Joint Simulators Transducer Top Joint Kits

Soft to hard joint representation

The performance of an assembly tool is highly dependent on the conditions of the actual production joint on which it is used. Tooling engineers are well aware of the “mean shift” term used to describe the different torque delivered by the same tool when applied to a soft or a hard joint as defined by ISO 5393. It is therefore essential in testing and setting up tools off the production line to allow for the joint conditions which the tool will experience on the job.

Crane’s joint kits satisfy this requirement by using a bolt and suitably configured disc washers allowing free running of the bolt and a subsequent torque gradient to closely match the production joint condition.

Two versions are available. Transducer Top joint kits are used in conjunction with female stationary transducers. Both versions incorporate a selection of disc washers and spacers that may be configured to simulate various joint conditions.

- Represent production joint conditions off the production line.
- Can be adjusted to include joint conditions specified by ISO 5393.
- Allows free running of bolt before torque gradient.
- Major benefit to accurate tool test and set-up.
- **Transducer Top Joint Kits**: Used in combination with >> Stationary torque transducers. Recommended for accurate off-line testing of continuous drive power tools, e.g. screwdrivers and angle nutrunners.

System component: (Fem.) Stationary torque transducer

Transducer Top Joint Kits

Model	Item No.	Size	Disc Spring	Max. Torque (soft –> hard)			Diam.	Nut	Bolt	Price	PG
		Inch	Washers (#)	N·m	lbf·in	lbf·ft	mm	mm	mm	€	
JK-874-06CR-28-0	C718151	1/4	24	5.6 – 28.25	50 – 250	–	100	13	M8	58.00	41
JK-874-07CR-135-0	C718152	3/8	18	67.8 – 100	–	50 – 73.75	100	19	M12	664.00	41
JK-874-08CR-271-0	C718153	1/2	18	135.6 – 271	–	100 – 200	100	24	M16	789.00	41
JK-874-09CR-1017-0	C718154	3/4	20	460 – 1017	–	340 – 750	150	36	M24	1578.00	41
JK-874-10CR-1695-0	C718156	1	10	847 – 1695	–	625 – 1250	150	46	M30	1827.00	41

Replacement Bolt-Kits

Model	Item No.	Size	Description	Price	PG
JK-874-13CR-0-0	C718183	1/4	Female Bolt Kit	108.00	49
JK-874-14CR-0-0	C718184	3/8	Female Bolt Kit	125.00	49
JK-874-15CR-0-0	C718185	1/2	Female Bolt Kit	150.00	49
JK-874-16CR-0-0	C718186	3/4	Female Bolt Kit	390.00	49
JK-874-17CR-0-0	C718187	1	Female Bolt Kit	482.00	49

Prices are valid per unit in Euro plus VAT and/or any custom fees exw Hamburg, incl. package. Errors or alteration excepted.

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Joint Simulators Table Top Joint Kits

Soft to hard joint representation

The performance of an assembly tool is highly dependent on the conditions of the actual production joint on which it is used. Tooling engineers are well aware of the “mean shift” term used to describe the different torque delivered by the same tool when applied to a soft or a hard joint as defined by ISO 5393. It is therefore essential in testing and setting up tools off the production line to allow for the joint conditions which the tool will experience on the job.

Crane’s joint kits satisfy this requirement by using a bolt and suitably configured disc washers allowing free running of the bolt and a subsequent torque gradient to closely match the production joint condition.

Two versions are available. Table Top joint kits are used with CheckStar rotary transducers. They are fixed to a workbench and are particularly suitable for off-line testing of impulse tools. Both versions incorporate a selection of disc washers and spacers that may be configured to simulate various joint conditions.

- Represent production joint conditions off the production line.
- Can be adjusted to include joint conditions specified by ISO 5393.
- Allows free running of bolt before torque gradient.
- Major benefit to accurate tool test and set-up.
- **Table Top Joint Kits** Used in combination with >> CheckStar rotary torque transducers. Recommended for accurate off-line testing of non-impacting power tools, e.g. impulse wrenches.

System component: Rotary torque sensor CheckStar

Optional: for insert sockets please refer to our separate catalog.

Table Top Joint Kits

Model	Item No.	Size	Disc Spring	Max. Torque (soft –> hard)			Diam.	Nut	Bolt	Price	PG
		Inch	Washers (#)	N·m	lbf·in	lbf·ft	mm	mm	mm	€	
JK-875-06CR-28-0	C718150	1/4	24	5.6 – 28.25	50 – 250	–	n. a.	13	M8	914.00	41
JK-875-07CR-135-0	C718155	3/8	18	67.8 – 100	–	50 – 73.75	n. a.	19	M12	997.00	41
JK-875-08CR-271-0	C718158	1/2	18	135.6 – 271	–	100 – 200	n. a.	24	M16	1121.00	41
JK-875-09CR-1017-0	C718159	3/4	20	460 – 1017	–	340 – 750	n. a.	36	M24	1910.00	41
JK-875-10CR-1695-0	C718157	1	10	847 – 1695	–	625 – 1250	n. a.	46	M30	2160.00	41

Replacement Bolt-Kits

Model	Item No.	Size	Description	Price	PG
JK-875-13CR-0-0	C718 - - -	1/4	Female Bolt Kit	n. a.	49
JK-875-14CR-0-0	C718 - - -	3/8	Female Bolt Kit	n. a.	49
JK-875-15CR-0-0	C718 - - -	1/2	Female Bolt Kit	n. a.	49
JK-875-16CR-0-0	C718 - - -	3/4	Female Bolt Kit	n. a.	49
JK-875-17CR-0-0	C718 - - -	1	Female Bolt Kit	n. a.	49

Prices are valid per unit in Euro plus VAT and/or any custom fees exw Hamburg, incl. package. Errors or alteration excepted.

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