7/8            | 012230              | 7/8            | 012465               | 7/8            | 012640                | 7/8            | 012740                     |
| 15/16          | 012235              | 15/16          | 012470               | 15/16          | -                     | 15/16          | 012740                     |
| 1              | 012240              | 1              | 012475               | 1              | 012645                | 1              | 012740                     |

To convert TBN 2 & 10 to 1/4" Square Drive

| Type        | Order Code | Centre mm |
|-------------|------------|-----------|
| 1/4 Fixed   | A36340     | 27        |
| 1/4 Ratchet | A73640     | 27        |



### Hex Key Setting Adaptors

| Order Code | Hex Key Sizes A/F |
|------------|-------------------|
| A45271     | 1.0 - 2.5 mm      |
| A45272     | 3.0 - 5.0 mm      |
| A45273     | 6.0 - 8.0 mm      |



### Hex Key Adaptors

| Order Code | Hex Key Sizes mm |
|------------|------------------|
| A37610     | 1.0 - 2.5 mm     |
| A37620     | 3.0 - 5.0 mm     |
| A38350     | 6.0 - 8.0 mm     |



### Blank End

For making up Specials  
Material 070M20 (EN3B)

| Order Code | Centre mm |
|------------|-----------|
| A64440     | 12        |
| A64450     | 34        |



## Torque Wrench End Fittings

### 8 mm Spigot Type

Metric & Imperial Accessories compatible with ATB Adjustable Breaking Torque Wrenches, Models ATB 2.5, 5 & 10 (see page 47)



| Metric         |                     | Metric         |                      | Metric         |                       |
|----------------|---------------------|----------------|----------------------|----------------|-----------------------|
| Order code A/F | Order code Open End | Order code A/F | Order code Ring End* | Order code A/F | Order code Flared End |
| 3.2            | 049000              | 3.2            | 049250               | 3.2            | -                     |
| 4              | 049005              | 4              | 049255               | 4              | -                     |
| 5              | 049010              | 5              | 049260               | 5              | -                     |
| 5.5            | 049015              | 5.5            | 049265               | 5.5            | -                     |
| 6              | 049020              | 6              | 049270               | 6              | -                     |
| 7              | 049025              | 7              | 049275               | 7              | -                     |
| 8              | 049030              | 8              | 049280               | 8              | 049505                |
| 9              | 049035              | 9              | 049285               | 9              | 049510                |
| 10             | 049040              | 10             | 049290               | 10             | 049515                |
| 11             | 049045              | 11             | 049295               | 11             | 049520                |
| 12             | 049050              | 12             | 049300               | 12             | 049525                |
| 13             | 049055              | 13             | 049305               | 13             | 049530                |
| 14             | 049060              | 14             | 049310               | 14             | 049535                |
| 15             | 049065              | 15             | 049315               | 15             | 049540                |
| 16             | 049070              | 16             | 049320               | 16             | 049545                |
| 17             | 049075              | 17             | 049325               | 17             | 049550                |
| 18             | 049080              | 18             | 049330               | 18             | -                     |
| 19             | 049085              | 19             | 049335               | 19             | 049555                |
| 20             | 049090              | 20             | 049340               | 20             | -                     |
| 21             | 049095              | 21             | 049345               | 21             | -                     |
| 22             | 049100              | 22             | 049350               | 22             | 049560                |
| 23             | 049105              | 23             | 049355               | 23             | -                     |
| 24             | 049110              | 24             | 049360               | 24             | 049565                |
| 25             | 049115              | 25             | 049365               | 25             | -                     |

| Imperial       |                     | Imperial       |                      | Imperial       |                       |
|----------------|---------------------|----------------|----------------------|----------------|-----------------------|
| Order code A/F | Order code Open End | Order code A/F | Order code Ring End* | Order code A/F | Order code Flared End |
| 5/32           | 049150              | 5/32           | 049400               | 5/32           | -                     |
| 3/16           | 049155              | 3/16           | 049405               | 3/16           | -                     |
| 7/32           | 049160              | 7/32           | 049410               | 7/32           | -                     |
| 1/4            | 049165              | 1/4            | 049415               | 1/4            | 049600                |
| 5/16           | 049175              | 5/16           | 049420               | 5/16           | 049605                |
| 3/8            | 049185              | 3/8            | 049425               | 3/8            | 049610                |
| 7/16           | 049195              | 7/16           | 049430               | 7/16           | 049615                |
| 1/2            | 049200              | 1/2            | 049435               | 1/2            | 049620                |
| 9/16           | 049205              | 9/16           | 049440               | 9/16           | 049625                |
| 5/8            | 049210              | 5/8            | 049445               | 5/8            | 049630                |
| 11/16          | 049215              | 11/16          | 049450               | 11/16          | -                     |
| 3/4            | 049220              | 3/4            | 049455               | 3/4            | 049635                |
| 13/16          | 049225              | 13/16          | 049460               | 13/16          | -                     |
| 7/8            | 049230              | 7/8            | 049465               | 7/8            | 049640                |
| 15/16          | 049235              | 15/16          | 049470               | 15/16          | -                     |
| 1              | 049240              | 1              | 049475               | 1              | 049645                |

To convert 8mm Spigot to 1/4" Square Drive

| Type      | Order Code | Centre mm |
|-----------|------------|-----------|
| 1/4 Fixed | A29071     | 25        |



| Type        | Order Code | Centre mm |
|-------------|------------|-----------|
| 1/4 Ratchet | A28990     | 25        |



For more information: Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
**YouTube**  
Watch our video

# Torque Wrench End Fittings

## 16 mm Spigot Type

Metric & Imperial Accessories compatible with the following Torque Wrenches:

ATB Adjustable Breaking Torque Wrenches, models ATB 25, 50 & 100. **See page 49**

TBN Preset Breaking Torque Wrenches, models 25, 65, 135 & 200. **See page 38-39**

Torcofix Production Clicker Torque Wrenches. **See page 50-51**

TSC Adjustable Slipping Torque Wrenches. **See page 45**



Open End

Ring End

Flared End



Blank End Fitting  
16 mm Spigot Type  
Order Code: A55230

Available to customers wishing to make special spanner end attachments



Square Drive  
16 mm Spigot Type  
Order Code:  
3/8" - 029040  
1/2" - 029060



Ratchet Head  
Square Drive  
16 mm Spigot Type  
Order Code:  
3/8" - 029010  
1/2" - 029030

| Metric |            | Metric |            | Metric |            |
|--------|------------|--------|------------|--------|------------|
| A/F    | Order code | A/F    | Order code | A/F    | Order code |
|        | Open End   |        | Ring End   |        | Flared End |
| 7      | 026020     | 7      | 027220     | 7      | 028190     |
| 8      | 026040     | 8      | 027240     | 8      | 028200     |
| 9      | 026060     | 9      | 027260     | 9      | 028210     |
| 10     | 026080     | 10     | 027280     | 10     | 028220     |
| 11     | 026100     | 11     | 027300     | 11     | 028240     |
| 12     | 026120     | 12     | 027320     | 12     | 028260     |
| 13     | 026140     | 13     | 027340     | 13     | 028280     |
| 14     | 026160     | 14     | 027360     | 14     | 028300     |
| 15     | 026180     | 15     | 027380     | 15     | 028320     |
| 16     | 026200     | 16     | 027400     | 16     | 028340     |
| 17     | 026220     | 17     | 027420     | 17     | 028360     |
| 18     | 026240     | 18     | 027440     | 18     | 028380     |
| 19     | 026260     | 19     | 027460     | 19     | 028400     |
| 20     | 026280     | 20     | 027480     | 20     | 028420     |
| 21     | 026300     | 21     | 027500     | 21     | 028440     |
| 22     | 026320     | 22     | 027520     | 22     | 028460     |
| 23     | 026340     | 23     | 027540     | 23     | 028480     |
| 24     | 026360     | 24     | 027560     | 24     | 028500     |
| 25     | 026380     | 25     | -          | 25     | -          |
| 26     | 026400     | 26     | 027600     | 26     | -          |
| 27     | 026420     | 27     | 027620     | 27     | 028520     |
| 30     | 026440     | 30     | -          | 30     | -          |
| 32     | 026460     | 32     | -          | 32     | -          |

| Metric |            | Metric |            | Metric |            |
|--------|------------|--------|------------|--------|------------|
| A/F    | Order code | A/F    | Order code | A/F    | Order code |
|        | Open End   |        | Ring End   |        | Flared End |
| 5/16   | 026620     | 5/16   | 027720     | 5/16   | -          |
| 3/8    | 026640     | 3/8    | 027740     | 3/8    | 028600     |
| 7/16   | 026650     | 7/16   | 027750     | 7/16   | 028620     |
| 1/2    | 026660     | 1/2    | 027760     | 1/2    | 028640     |
| 9/16   | 026680     | 9/16   | 027780     | 9/16   | 028660     |
| 5/8    | 026690     | 5/8    | 027790     | 5/8    | 028680     |
| 11/16  | 026700     | 11/16  | 027800     | 11/16  | 028700     |
| 3/4    | 026710     | 3/4    | 027810     | 3/4    | 028710     |
| 13/16  | 026720     | 13/16  | 027820     | 13/16  | 028720     |
| 7/8    | 026740     | 7/8    | 027840     | 7/8    | 028740     |
| 15/16  | 026750     | 15/16  | 027850     | 15/16  | 028750     |
| 1      | 026760     | 1      | 027860     | 1      | 028760     |
| 11/16  | 026770     | 11/16  | 027880     | 11/16  | 028770     |
| 11/8   | 026780     | 11/8   | -          | 11/8   | 028780     |
| 13/16  | 026800     | 13/16  | 027920     | 13/16  | 028800     |
| 11/4   | 026820     | 11/4   | -          | 11/4   | -          |



Hex Key Adaptors

| Order Code | Hex Key Sizes<br>k mm |
|------------|-----------------------|
| A38940     | 2.5 - 5.0             |
| A38950     | 6.0 - 8.0             |

# Rectangular End Fittings

## 9x12mm Type



| Metric |            | Metric |            | Metric |            |
|--------|------------|--------|------------|--------|------------|
| A/F    | Order code | A/F    | Order code | A/F    | Order code |
|        | Open End   |        | Ring End   |        | Flared End |
| 7      | 7688390    | 7      | 7691340    | 7      | -          |
| 8      | 7688550    | 8      | 7691420    | 8      | -          |
| 9      | 7679050    | 9      | -          | 9      | -          |
| 10     | 7688630    | 10     | 7691690    | 10     | 7685290    |
| 11     | 7688980    | 11     | 7691770    | 11     | 7685370    |
| 12     | 7679560    | 12     | 7677940    | 12     | 7699590    |
| 13     | 7689010    | 13     | 7691930    | 13     | 7679210    |
| 14     | 7689360    | 14     | 7692230    | 14     | 7679480    |
| 15     | 7689440    | 15     | 7692580    | 15     | -          |
| 16     | 7679990    | 16     | 7678080    | 16     | -          |
| 17     | 7689600    | 17     | 7692740    | 17     | 7685880    |
| 18     | 7684560    | 18     | 7678160    | 18     | 7679640    |
| 19     | 7689790    | 19     | 7692820    | 19     | 7686260    |
| 20     | -          | 20     | -          | 20     | -          |
| 21     | -          | 21     | 7678240    | 21     | -          |
| 22     | -          | 22     | 7693040    | 22     | 7679720    |

Accessories compatible with the following Torque Wrenches:

Torcofix Adjustable Clicker Torque Wrenches, models 25SE, 50SE & 100SE. **See page 51**

TBN Preset Breaking Torque Wrenches, models 2G, 10G, 25G, 65G & 135G. **See page 39**



Reversible Ratchet Head

| Type | Order Code |
|------|------------|
| 1/4  | 7672710    |
| 3/8  | 7686500    |
| 1/2  | 7687230    |



Fixed square Head

| Type | Order Code |
|------|------------|
| 1/4  | 7672630    |
| 3/8  | 7679800    |
| 1/2  | 7687900    |

# Hexagon Nut Sockets

Metric & Imperial Accessories to complement our range of Standard and Insulated Torque Wrenches (pages 40-41)



## 1/4" Square Drive Hexagon Nut Sockets

| Metric |            |     | Imperial |            |      | Imperial |            |       |
|--------|------------|-----|----------|------------|------|----------|------------|-------|
| Type   | Order code | A/F | Type     | Order code | A/F  | Type     | Order code | A/F   |
| NS 4   | 030500     | 4   | NS 8BA   | 031100     | .152 | NS 187   | 030800     | 3/16  |
| NS 4.5 | 030520     | 4.5 | NS 7BA   | 031120     | .172 | NS 219   | 030820     | 7/32  |
| NS 5   | 030540     | 5   | NS 6BA   | 031140     | .193 | NS 234   | 030840     | 15/64 |
| NS 5.5 | 030560     | 5.5 | NS 5BA   | 031160     | .220 | NS 250   | 030860     | 1/4   |
| NS 6   | 030580     | 6   | NS 4BA   | 031180     | .248 | NS 266   | 030880     | 7/64  |
| NS 7   | 030600     | 7   | NS 3BA   | 031200     | .282 | NS 281   | 030900     | 9/32  |
| NS 8   | 030620     | 8   | NS 2BA   | 031220     | .324 | NS 312   | 030920     | 5/16  |
| NS 9   | 030640     | 9   | NS 1BA   | 031240     | .365 | NS 344   | 030940     | 11/32 |
| NS 10  | 030660     | 10  | NS 0BA   | 031260     | .413 | NS 375   | 030960     | 3/8   |
| NS 11  | 030680     | 11  | -        | -          | -    | NS 437   | 030980     | 7/16  |
| NS 12  | 030700     | 12  | -        | -          | -    | NS 500   | 031000     | 1/2   |
| NS 13  | 030720     | 13  | -        | -          | -    | -        | -          | -     |
| NS 14  | 030740     | 14  | -        | -          | -    | -        | -          | -     |

Other sizes available on request

## Metric Insulated Nut Sockets

| 50V for Low Voltage Applications |                             |
|----------------------------------|-----------------------------|
| A/F                              | Order Code<br>1/4" in Drive |
| 8                                | 030620A11030                |
| 10                               | 030660A11030                |
| 11                               | -                           |
| 12                               | 030700A11030                |
| 13                               | 030720A11030                |
| 14                               | 030740A11030                |
| 16                               | -                           |
| 17                               | -                           |
| 18                               | -                           |

For more information: Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)



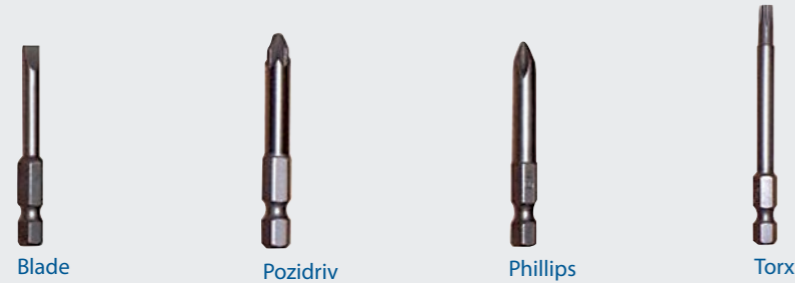
# Torque Screwdriver Accessories

Accessories to complement our range of Torque Screwdrivers (see page 18)  
Please note Screwdriver dimensions may change subject to availability



1/4" A/F Hexagon Shank Bits & Blades for use with all 1/4" FH Screwdrivers

| Blade |            |              |      | Pozidriv |            |       |      | Phillips |            |       |      | Torx |            |      |      |
|-------|------------|--------------|------|----------|------------|-------|------|----------|------------|-------|------|------|------------|------|------|
| Type  | Order code | Size         | k mm | Type     | Order code | Size  | k mm | Type     | Order code | Size  | k mm | Type | Order code | Size | k mm |
| 3     | 029300     | 3 mm x 0.5   | 39   | No. 0    | 029500     | No. 0 | 25   | No. 0    | 029600     | No. 0 | 25   | TX6  | 029740     | 1.65 | 25   |
| 4.5   | 029320     | 4.5 mm x 0.6 | 39   | No. 1    | 029520     | No. 1 | 50   | No. 1    | 029610     | No. 1 | 50   | TX8  | 029760     | 2.28 | 25   |
| 5.5   | 029340     | 5.5 mm x 0.8 | 39   | No. 2    | 029540     | No. 2 | 50   | No. 2    | 029620     | No. 2 | 50   | TX10 | 029770     | 2.72 | 25   |
| 6.5   | 029360     | 6.5 mm x 1.2 | 39   | No. 3    | 029560     | No. 3 | 50   | No. 3    | 029640     | No. 3 | 50   | TX20 | 029780     | 3.84 | 25   |
| 8     | 029380     | 8 mm x 1.6   | 39   | -        | -          | -     | -    | -        | -          | -     | -    | TX25 | 029790     | 4.39 | 25   |



| Blade     |            |      | Pozidriv |            |      | Phillips |            |      | Torx |            |      |
|-----------|------------|------|----------|------------|------|----------|------------|------|------|------------|------|
| Type      | Order code | k mm | Type     | Order code | k mm | Type     | Order code | k mm | Type | Order code | k mm |
| 3 x 0.5   | 029305     | 50   | No. 0    | 029505     | 50   | No. 0    | 029605     | 50   | TX06 | 029745     | 50   |
| 4 x 0.5   | 029325     | 50   | No. 1    | 029525     | 50   | No. 1    | 029615     | 50   | TX08 | 029765     | 50   |
| 5.5 x 0.8 | 029345     | 50   | No. 2    | 029545     | 50   | No. 2    | 029625     | 50   | TX10 | 029775     | 50   |
| 6.5 x 1.2 | 029361     | 50   | No. 3    | 029565     | 50   | No. 3    | 029645     | 50   | TX20 | 029785     | 50   |

## Lock on T-Bar

Extra leverage provided with removable T-Bar for larger screwdriver models

Accidental tool disengagement is prevented through the Lock On feature



Order Code: P29530

# Torque Screwdriver Accessories

Accessories to complement our range of Torque Screwdrivers (see page 18)

## Converters & Adaptors

| Type      | Order code | To Convert Tool Drive |      | k mm        |
|-----------|------------|-----------------------|------|-------------|
|           |            | From                  | To   |             |
| FSHA      | A35640     | 1/4"                  | 3/8" | 30 (1 1/8") |
| Converter | 029200     | 1/4"                  | 1/4" | 50 (2")     |
| MSHA      | A25420     | 1/4"                  | 1/4" | 25          |



## Inline Freewheel Adaptor

| Type  | Order code | To Convert Tool Drive Torque |               | Freewheel |
|-------|------------|------------------------------|---------------|-----------|
|       |            | Clockwise                    | Anticlockwise |           |
| FWA-R | A8842R     | Clockwise                    | Anticlockwise |           |
| FWA-L | A8842L     | Anticlockwise                | Clockwise     |           |



Absorbs unwanted shock loads by transmitting torque in one direction and freewheeling in the opposite direction

Roller clutch for minimal backlash and drag

## Special Crowsfoot Spanner Ends

| Order Code | A/F Size |
|------------|----------|
| C62890     | 3/8 in   |
| C62891     | 1/2 in   |
| C62898     | 6 mm     |
| C62892     | 8 mm     |



For more information: Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
**YouTube**  
Watch our video

# The Torque Multiplier Accessories

Accessories to complement our range of torque multipliers (see pages 60-65)  
**For more information on sizing & compatibility, please contact us on +44 (0) 1483 894 476**

## Accessories for the LKV-40 To LKV-120RS



Reaction arm cranked with lock on function, made of drop-forged chrome-vanadium steel (up to LKV-80)



Reaction arm cranked with lock on function, made of light alloy with protective cap made of steel (from LKV-100)



Reaction arm made of light alloy, straight with adjustable locking knob with moveable square-end and retaining ring (up to LKV-100)

## Accessories for the LKV-12



Reaction arm cranked with lock on function, made of drop-forged chrome-vanadium steel

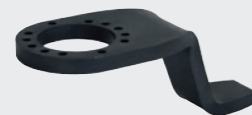


Reaction arm made of light alloy, straight with adjustable locking knob with slave square and retaining ring



Sun gear

## Accessories for the LKV-20 and LKV-28



Reaction arm cranked (bolted to the tool)



Reaction arm made of light alloy, straight with adjustable locking knob with reaction slave square (bolted to the tool)



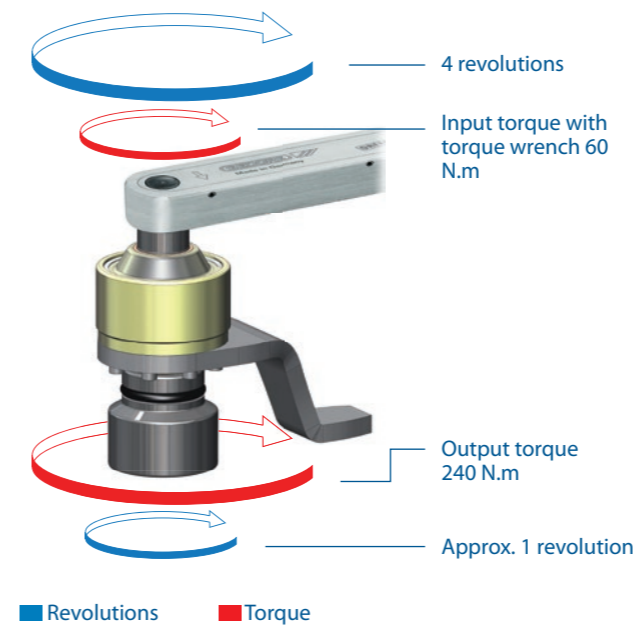
Spare square for LKV-20



Spare square for LKV-28

# The Torque Multiplier – The Function principle

The principle of torque multiplication



The diagram representation demonstrates the principle of torque multiplication. Let us assume a 60 N.m input torque and a 240 N.m output torque. At a 1:4 ratio, 4 revolutions are needed at the 60 N.m input for 1 revolution with a 240 N.m torque to be obtained at the output.

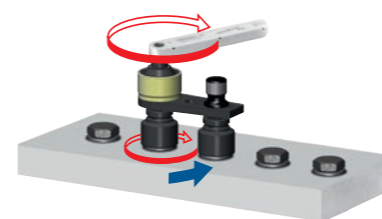
This is based on the physical formula:

$$\text{Power} = \text{torque} \times \text{revolution}$$

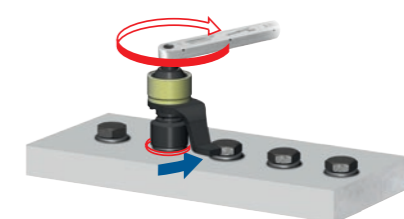
With gear efficiency deducted, the output power can be considered as a constant equal to the input power. Thus multiplication of the torque can only be obtained from an increased number of revolutions at the input.

## Force and reaction

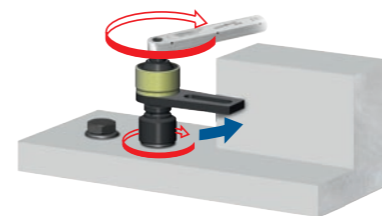
When working with a torque multiplier, torsion wind-up is built up in the gear while the bolt is tightened. This stress must be reduced. A reaction absorbed by reaction arm and thrust bearing is produced.



Reaction arm made of light alloy, straight with adjustable locking knob with slave square: The reaction acts on the adjacent impact socket



Reaction arm cranked: The reaction acts on the adjacent bolt connection



Reaction arm straight without adjustable reaction square drive: The reaction acts on the wall. However, the resulting tilting moment means that the maximum permitted torque is reduced by 20%.



**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
 Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
 Watch our video

# The Cordless Torque Wrench Accessories

Accessories to complement our range of Cordless Torque Wrench (see pages 65-65)  
**For more information on sizing & compatibility, please contact us on +44 (0) 1483 894 476**

## Accessories for the LDA/LAW SERIES, 90 - 6.000 N.m



Charger 110V/60Hz; 220V/50Hz



140 Wh Battery (28 V / 5 Ah)



Charger with 12/24V connector



Hybrid cube mains battery pack



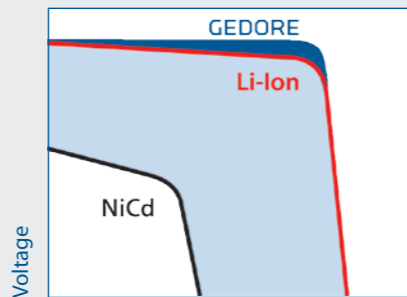
Reaction ring for bespoke reaction arm design

## Reserve capacity of battery and charger



The charging time on the charger is approx. 30-50 min when the battery is empty. Once the battery is fully charged, the charger LED changes from red to green

Lithium ion technology



Discharging during work



The flashing LED signals that the battery has a reserve capacity of 10%

Pressure switch for displaying the charge status



Four lit up LEDs signal that the battery is fully charged

# Bar Code Scanners

## WCS3900 CCD Scanner

This barcode scanner enables linear (1D) barcodes to be captured quickly and easily. A connection to a PC is all that is required to add barcode data to an active application.

**Accuracy and efficiency.** Barcode data can be instantly added to your active application, without time-consuming manual data entry or errors

**Ease of installation and use.** Once the scanner is connected to a PC by USB or PS2, it is ready for use, without additional software or drivers. Data is entered automatically

**Long tool life.** Robust, high quality construction ensures reliability and many years of dependable service. CCD scan engine and high-quality construction prevent breakage

**Operational versatility.** Decodes commonly used linear (1D) barcodes, including Code 39, Code 129 and UPC

**Production efficiency.** Ergonomic design provides comfortable use, hence reducing operator fatigue

### Additional features

Pair the WCS3900 with the optional stand for convenient desktop storage

Scans barcodes up to 3.25 inches wide from 1 inch away



CCD scan engine and high-quality construction prevent breakage

Includes 6-foot USB or PS/2 cable

Conforms to FCC Class A and CE requirements

## WWR2900 Pen Scanner

This pen-style barcode scanner enables scanned data to be captured quickly and easily, particularly for repetitive jobs. A connection to a PC is all that is required to add barcode data to any DOS or Windows application and view it on screen as it is scanned.

**Accuracy and efficiency.** Barcode data can be instantly added to your active application, without time-consuming manual data entry or errors

**Ease of installation and use.** Once the scanner is connected to a PC by USB or PS2, it is ready for use, without additional software or drivers. Data is entered automatically

**Long tool life.** Robust construction ensures reliability and many years of dependable service. Manufactured from high quality ABS plastic

**Operational versatility.** Decodes commonly used linear (1D) barcodes, including Code 39, Code 129 and UPC

**Production efficiency.** Ergonomic, lightweight, desktop design requires minimal space. Soft grip for comfortable use, hence reducing operator fatigue and making the scanner suitable for repetitive jobs

### Additional features

Conforms to FCC Class A and CE requirements



For more information contact us on +44 (0) 1483 894 476

| Model  | Dimensions                | Weight                |
|--|---------------------------|-----------------------|
| Pen Barcode Scanner WWR2900 (With USB cable) | H 29.6 x W 150 x D 22 mm  | 76 g                  |
| Pen Barcode Scanner Stand                    | -                         | -                     |
| CCD Barcode Scanner WCS3900 (With USB cable) | L 18.8 x H 2.7 x W 9.2 cm | 125 g (without cable) |
| CCD Barcode Scanner WCS3900 (With PS2 cable) | L 18.8 x H 2.7 x W 9.2 cm | 125 g (without cable) |
| CCD Barcode Scanner Stand                    | -                         | -                     |

# Convertors and Adaptors

Accessories to complement our range of Torque Screwdrivers and Wrenches

## Socket Blanks

| Type | Order code | Metric Dimensions |       |        |
|------|------------|-------------------|-------|--------|
|      |            | A                 | B     | C      |
| SB2  | A15720     | 1/4               | 5/8   | 7/8    |
| SB3  | A16200     | 3/8               | 13/16 | 1 1/8  |
| SB4  | A16210     | 1/2               | 1     | 1 1/4  |
| SB5  | A14790     | 3/4               | 1 1/2 | 2 5/16 |
| SB6  | A14800     | 1                 | 2     | 2 9/16 |



## Converters

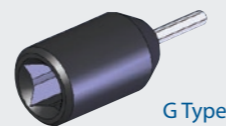
| Type | Order code | To Convert Tool Drive |      |
|------|------------|-----------------------|------|
|      |            | From                  | To   |
| DSAP | 031320     | 1/4"                  | 3/8" |
| DPAS | 031300     | 3/8"                  | 1/4" |
| ASEP | 031340     | 3/8"                  | 1/2" |
| APES | 031360     | 1/2"                  | 3/8" |
| ESHP | 031380     | 1/2"                  | 3/4" |
| EPHS | 031400     | 3/4"                  | 1/2" |
| HSGP | 031420     | 3/4"                  | 1"   |
| HPGS | 031440     | 1"                    | 3/4" |



## Hexagon Key Bits

| Metric |            |     |             | Imperial |            |      |             | Imperial |            |      |             |
|--------|------------|-----|-------------|----------|------------|------|-------------|----------|------------|------|-------------|
| Type   | Order Code | A/F | Length (mm) | Type     | Order Code | A/F  | Length (mm) | Type     | Order Code | A/F  | Length (mm) |
| IB 1.5 | 030100     | 1.5 | 25          | IB 093   | 030300     | 3/32 | 25          | G2       | B1607A     | .035 | 35          |
| IB 2   | 030120     | 2   | 25          | IB 109   | 030310     | 7/64 | 25          | G3       | B1607B     | .050 | 35          |
| IB 2.5 | 030140     | 2.5 | 25          | IB 125   | 030320     | 1/8  | 25          | G4       | B1607C     | .062 | 35          |
| IB 3   | 030160     | 3   | 25          | IB 141   | 030330     | 9/64 | 25          | G5       | B1607D     | 5/64 | 35          |
| IB 4   | 030180     | 4   | 25          | IB 156   | 030340     | 5/32 | 25          | -        | -          | -    | -           |
| IB 5   | 030200     | 5   | 25          | IB 187   | 030360     | 3/16 | 25          | -        | -          | -    | -           |
| IB 6   | 030220     | 6   | 25          | IB 281   | 030380     | 7/32 | 25          | -        | -          | -    | -           |
| IB 7   | 030240     | 7   | 25          | IB 250   | 030400     | 1/4  | 25          | -        | -          | -    | -           |
| IB 8   | 030260     | 8   | 25          | IB 312   | 030410     | 5/16 | 25          | -        | -          | -    | -           |

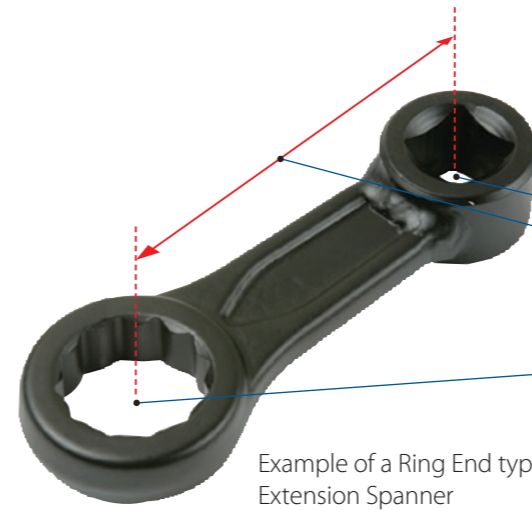
Note: IB Bits will require 1/4" FSHA Adaptor unless your tool is already a 1/4" FH Drive



# Special Extension Spanners & Adaptors

Accessories to complement the Dial Measuring Wrench Range (page 12)

When design or space limitations preclude the use of a Dial Measuring Wrench and a standard Nut Socket, special Extension Spanners can be manufactured. These allow access and enable you to apply Torque in awkward spaces. See illustrations for typical examples.



Example of a Ring End type Extension Spanner

## To order a Special Extension Spanner

To order please supply the following information:

- Square drive size
- Centred distance between the square drive and the spanner end fitting
- A/F size of spanner end
- End type - Ring, Open or Flared
- Maximum Torque to be applied
- A fully dimensioned drawing

## Table of Effective Wrench Lengths across our Range

| Model Ranges | Effective length (mm) |
|--------------|-----------------------|
| ADS 12/25/40 | 190                   |
| BDS 80       | 368                   |
| BDS 160/200  | 445                   |
| CDS          | 635                   |
| DDS          | 850                   |
| EDS          | 1727                  |

Special Extension Spanners are not recommended for ADS 4 & 8

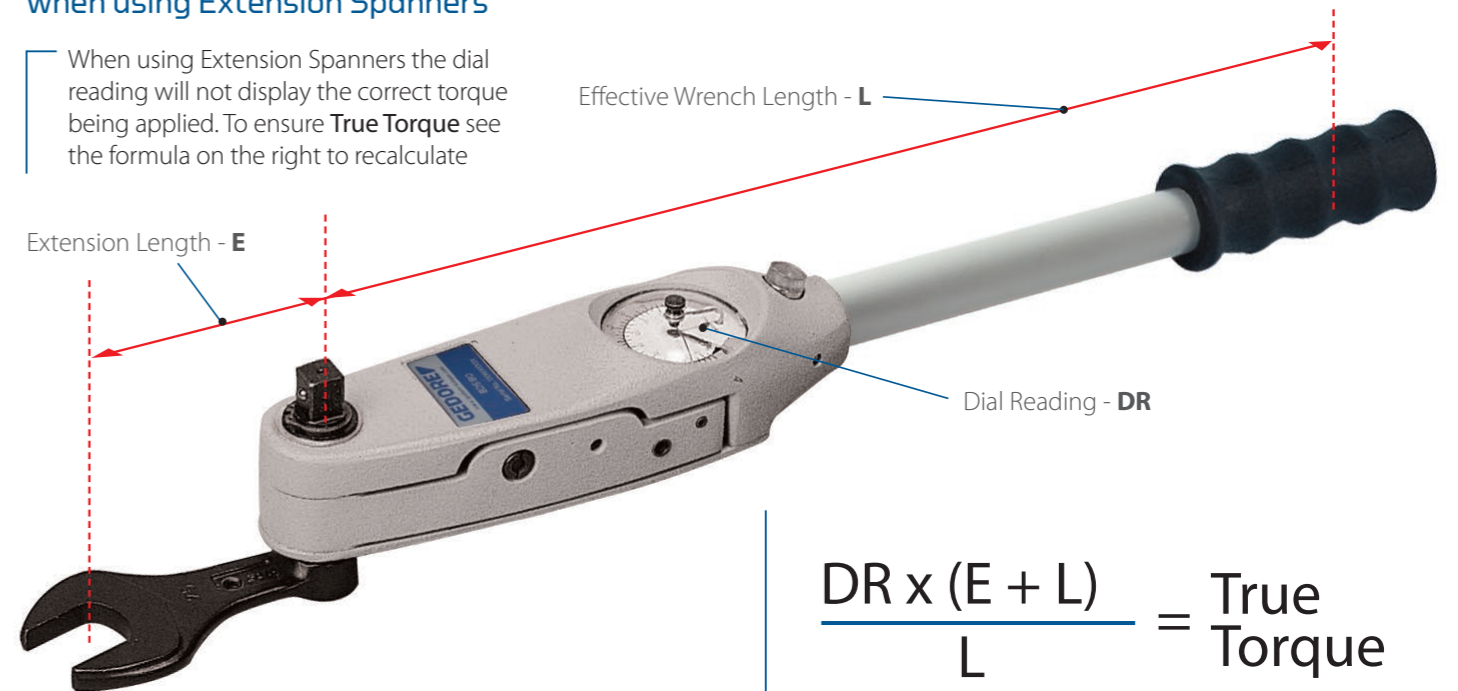
## Extension Adaptors for ADS & BDS Wrenches where space is restricted

| Adaptor Model  | Order code | Drive |
|----------------|------------|-------|
| 16mm Spigot    | A96102     | 3/8"  |
|                | A96103     | 1/2"  |
| German 9x12    | A96112     | 3/8"  |
| Cavity Fitting | A96113     | 1/2"  |
| Wedge Fitting  | A96122     | 3/8"  |
|                | A96123     | 1/2"  |

Measure dimension of Adaptor & End Fitting for E (see diagram above)

## How to Calculate the True Torque when using Extension Spanners

When using Extension Spanners the dial reading will not display the correct torque being applied. To ensure True Torque see the formula on the right to recalculate



$$\frac{DR \times (E + L)}{L} = \text{True Torque}$$



## Our Worldwide Commitment to Service

From our base in the UK, Gedore Torque provides unparalleled technical information, services and support in the UK and worldwide, with its network of factory-trained distributors.

Our commitment to Quality Assurance and Standards includes conformance with national and international standards and our own UKAS-accredited Calibration Laboratory.

With a worldwide network of factory-trained distributors, we can offer high levels of service and support, wherever you are.

### In this section you'll find information about the following:

- Calibration Service and Repairs
- Quality Assurance and Standards
- Calibration and Traceability
- Information on Torque



Mawuli Austin, Service Technician

*In the calibration laboratory, we are committed to absolute precision and consistent accuracy. I am proud that every day, we achieve national and international standards on behalf of our customers.*

### UK Head Office

Contact us for any technical information or support that you may need.

Tannery Lane, Gosden Common, Bramley, Guildford, Surrey GU5 0AJ

Phone: +44 (0) 1483 894 476  
+44 (0) 1483 892 772

Fax: +44 (0) 1483 898 536

Email: [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)



### Technical Support

For expert technical advice, contact us by phone or email. If there is a problem to be discussed, or you would like a product demonstration, a visit to your site by one of our Technical Managers can be arranged.



### Distributors

With 74 Distributors in 51 countries, our products are available and supported worldwide. All Distributors are factory-trained and are able to give a full service and to offer expert advice. Contact us (details above) for your local distributor, or visit [www.gedore-torque.com](http://www.gedore-torque.com)

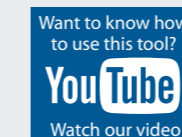


### Website

Our website contains a wealth of product information, including a Knowledge Centre and Tool Selector - [www.gedore-torque.com/tool-selector](http://www.gedore-torque.com/tool-selector)

### Videos

Our YouTube channel contains videos showing how to use most of our tools. [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque)



### Social Media



[twitter.com/GedoreTorque](https://twitter.com/GedoreTorque)  
[www.facebook.com/GedoreTorqueUK/](https://www.facebook.com/GedoreTorqueUK/)  
[www.linkedin.com/company/torqueleader](https://www.linkedin.com/company/torqueleader)  
[plus.google.com/+TorqueleaderUK](https://plus.google.com/+TorqueleaderUK)

# Taking Care of Your Tools

## Calibration, Servicing & Repair

When you buy from Gedore Torque, everything you need to maintain, service and repair your torque equipment is available in house, at our UK site. Regular re-calibration and servicing are essential if Torque Tools are to deliver absolute precision and consistent accuracy throughout their lifetime. What's more, today's Quality Assurance Systems demand

that measuring torque tools and calibration equipment are checked regularly and provided with traceable calibration certificates. For these reasons, Gedore Torque offers a comprehensive Calibration, Servicing & Repair service, to ensure that your tools continue to operate to the highest standards. And in most cases, we are able to provide a 24-hour turnaround.

### Torque Calibration

Torque Calibration ensures that torque equipment operates to peak performance, ensuring absolute and consistent accuracy and adherence to National and International standards

It also ensures that potential tooling problems are identified before they arise, hence ensuring that lifetime ownership costs are minimised

### Calibration Laboratory, Servicing and Repair Centre

Gedore Torque has a UKAS-accredited Calibration Laboratory, based at our site in the UK. Here, we are able to recalibrate most Hand Torque Tools, Analysers and Transducers in accordance with National and International Standards.

Our Calibration Laboratory offers an in-depth Torque Calibration Service. This provides:

- Torque Wrench calibration to ISO 6789
- Torque Sensor calibration to BS 7882
- 'As found' and 'As left' Calibration Certificates
- UKAS Scope: Hand Tools 0.14-1000 N.m  
Transducers 0.2-3000 N.m

The technical competence of the Laboratory and its staff have been independently accredited by UKAS to ISO/IEC 17025. UKAS (the United Kingdom Accreditation Service) is the only national accreditation body recognised by the British Government to assess the competence of organisations that provide certification, testing, inspection and calibration services.

We can also accommodate tools from other manufacturers subject to inspection and acceptance. For more information, call us on: **+44 (0) 1483 894 476** or email: [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

### In House Calibration Service

Our in house calibration service is a cost-effective method to ensure that your equipment is always in peak condition.

This provides:

- Gedore Torque Calibration Certificates
- Clear results
- Traceability to National Standards
- Tools that are accurate, precise and performing to the highest standard

### Servicing and Repairs

Our tools contain moving parts that require periodic servicing and lubrication. The recommended service interval is twelve months, 5000 cycles or more frequent if usage is high. And even in the best work environment, repairs are sometimes necessary.

That's why we offer a full and comprehensive After Sales Service. On return of any product, the work necessary to bring the torque tool to first class condition is assessed and the customer advised of the cost involved. Once the customer has given their permission to proceed, the work is carried out to an agreed timescale.

If you choose to do your own servicing, the following lubrication tables give details of the recommended oils and greases as used in our tools.

### Tool Lubrication Table For Gedore Torque Products

| Lubricants - Correct at time of going to print |                                 |                   |                         |                            |                           |                                |  |   |   |
|--|---------------------------------|-------------------|-------------------------|----------------------------|---------------------------|--------------------------------|--|---|---|
| Torque Wrenches                                | Fuchs Renolit CX1 2 Grease      | Total Multis MS 2 | Fuchs Renolit EP X1 PBF | Total Multis EP2           | Silicon Grease RS 555-083 | Shell Tonna 32 Lubricating Oil | Rocol Dry Moly Paste (ASP)   | Amalgam of 75% Dry Moly Paste 25% Lubricating Oil | CX HT2 Grease                                       |
| Dial Wrenches                                  | ADS Ratchet & Pawl              |                   |                         | BDS/CDS/DDS Ratchet & Pawl | Window Assembly 'O' Rings |                                |  |   |   |
| STB  |                                 |                   | Spring, Cam & Roller    |                            | 'O' Rings                 | Ratchet & Pawl                 |  |   |   |
| TSC & TSP                                      | Bearings, TSC Locking Mechanism |                   |                         |                            |                           |                                | Thrust Pin   |   |   |
| TSN  |                                 |                   | Spring, Cam & Roller    |                            | 'O' Rings                 | Ratchet & Pawl                 |  |   |   |
| TBN 2 & 10                                     |                                 | Spring            |                         |                            |                           | Adj. Screw                     | Roller, Cam, Thrust Pad, Captive Pin   |   |   |
| TBN 25,65,135 & 200                            |                                 | Spring            |                         |                            |                           |                                | Roller, Cam, Thrust Pad, Captive Pin   | Trunnion, Adj. Screw                              |   |
| ATB 5, 10, 25, 50, 100                         |                                 |                   |                         |                            |                           |                                | Adj. Screw, Captive Pin, Int. Spring Adjuster, Lock Knob & Adj. Screw End, Ext. Handle |   | Spring, Ext. Spring Adjuster, Trunnion, Int. Handle |

| Lubricants - Correct at time of going to print |                            |                           |                           |                                    |                              |                                 |                    |
|--|----------------------------|---------------------------|---------------------------|------------------------------------|------------------------------|---------------------------------|--------------------|
| Torque Screwdrivers & Analysers                | Shell Stamina EP2 Grease   | Total Multis EP2          | Silicon Grease RS 555-083 | NYE Rheolube 368 F Strained Grease | WD-40 Lubricant/Inhibitor    | Renolin B3 - VG10               | All Purpose 3 in 1 |
| TT   |                            |                           |                           |                                    | Torsion Bars & Spring Clamps |                                 | Memory Assembly    |
| Quickset, QSN & QSA                            | General Use Ball Housing   | Handle Threads            | 'O' Rings                 |                                    |                              |                                 |                    |
| TLS  | General Use Spring Housing |                           |                           |                                    |                              |                                 |                    |
| Cleanroom CRS                                  |                            |                           |                           | General Use Spring Housing         |                              |                                 |                    |
| MTS & MTP                                      |                            |                           |                           |                                    |                              | Drive Spindle & Needle Bearings |                    |
| ISO 1000 & ISO 1500                            |                            | Multiplier & Worm Gearbox |                           |                                    |                              |                                 |                    |

**For more information:** Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; **+44 (0) 1483 894 476** Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)

Want to know how to use this tool?  
**YouTube**  
Watch our video

# Quality Standards

Our commitment to excellence means that our own business and the tools we manufacture conform to the appropriate National and International Standards. This means that you can be assured that our products are manufactured to the highest quality standards for absolute accuracy, consistency and precision.



- Gedore Torque is assessed and registered to **BS EN ISO 9001:2015 Certificate FM 00363**
- All Gedore Torque tools are manufactured to the relevant British and International Engineering Standards and conform to the International Standard on Torque Tools **ISO 6789** and on transducers **BS7882** or as specified.

## The International Standard ISO: 6789 for Hand Torque Tools states:

- The effective working range of a tool
- The accuracy requirements for Torque Screwdrivers are +/- 6% of reading and for Torque Wrenches are +/- 4% of reading or +/- 6% for Torque Wrenches below 10 N.m
- The maximum torque value for each hex & square drive size
- Scale and marking requirements
- An overload ability of 125% of maximum torque capacity
- A calibration interval of 5000 cycles or 12 months
- Test and measuring procedures at 23° +/- 5°C
- The maximum permissible uncertainty of measurement of the calibration device shall be +/-1% of the indicated value

## Explanation on Terms

- Accuracy** of Measuring and Calibrated Scale Tools is their ability to deliver the torque as set on their scale, dial or digital display. This is usually expressed as a percentage of the target torque
- Resolution** of Measuring and Calibrated Scale Tools is the number of divisions that their full torque range is divided into. This can be displayed as decimal places on a digital display, number of divisions on a dial or graduations on a scale
- Repeatability** of Preset Tools is the ability to consistently apply the same torque in subsequent tightening operations. This is usually expressed as a percentage of the preset torque

## Explanation on Serial Numbers

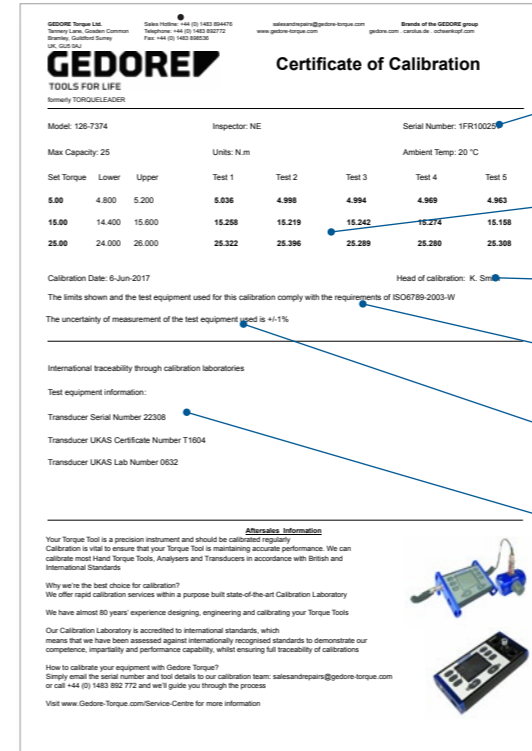
All new and newly reconditioned Gedore Torque tools are marked with a serial number that enables **Complete Traceability**. This number is stored together with other data such as the original works order number and calibration details



|  |            |                                     |                           |
|--|------------|-------------------------------------|---------------------------|
| <b>2</b>                                   | <b>E</b>   | <b>R</b>                            | <b>100045</b>             |
| Model Code                                 | Month Code | Year Code                           | Consecutive Serial Number |
| A = January...<br>E = May<br>M = December. |            | A = 2002...<br>P = 2016<br>R = 2017 |                           |

# Calibration: Certification & Traceability

Regular Torque Tool Calibration and re-calibration guarantees the operator repeatable accuracy and adherence to international standards. To guarantee this, all Tools that have been calibrated or re-calibrated by Gedore Torque come with a Certificate of Calibration. This in turn provides confirmation that all equipment used by us has certification traceable to International Standards.



- Tool Identification Section...** for easy identification of the tool, its maximum capacity and its individual serial number
  - Test Result Section...** gives the normal point at which the tool was tested, the tolerances and the actual results obtained
  - Certification Section...** date and approval signature of test
  - Standard Section...** confirms the standard requirements to which the tool complies
  - Note Section...** gives information regarding slave pointers etc
  - Traceability Section...** the serial numbers of the test equipment and the route back to National Standards
- Gedore Torque's testing and calibration procedures are performed using equipment traceable to National Standards

## Traceability to International Standards

All equipment used by us in the Calibration of Torque Tools is regularly checked to ensure that the results obtained are accurate. All Calibration Equipment is itself assessed using equipment with certification traceable to International Standards.

## Returns policy

Gedore Torque Limited operates a returns number system for any tools that need to be returned for warranty repair or credit. The purpose of this is to enable us to track all returns back into the company to ensure a quick resolution to any warranty claims. If for any reason you need to return a tool to us within the warranty period, please contact the sales department on **01483 894476** or at **salesandrepairs@gedore-torque.com** beforehand. This ensures that the return is logged and a returns number is provided. Thank you for your co-operation, which will enable us to help you more quickly.

## Warranty Period

All our tools come with a two year warranty.

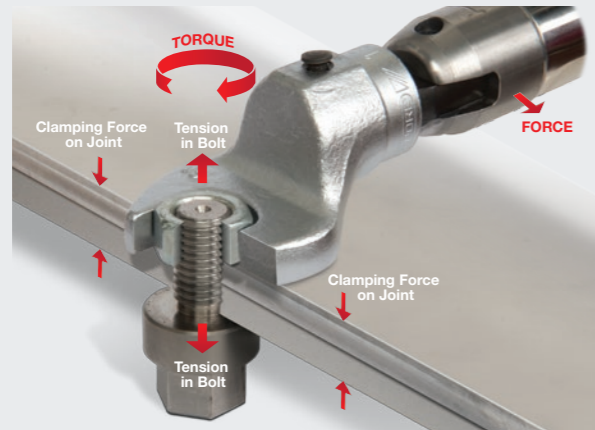
## UKAS Accreditation Certificate for Gedore Torque's Calibration Laboratory & Personnel



# An Explanation of Torque

## Information on Measuring Torque

What you need to know to avoid incorrect tightening



Torque is the application of a **Force** acting at a radial **Distance** and tending to cause rotation. Torque is used to create tension in threaded fasteners

When the nut and bolt are tightened the two plates are clamped together. The thread converts the applied torque into tension in the bolt shank. This in turn is converted into a clamping force. The amount of tension created in the bolt is critical

### Explanation on the creation of a Clamping Force

The tension in the bolt creates a clamping force (generally referred to as the preload) between the two parts

If the clamping force is too low, the fasteners can work loose due to vibration or movement between the component parts

If a clamping force is too high, the fastener may permanently stretch and no longer apply the required clamping force

In severe cases the fastener may fail in assembly or during use when under load

### Explanation on how Torque is Calculated

Torque is the result of multiplying the value of **Force** applied by the **Distance** from the point of application

Comparing the two examples see below (A and B) the same resultant torque can be achieved with a lower Force if the Distance from the nut/bolt is increased

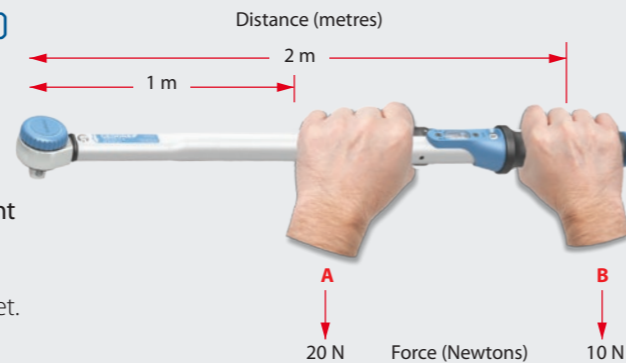
Some Torque Wrenches are length dependent that means that the actual torque applied to the fastener varies if the hand position on the wrench is varied - even with the wrench preset. This occurs if the pivot point of the wrench mechanism is not coincidental with the centre of rotation of the fastener

### Force x Distance = Torque (See right)

Example A: 20 N x 1 m = 20 N.m

Example B: 10 N x 2 m = 20 N.m

Some Torque Wrenches are **length dependent** that means that the actual torque applied to the fastener varies if the hand position on the wrench is varied - even with the wrench preset. This occurs if the pivot point of the wrench mechanism is not coincidental with the centre of rotation of the fastener



# Conversion Factors & Maximum Recommended Tightening Torques

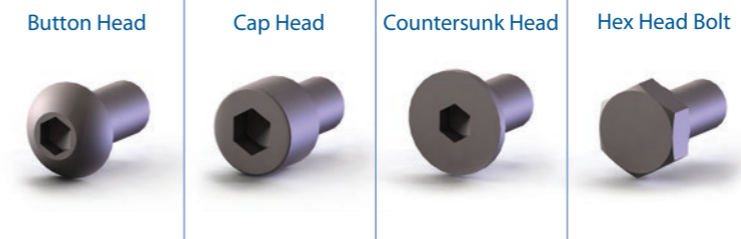
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| Units to be converted | Conversion Factors |          |        |        |                 |         |        |               |         |
|-----------------------|--------------------|----------|--------|--------|-----------------|---------|--------|---------------|---------|
|                       | mN.m               | ISO cN.m | N.m    | ozf.in | Imperial lbf.in | lbf.ft  | gf.cm  | Metric kgf.cm | kgf.m   |
| 1 mN.m                | 1                  | 0.1      | 0.001  | 0.142  | 0.009           | 0.0007  | 10.2   | 0.01          | 0.0001  |
| 1 cN.m                | 10                 | 1        | 0.01   | 1.416  | 0.088           | 0.007   | 102    | 0.102         | 0.001   |
| 1 N.m                 | 1000               | 100      | 1      | 141.6  | 8.851           | 0.738   | 10197  | 10.20         | 0.102   |
| 1 ozf.in              | 7.062              | 0.706    | 0.007  | 1      | 0.0625          | 0.005   | 72     | 0.072         | 0.0007  |
| 1 lbf.in              | 113                | 11.3     | 0.113  | 16     | 1               | 0.083   | 1152.1 | 1.152         | 0.0115  |
| 1 lbf.ft              | 1356               | 135.6    | 1.356  | 192    | 12              | 1       | 13826  | 13.83         | 0.138   |
| 1 gf.cm               | 0.098              | 0.01     | 0.0001 | 0.014  | 0.0009          | 0.00007 | 1      | 0.001         | 0.00001 |
| 1 kgf.cm              | 98.07              | 9.807    | 0.098  | 13.89  | 0.868           | 0.072   | 1000   | 1             | 0.01    |
| 1 kgf.m               | 9807               | 980.7    | 9.807  | 1389   | 86.8            | 7.233   | 100000 | 100           | 1       |

| Thread Diameter (mm) | Conversion Factors |                   |                   |                    |
|----------------------|--------------------|-------------------|-------------------|--------------------|
|                      | Hex Key Size (mm)  | Hex Key Size (mm) | Hex Key Size (mm) | Hex Head Size (mm) |
| M 2                  | -                  | 1.5               | 1.27              | 4                  |
| M 2.5                | -                  | 2                 | 1.5               | 5                  |
| M 3                  | 2                  | 2.5               | 2                 | 5.5                |
| M 4                  | 2.5                | 3                 | 2.5               | 7                  |
| M 5                  | 3                  | 4                 | 3                 | 8                  |
| M 6                  | 4                  | 5                 | 4                 | 10                 |
| M 7                  | -                  | -                 | -                 | 11                 |
| M 8                  | 5                  | 6                 | 5                 | 13                 |
| M 10                 | 6                  | 8                 | 6                 | 17                 |
| M 12                 | 8                  | 10                | 8                 | 19                 |
| M 14                 | -                  | -                 | -                 | 22                 |
| M 16                 | -                  | 14                | 10                | 24                 |
| M 18                 | -                  | -                 | -                 | 27                 |
| M 20                 | -                  | 17                | 12                | 30                 |
| M 22                 | -                  | -                 | -                 | 32                 |
| M 24                 | -                  | -                 | -                 | 36                 |
| M 27                 | -                  | -                 | -                 | -                  |

| Recommended Maximum Tightening Torques N.m |                 |                 |
|--|-----------------|-----------------|
| Bolt Grade 8.8                             | Bolt Grade 10.9 | Bolt Grade 12.9 |
| 0.37                                       | 0.52            | 0.63            |
| 0.86                                       | 1.21            | 1.45            |
| 1.3  | 1.9             | 2.3             |
| 3.0  | 4.3             | 5.1             |
| 6.0  | 8.5             | 10.2            |
| 10.3                                       | 14.7            | 17.9            |
| 17.2                                       | 24.5            | 28.4            |
| 25.5                                       | 35.3            | 42.2            |
| 50.0                                       | 70.6            | 85.3            |
| 87.3                                       | 123             | 147             |
| 138  | 194             | 235             |
| 211  | 299             | 358             |
| 289  | 412             | 490             |
| 412  | 579             | 698             |
| 559  | 785             | 941             |
| 711  | 1000            | 1198            |
| 1049                                       | 1481            | 1775            |

These Torque values are for guidance only. Actual bolt load can vary by +/-30% based on finish, wear, coating, lubrication and manor of torque application.



For more information: Tool Selector; [gedore-torque.com/tool-selector](http://gedore-torque.com/tool-selector) Telephone; +44 (0) 1483 894 476  
Videos; [www.youtube.com/gedore-torque](http://www.youtube.com/gedore-torque) Email; [salesandrepairs@gedore-torque.com](mailto:salesandrepairs@gedore-torque.com)





**Your Assembly Workspace Partner**

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Schaessestraat 15A unit 20  
9070 Destelbergen

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