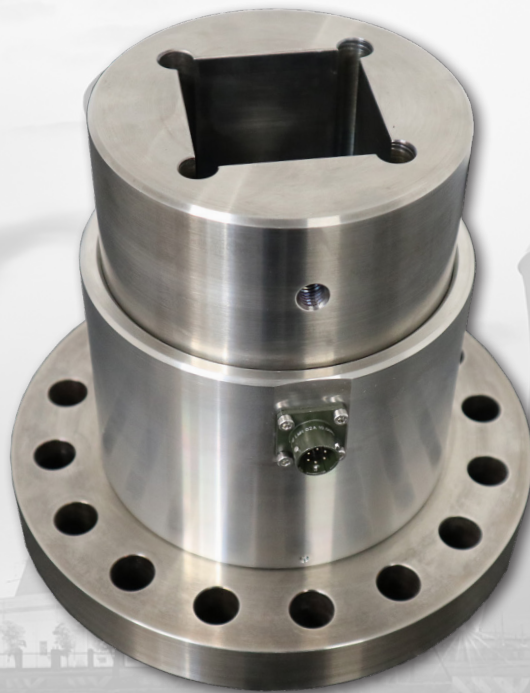




TSFF Static Torque Transducer

Flange to square static torque reaction transducer.

The TSFF range of static torque transducers is the first choice for accurate testing and calibration of hydraulic, continuous air, battery drive and hand torque tools.

Trusted across general industry, construction, mining, offshore, oil & gas and marine applications, the TSFF has a proven track record in the most demanding and harsh environments.

The TSFF is a female square drive to flange transducer, with a flanged collar featuring through-holes for secure bench or trolley mounting, making it ideal for high-throughput calibration work flows.

Internally strain-gauged for enhanced protection and long-term reliability, the TSFF is available from 160 Nm to 75,000 Nm, with intermediate and larger capacities available upon request.

A lightweight aluminium version is available for weight-sensitive applications. Bespoke configurations can also be designed and manufactured.

- Measurement range from 160 Nm to 75 kNm
- Square drive sizes from ½" to 3½"
- 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:	±0.1% FS
Hysteresis:	±0.1% FS
Repeatability:	±0.05% FS
Overload Capacity:	150% FS
Zero Shift:	< ±0.01%/C°
Span Shift:	< ±0.02%/C°
Operating Temp:	0 to +95°C
Compensated Range:	0 to +95°C
Storage Temp:	-30 to +95°C
Accuracy:	±0.25% FS
Tolerance on C diameter:	H7

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 TSFF 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.

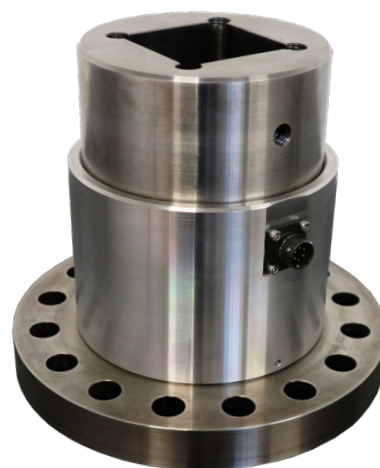
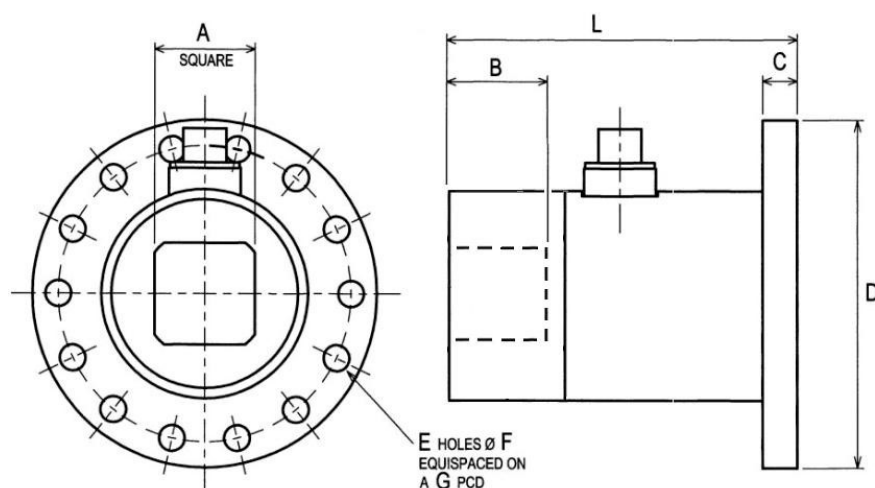
Whether using Crane devices or an existing setup, the TSFF provides a complete, integrated torque measurement solution.



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



Dimensions



Model	Size	A	B	C	D	E	F	G	L
TSFF 0.5"	160 Nm	0.5"	16	12	80	8	6.5	65	75
TSFF 1.0"	1000 Nm	1.0"	28.6	15	120	8	10.2	100	120
TSFF 1.5"/3k	3000 Nm	1.5"	41.5	15	140	8	12.2	115	150
TSFF 1.5"/5k	5000 Nm	1.5"	41.5	15	140	8	12.2	115	150
TSFF 2.5"/10k	10000 Nm	2.5"	58	25	215	16	16.5	180	185
TSFF 2.5"/30k	30000 Nm	2.5"	58	25	215	16	16.5	180	185
TSFF 3.5"	75000 Nm	3.5"	Available on request.						

For pricing, availability or further technical information about the TSFF 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

