



TSSF Static Torque Transducer

Flange to square static torque reaction transducer.

The TSSF range of static torque transducers is a trusted solution for the accurate testing and calibration of high-torque hydraulic drive tools, continuous air and battery drive tools and hand torque tools.

Used across general industry, construction, mining, offshore, oil and gas and marine applications, the TSSF is built to perform reliably in the most demanding and harsh environments.

The TSSF is a male square drive to flange transducer. Its circular flanged base features through-holes for secure bolting to a bench or trolley, delivering a stable, fixed measurement platform well-suited to demanding workshops or site calibration work-flows.

Internally strain-gauged for enhanced protection and long-term reliability, the TSSF is available from 150 Nm to 7,000 Nm, with intermediate and larger capacities available upon request.

- Measurement range from 150 Nm to 7 kNm
- Square drive sizes from 0.75" to 2"
- Custom capacities available on request
- Can be supplied with a basic TR150 hand-held display
- EP version for connection to Crane data collectors
- Supplied with UKAS-traceable calibration certificate

Technical Information

Nominal Sensitivity:	1.5mV/V
Bridge Supply:	10V
Bridge Resistance:	700 ohms
Non-linearity:	±0.2% FS
Hysteresis:	±0.2% FS
Repeatability:	±0.1% FS
Overload Capacity:	150% FS
Compensated Range:	20 to +60°C
Operating Temp:	0 to +80°C
Zero Shift:	< ±0.01%/C°
Span Shift:	< ±0.02%/C°
Storage Temp:	-30 to +90°C
Accuracy:	±0.25% FS

The optional EP (EEPROM Plug and Play) cable enables seamless integration with Crane torque data collectors, automatically recognising the transducer upon connection and eliminating manual set-up errors.

This automatic recognition enables serial number logging against each measurement, ensuring complete traceability across every test. This is particularly valuable in regulated industries such as oil & gas and marine.

Connecting the TSSF to a TorqueStar Pro allows data to be exported directly to Crane's OMS Lite torque management software for centralised data management and reporting.

Where a readout device is already in use, the Industry Standard (IS) version delivers full transducer functionality with broad compatibility across third-party instruments and amplifiers.

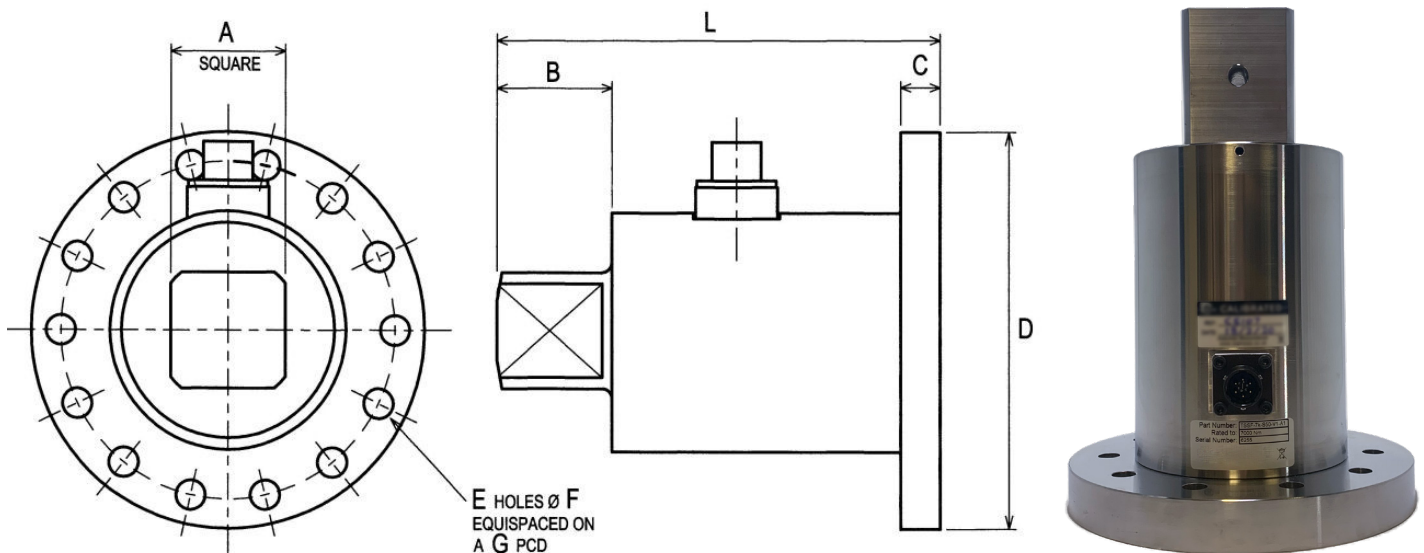
Whether using Crane devices or an existing setup, the TSSF provides a complete, integrated torque measurement solution.



The TSSF transducer can be supplied with a TorqueStar data collector and EP cable, or with a simple display such as the TR150.



Dimensions



Model No.	Size	A	B	C	D	E	ØF	G	L
TSSF-300/0.75"	150/300Nm	19.05	20	6	68	8	6.5	55	75
TSSF-300/1"	300Nm	25.4	46	12	120	14	9	102	146
TSSF-3k/35mm	1/2/3 kNm	35	35	12	120	14	9	102	135
TSSF-3k/1.5"	3.0kNm	38	38	12	120	14	9	102	146
TSSF-7k/2"	7.0kNm	50.8	63.5	20	160	10	10.2	125	224

For pricing, availability or further technical information about the TSSF series, visit www.crane-electronics.com or get in touch via email at sales@crane-electronics.com.



Locations

UK - Watling Drive, Hinckley, Leicestershire LE10 3EY
 USA - 1260 11th Street West, Milan, Illinois 61264
 Germany - Im Rank 5, 73655 Plüderhausen

