

Calibration Disc

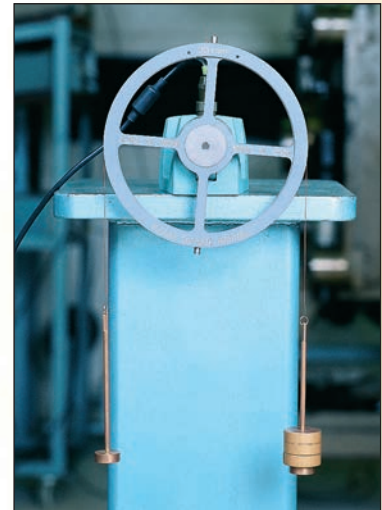
Designed to remove potential sources of measurement error, these Discs can be used to calibrate Norbar torque transducers, and torque transducers from other manufacturers (where design permits), as well as mechanical test devices. A UKAS accredited certificate for the measurement of torque radius is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

- The < 0.04% uncertainty of applied torque achievable with this disc allows calibration to the high classes of accuracy specified by BS7882:2008.
- Machined to $\pm 0.03\%$ from aircraft alloys.
- Clockwise and counter-clockwise operation.
- Capable of SI or Imperial calibrations.
- Compatible with male and female 1/4" square transducer drives.
- No bearings to cause energy loss during loading.
- Brass weights with an accuracy better than $\pm 0.01\%$ are available in five sets to achieve a variety of calibration ranges.
- Special weight sets can be specified up to a maximum torque of 2.5N.m.

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.



Calibration Disc shown with more than one weight set.



Calibration Discs – S.I and Imperial

Range		Disc 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						
0.05 N.m	0.50 N.m	21400	100 mm	21452.NAM	10 x 0.5 N	4 mm	¼
0.10 N.m	1.00 N.m	21400	100 mm	21450.NAM	10 x 1.0 N	4 mm	¼
0.25 N.m	2.5 N.m	21400	100 mm	21479.NAM	10 x 2.5 N	4 mm	¼
5 ozf.in	50 ozf.in	21400	100 mm	21455.NAM	10 x 1.27 ozf	4 mm	¼
10 ozf.in	100 ozf.in	21400	100 mm	21453.NAM	10 x 2.54 ozf	4 mm	¼
16 ozf.in (1 lbf.in)	160 ozf.in (10 lbf.in)	21400	100 mm	21451.NAM	10 x 4.064 ozf	4 mm	¼