



TORQUE CALIBRATION UNIT

The Torque Calibration Unit, TCU, is intended to be used for the calibration of torque sensors ≤ 25 kNm.

BENEFITS

- The TCU is flexible and can be used to calibrate the sensors fixed in the mounting as well as the free sensors.
- Cost-efficient
- User friendly
- Mobile and adaptable footprint
- Fully automated



Function

TCU is based on a jack which operates a lever to develop a torque in the calibration range. When calibrating a sensor, the shaft can become static due to an axis locking and then becoming connected via a universal joint with the TCU. The torque is built up by the jack applying force on the torque arm until the desired torque is achieved, with the jack engine braking then maintaining the torque. The calibrated sensor is then read by using its own measuring systems.

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MAINTENANCE

The rig is usually used infrequently, thus needing little maintenance. However, some things should be checked before each run:

- General inspection. Check for damage and that all screws are tightened, et cetera.
- Before the mechanical connection, the torque arm should be driven against both of its end positions. This is partly in order to check the function of the encoder and to lubricate the bearing rollers properly.
- Check that the shaft lock function between the jack and torque runs smoothly. On the shaft there is a grease nipple for pushing the grease into the grease grooves.

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