

5000 lbf.ft Calibration Beam

Designed to remove potential sources of measurement error, these beams can be used to calibrate Norbar torque transducers, and torque transducers from other manufacturers (where design permits), as well as mechanical test devices. A UKAS accredited certificate for the measurement of torque radius is supplied with each beam.

- The < 0.04% uncertainty of applied torque achievable with this beam allows calibration to the high classes of accuracy specified by BS7882:2008.
- Beam length machined to +/-0.01% (100 microns per meter).
- Clockwise and counter-clockwise operation.
- Beams balanced to maximise energy transfer to transducer during loading.
- High beam accuracy allows use of cast iron weights rather than stainless steel. Weight accuracy is required to be equal to or better than 0.01%.
- High quality bearings to reduce energy losses.
- Gearbox provided to level beam and remove cosine errors.
- SI and Imperial Calibration possible with one beam (using different weights).

NOTE: A temperature controlled environment is essential for use of these beams. The selection of weights will be influenced by gravitational constant and air buoyancy values at the proposed laboratory site. See page 88.

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Range		Beam Part No.	Radius to Centre Line of Hanger	Weight Set Part No.s	Weight Set Comprising	Diameter of Weight Hanger Rod	Drive Square A/F (in)
Minimum	Maximum						
500 N.m	5000 N.m	21842	1275 mm	21469	20 x 50 lbf	12 mm	1½
500 lbf.ft	5000 lbf.ft	21842	60 in	21469	20 x 50 lbf	12 mm	1½

