



Key Features

- Suitable for measurement of all continuous drive, impulse and hand torque tools
- Plug and Play with Crane display systems (Auto ID)
- Combine with joint kits for workshop simulation of hard to soft joints
- Incorporate into custom built mobile test stations

Product Overview

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

Stationary transducers are used off the production line in workshop or line-side test stations. Combined with joint kits that represent the production joint condition, the stationary transducers 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 Plug and Play operation with Crane readout devices. On board intelligence means the UTA transducer is automatically recognised by the Crane readout device, eliminating set-up errors and enabling logging of serial number against measurements for complete traceability. An Industry Standard (IS) version is also available where a user needs the features of the stationary transducer but already has a readout device from another manufacturer.

Specifications

Functional Attributes

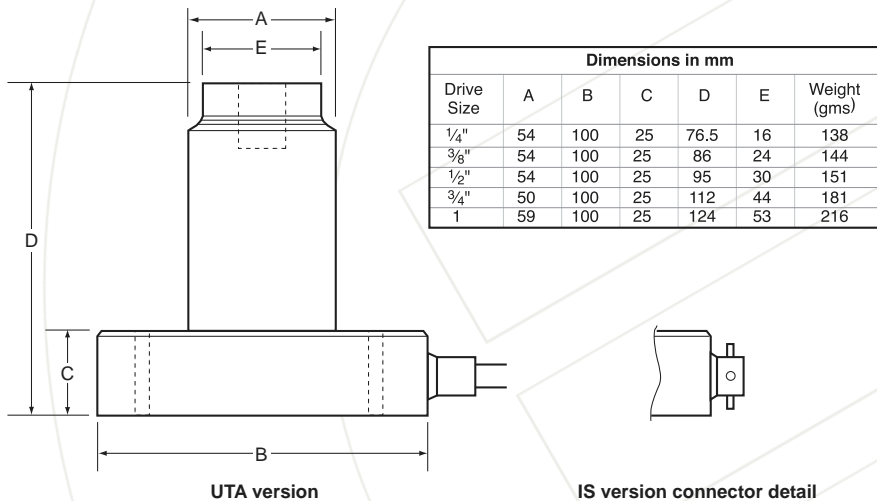
Tool compatibility	All torque tools, including impulse tools* (not impact tools). A joint kit recommended for continuous drive and impulse tools to represent joint conditions
Physical measurements	Bi-directional torque (clockwise calibration unless otherwise specified)
Plug & Play transducer data	UTA system indicators read the following information from the UTA chip incorporated in the transducer device: Torque range, serial number, calibration due date, bridge, mV/V

* For best results with impulse tools we recommend the use of a Crane CheckStar rotary torque transducer with a suitable joint kit rather than a stationary transducer.

Physical Attributes

Calibration	<p>Issued with calibration certificate traceable to National and International Standards. IS transducers are normalised calibration unless indicated in table.</p> <p>Standard Crane calibration: 10 points; single direction (clockwise unless otherwise requested); 10% to 100% of nominal torque.</p> <p>Bi-direction Crane calibration: (optional) 10 points; each direction; from 10% to 100% of nominal torque</p> <p>UKAS calibration: (optional) calibration to BS 7882</p> <p>Recalibration is recommended every 12 months</p>
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Transducer types	UTA: incorporate data chip enabling Plug & Play operation with compatible Crane indicators IS: 'Industry Standard' version. Bridge resistance: 350 Ohms. Sensitivity: see table.
Construction	Aluminium housing Overload capacity: 125% rated torque Square drives to ANSI B107-4 – 1982; BS4006 – 1992; DIN 3121 – 1987
Connections UTA	UTA version: 1m integral cable with strain relief; 25-pin 'D' port (male) for connection to CEL system readouts IS version: output connector to MIL-C 26482 / BS 9522 FOO 17; shell size 8-4P.
Zero stability	< ± 0.1% FSD/°C
Static accuracy	± 0.25% FSD
Operating environment	Temperature: 5 – 40°C (-10 – 60°C with reduced specification) Humidity: 10 – 75% non-condensing Ingress Protection rating: IP40
Warranty	12 months parts and labour against faulty workmanship or materials
Dimensions & weights	



Shipping list	Stationary transducer unit Integral cable (UTA versions only)
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Order Codes

Order Code	Drive	Nominal Torque	
		Nm	Imperial (ftlbf)
UTA Statics			
UTA-164-0-3.54-0-0	1/4"	3.54	31.36 inlbf
UTA-164-0-25	1/4"	5.65	50 inlbf
UTA-165-0-25	1/4"	11.3	100 inlbf
UTA-166-0-25	1/4"	28	250 inlbf
UTA-167-0-35	3/8"	68	50
UTA-168-0-35	3/8"	135	100
UTA-169-0-35	1/2"	271	200
UTA-170-0-35	3/4"	542	400
UTA-171-0-35	3/4"	1017	750

Stationary Transducers

Workbench mounted torque transducer



Order Code	Drive	Nominal Torque		Shunt cal
		Nm	Imperial (ftlbf)	
UTA-172-0-35	1"	1695	1250	
UT-115-00CR-3000-0	1½"	3000	2213	
IS Statics – 2 mV/V Sensitivity				
IS-873-07CR-11-0	¼"	11.3	100 inlbf	✓
IS-873-08CR-11-0	¼"	11.3	100 inlbf	
IS-873-09CR-28-0	¼"	28.25	250 inlbf	✓
IS-873-10CR-28-0	¼"	28.25	250 inlbf	
IS-873-11CR-67-0	⅜"	67.8	50	✓
IS-873-12CR-67-0	⅜"	67.8	50	
IS-873-05CR-135-0*	⅜"	135.6	100	
IS-873-13CR-135-0	⅜"	135.6	100	✓
IS-873-14CR-135-0	⅜"	135.6	100	
IS-873-06CR-271-0*	½"	271.2	200	
IS-873-15CR-271-0	½"	271.2	200	✓
IS-873-16CR-271-0	½"	271.2	200	
IS-873-17CR-1017-0	¾"	1017	750	✓
IS-873-18CR-1017-0	¾"	1017	750	
IS-873-19CR-1695-0	1"	1695	1250	✓
IS-873-20CR-1695-0	1"	1695	1250	

* Incorporates joint kit retention pin

Accessories List

Item	Description	Order Code
IS Stationary transducer to CEL indicator cable	Connect IS transducer to TorqueStar <i>Opta</i> or DataMaster	700-1500
IS Stationary to CEL indicator curly cable	Connect IS transducer to TorqueStar <i>Opta</i> or DataMaster	CBL-760-0-0-0-0

UTA Stationary transducers have an integral cable for Plug & Play connection to CEL indicators.
Various other cables available for connecting IS transducers to 3rd party indicators – see separate cables datasheet for information

System Components

CEL Stationary torque transducers may be used in conjunction with the following items:

Item	Description
TorqueStar <i>Opta</i>	Off-line torque measurement
DataMaster	Off-line torque measurement
Female joint kits	Mechanical device to represent production joint rate conditions off-line
MTTS Calibration Trolleys	Stationary transducers together with a suitable indicator can be built into a mobile tool test station

Calibration service

Crane Electronics Ltd operates a calibration laboratory accredited by UKAS, the UK Accreditation Service. All Crane products are issued with a calibration certificate traceable to National and International Standards. It is recommended that torque instrumentation is recalibrated at least every 12 months.

Crane Electronics Ltd operates a policy of continuous product development and improvement, and so technical specifications may change without notice. Please clarify with Crane or your distributor that you are referring to the latest technical data sheet.



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The force in torque management

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