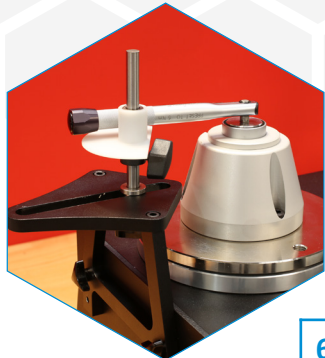


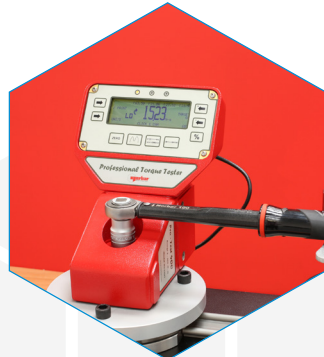
ATTACHMENTS & ACCESSORIES



**60318** - Static Transducer Support Kit & **\* 60319** - Short Length Reaction Plate to calibrate small torque wrenches



**60322** - FMT Quick Release Kit allowing for a more streamlined and efficient calibration laboratory



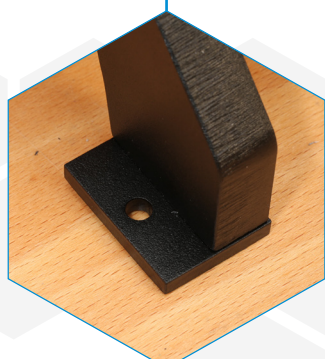
**60323** - Pro-Test and Static Torque Block Adaptor Kit



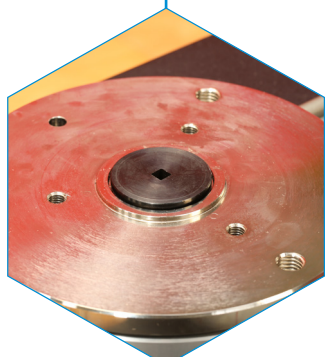
**29214** - Square Drive Adaptor 1" Male to 3/4" Female Flanged  
**29215** - Square Drive Adaptor 1" Male to 1/2" Female Flanged  
**29216** - Square Drive Adaptor 1" Male to 3/8" Female Flanged  
**29217** - Square Drive Adaptor 1" Male to 1/4" Female Flanged



**60324** - Hexagon Adaptor Kit with 22mm hexagon shaft allows users to speed up the work-flow by implementing their own solution to rapidly manoeuvre the wrench up to the reaction point



**60326** - Bench Mounting Kit



**60327** - FMT 25 Adaptor Kit

\* When using the Short Length Reaction Plate the wrench will no longer be counter balanced.

GLOBAL SERVICE


Norbar is the only torque equipment manufacturer capable of offering tool and instrument calibration services to the original factory standard on four continents.

Accredited laboratories in Australia, USA, Singapore, China and India operate the same equipment and procedures as the UKAS accredited laboratory within our headquarters in the UK.

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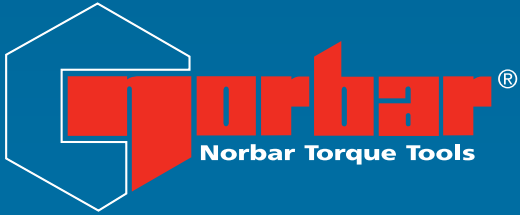
NORBAR PRODUCT PORTFOLIO

-  Torque Screwdrivers
-  Torque Wrenches
-  Electronic Torque Wrenches
-  Manual Torque Multipliers
-  Pneumatic Torque Tools
-  Electronic Torque Tools
-  Torque Measurement Instruments
-  Torque Transducers
-  Ultrasonic Bolt Measurement
-  Calibration Services

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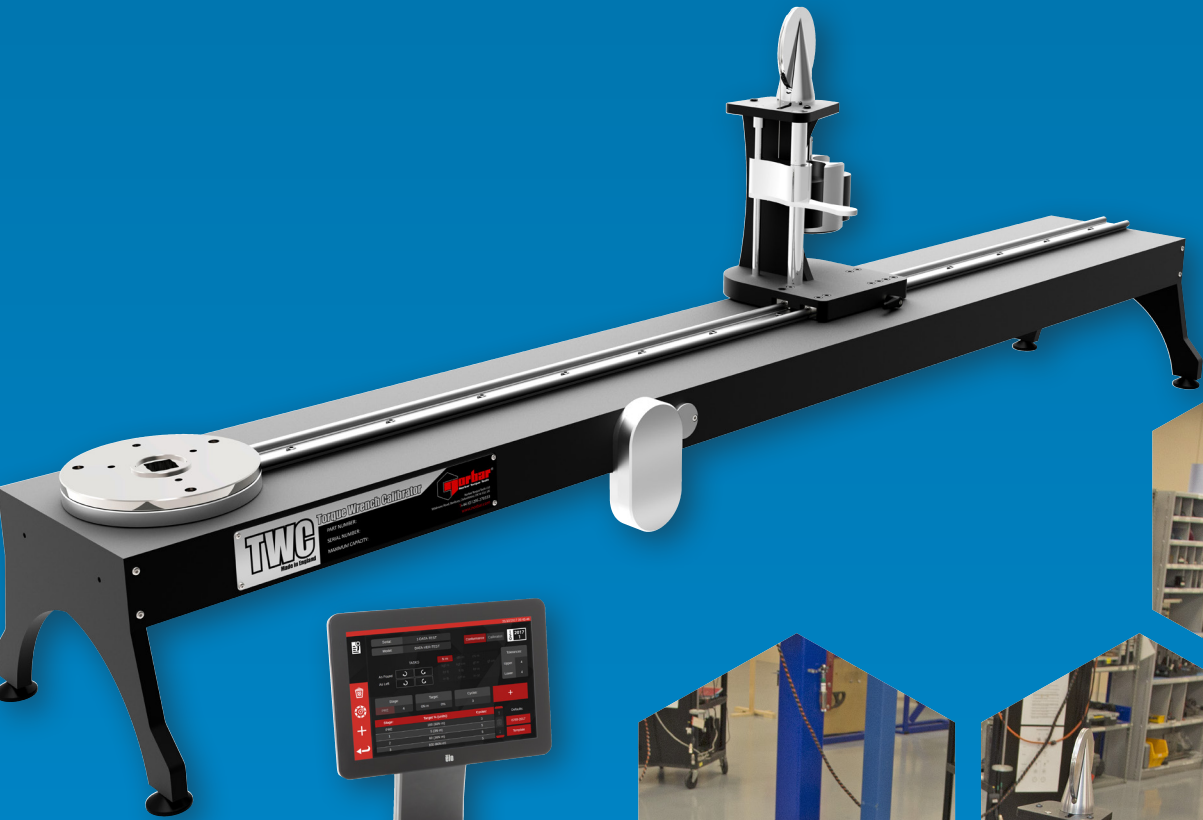
**DRILCO**

NEW



TORQUE WRENCH CALIBRATOR

ENABLING TORQUE WRENCH TESTING AND CALIBRATION IN ACCORDANCE WITH ISO 6789-1:2017 AND ISO 6789-2:2017





THE TORQUE WRENCH CALIBRATOR (TWC) ENABLES TORQUE WRENCH TESTING AND CALIBRATION IN ACCORDANCE WITH ISO 6789-1:2017 AND ISO 6789-2:2017

Counter balance reaction is designed to support the weight of the wrench so that the weight does not become a parasitic force within the calibration system. The floating nature of the support also means that the wrench is able to find its own natural level rather than being constrained as in many other loading devices. Any such constraint will be another parasitic force within the system. Patents apply

Compatible transducers include Flange Mounted Transducers, Static Transducers (when using part number: 60318) and Pro-Test (when using part number: 60323)

Can produce certification to ISO 6789-2:2017 when used with T-Box XL™ software version 3.0.0.X and TDS version 4.0.X

Two speed gearbox designed for a sufficient balance of speed and control by allowing for both fast loading of the torque wrench and a slower more precise loading (Manual version only)

Lightweight alloy construction ensures the TWC is easily transported, making it suited for mobile laboratory applications

Rotating transducer design ensures that the load is applied 90° to the torque wrench handle. The benefit of this precise alignment is that forces are applied squarely to the load point of the handle

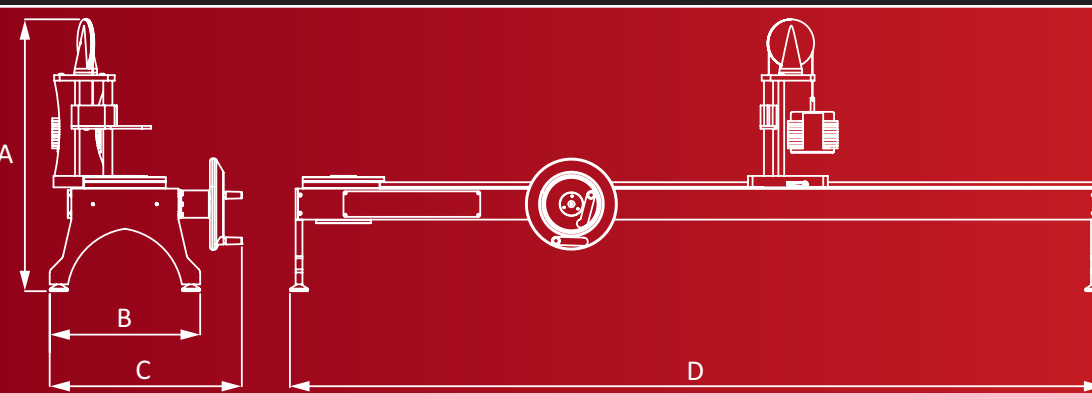


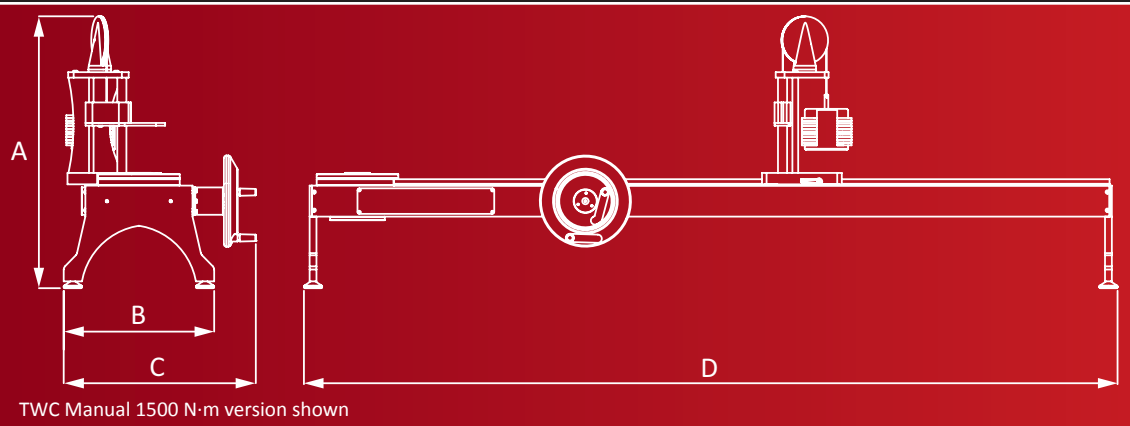
TWC Manual shown with a T-Box XL™ and a Flange Mounted Transducer

### KEY ADDITIONAL FEATURES FOR AUTO VERSION

- Supplied with a powerful yet simple touchscreen User Interface (UI) (keyboard and mouse also supported if desired)
- Flexible tool template system; minimises number of templates required to cover a wide range of tools, aiding efficient use
- Programmable calibration workflow for each template, can be pre-set to ISO compliant flow for the given tool for a faster set-up or can also support bespoke non-ISO compliant workflows
- Calibration job management; book calibrations, track progress of previous bookings and resume them
- Automated management of calibration and conformance workflows for non-indicating tools
- Intelligent rate control system ensures fast cycling of tools while maintaining compliance with 2017 standards
- Environmental monitoring (humidity/temperature) to ensure compliance with calibration standards
- Automated management of uncertainty data for ISO 6789-2:2017 calibrations, guiding the user through the process using dynamically generated instructions based on the current tool's ISO classification and workflow
- Inbuilt data analysis and certification generation seamlessly move from calibration/conformance procedure to certificate generation, no third-party software required
- A substantial amount of inbuilt storage allowing for year's worth of calibration data through normal use

The Automated TWC is currently in development and is subject to change, therefore the information provided may alter upon the launch of the product.

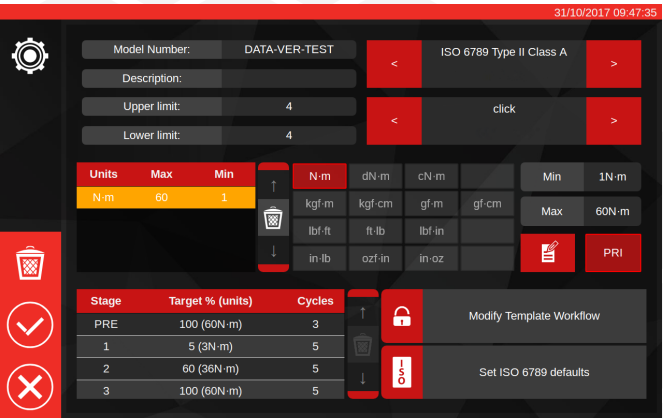
TECHNICAL SPECIFICATION		MODEL	MANUAL		AUTO		
			400 N·m 295 lbf·ft	1500 N·m 1100 lbf·ft	400 N·m 295 lbf·ft	1500 N·m 1100 lbf·ft	
 <p>TWC Manual 1500 N-m version shown</p>		Part Number		60311	60314	60312	60313
		Wrench Length (Torque Radius)	Min	135	135	135	135
			Max	750	1500	750	1500
		Dimensions	A	596	596	596	596
			B	330	330	330	330
			C	421	421	N/A	N/A
			D	1035	1785	1035	1785
Weight (kg)		35	40	TBC	TBC		



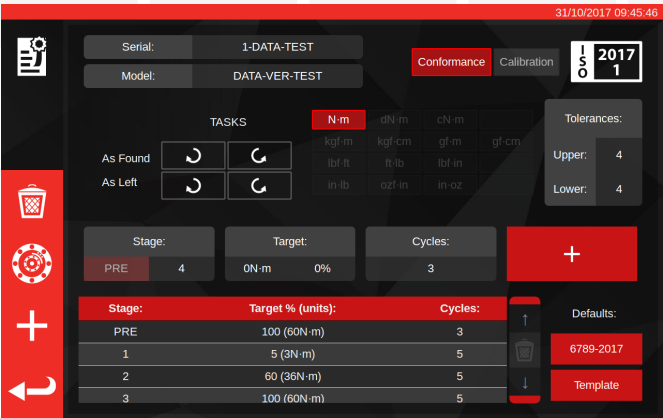
TWC Manual 1500 N-m version shown



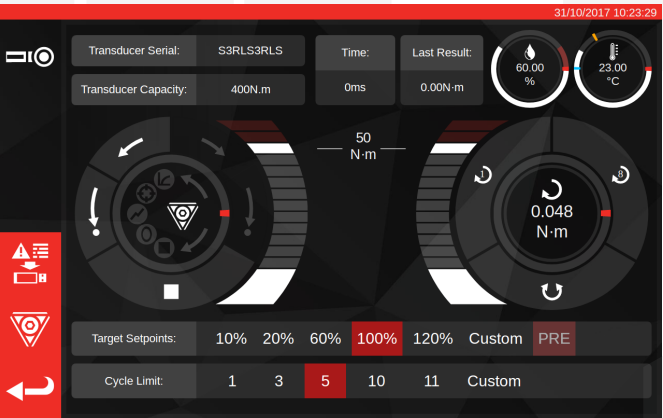
Main menu



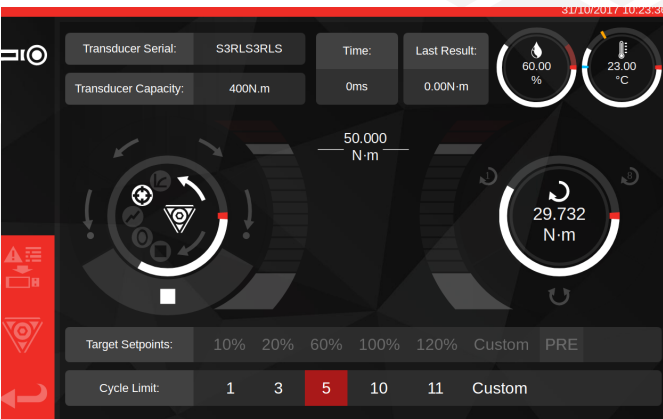
Tool template editor



Calibration job booking / editor



Tool cycling and adjustment



Tool cycling and adjustment whilst in operation

