

Static Transducers – Stationary



Workbench mounted static torque transducers

The stationary transducer with fixed shaft is ideal for testing mechanical torque wrenches and screwdrivers. With the use of a suitable joint simulator (Joint Kit), continuously rotating nutrunners (non-shut-off) can also be tested with repeatable accuracy.

Combined with a „Female Joint Kit“ joint tightening simulator, which can be used to simulate manufacturing conditions, the Stationary Torque Sensor is an effective „off-line“ testing tool for verifying tool performance. They can be used in workshops or test laboratories as well as on mobile test trolleys next to the production line.

Stationary torque transducers combine compact dimensions, low weight and superior quality. The UTA version has an integrated smart chip on which the torque range, serial number, calibration date, bridge resistance and sensitivity are stored. This means that the UTA transducers work „plug & play“ with Crane's readout devices, e.g. TorqueStar, IQVu or ReadStar II. Automatic recognition avoids possible setup errors and shortens set-up times.



- ▶ Static accuracy $\pm 0.25\%$ FSD (bi-directional).
- ▶ Zero stability $< \pm 0.1\%$ FSD/ $^{\circ}\text{C}$.
- ▶ Overload capacity 125%.
- ▶ Suitable for the measurement of all continuous drive and impulse power tools and all hand torque tools.
- ▶ Rugged and durable construction, aluminium housing, stainless steel shaft.
- ▶ Ingress protection IP40.
- ▶ Built-in workbench mounting flange.
- ▶ Incorporate into custom-built mobile test stations.



Compatible: data collector IQVu (Plus)



Compatible: data collector TorqueStar Plus/Pro



Optional auto transducer switch: 5-way sensor switch for Crane „UTA“ or „Multi“ sensors. An LED indicates the currently active transducer. The connected Crane measuring device suggests the most suitable sensor in the display.



Compatible: data collector TorqueStar Lite



Compatible: Joint simulator (Female Joint-Kits)

Optional Accs

Model	Item No.	Short Name	Description
TO-899-09CR-0-0	C718321	Auto TXD Switch	5-way auto transducer switch (UTA, Multi only) with LED indicator; connects to TorqueStar or IQVu.
700-1500	C718307	IS Straight Cable	Straight cable IS Stationary to Crane readout TorqueStar / IQVu / ReadStar.
CBL-760-0-0-0-0	C718308	IS Curly Cable	Curly cable IS Stationary to Crane readout TorqueStar / IQVu / ReadStar.



Static Transducers – Stationary

Dimensions in mm						
Drive Size	A	B	C	D	E	Weight (Kg)
1/4"	54	100	25	76.5	16	1.62
3/8"	54	100	25	86	24	1.93
1/2"	54	100	25	95	30	2.10
3/4"	50	100	25	112	44	2.11
1"	59	100	25	124	53	2.63



Crane UTA Version

INFO

incl. 1 metre spiral cable with strain relief and 25-pin D-Sub connector. Integrated data chip contains torque range, calibration date, serial number. This saves manual entries by the user and also prevents accidental incorrect entries. Works „plug&play“ with Crane readout devices / data collectors.

Industry Standard Version

INFO

For use with measuring instruments of other makes (bridge resistance 350 Ohm). Equipped without data chip and without cable, but with output interface according to MIL-C-26482 / BS 9522 - F0017, shell size 8-4P.

STANDARD INTERFACE

Connector	Function
A	+ Excitation
B	- Excitation
C	+ Signal
D	- Signal

Compatible with BS 9522 - F0017
4 Pole Cable Mounting socket. Shell Size 8.

UTA Stationary

Model	Item No.	Torque Range			Dimensions (mm)					SqD inch	Weight kg
		lbf-in	lbf-ft	N-m	A	B	C	D	E		
UTA-164-0-3.54-0-0	C718089	31.36	–	0.35 - 3.54	54	100	25	77	16	1/4	1.62
UTA-164-0-25	C718090	5 - 50	–	0.57 - 5.65	54	100	25	77	16	1/4	1.62
UTA-165-0-25	C718091	10 - 100	–	1.1 - 11.3	54	100	25	77	16	1/4	1.62
UTA-166-0-25	C718092	25 - 250	–	2.8 - 28.2	54	100	25	77	16	1/4	1.62
UTA-167-0-35	C718093	60 - 600	5 - 50	6.8 - 67.8	54	100	25	86	24	3/8	1.93
UTA-168-0-35	C718094	120 - 1200	10 - 100	14 - 135	54	100	25	86	24	3/8	1.93
UTA-169-0-35	C718095	240 - 2400	20 - 200	27 - 271	54	100	25	95	30	1/2	2.10
UTA-170-0-35	C718096	–	40 - 400	54 - 542	50	100	25	112	44	3/4	2.11
UTA-171-0-35	C718097	–	75 - 750	102 - 1017	50	100	25	112	44	3/4	2.11
UTA-172-0-35	C718098	–	125 - 1250	170 - 1695	59	100	25	124	53	1	2.63
UTA-115-00CR-3000-0*	C718100	–	221 - 2213	300 - 3000	–	–	–	–	–	1 1/2	3.20
UTA-115-00CR-5000-0*	C718099	–	369 - 3687	500 - 5000	–	–	–	–	–	1 1/2	3.20

*) male Square Drive (m)

IS Stationary (2 mV/V)

Model	Item No.	Torque Range			Dimensions (mm)					SqD inch	Weight kg
		lbf-in	lbf-ft	N-m	A	B	C	D	E		
IS-873-08CR-11-0	C719100	10 - 100	–	1.1 - 11.3	54	100	25	77	16	1/4	1.62
IS-873-10CR-28-0	C719101	25 - 250	–	2.8 - 28.2	54	100	25	77	16	1/4	1.62
IS-873-12CR-67-0	C719103	60 - 600	5 - 50	6.8 - 67.8	54	100	25	86	24	3/8	1.93
IS-873-14CR-135-0	C719105	120 - 1200	10 - 100	14 - 135	54	100	25	86	24	3/8	1.93
IS-873-16CR-271-0	C719107	–	20 - 200	27 - 271	54	100	25	95	30	1/2	2.10
IS-873-18CR-1017-0	C719109	–	75 - 750	102 - 1017	50	100	25	112	44	3/4	2.11
IS-873-20CR-1695-0	C719111	–	125 - 1250	170 - 1695	59	100	25	124	53	1	2.63



Further information available on our website – 24/7.

Various connecting cables are optionally available for connection to measuring instruments of other makes. Please enquire if required.

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