

Controlled System Impulse Wrench – TKa series w Angle Sensor



Img.: TKa-700



Img.: TKa-900-C



Img.: TKa-1400

System impulse wrench with integrated angle sensor

More than 30 years ago, Yokota developed intelligent bolt tightening tools that fit into a process-safe system. Because of the increasing market demand for accuracy and troubleshooting, Yokota integrated the additional rotation angle monitoring function. Electronic torque and angle management – this is the kind of advanced technology that challenges Yokota.

Fully monitored bolting operations

In addition to the existing torque control, the integration of an angle sensor also enables rotation angle and time monitoring.

Detection of tightening errors

By monitoring the angle of rotation during the tightening process, it is possible to detect all kinds of errors that were previously difficult to detect with conventional torque-controlled tightening tools alone:

- Detection of insufficient or excessive torque
- Coefficient of friction outside the tolerance range
- Fastener too short or too long
- Cross thread detection
- Crooked thread detection
- Damaged thread detection
- Double tightening detection
- Blind hole detection



LEDs

Almost all TKa models are optionally available with green/red LEDs instead of the acoustic signal transmitter – visible all around: from above, below, left, right, front, rear.

Sensitive angle sensor

The extremely compact integrated encoder detects both angle and direction of rotation from 1 degree.

Series TKa with Angle Sensor

Type / Size	Model ¹⁾		Item No.	Bolt Capacity Ø	RPM min ⁻¹	Torque Range ²⁾ N·m	Air Cons. l/s	Dimensions		Weight kg	Pipe Thread Zoll	Hose ID mm	Vibration m/s ²	Noise Level dB(A)	
	SqD	Hex						A	B						
Pistol	–	1/4	TKa 600 A	421001	M6	6000	11 - 16	4.5	189	21	1.34	1/4	6.35	2.1	71
	–	1/4	TKa 700 A	421003	M6-M8	7000	20 - 27	5.3	189	21	1.34	1/4	6.35	2.1	75
	–	1/4	TKa 700 A-C	421008	M6-M8	7000	20 - 27	5.3	189	21	1.34	1/4	6.35	2.1	75
	3/8	–	TKa 600	421000	M6	6000	14 - 20	4.5	189	21	1.34	1/4	6.35	2.1	71
	3/8	–	TKa 600-C	421005	M6	6000	14 - 20	4.5	189	21	1.34	1/4	6.35	2.1	71
	3/8	–	TKa 700	421050	M6-M8	7000	24 - 33	5.3	189	21	1.34	1/4	6.35	2.1	75
	3/8	–	TKa 700-C	421015	M6-M8	7000	24 - 33	5.3	189	21	1.34	1/4	6.35	2.1	75
	3/8	–	TKa 800	421060	M8	7000	32 - 46	5.3	198	21	1.39	1/4	6.35	2.1	77
	3/8	–	TKa 800-C	421065	M8	7000	32 - 46	5.3	198	21	1.39	1/4	6.35	2.1	77
	3/8	–	TKa 900	421010	M8-M10	6500	47 - 60	6.8	204	23	1.50	1/4	9.5	2.1	78
	3/8	–	TKa 900-C	421035	M8-M10	6500	47 - 60	6.8	204	23	1.50	1/4	9.5	2.1	78
	1/2	–	TKa 1110	421021	M10-M12	5500	65 - 95	8.8	220	25.5	1.97	1/4	9.5	2.2	80
	1/2	–	TKa 1110-C	421026	M10-M12	5500	65 - 95	8.8	220	25.5	1.97	1/4	9.5	2.2	80
	1/2	–	TKa 1200	421070	M12	5900	85 - 130	10	237	29	2.60	1/4	9.5	2.2	82
	1/2	–	TKa 1200-C	421075	M12	5900	85 - 130	10	237	29	2.60	1/4	9.5	2.2	82
	1/2	–	TKa 1400	421030	M14	5200	100 - 160	13.1	246	29	3.00	1/4	9.5	2.2	84
	1/2	–	TKa 1400-C	421055	M14	5200	100 - 160	13.1	246	29	3.00	1/4	9.5	2.2	84
	1/2	–	TKa 1500	421040	M14-M16	4200	150 - 220	13.2	254	32.5	3.60	1/4	9.5	2.4	84
	1/2	–	TKa 1500-C	421045	M14-M16	4200	150 - 220	13.2	254	32.5	3.60	1/4	9.5	2.4	84



Further information available 24 / 7 on our website.

¹⁾ Models whose designation ends in „-C“ are equipped with LED instead of the acoustic transmitter.
²⁾ Torque specification is only a guide value, based on the manufacturer's bolting tests at 0.6 MPa. Due to different influencing factors, practical values may deviate.