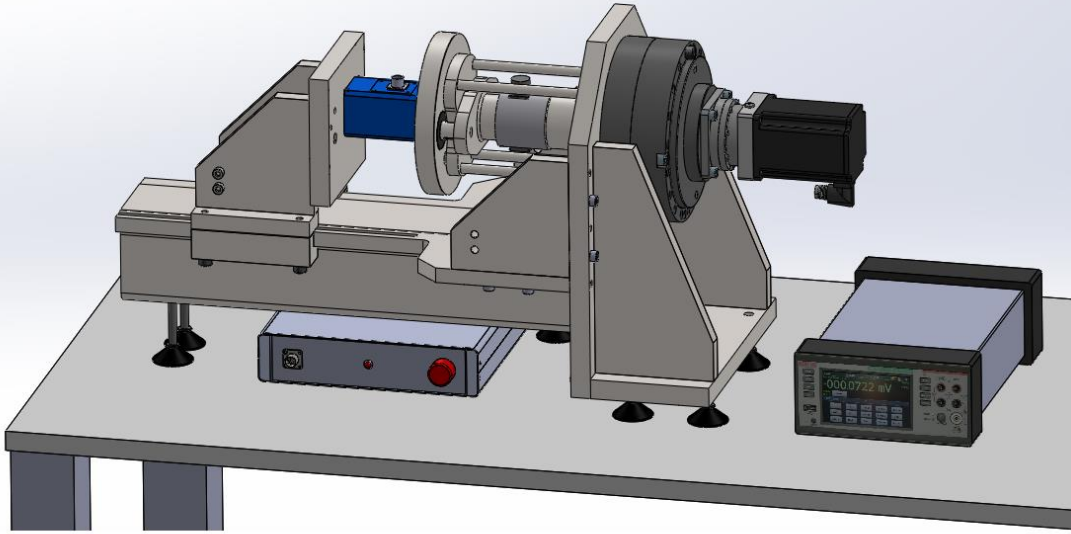


# 2kNm UNIVERSAL TORQUE CALIBRATION MACHINE



*Bench mounted machine with Torque Transducer Sliding Carriage, 2kNm Master Transducer and Voltmeter. AWS 2014-IITT 250Nm Torque Transducer shown as device under test (Sold Separately).*

## DESCRIPTION

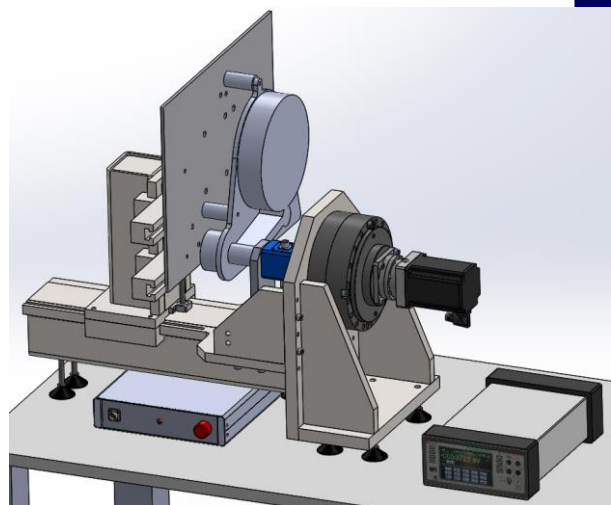
The AWS 4Nm-2000Nm Universal Torque Calibration Machine (3020-UTCM) is designed to provide a compact, efficient way to calibrate torque measuring devices to BS EN 7882:2017, BS EN:7996:2018 or international standards without the need for beams and weights. The machine uses two AWS Master Transducers (2000Nm and 100Nm) with very high accuracy, stability and low uncertainty. The master transducers output to an extremely accurate 6.5 digit computing digital voltmeter to display the applied torque and to attain the required uncertainty of measurement (Certificate of conformity provided).

The UTCM uses a high ratio anti backlash gearbox and stepper motor drive to apply and hold up to 2kNm torque. This is controlled by a pushbutton pendant controller removing the need for the operator to apply weights altogether (eliminating operator fatigue) and speeding up the calibration.

An additional Torque Tester Extension carriage with horizontal or additionally vertical fittings for a variety of torque measuring devices is available as an option (Sold Separately).

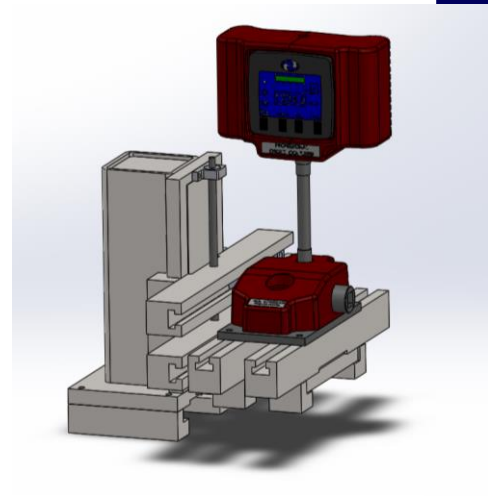
## FEATURES

- **Electronic drive system and push button pendant control, eliminating the need for the operator to manually apply torque.**
- **Easily interchangeable inline master transducers for high accuracy and low uncertainty readings of the nominal torque. Range from 4 Nm to 2kNm.**
- **High ratio anti-backlash gearbox for precise torque application.**
- **Greatly reduced calibration times.**



*UTCM with Tool Tester Extension and Vertical Mounted Torque Tester fittings. Acratork L2 shown as example device under test.*

- Sliding carriage for calibration of standard sized torque transducers up to a 1" square drive.
- Bench or Pedestal mounting options available.
- Optional additional sliding carriage and fittings for calibration of a wide variety of torque measuring and calibration devices. Multi-axis T slot system for pick up of a range of fixing positions.
- Use with AWS Precision Torque Adaptors each designed to accurately fit the model of torque testing device to minimise the uncertainty of adaptor alignment.
- Additional alternative bed position for additional vertical height adjustment, covering the wide variety of torque measuring devices available.
- High accuracy 6½ digit meter used to display the nominal torque readout from the master transducers to attain the required uncertainty of measurement.
- Jog function to precisely apply small increments of torque.



Torque Tester Extension with fittings for horizontal mount Torque Testers. AWS 1005 shown as device under test. (Sold separately)

## OPTIONS

	3020 - Universal Torque Calibration machine (UTCM)	Options	
		Tool Tester Extension	Vertical Mounting Extension (Requires Tool Tester Extension)
<b>Model No.</b>	<b>3020</b>	<b>3020-E</b>	<b>3020-EV</b>
<b>Description</b>	Calibration of torque transducers from 4Nm-2000Nm with square drives from ¼" to 1".	Additional fittings for calibration of vertical and horizontal mounting Torque Testers.	Additional fittings for calibration of large vertical or wall mounted Torque Testers.

## DIMENSIONS

Approx. dimensions for mounting on benches/tables: 94cm (length) x34cm (width) x40cm (height)

Approx. Weight (Kg):

Main Body (Without Transducers & Carriages)	Transducer Sliding Carriage	Torque Tester Sliding Carriage (Depending on options)	2kNm Transducer Cassette
90.0	16.7	24 - 40.5	13.5

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