



Static Torque Transducer

The accuracy and quality of the Norbar Static Torque Transducers has made them the first choice of many calibration laboratories throughout the world.

- Up to 6800 N.m (5000 lbf.ft) classified to BS7882:2008, typically Class 1 or better for the primary classification range ($\pm 0.5\%$ of reading from 20% to 100% of full scale).
- From 6800 N.m (5000 lbf.ft) up to 108,500 N.m (80,000 lbf.ft) classified to BS7882:2008, Class 1 to Class 5 for the classification range ($\pm 0.5\%$ to $\pm 2.5\%$ of reading) dependant on the type of transducer.
- Robust, heat treated, alloy steel torsion shaft design.
- Designed to ignore non torsional forces.
- Operates in clockwise and anti-clockwise directions.
- Calibration up to 108,500 N.m (80,000 lbf.ft) with a UKAS accredited calibration certificate.
- Calibrated in clockwise direction as standard. Anti-clockwise calibration provided on request.
- 'SMART' transducers have built in memory circuit which contains essential information about the transducer. This information can be read by Norbar's TST and TTT instruments meaning that when the transducer is connected, it is immediately recognised and ready for use. When ordering for a TST or TTT, use part no. suffix '.LOG' (eg. 50659.LOG) if you require a torque units calibration certificate.
- 'SMART' transducers can also be used with many instruments not of Norbar manufacture. However, these will operate as normal ratio calibrated (mV/V) transducers – the 'SMART' data will not be read. For non Norbar instruments or for when a mV/V certificate is required, use part code suffix '.IND'.

S.I Calibrated Transducers

Capacity	Part No.	Sq. Drive	Dimensions (mm)			Bench Stand
		in	A	B Ø	C	
1 N.m	50587.xxx*	¼ m/f	79	36.5	86	50211
2.5 N.m	50588.xxx	¼ m/f	79	36.5	86	50211
5 N.m	50589.xxx	¼ m/f	79	36.5	86	50211
10 N.m	50590.xxx	¼ m/f	79	36.5	86	50211
25 N.m	50591.xxx	⅜ m/f	79	36.5	89.5	50212
50 N.m	50592.xxx	⅜ m/f	79	36.5	89.5	50212
100 N.m	50593.xxx	½ m/f	79	36.5	92.8	50213
250 N.m	50594.xxx	½ m/f	79	36.5	92.8	-
250 N.m	50701.xxx	¾ m/f	118	54	141	50220
500 N.m	50596.xxx	¾ m/f	118	54	141	50220
1000 N.m	50772.xxx	1 m/f	118	54	146	50221
1500 N.m	50766.xxx	1" m/f	118	54	146	50221
2500 N.m	50703.xxx	1½ m/f	117	95	160	50127.BLK9005
3000 N.m	50791.xxx	1½ m/f	117	95	160	50127.BLK9005
5000 N.m	50599.xxx	1½ m/f	117	95	160	50127.BLK9005
7000 N.m	50669.xxx	1½ m/f	117	95	160	50127.BLK9005
10000 N.m	50601.xxx*	2½ m/m	68.5	110	200	-
10000 N.m	50776.xxx	2½ m/f	145.5	130	209	-
25000 N.m	50603.xxx	2½ m/m	68.5	110	200	-
25000 N.m	50797.xxx	2½ m/f	145.5	130	209	-
50000 N.m	50781.xxx	2½ m/f	145.5	130	209	-
50000 N.m	50794.xxx*	3½ m/m	73.5	165	271	-
80000 N.m	50783.xxx	3½ m/f	205	160	291.5	-
100000 N.m	50796.xxx	3½ m/m	98	165	271	-

*Not suitable for TST and TTT.

Select part no. suffix .LOG if the transducer is to be connected to TST or TTT (example: 50588.LOG). For connection to a non Norbar instrument or when a mV/V certificate is required, select .IND.

Static Torque Transducer



Imperial Calibrated Transducers

Capacity	Part No.	Sq. Drive	Dimensions (mm)			Bench Stand
		in	A	B Ø	C	
100 ozf.in	50609.xxx*	¼ m/f	79	36.5	86	50211
1000 ozf.in	50616.xxx	¼ m/f	79	36.5	86	50211
10 lbf.in	50610.xxx*	¼ m/f	79	36.5	86	50211
25 lbf.in	50612.xxx	¼ m/f	79	36.5	86	50211
50 lbf.in	50614.xxx	¼ m/f	79	36.5	86	50211
100 lbf.in	50617.xxx	¼ m/f	79	36.5	86	50211
250 lbf.in	50619.xxx	¾ m/f	79	36.5	89.5	50212
500 lbf.in	50621.xxx	¾ m/f	79	36.5	89.5	50212
1000 lbf.in	50623.xxx	½ m/f	79	36.5	92.8	50213
1 lbf.ft	50611.xxx	¼ m/f	79	36.5	86	50211
2.5 lbf.ft	50613.xxx	¼ m/f	79	36.5	86	50211
5 lbf.ft	50615.xxx	¼ m/f	79	36.5	86	50211
10 lbf.ft	50618.xxx	¼ m/f	79	36.5	86.4	50211
25 lbf.ft	50620.xxx	¾ m/f	79	36.5	89.5	50212
50 lbf.ft	50622.xxx	¾ m/f	79	36.5	89.5	50212
100 lbf.ft	50624.xxx	½ m/f	79	36.5	92.8	50213
250 lbf.ft	50625.xxx	½ m/f	79	36.5	92.8	-
250 lbf.ft	50702.xxx	¾ m/f	118	54	141	50220
500 lbf.ft	50627.xxx	¾ m/f	118	54	141	50220
1000 lbf.ft	50773.xxx	1 m/f	118	54	146	50221
2500 lbf.ft	50704.xxx	1½ m/f	117	95	160	50127.BLK9005
5000 lbf.ft	50630.xxx	1½ m/f	117	95	160	50127.BLK9005
10000 lbf.ft	50633.xxx	2½ m/m	68.5	110	200	-
10000 lbf.ft	50777.xxx	2½ m/f	145.5	130	209	-
25000 lbf.ft	50635.xxx	2½ m/m	68.5	110	200	-
25000 lbf.ft	50798.xxx	2½ m/f	145.5	130	209	-
30000 lbf.ft	50799.xxx	2½ m/f	145.5	130	209	-
50000 lbf.ft	50795.xxx	3½ m/m	98	165	271	-
60000 lbf.ft	50782.xxx	3½ m/f	205	160	291.5	-
100000 lbf.ft	50637.xxx	3½ m/m	98	165	271	-

* Not suitable for TST and TTT

Select part no. suffix .LOG if the transducer is to be connected to TST or TTT (example: 50616.LOG). For connection to a non Norbar instrument or when a mV/V certificate is required, select .IND.