CALIBRATE 3X FASTER WITH THE AWS

UNIVERSAL TORQUE WRENCH CALIBRATION MACHINE

We set out below the real major cost, time and operator advantages against manual operation, with typical proven examples.

About the Universal Torque Wrench Calibration Machine

The AWS Universal Torque Wrench Calibration Machine (UTWCM) for calibrating and testing manually operated torque wrenches to ISO 6789:2017, ISO 6789:2003 or company specific standards. Available in 2 versions, 1.5kN·m or 3kN·m, it removes the requirements for operators applying high application forces to the handle of large torque wrenches. The inbuilt microcontroller accurately controls the force applied and the operational speeds. This ensures the adherence to the minimum target torque approach times, complying with ISO 6789:2017. Parasitic forces are reduced to minimal levels by the method of mounting and controlling the applied force. It can be used with our Kepler 4 software to further increase productivity, eliminate data entry errors, comply with ISO 6789:2017 & 2003, and produce certificates.
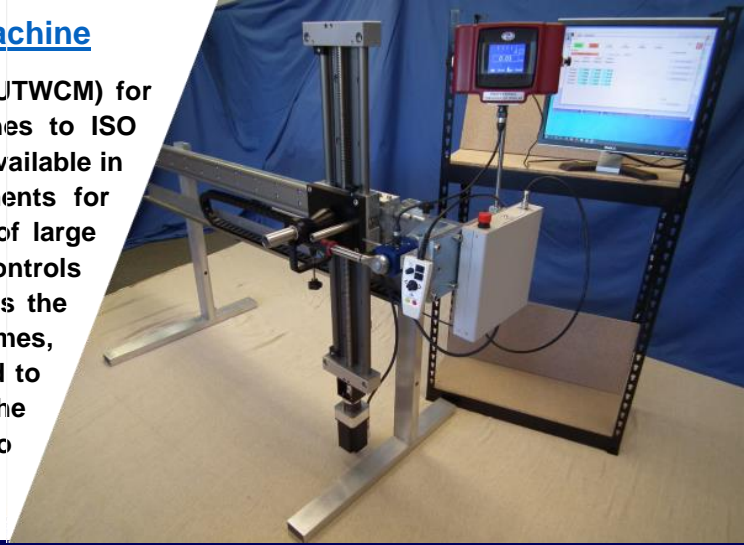
Return on Investment – ISO 6789:2017:

- Users already meeting ISO 6789:2017 by manual means find it is very time consuming and requires quite some skill and operator effort, typically requiring an oscilloscope for checking the final 20% of the applied torque is below the timing requirement set out in the standard.
- Time taken can be up to an hour and a half, and very dependent on operator skill.
- Using the AWS UTWCM, typical calibration time is <u>60 minutes</u>, and with much less operator skill & effort.
- Considerable time saving, generating faster throughput of torque wrenches.
- Using the AWS UTWCM is <u>1/3 quicker</u> than the manual method.
- Payback can be as short as <u>9 months*</u>.

Original Calibration Time	90 mins
New Calibration Time	60 mins
Payback	9 months*

Return on Investment – ISO 6789:2003:

- Using the AWS UTWCM to meet ISO 6789:2003, typical calibration time is only <u>20 minutes.</u>
- Using the UTWCM is <u>3 times faster,</u> increasing throughput and reducing errors, with less operator skill.
- Payback estimated to be as short as <u>3 months**</u>.

Original Calibration Time	60 mins
Calibration Time with UTWCM	20 mins
Payback	3 months**

Get in touch for a free virtual demonstration, or **click here** for a video of the machine in action!

Typical timings for the various calibrations are shown overleaf.

Based on approximate cost of UTWCM, 6 calibrations per day, £35/hour hourly rate.
**Based on approximate cost of UTWCM, 12 calibrations per day, £35/hour hourly rate.*

Find out more about our range of products by visiting www.awstorque.co.uk, calling us on +44 (0) 1295 266939, or emailing us at sales@awstorque.co.uk.

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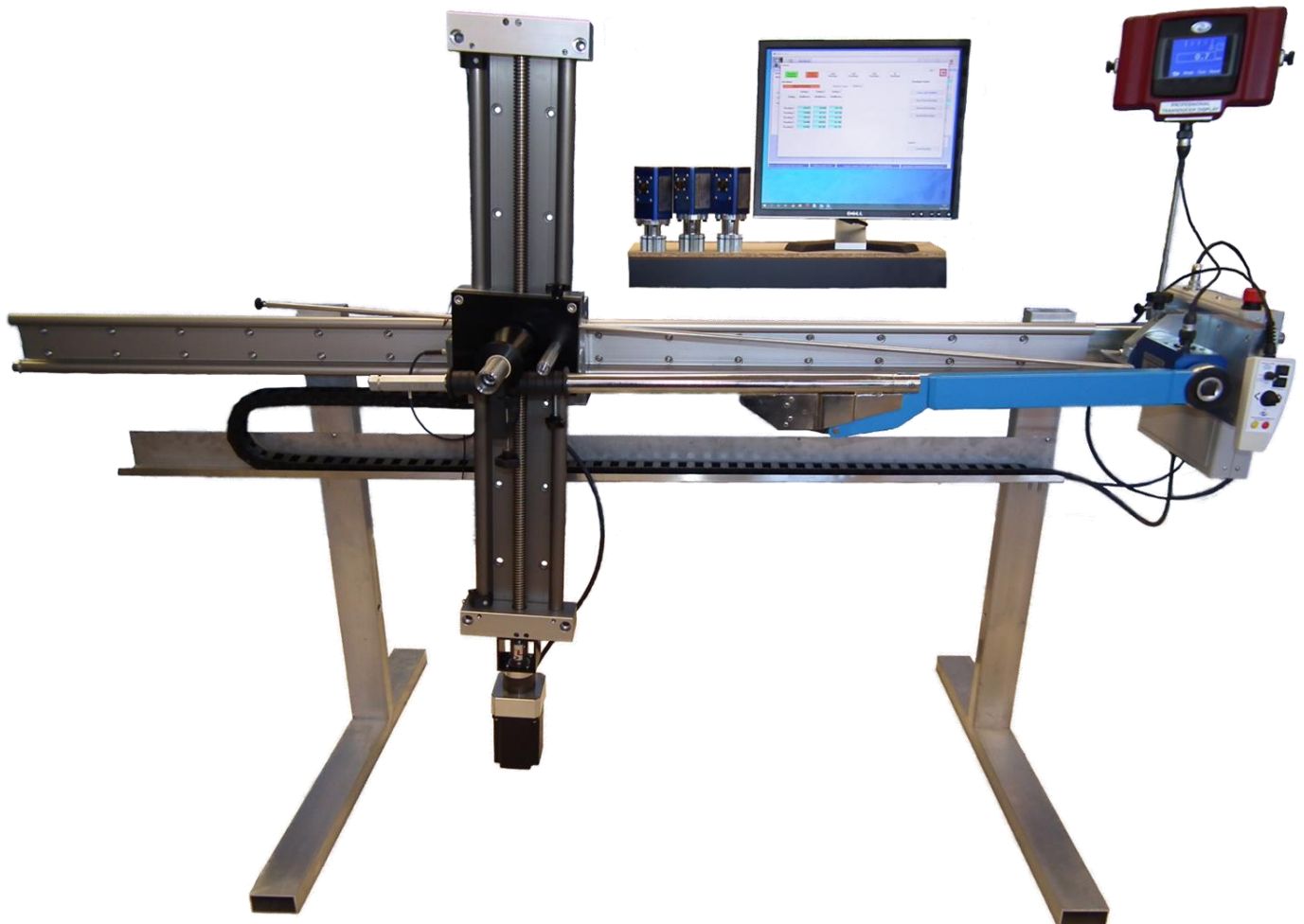
Typical Calibration Times Examples

Typical calibration times to ISO 6789:2017 of various torque wrenches using the AWS UTWCM are given below.

Manufacturer & Type:	Norbar, Adjustable
Calibration Time knowing the Uncertainties (b_{od}, b_{int} and b_l):	20 minutes
Calibration Time including obtaining the Uncertainties (b_{od} and b_l):	42 minutes
Manufacturer & Type:	Norbar, Adjustable
Calibration Time knowing the Uncertainties (b_{od}, b_{int} and b_l):	21 minutes
Calibration Time including obtaining the Uncertainties (b_{od}, b_{int} and b_l):	62 minutes

For more information on timings for other torque wrenches, please contact us.