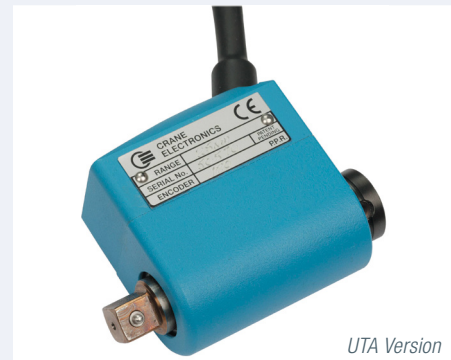


Rotary Torque Transducers – CheckStar UTA

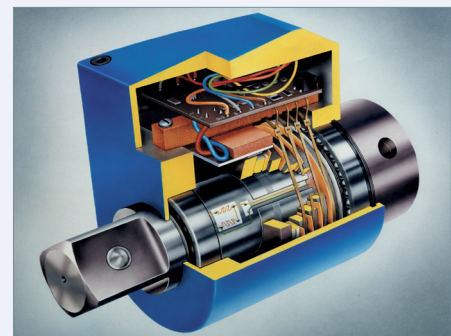
UTA Version with
Smart-Chip and
curly cable



up to 20 Nm also
available with hex drive



UTA Version



IndustrieStandard Version
available on request

- Static accuracy $\pm 0.25\%$ FSD (bidirectional).
- Angle option (0.5° resolution).
- Zero stability $< \pm 0.1\%$ FSD/ $^\circ\text{C}$.
- Patented slip ring mechanism eliminating signal losses due to brush bounce.
- Aluminium housing, stainless steel shaft. Ingress protection IP40.
- Traceable calibration certificate.
- UTA incl. 1m integral curly cable with strain relief; 25-pin 'D' port (male) connector; Incorporated data chip with torque range, angle encoder data, serial number, calibration due date. Plug & Play with Crane readouts (Auto ID).

In-line torque transducers with angle measurement option

Crane's CheckStar sets the standard for dynamic torque and angle measurement of all continuous drive and impulse tools, with proven reliable performance in thousands of applications worldwide. CheckStar transducers fit in-line between the assembly tool and the fastener, measuring the actual torques applied under production conditions.

The low inertia design of CheckStar ensures accurate and repeatable measurement of high speed transients, such as the point of shut-off on continuous drive tools and the pulsing of impulse tools.

Whatever the vibration and shock loads experienced, CheckStar's patented contact system ensures contact is always maintained between the readout and the strain gauges. Inferior systems suffer from "brush bounce" that leads to unreliable torque readings.

CheckStar forms an essential part of the Crane UTA torque system, enabling plug and play operation with Crane readout devices. On board intelligence means the UTA CheckStar is automatically recognised by the Crane readout device, eliminating setup 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 advanced features of the CheckStar but already has a readout device from another manufacturer. Both versions can be specified to include an angle encoder with 0.5° resolution.

Options

Both the 'UTA' and 'IS' versions are optionally available with a built-in angle encoder (resolution 0.5°).

INFO



Picture left: 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.

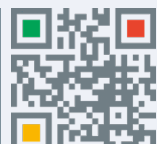
Compatible with Joint
Simulators, Table Top
Joint Kits'.



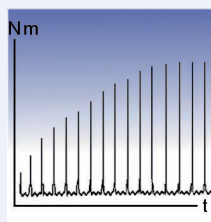
Plug-&-Play with Crane
measuring devices, e.g.
the 'TorqueStar' series ...



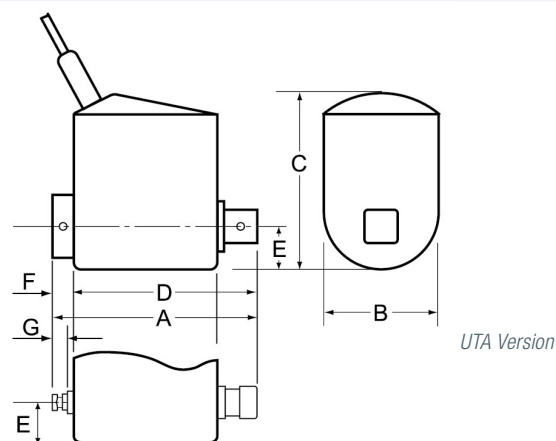
... or 'IQVu' (Tablet)



Rotary Torque Transducers – CheckStar UTA

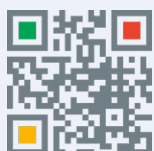


Proven reliable measurement of impulse tools



CheckStar UTA

Model		Item No.	Torque Range N-m	Angle	max. rpm			Dimensions mm							Hx inch	Sq	Weight kg
					cont.	puls.	angle	A	B	C	D	E	F	G			
w/o angle	UT-449-01CR-1-0	C718056	0.1 - 1	—	5000	11000	—	116	30	56	56	13	39	26	1/4	—	0.49
	UTA-449-0002-0	C718040	0.2 - 2	—	5000	11000	—	116	30	56	56	13	39	26	1/4	—	0.49
	UTA-449-0005-0	C718041	0.5 - 5	—	5000	11000	—	116	30	56	56	13	39	26	1/4	—	0.49
	UTA-450-0010-0	C718042	1 - 10	—	5000	11000	—	116	30	56	56	13	39	26	1/4	—	0.49
	UTA-450-0020-0	C718043	2 - 20	—	5000	11000	—	116	30	56	56	13	39	26	1/4	—	0.49
with angle enc.	UT-449-02CR-1-A	C718066	0.1 - 1	•	5000	11000	2500	116	30	56	56	13	39	26	1/4	—	0.49
	UTA-449-0002-A	C718070	0.2 - 2	•	5000	11000	2500	116	30	56	56	13	39	26	1/4	—	0.49
	UTA-449-0005-A	C718071	0.5 - 5	•	5000	11000	2500	116	30	56	56	13	39	26	1/4	—	0.49
	UTA-450-0010-A	C718072	1 - 10	•	5000	11000	2500	116	30	56	56	13	39	26	1/4	—	0.49
	UTA-450-0020-A	C718073	2 - 20	•	5000	11000	2500	116	30	56	56	13	39	26	1/4	—	0.49
w/o angle	UT-451-06CR-5-0P	C718053	0.5 - 5	—	5000	11000	—	72	30	56	56	13	6	—	—	1/4	0.50
	UTA-451-0010-0P	C718086	1 - 10	—	5000	11000	—	72	30	56	56	13	6	—	—	1/4	0.50
	UTA-451-0020-0P	C718045	2 - 20	—	5000	11000	—	72	30	56	56	13	6	—	—	1/4	0.50
	UTA-452-0025-0P	C718046	2.5 - 25	—	2500	10000	—	77	30	60	56	15	8	—	—	3/8	0.55
	UTA-452-0050-0P	C718085	5 - 50	—	2500	10000	—	77	30	60	56	15	8	—	—	3/8	0.55
	UTA-452-0075-0P	C718047	7.5 - 75	—	2500	10000	—	77	30	60	56	18	8	—	—	3/8	0.55
	UTA-677-0-75-0-0P	C718084	7.5 - 75	—	2500	7600	—	87	42	70	58	21	12	—	—	1/2	0.73
	UTA-453-0180-0P	C718048	18 - 180	—	2500	7600	—	87	42	70	58	21	12	—	—	1/2	0.73
	UT-454-05CR-250-0P	C718057	25 - 250	—	2000	5000	—	87	42	70	58	21	12	—	—	1/2	0.73
	UTA-454-0250-0P	C718049	25 - 250	—	2000	5000	—	106	52	81	60	26	21	—	—	3/4	1.05
	UTA-454-0500-0P	C718050	50 - 500	—	2000	5000	—	106	52	81	60	26	21	—	—	3/4	1.05
	UTA-455-0750-0P	C718051	75 - 750	—	1000	4400	—	125	63	92	65	32	29	—	—	1	1.80
	UTA-455-1400-0P	C718052	140 - 1400	—	1000	4400	—	125	63	92	65	32	29	—	—	1	1.80
	UTA-477-3000-0P	C718054	300 - 3000	—	1000	4400	—	181	102	136	87	51	50	—	—	1.5	5.7
	UTA-477-01CR-5000-0P	C718055	500 - 5000	—	500	1500	—	181	102	136	87	51	50	—	—	1.5	14
with angle encoder	UT-451-02CR-5-AP	C718063	0.5 - 5	•	5000	11000	2500	72	30	56	56	13	6	—	—	1/4	0.50
	UTA-451-0010-AP	C718074	1 - 10	•	5000	11000	2500	72	30	56	56	13	6	—	—	1/4	0.50
	UTA-451-0020-AP	C718075	2 - 20	•	5000	11000	2500	72	30	56	56	13	6	—	—	1/4	0.50
	UTA-452-0025-AP	C718076	2.5 - 25	•	2500	10000	2500	77	30	60	56	15	8	—	—	3/8	0.55
	UTA-452-0050-AP	C718083	5 - 50	•	2500	10000	2500	77	30	60	56	15	8	—	—	3/8	0.55
	UTA-452-0075-AP	C718077	7.5 - 75	•	2500	10000	2500	77	30	60	56	18	8	—	—	3/8	0.55
	UTA-677-0-75-0-AP	C718044	7.5 - 75	•	2500	7600	2500	87	42	70	58	21	12	—	—	1/2	0.73
	UTA-453-0180-AP	C718078	18 - 180	•	2500	7600	2500	87	42	70	58	21	12	—	—	1/2	0.73
	UT-454-05CR-250-AP	C718087	25 - 250	•	2000	5000	2500	87	42	70	58	21	12	—	—	1/2	0.73
	UTA-454-0250-AP	C718079	25 - 250	•	2000	5000	2000	106	52	81	60	26	21	—	—	3/4	1.05
	UTA-454-0500-AP	C718080	50 - 500	•	2000	5000	2000	106	52	81	60	26	21	—	—	3/4	1.05
	UTA-455-0750-AP	C718081	75 - 750	•	1000	4400	1000	125	63	92	65	32	29	—	—	1	1.80
	UTA-455-1400-AP	C718082	140 - 1400	•	1000	4400	1000	125	63	92	65	32	29	—	—	1	1.80
	UTA-477-3000-AP	C718064	300 - 3000	•	1000	4400	500	181	102	136	87	51	50	—	—	1.5	5.7
	UTA-477-5000-AP	C718065	500 - 5000	•	500	1500	n.a.	181	102	136	87	51	50	—	—	1.5	14



Further information available on our website – 24/7.

Recommendation: To avoid or prevent overload, a torque sensor should mainly be used in its medium range. If you regularly have to work close to the max. load capacity, a larger model would be more advisable.

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