UTA Stationary Transducer - User Instructions

Getting started with your stationary torque transducer.

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CE

Declares that this UTA Stationary Torque Transducer has been assessed and complies with the requirements of the relevant CE Directives when used with Crane Electronics Ltd readout devices.

SUMMARY

Crane's stationary torque transducers are the quality choice for the testing of both continuous-drive and impulse power tools and hand torque tools, in the workshop and production line-side environment.

Stationary transducers are used in multiple testing applications both off-line in testing workshops or line-side on mobile test stations. Combined with Crane joint kits that represent the production joint condition, they form an effective off-line test for verification of assembly tool performance.

Stationary transducers form an essential part of the Crane UTA torque system, enabling automatic transducer recognition with Crane readout devices. On board intelligence means the UTA transducer is automatically recognised by the readout, eliminating set-up errors and enabling the logging of a serial number against measurements for complete traceability. An Industry Standard (IS) version is also available where the user needs the features of the stationary transducer but already has a readout device from another manufacturer.

OPERATION

Select a suitable size of stationary transducer that is appropriate to the maximum torque rating of the tool to be used. A suitably sized transducer top joint kit should also be selected, configured to the required joint conditions (see user instructions for transducer top joint kits) and fitted to the female square drive of the stationary transducer.

Connect the transducer to the readout, select an appropriate operating mode then operate the tool in the normal way. In the interests of accuracy it is essential to maintain the correct alignment between the stationary transducer, joint kit and power tool. When using stationary transducers with a tool and reaction bar the effective radial position of the reaction point should not be less than the figures given in Table 1. Failure to observe this requirement and also the maximum torque rating, may cause irreversible damage to the stationary transducer.

SPECIFICATIONS

Transducer type: UTA : incorporate data chip enabling Plug & Play operation with compatible Crane readouts and data collectors.

Construction: Steel housing
Overload capacity: 125% rated torque
Square drives to ANSI B107-4 - 1982; BS4006 - 1992; DIN 3121 - 1987

Connections: 1m integral cable with strain relief; 25-pin 'D' port (male) for connection to Crane readouts and data collectors.

Zero stability: <± 0.1% of FSD/ºC

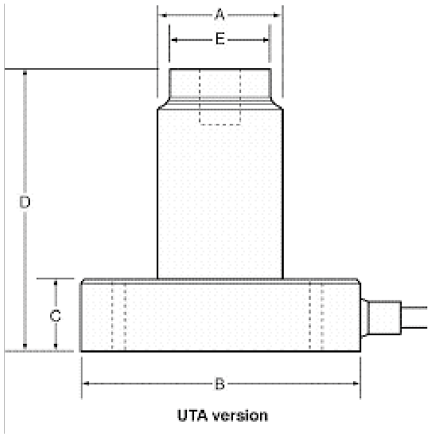
Static accuracy: ±0.25% FSD

Operating env: Temperature: 5 - 40ºC (-10 to 60ºC with reduced specification)
Humidity: 10 - 75% non-condensing
Ingress Protection rating: IP40

Warranty: 12 months parts and labour against faulty workmanship or materials

Calibration: All torque equipment should be re-calibrated every 12 months.

UTA Stationary - Dimensions and Weights



UTA version

Dimensions in mm						
Drive	A	B	C	D	E	Weight (Est. 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
1 1/2"	762	140	25	130	1.5" Across Flats	3.20

Drive Size	Nominal Torque		Min. Radial Position of reaction bar at Max. Torque
	(Nm)	*Imperial (ftlbf)*	
¼"	3.54	31.36 inlbf	50mm
¼"	5.65	50 inlbf	100mm
¼"	11.3	100 inlbf	50mm
¼"	28	250 inlbf	100mm
⅜"	68	50	150mm
⅜"	135	100	180mm
½"	271	200	180mm
¾"	542	400	240mm
¾"	1017	750	240mm
1"	1695	1250	350mm
1½"	3000	2213	350mm

For more information about the UTA Stationary torque transducer, please call +44 (0) 1455 25 14 88 or email us at sales@crane-electronics.com.

Locations

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