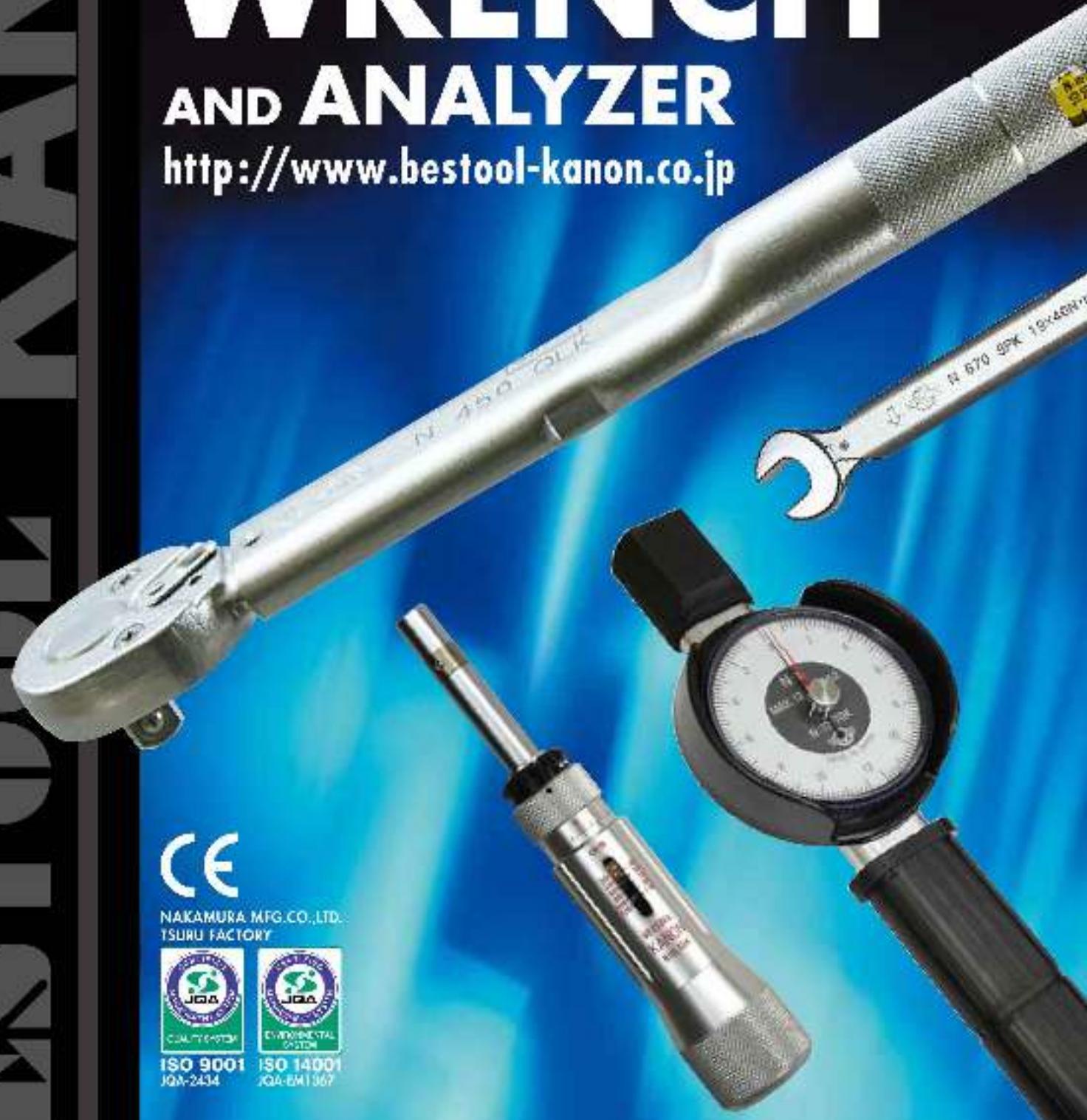


GENERAL CATALOG



TORQUE WRENCH AND ANALYZER

<http://www.bestool-kanon.co.jp>



NAKAMURA MFG.CO.,LTD.
TSURU FACTORY



ISO 9001
JQA-2434



ISO 14001
JQA-EM1367

BESTOOL-KANON

Exploring the frontiers of higher accuracy and reliability.

Every single fastener fulfills an important function maintaining the life of every product.

In the transportation or chemical industries, if a fastener loosens from improper tightening, it might cause a serious disaster costing human life.

We focus our techniques and wisdom, accumulated over many years, on preventing such occurrences.

Tightening only by hand will cause unexpected disaster.
For example,

Traffic accidents

Improper wheel nut tightening resulting in wheels coming off.

Construction accidents

Improper tightening of structural joints resulting in collapsing scaffolding or buildings.

Explosions

Improperly tightened underground gas line joints resulting in leakage and explosion.

Chemical accidents

In chemical plants, improperly tightened joints can release toxic substances.

Torque tools play an important role in preventing such incidents.
Torque tools tighten joints uniformly with adequate force.

In particular they serve:

1. To prevent under-or-over-tightening.
2. To tighten multiple bolts uniformly.
3. To adequately generate the clamping force required for bolted joints.

BESTOOL-KANON

NOTE: Can be calibrated to : Inch pounds,
Foot pounds, Newton meters.

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TORQUE WRENCHES

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SPCK/SPCKHPRE-SET, REPLACEABLE HEAD
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DTC-EXLDATA FRT-OUT DIGITAL
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DTDK-EXLDIGITAL TORQUE DRIVER
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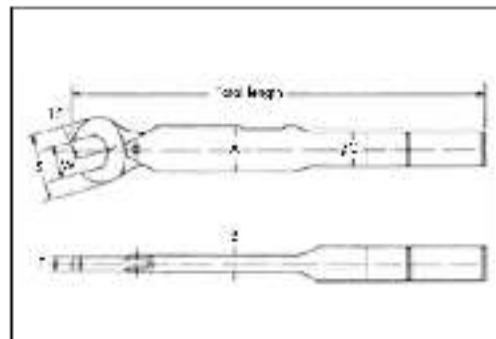
DTC-N5EXLDIGITAL TORQUE WRENCH
WITH CONNECTED DISPLAY

SPK PRE-SET TORQUE WRENCHES

Audible and tangible "CLICK" when the set torque is reached, assuring a securely tightened joint. This series is well-suited for production line use.

FEATURES

- A single function wrench, used for a single setting combination of fastener size and torque setting.
- Most suited for tightening multiple same-size fasteners at the same torque in a production line.
- Setting confirmation unnecessary.
- Can be used effectively in confined spaces.
- Tightening to set torque only in the direction of the arrow indicator, but can be used for general tightening in the other direction as well.
- Accuracy : $\pm 3\%$ of preset value



SPK (Metal Handle)



(N) 80~670 SPKH [with Rubber Grip]

EXAMPLE OF ORDER

Model kgf-cm	Range kgf-cm	Old Model N·m	New Model N·m	Range Nm	Spanner sizes (W)	Weight	
30SPK	5~30	N30SPK	N30SPK	0.5~3	5.5 6 7 8	10 13	132 24 5 19.5 7.5 15 0.1

Model kgf-cm	Range kgf-cm	Old Model N·m	New Model N·m	Range Nm	Spanner sizes (W)	Weight	Dimensions (mm)				
							Head	Body	B	C	kg
30SPK	5~30	N30SPK	N30SPK	0.5~3	5.5 6 7 8	10 13	132	24	5	19.5	7.5
80SPK	15~80	N80SPK	N80SPK	1.5~8	5.5 6 7 8 10 11	11 12 13	175	24	5	19.5	7.5
190SPK	35~190	N190SPK	N190SPK	3.5~19	7 8 10 12 13 14 17	11 12 13 14	200	27	7	19.5	7.5
380SPK	80~380	N380SPK	N380SPK	8~38	10 12 17 19 21 23	13 14	213	35	8	26.5	8.2
670SPK	130~670	N670SPK	N670SPK	13~67	17 19 22 24 27 30 36 41 47 52	24 26 27	256	25	9.7	29	0.47
1200SPK	240~1,200	N1200SPK	N1200SPK	24~120	29 30 36 41 49 59	32	330	56	11	25.0	0.48
1600SPK	300~1,600	N1600SPK	N1600SPK	30~160	24 26 27 30 36 41 49 59	32	403	62	12	32.8	11.3
2200SPK	450~2,200	N2200SPK	N2200SPK	45~220	24 27 30 32 41	39	404	64	14	42.8	12.0
3100SPK	650~3,100	N3100SPK	N3100SPK	65~310	27 30 36 41 49 57	32	457	73	16	38.0	16
4200SPK	900~4,200	N4200SPK	N4200SPK	90~420	24 27 30 32 41	39	597	52	18	43.0	17.0
							598	72	15	35.5	19.5
							650	67			1.2
							654	72	16	38.0	16
							662	52			1.4
							870	74			1.45
							838	78			1.46
							843	52	18	43.0	17.0
							847	58			1.5
							840	94			1.59

* is the new model that is applied from 1st January, 2016.

RSPK

PRE-SET, RING TORQUE WRENCHES

Can be used for accurate torque application even on joints inaccessible with other wrenches.

FEATURES

- The ring head of RSPK wrenches is offset at a 45° angle making certain joints particularly accessible.
- A single function wrench, used for a single setting combination of fastener size and torque setting.
- Most suited for tightening multiple same-size fasteners at the same torque on a production line.
- Setting confirmation unnecessary.
- Accuracy: $\pm 3\%$ of preset value.

EXAMPLE OF ORDER

Model	Size(W)	Pre-set Value
N190RSPK	10	x 14N·m

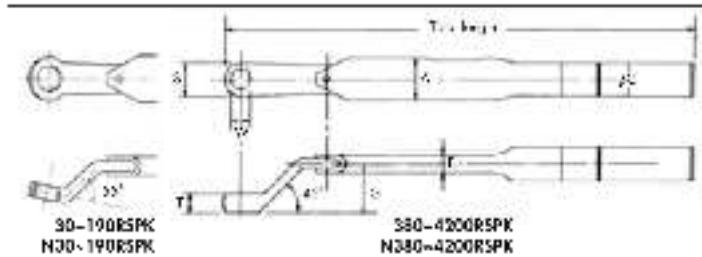


RSPK (Metal Handle)



(N) 80~670 RSPKH (with Rubber Grip)

*1	*2	*3
Ring head Dimensions Model sizes (W) mm	Ring head Dimensions Model sizes (W) mm	Ring head Dimensions Model sizes (W) mm
5.5	5	10
6	6	10
7	7	10
8	8	13
9	9	13
10	10	13
		6
		14
		15
		16
		17
		18
		19
		20
		21
		22
		23
		24
		25
		26
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		31
		32
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		35
		36
		37
		38
		39
		40
		41
		42
		43
		44
		45



Model (kgf·cm)	Range kgf·cm	Old Model (N·m)	New Model (N·m)	Range N·m	Ring head size (W)			Total length mm	Head mm	Dimensions (mm) Body			Weight kg
					5.5	6	7			C	A	B	C
30RSPK	5~35	N30RSPK	N3.5RSPK	0.5~3.5	5.5	6	7	175	★1	19.5	7.5	15	0.12
					7	8	9						
					5.5	6	7						
80RSPK	20~90	N80RSPK	N80RSPK	2~9	8	9	10	167	★2	19.5	7.5	15	0.13
					10	11	12						
					11	12	13	222					
190RSPK	40~210	N190RSPK	N190RSPK	4~21	11	12	13	225	★3	19.5	7.5	15	0.21
					12	13	14	228					
380RSPK	90~420	N380RSPK	N43RSPK	9~42	11	12	13	268	22	26.8	8.2	20	0.31
					12	13	14	270	32				
					13	14	15	343	26				
670RSPK	140~730	N670RSPK	N73RSPK	14~73	19	20	21	348	34	29.8	6.7	20	0.48
					20	21	22	353	40				
					21	22	23	410	32				
1200RSPK	250~1,200	N1200RSPK	N12RSPK	25~127	22	23	24	415	37	32.8	1.3	25	0.65
					23	24	25	428	44				
					24	25	26	437	50				
1600RSPK	320~1,700	N1600RSPK	N170RSPK	32~170	19	20	21	470	57	32.8	1.3	25	1.0
					20	21	22	474	44				
2200RSPK	480~2,300	N2200RSPK	N230RSPK	48~230	19	20	21	505	37				
					20	21	22	500	41				
					21	22	23	512	46	35.8	19.5	27.9	1.22
					22	23	24	527					
3100RSPK	580~3,200	N3100RSPK	N320RSPK	58~320	35			512	53	35.8	16	30	1.4
					41				54				
					22				562	49			
					23				565	46			
					24				588	52			
					32				588	52	35	36	1.4
					41				590	52			1.45
					27				590	52			1.45
4200RSPK	950~4,300	N4200RSPK	N430RSPK	95~430	35			585	53	40.3	7.9	34	1.6
					41				590	63			1.65
					45				595	65			1.7

* ■ is the new model that is copied from 1st January, 2016

QLK

ADJUSTABLE, RATCHET TORQUE WRENCHES

Freely set torque values within the capacity range. Replaceable socket, ratchet wrenches.

FEATURES

- The ratchet improves efficiency. These wrenches are well suited for repetitive work.
- By replacing the sockets, various sizes of fasteners can be tightened within the tool's capacity range.
- By reversing the ratchet, the wrench can be used to loosen fasteners counter-clockwise.
- Tightening to a torque setting can only be done clockwise.
- Accuracy $\pm 3\%$ of indicated value over the full range.

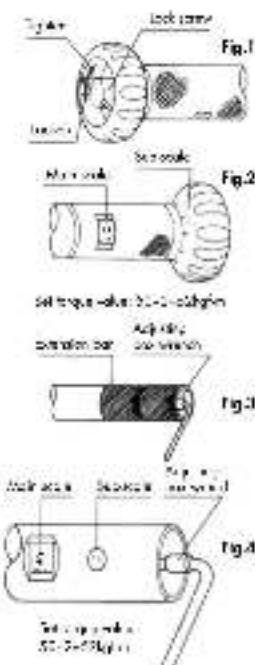


30~4200QLK

ADJUSTING THE TORQUE SETTING

◆ 30QLK~5600QLK

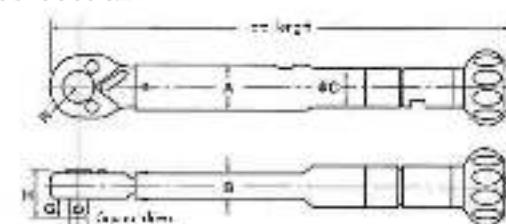
- (1) Loosen the lock screw. (See Fig. 1)
- (2) Turn the sub scale and adjust to a torque value (the main scale plus the sub-scale) (See Fig. 2)
- (3) Tighten the lock screw. (If the lock screw hits the pin before completely tightening, then change the position of the pin)



◆ 7000QLK~14000QLK

- (1) When applicable, mount the extension bar snugly all the way onto the body of the wrench.
- (2) With the extension bar mounted (See Fig. 3), insert the hexagonal side of the adjusting box wrench.
- (3) Without the extension bar (See Fig. 4), insert the hexagonal side of the adjusting box wrench into the body.
- (4) Turn the adjusting box wrench to set the torque value. (the main scale plus the sub-scale)

30~5600QLK



7000~21000QLK



★ Torque adjusting box wrench

Size(mm)	Wrench hexagonal socket	Extension bar
IN(7000QLK~10000QLK 6		
IN(14000QLK~21000QLK 10		

Model kgf.cm/kgf.mn	Range kgf.cm/kgf.mn	Inverter	Old Model (kgf.cm/N·m)	New Model (kgf.cm/N·m)	Range kgf.cm/kgf.mn	Inverter	Model JIS/JIS	Range kgf.cm/kgf.mn	Inverter	Specs Body Head	Dimensions (mm)				Weight kg	Standard Accuracy			
											inch-lbs	inch-lbs	mm	mm	H	G	R		
30QLK 1~30 kgf.cm 1~30 N·m	1~30	+	N30QIK	CK300QIK	1~30 kgf.cm 1~30 N·m	+		FL1200QIK	10~130	2	635 (74)	195	18.3	7.5	12	32	9.5	10	0.13
60QLK 2~60 kgf.cm 2~60 N·m	2~60	+	N60QIK	CK600QIK	2~60 kgf.cm 2~60 N·m	+		FL2000QIK	20~200	2	932 (105)	292	25	11	15.4	32	9.5	10	0.23
120QLK 4~120 kgf.cm 4~120 N·m	4~120	+	N120QIK	CK1200QIK	4~120 kgf.cm 4~120 N·m	+		FL450QIK	40~450	5	932 (105)	231.5	16	25	11.4	20	0.45		
200QLK 7~200 kgf.cm 7~200 N·m	7~200	+	N200QIK	CK2000QIK	7~200 kgf.cm 7~200 N·m	+		P1000QIK	20~1000	10	127 (121)	352	31	19.7	27.5	24	27	0.75	
350QLK 9~350 kgf.cm 9~350 N·m	9~350	+	N350QIK	CK3500QIK	9~350 kgf.cm 9~350 N·m	+		P1000QIK	20~1000	10	127 (121)	352	14	19.7	27.5	24	27	0.95	
500QLK 10~500 kgf.cm 10~500 N·m	10~500	+	N500QIK	CK5000QIK	10~500 kgf.cm 10~500 N·m	+		P1000QIK	20~1000	10	127 (121)	352	33	23	24	34	1.45		
700QLK 15~700 kgf.cm 15~700 N·m	15~700	+	N700QIK	CK7000QIK	15~700 kgf.cm 15~700 N·m	+		P1000QIK	20~1000	10	127 (121)	352	39	23.5	35	34	1.9		
1000QLK 20~1000 kgf.cm 20~1000 N·m	20~1000	+	N1000QIK	CK10000QIK	20~1000 kgf.cm 20~1000 N·m	+		P1000QIK	20~1000	10	127 (121)	352	42.7	30	35	34	2.3		
1400QLK 20~1400 kgf.cm 20~1400 N·m	20~1400	+	N1400QIK	CK14000QIK	20~1400 kgf.cm 20~1400 N·m	+		P1000QIK	20~1000	10	127 (121)	352	45	35	35	34	3.0		
1800QLK 20~1800 kgf.cm 20~1800 N·m	20~1800	+	N1800QIK	CK18000QIK	20~1800 kgf.cm 20~1800 N·m	+		P1000QIK	20~1000	10	127 (121)	352	48.5	34	35	34	3.5		
2000QLK 20~2000 kgf.cm 20~2000 N·m	20~2000	+	N2000QIK	CK20000QIK	20~2000 kgf.cm 20~2000 N·m	+		P1000QIK	20~1000	10	127 (121)	352	51	35	35	34	4.0		
2600QLK 4~360 kgf.cm 4~360 N·m	4~360	+	N2600QIK	CK26000QIK	4~360 kgf.cm 4~360 N·m	+		P1000QIK	20~1000	10	127 (121)	352	59	35	35	34	4.9		
3600QLK 8~360 kgf.cm 8~360 N·m	8~360	+	N3600QIK	CK36000QIK	8~360 kgf.cm 8~360 N·m	+		P1000QIK	20~1000	10	127 (121)	352	62.7	30	35	34	5.3		
4200QLK 8~420 kgf.cm 8~420 N·m	8~420	+	N4200QIK	CK42000QIK	8~420 kgf.cm 8~420 N·m	+		P1000QIK	20~1000	10	127 (121)	352	65	35	35	34	5.8		
5600QLK 8~560 kgf.cm 8~560 N·m	8~560	+	N5600QIK	CK56000QIK	8~560 kgf.cm 8~560 N·m	+		P1000QIK	20~1000	10	127 (121)	352	68.5	34	35	34	6.0		
7000QLK 15~700 kgf.cm 15~700 N·m	15~700	+	N7000QIK	CK70000QIK	15~700 kgf.cm 15~700 N·m	+		P1000QIK	20~1000	10	127 (121)	352	71	34	35	34	6.2		
8500QLK 15~850 kgf.cm 15~850 N·m	15~850	+	N8500QIK	CK85000QIK	15~850 kgf.cm 15~850 N·m	+		P1000QIK	20~1000	10	127 (121)	352	73.7	34	35	34	6.5		
10000QLK 15~1000 kgf.cm 15~1000 N·m	15~1000	+	N10000QIK	CK100000QIK	15~1000 kgf.cm 15~1000 N·m	+		P1000QIK	20~1000	10	127 (121)	352	76	34	35	34	7.0		
14000QLK 20~1400 kgf.cm 20~1400 N·m	20~1400	+	N14000QIK	CK140000QIK	20~1400 kgf.cm 20~1400 N·m	+		P1000QIK	20~1000	10	127 (121)	352	81	34	35	34	7.4		
15000QLK 20~1500 kgf.cm 20~1500 N·m	20~1500	+	N15000QIK	CK150000QIK	20~1500 kgf.cm 20~1500 N·m	+		P1000QIK	20~1000	10	127 (121)	352	84	34	35	34	7.8		
21000QLK 20~2100 kgf.cm 20~2100 N·m	20~2100	+	N21000QIK	CK210000QIK	20~2100 kgf.cm 20~2100 N·m	+		P1000QIK	20~1000	10	127 (121)	352	87.5	34	35	34	8.5		

* [] is the new model that's applied from 1st January, 2016.

GLK

ADJUSTABLE, RATCHET TORQUE WRENCHES WITH PLASTIC GRIP

Freely set torque values within the capacity range. Replaceable socket; ratchet wrenches.

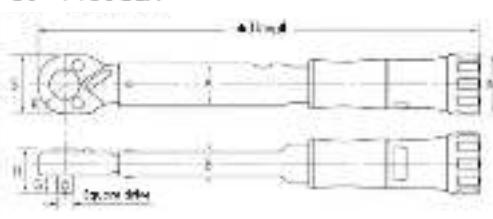
FEATURES

- The ratchet improves efficiency. These wrenches are well suited for repetitive work.
- By replacing the sockets, various sizes of fasteners can be tightened within the tool's capacity range.
- By reversing the ratchet, the wrench can be used to loosen fasteners counter-clockwise.
- Tightening to a torque setting can only be done clockwise.
- Accuracy: $\pm 3\%$ of indicated value over the full range.



60~1400GLK

60~1400GLK



Model Number	Range kgf-cm	Increment kgf-cm	Model No.	Range Nm	Increment Nm	Square drive mm	Total length mm	Dimensions [mm]						Weight kg
								H	G	R	A	B	C	
60GLK	20~40	1	N60GLK	2~6	0.1	6.35	167	8.9	7.5	24	12	IF 2	9.6	0.2
120GLK	40~80	2	N120GLK	4~12	0.2	12.70	245	11	11	24	12	IF 2	10.6	0.2
250GLK	80~160	2	N250GLK	8~25	0.2	12.70	273	11	11	24	12	IF 2	15.2	0.2
500GLK	160~320	5	N500GLK	16~32	0.5	12.70	345	11	11	24	12	IF 2	25.2	0.2
1000GLK	320~600	10	N1000GLK	32~60	1	12.70	345	11	11	24	12	IF 2	37.0	0.3
1400GLK	400~1400	10	N1400GLK	40~140	1	12.70	385	11	11	24	12	IF 2	57.0	0.3

BLK

ADJUSTABLE BY HEX WRENCH, RATCHET TORQUE WRENCHES WITH PLASTIC GRIP

Freely set torque values within the capacity range. Replaceable socket; ratchet wrenches.

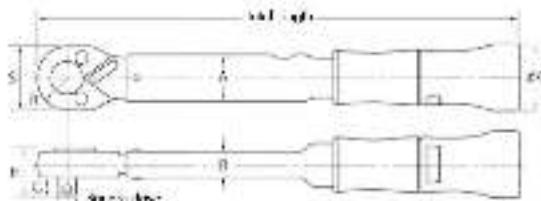
FEATURES

- Adjusted setting torque values by hex wrench.
- The ratchet improves efficiency. These wrenches are well suited for repetitive work.
- By replacing the sockets, various sizes of fasteners can be tightened within the tool's capacity range.
- By reversing the ratchet, the wrench can be used to loosen fasteners counter-clockwise.
- Tightening to a torque setting can only be done clockwise.
- Accuracy: $\pm 3\%$ of indicated value over the full range.



250~1000BLK

250~1000BLK



* Hex wrench is not included



Model Number	Range kgf-cm	Increment kgf-cm	Model No.	Range Nm	Increment Nm	Square drive mm	Total length mm	Dimensions [mm]						Weight kg
								H	G	R	A	B	C	
250BLK	20~250	2	N250BLK	2~25	0.2	9.51 (3/8)	245	25	11	15.5	8.2	9.5	30	0.27
500BLK	100~500	5	N500BLK	10~50	0.5	12.70 (1/2)	345	16	25	11.4	32	32	0.43	
1000BLK	200~1000	10	N1000BLK	20~100	1	12.70 (1/2)	392	31	14	19.7	27.0	12.4	56	0.72

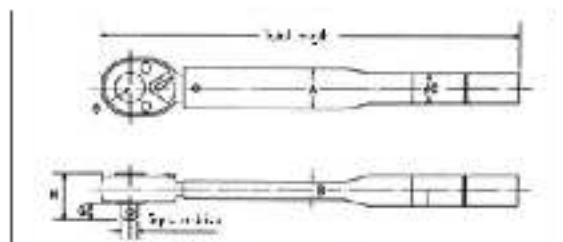
QSPK

PRE-SET, RATCHET TORQUE WRENCHES, METAL HANDLE

Pre-set torque value. Improved work efficiency with ratchet square drive.

FEATURES

- The ratchet drive enables quickly tightening fasteners to the preset torque. Suitable for repetitive jobs.
- The wrench's inner mechanism automatically resets itself for the next job after disengaging from a tightened joint.
- Accuracy : $\pm 3\%$ of set value.



EXAMPLE OF ORDER

Model	Pre-set Value
N900QSPK	x 72N·m

Model kgf·cm/ kgf·cm	Range	Old Model [N·m]	New Model [N·m]	Range N·m	Model [kgf·cm/H]	Range	Square drive	Tool length	Dimensions [mm]					Weight kg		
									lb-in/H	lb-in/N·m	in	mm	H	G	R	A
60QSPK	29~63	N60QSPK	N60QSPK	2~6	P1600QSPK	20~99	7/8"	6.35 (1/2")	174	19.5	7.5	12.5	18.2	9.6	15	0.17
120QSPK	45~120	N120QSPK	N120QSPK	4~12	P1120QSPK	20~120	7/8"	6.35 (1/2")	220	19.5	7.5	12.5	22.2	11.4	20	0.25
230QSPK	70~230	N230QSPK	N230QSPK	7~23	P1230QSPK	70~230	7/8"	7	220	19.5	7.5	12.5	22.2	11.4	20	0.38
250QSPK	70~250	N250QSPK	N250QSPK	7~25	P1250QSPK	70~250	7/8"	7	240	19.5	7.5	12.5	22.2	11.4	20	0.44
450QSPK	130~450	N450QSPK	N450QSPK	10~45	P1450QSPK	100~450	7/8"	9.53 (3/8")	25	12	16	25	25	11.4	26	0.58
500QSPK	130~500	N500QSPK	N500QSPK	10~50	P1500QSPK	200~500	7/8"	9.53 (3/8")	340	19.5	7.5	12.5	27.5	12.4	21.7	0.7
900QSPK	230~900	N900QSPK	N900QSPK	20~90	P1900QSPK	200~900	7/8"	9.53 (3/8")	340	19.5	7.5	12.5	27.5	12.4	21.7	0.94
1000QSPK	230~1000	N1000QSPK	N1000QSPK	20~100	P11000QSPK	200~1000	7/8"	9.53 (3/8")	380	19.5	7.5	12.5	27.5	12.4	21.7	1.1
1400QSPK	420~1400	N1400QSPK	N1400QSPK	40~120	P11400QSPK	200~1400	7/8"	12.7 (1/2")	380	19.5	7.5	12.5	27.5	12.4	21.7	1.35
1800QSPK	420~1800	N1800QSPK	N1800QSPK	40~180	P11800QSPK	400~1800	7/8"	12.7 (1/2")	463.5	33	20	34	15.4	27.2	33	1.5
2000QSPK	420~2000	N2000QSPK	N2000QSPK	40~200	P12000QSPK	400~2000	7/8"	12.7 (1/2")	652	27	20	34	15.4	27.2	33	1.75
2800QSPK	620~2800	N2800QSPK	N2800QSPK	60~280	P12800QSPK	600~2800	7/8"	12.7 (1/2")	980	19.5	20	34	43.5	18	34	4.3
4200QSPK	620~4200	N4200QSPK	N4200QSPK	60~420	P14200QSPK	500~4200	7/8"	12.7 (1/2")	980	19.5	20	34	43.5	18	34	4.3

QSPKH,QSPK-A

PRE-SET, RATCHET TORQUE WRENCHES WITH PLASTIC GRIP

Pre-set torque value. Improved work efficiency with ratchet square drive.

FEATURES

- The ratchet drive enables quickly tightening fasteners to the preset torque. Suitable for repetitive jobs.
- The wrench's inner mechanism automatically resets itself for the next job after disengaging from a tightened joint.
- Accuracy : $\pm 3\%$ of set value.

- H-type : The end cap is removed with a slotted screwdriver to adjust torque.



(N)60~1400QSPKH,QSPK-A(with Rubber Grip)

- A-type : Adjusted setting torque value by hex wrench.

Model kgf·cm/ kgf·cm	Range	Old Model [N·m]	New Model [N·m]	Range N·m	Square drive	Tool length	Dimensions [mm]					Weight kg	
							Head	Body	Head	Body	Head	Body	
60QSPKH	20~60	N60QSPK	N60QSPK	2~6	6.35 (1/2")	174	19.5	7.5	12.5	18.2	9.6	26.5	0.19
120QSPKH	45~120	N120QSPK	N120QSPK	4~12	6.35 (1/2")	220	25	12	16	25	11.4	32.7	0.27
250QSPKH	70~250	N250QSPK	N250QSPK	7~25	9.53 (3/8")	240	25	12	16	25	11.4	32.7	0.41
1000QSPKH	200~1000	N1000QSPK	N1000QSPK	20~100	9.53 (3/8")	340	31	14	19.5	27.5	12.4	37	0.69
1300QSPKH	200~1300	N1300QSPK	N1300QSPK	20~120	12.7 (1/2")	380	31	14	19.5	27.5	12.4	37	0.75



*Adjusting tool is option

- A-type : Adjusted setting torque value by hex wrench.

Model kgf·cm/ kgf·cm	Range	Old Model [N·m]	New Model [N·m]	Range N·m	Square drive	Tool length	Dimensions [mm]					Weight kg	
							Head	Body	Head	Body	Head	Body	
500SPK-A	20~50	N500SPK-A	N500SPK-A	2~5	6.35 (1/2")	174	19.5	7.5	12.5	18.2	9.6	26.5	0.19
1200SPK-A	40~120	N1200SPK-A	N1200SPK-A	4~12	6.35 (1/2")	220	25	12	16	25	11.4	32.7	0.27
2500SPK-A	70~250	N2500SPK-A	N2500SPK-A	7~25	9.53 (3/8")	240	25	12	16	25	11.4	32.7	0.41
3000SPK-A	200~1300	N3000SPK-A	N3000SPK-A	20~100	9.53 (3/8")	340	31	14	19.5	27.5	12.4	37	0.69
10000SPK-A	200~1000	N10000SPK-A	N10000SPK-A	20~100	12.7 (1/2")	380	31	14	19.5	27.5	12.4	37	0.75
14000SPK-A	200~1400	N14000SPK-A	N14000SPK-A	20~120	12.7 (1/2")	380	31	14	19.5	27.5	12.4	37	0.75



*Hex wrench is option

Note : Use a KANON torque wrench analyzer when adjusting torque. Without the analyzer, torque cannot be adjusted.

*| | is the new model that is applied from 1st January, 2016.

SPCK

PRE-SET, REPLACEABLE HEAD TORQUE WRENCHES

Work at a set torque value can proceed smoothly while using various replaceable heads.

FEATURES

- Replaceable ratchet, open end wrench, ring, and hex drive heads are available.
- Pre-set torque wrench well suited for repetitive jobs at the specified torque value.
- Accuracy: $\pm 3\%$ of preset value.



**SPCK
(Metal Handle)**

Model (kgf·cm) kgf·cm	Range	Old Model (N·m)	New Model (Nm)	Range	Total length	Dimensions (mm)					Weight kg	Replaceable heads
						Head	Body	A	B	C		
60SPCK	23~60	N60SPCK	N6SPCK	2~6	151						0.15	120QCK, 230QCK, RCK, HCK
120SPCK	40~120	N120SPCK	N12SPCK	4~12							0.19	230QCK, SCK, RCK, HCK
230SPCK	70~230	N230SPCK	N23SPCK	7~23	196						0.27	430QCK, SCK, RCK, HCK
250SPCK	70~250	N250SPCK	N25SPCK	7~25							0.27	430QCK, SCK, RCK, HCK
430SPCK	100~430	N430SPCK	N43SPCK	10~43							0.57	900QCK, SCK, RCK, HCK
500SPCK	100~500	N500SPCK	N50SPCK	10~50	220						0.92	1800QCK, SCK, RCK, HCK
700SPCK	200~700	N700SPCK	N70SPCK	20~70							1.7	2800QCK, SCK, RCK, HCK
1000SPCK	200~1000	N1000SPCK	N100SPCK	20~100	312						2.6	4000QCK, SCK, RCK
1800SPCK	400~1800	N1800SPCK	N180SPCK	40~180							3.7	4000QCK, SCK, RCK, HCK
2000SPCK	400~2000	N2000SPCK	N200SPCK	40~200	426						5.2	4000QCK, SCK, RCK, HCK
2800SPCK	600~2800	N2800SPCK	N280SPCK	60~280	390						7.5	4000QCK, SCK, RCK, HCK
4400SPCK	600~4400	N4400SPCK	N440SPCK	60~440	893						11.5	4000QCK, SCK, RCK

SPCKH

PRE-SET, REPLACEABLE HEAD TORQUE WRENCHES WITH PLASTIC GRIP

Work at a set torque value can proceed smoothly while using various replaceable heads.



**(N)60~1000SPCKH
(with Rubber Grip)**

Optional Replaceable Heads (Refer to the page 10)



SCK
[Open End head]



RCK
[Ring head]



QCK
[Ratchet head]



HCK
[Hex drive head]

Model (kgf·cm) kgf·cm	Range	Old Model (N·m)	New Model (Nm)	Range	Total length	Dimensions (mm)					Weight kg	Replaceable heads
						Head	Body	A	B	C		
60SPCKH	23~60	N60SPCKH	N6SPCKH	2~6	151						0.17	120QCK, 230QCK, RCK
120SPCKH	40~120	N120SPCKH	N12SPCKH	4~12							0.22	230QCK, SCK, RCK, HCK
230SPCKH	70~230	N230SPCKH	N23SPCKH	7~23	196						0.3	430QCK, SCK, RCK, HCK
250SPCKH	100~250	N250SPCKH	N25SPCKH	10~25							0.52	900QCK, SCK, RCK, HCK
1000SPCKH	200~1000	N1000SPCKH	N100SPCKH	20~100	312						1.5	1800QCK, SCK, RCK, HCK

RE-SETTING THE PRE-SET TORQUE

(SPK · RSPK · QSPK · SPCK · TYPES)

- Remove the screw cap with a slot drive screw driver.
- Loosen the setting screw with a hex wrench.
- Using the inner adjusting tool or a spanner, rotate the slotted plate clockwise to increase torque or counter-clockwise to reduce torque. Check the setting with a torque wrench.
- Tighten the setting screw with a hex wrench.
- Screw on the screw cap and tighten it.



Model	Applicable Torque wrench tools
Adjusting Tool No.1	N120, 180, 230QCKH, N600, 60, 120, 180, 230QCKH
Adjusting Tool No.2	N120, 180, 230QCKH, N600, 60, 120, 180, 230QCKH
Adjusting Tool No.3	N120, 180, 230QCKH, N1200, 120, 180, 230QCKH, N1800, 180, 230QCKH
Adjusting Tool No.4	N120, 180, 230QCKH, N1200, 120, 180, 230QCKH
Adjusting Tool No.5	N120, 180, 230QCKH

* Adjusting tool is option.

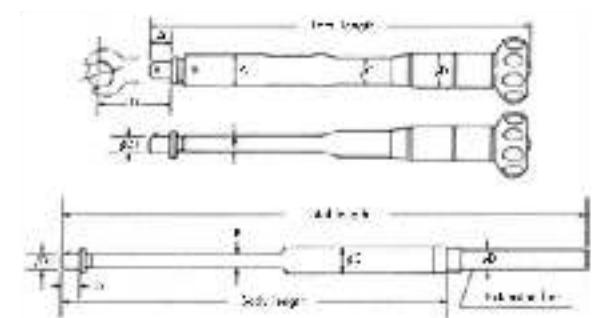
* [] is the new model that is applied from 1st January, 2016.

LCK**ADJUSTABLE, REPLACEABLE HEAD TORQUE WRENCHES**

Freely replace heads according to work applications. The combination of replaceable heads and torque adjustability make this series extremely versatile.

FEATURES

- Ring, ratchet, open end wrench and hex drive heads are available.
- The torque can be set to any value within the capacity range.
- Models are available ranging from 20 kgf·cm to 14,000 kgf·cm.
- Accuracy $\pm 3\%$ of indicated value over the full range



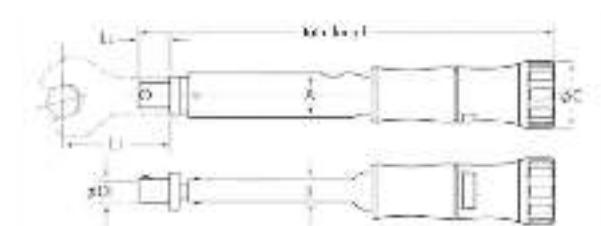
Model kgf·cm/kgf·m	Range kgf·cm/kgf·m	Increment kgf·cm/kgf·m	Old Model (N·m)	New Model (N·m)	Range N·m	Increment N·m	Total length mm	Dimensions [mm]					Replaceable heads	
								Head grip length grip length	L L	A A	B B	C C	D D	
60LCK	2 ~ 50 kgf·cm	1 kgf·cm	N60LCK	N60LCK	2 ~ 6	0.1	173	13	45	13	15.2	9.6	12	0.17 120LCK, 230LCK, RCK
120LCK	4 ~ 120 kgf·cm	2 kgf·cm	N120LCK	N120LCK	4 ~ 12	0.2	205	19	45	18	27.5	12.4	21.7	0.2 230LCK, SCK, RCK, HK
230LCK	7 ~ 230 kgf·cm	2 kgf·cm	N230LCK	N230LCK	5 ~ 25	0.2	232	19	55	16	25	11.4	26	0.36 490LCK, SCK, RCK, HK
450LCK	10 ~ 450 kgf·cm	5 kgf·cm	N450LCK	N450LCK	10 ~ 50	0.5	232	19	55	18	27.5	12.4	21.7	0.59 950LCK, 1300LCK, RCK, HK
950LCK	20 ~ 950 kgf·cm	10 kgf·cm	N950LCK	N950LCK	20 ~ 100	1	325	19	65	22	34	15.4	27.2	1.3 1800LCK, SAK, RCK, HK
1800LCK	40 ~ 1800 kgf·cm	20 kgf·cm	N1800LCK	N1800LCK	40 ~ 200	2	445	19	85	22	34	15.4	27.2	1.5 2800LCK, SCK, RCK, HK
2800LCK	50 ~ 2800 kgf·cm	20 kgf·cm	N2800LCK	N2800LCK	50 ~ 280	2	465	22	100	27	39	16	36	2.3 4400LCK, SCK, RCK, HK
4400LCK	8 ~ 4400 kgf·cm	20 kgf·cm	N4400LCK	N4400LCK	80 ~ 400	2	608	30	125	45	42.5	18	34	4.1 7000LCK, SCK, RCK
5600LCK	3 ~ 5600 kgf·cm	0.5 kgf·cm	N5600LCK	N5600LCK	90 ~ 560	0.5	1056	30	125	45	46	19.2	35.4	8.9 9000LCK, SCK, RCK
7000LCK	10 ~ 7000 kgf·cm	0.5 kgf·cm	N7000LCK	N7000LCK	100 ~ 700	0.5	1256	34	130	47	54	20	42.7	11.0 10000LCK, SCK, RCK
8500LCK	10 ~ 8500 kgf·cm	0.5 kgf·cm	N8500LCK	N8500LCK	100 ~ 850	0.5	1267	34	130	47	54	20	42.7	10.4 11000LCK, SCK, RCK
10000LCK	10 ~ 10000 kgf·cm	0.5 kgf·cm	N10000LCK	N10000LCK	100 ~ 1,000	0.5	1417	34	130	47	54	20	42.7	11.0 12000LCK, SCK, RCK
14000LCK	8 ~ 14000 kgf·cm	1 kgf·cm	N14000LCK	N14000LCK	200 ~ 1,500	1	1700	39	150	60	66	31	40	13.5 14000LCK, SCK, RCK

GCK**ADJUSTABLE, REPLACEABLE HEAD TORQUE WRENCHES WITH PLASTIC GRIP**

Freely replace heads according to work applications. The combination of replaceable heads and torque adjustability make this series extremely versatile.

FEATURES

- Ring, ratchet, open end wrench and hex drive heads are available.
- The torque can be set to any value within the capacity range.
- Models are available ranging from 20 kgf·cm to 1,400 kgf·cm.
- Accuracy $\pm 3\%$ of indicated value over the full range



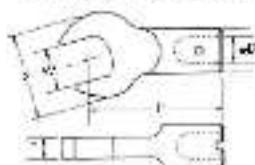
Model kgf·cm	Range kgf·cm	Increment kgf·cm	Model N·m	Range N·m	Increment N·m	Total length mm	Dimensions [mm]					Weight kg	Replaceable heads
							Head grip length grip length	L L	A A	B B	C C		
40GCK	20 ~ 40	1	N40GCK	2 ~ 6	0.1	174	10	45	13	15.2	9.6	29	0.17 120LCK, 230LCK, RCK
120GCK	40 ~ 120	2	N120GCK	4 ~ 12	0.2	205	12	55	16	25	11.4	35	0.21 230LCK, SCK, RCK, HK
250GCK	65 ~ 250	2	N250GCK	5 ~ 25	0.2	232	12	65	18	27.5	12.4	21.7	0.37 490LCK, SCK, RCK, HK
500GCK	100 ~ 500	2	N500GCK	10 ~ 50	0.2	232	12	65	18	27.5	12.4	21.7	0.6 950LCK, SCK, RCK, HK
1000GCK	200 ~ 1,000	2	N1000GCK	20 ~ 20	1	327	12	65	18	27.5	12.4	21.7	0.6 950LCK, SCK, RCK, HK
1400GCK	700 ~ 1,400	2	N1400GCK	70 ~ 70	2	365	12	65	18	27.5	12.4	21.7	0.65 950LCK, SCK, RCK, HK

* ■ is the new model that is applied from 1st January, 2016.

HEADS

OPTIONAL REPLACEABLE HEADS

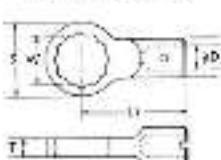
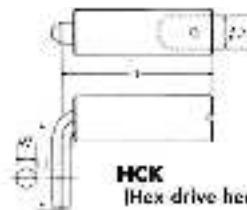
SCK (Open end head)



QCK (Ratchet head)



RCK (Ring head)

HCK
(Hex drive head)

SCK open end heads

Old Model	New Model	Size (W)	S	T	L	φD	Applicable torque wrench
		7	0	4	0	29	
		11					
230SCK	235SCK	12	13	4	5	16	32
		17	19	21	22	39	
		21				45	
		8	9	10	11	32	
450SCK	505SCK	12	13	14	15	16	34
		17	19	21	22	44	
		22	27			49	
		12	13	4	5	49	10
900SCK	1005SCK	12	13	4	5	49	10
		15	17	9	21	22	45
		21	27	30		37	
1300SCK	2005SCK	17	19	21	22	56	
		24	27	30		56	
		32	36	41		75	
		19				59	
		21	22			61	15
		24				63	
		27				57	
2800SCK	2805SCK	30				59	16.5
		32				71	
		36				75	18
		41				80	20
		45				85	
		19	22	24		70	
		27	33	32		75	
4400SCK	4405SCK	35	41			64	
		49	53			94	22
		55	60			100	25
		27				83	
		30				86	
		32				88	25
		36				91	
7000SCK	7005SCK	41				95	
		45				95	
		50				102	29
		55				105	30
		60				110	
		35				95	
		41				100	
		45				105	30
10000SCK	10005SCK	50				110	
		55				115	
		60				120	32
		41				110	
		45				115	32
14000SCK	15005SCK	50				120	
		55				125	
		60				130	35

QCK ratchet heads

Old Model	New Model	Size (W)	S	H	G	R	D	φD	Applicable torque wrench
1200QCK	1200QCK	24	19	7.5	12		45	13	1200-12000
2300QCK	2500QCK	31	25	11	23		45	13	1200-12000
4500QCK	5000QCK	39	35	11	16	45	12	1200-12000	
900QCK	1000QCK	39	31	4	9.7	65	12	1200-12000	
1600QCK	2000QCK	46	33	4	23	80	18	1200-12000	
2300QCK A	2800QCK A	24	42.5	20	27	100	22	1200-12000	
4400QCK	4405QCK	68	56	34	125	33		1200-12000	
7000QCK	7005QCK	76	58	27	36	130	34	1200-12000	
10000QCK	10005QCK	87	61	25.5	43.5	150	36	1200-12000	
21000QCK	21000QCK								

* ■ is the new model that is applied from 1st January, 2016.

RCK ring heads

Old Model	New Model	Size (W)	S	T	L	φD	Applicable torque wrench
		7	0	4	0	29	
230RCK	25RCK	11	12	13	14	21	
		12	19	20	24	31	
		8	10				
450RCK	50RCK	11	12	13	14	19	
		12	19	22		35	
900RCK	100RCK	12	16	21	22	34	
		24	27	30		42	
		17	19	22		35	
1800RCK	200RCK	24	27	30		45	
		32	36	41		50	
		19	22	24		40	
2600RCK	280RCK	27	30	32		47	
		36	41			60	
		19	22	24		44	
4400RCK	440RCK	36	41			58	
		46	50			66	
		55	60			80	
		27	30	32		57	
		36				62	
7000RCK	700RCK	41				62	
		46	50			70	
		46				80	
		36				90	
10000RCK	1000RCK	41				65	
		46				72	
		55				90	
		60				105	
14000RCK	1500RCK	55				80	
		60				90	
		65				105	

HCK hex drive heads

Old Model	New Model	Size (W)	L	φD	Size (H)	Applicable torque wrench
		2.5			19	
		3			22	
230HCK	25HCK	4	45	10	25	
		5			27	
		6			30	
		8			35	
450HCK	50HCK	4	55	12	35	
		5			40	
		6			45	
900HCK	100HCK	6	65	15	40	
		10			45	
		12			51	
		14			63	
		8			40	
1800HCK	200HCK	10	85	18	45	
		12			51	
		14			63	
		16			75	
		18			87	
280HCK	200HCK	12	100	22	51	
		14			63	
		16			71	
		19			83	

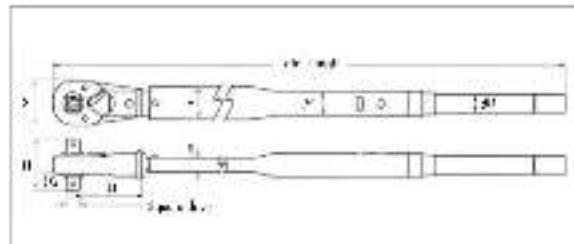
QLK-LR

LARGE HUB NUT TORQUE WRENCHES

Ideal for tightening hub nuts on large trucks and buses

FEATURES

- Dual square drives for both clockwise and counterclockwise tightening.
- By replacing the sockets, various sizes of fasteners can be tightened within the tool's capacity range.
- By reversing the switch on the ratchet, the wrench can be used to loosen fasteners. Tightening to a torque setting, however, can only be done in the direction of the arrow.
- Accuracy : $\pm 3\%$ of indicated value over the full range



N7000QLK-LR

Model (kgf·cm)	Range kgf·cm	Old Model (N·m)	New Model (N·m)	Range Nm	Increment Nm	Square drive mm	Wt. kg	Dimensions (mm)					Weight kg	Standard Accessory		
								S	B	H	L	A	B	C	D	
7000QLK-LR	10~70	N7000QLK-LR	N7000QLK-LR	100~700	10.0~12.5	13.14	0.8	30	70	25	49	29	35.4	27.2	4.4	Torque adjusting box wrench
8500QLK-LR	10~85	8500QLK-LR	N8500QLK-LR	100~850	10.0~12.5	13.98	0.8	36	76	27	57	33	42.7	31.8	4.5	
10000QLK-LR	10~100	N10000QLK-LR	N10000QLK-LR	100~1000	10.0~12.5	15.39	0.8	42	82	32	67	39	49.4	37.8	4.8	



QCK-LR

Old Model (Replaceable Head) 7000QCK-LR	New Model (Replaceable Head) 7000QCK-LR	Square Drive mm	Applicable torque wrench
10000QCK-LR	10000QCK-LR	25.4 (1")	N10000QLK-LR

HYK

ADJUSTABLE WRENCH HEADS, ADJUSTABLE TORQUE WRENCHES

Built-in "no play" worm screw

FEATURES

- Since the head can be taken off and reversed, the wrench can be used in confined spaces (in as small as a 30 degree turn) previously inaccessible to even other adjustable wrenches. Tightening to a torque setting can only be done in the direction of the arrow. (1)
- There is hardly any play in the worm screw adjuster in the wrench head, which will improve your working efficiency. Without excess play, the torque wrench will not damage the corners of fasteners like ordinary wrenches will.
- Accuracy : $\pm 4\%$ of indicated value over the full range

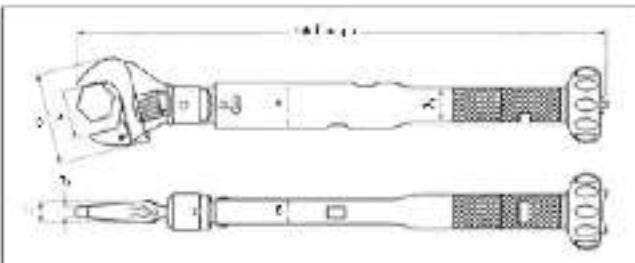


HYK

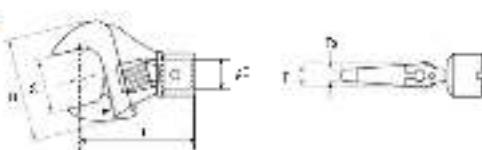
USING AN HYK

■ Setting the opening

- (1) Slide the jaws onto the fastener until it contacts the setting slot. (2)
- (2) Tighten the coluring worm screw so the jaws grip the fastener. (3)
- (3) Loosen the adjusting worm screw just enough to allow removing the wrench from the fastener. (4)



MCK



* is the new model that is applied from 1st January, 2016

Model Replaceable Head	Opening Size (mm)	Dimensions (mm)					Applicable torque wrench
		S	D	E	L	T ₁	
45MCK	10~25	40	2	57	10	3.0	N45MCK ~ N45MCKP, 2000
90MCK	10~30	50	1.5	55	12	6.0	N90MCK ~ N90MCKP, 2000
180MCK	17~36	60	1.8	50	13	6.0	N180MCK ~ N180MCKP, 2000

DLT-N

KANON DIGITAL TORQUE WRENCH

Digital control for ease of use and handling. Precise control of torque at a low cost.



DLT-N100

Optional Replaceable Heads (Refer to the page 10)



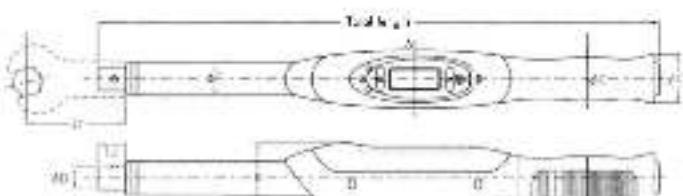
SCK
(Open End Head)



RCK
(Ring Head)



HCK
(Hex Drive Head)



FEATURES

- The digital torque wrench DLT-N series measures and digitally displays tightening torque and return torque.
- Preset function: Set the tightening torque before operation, and the LED and a buzzer tell you when the preset torque is reached during operation.
- Data memory function: Connect the torque wrench after use to your PC, and the measurement data is stored in the PC for editing in the Excel format (Windows Excel only).
- Powered by 2 rechargeable nickel-metal hydride (Ni-MH) batteries, which are recharged via the USB port of the torque wrench while they are in the wrench.
- Auto power-off: Saves power to enable use of the unit for a longer time.
- Calendar function: Date and time of tightening operations are stored in the memory.
- Smart and slim design based on a new concept.
- The head is easily replaceable to suit different purposes of use.
- $\pm 2\% + 1$ digit guaranteed accuracy ($\pm 3\% + 1$ digit for DLT-N50 JC).

Names and Functions of Components



- | | |
|----------------|--|
| ① Power key | Power ON/OFF; clears measured value in PA mode. |
| ② Data key | Saves and calls data. |
| ③ Mode key | Selects the measurement mode. |
| ④ UP key | Sets tightening torque in the preset mode; searches a particular date in the data calling mode; sets calendar and clock. |
| ⑤ DOWN key | Sets tightening torque in the preset mode; searches a particular date in the data calling mode; sets calendar and clock. |
| ⑥ LED | Flashes to indicate that the preset torque is soon to be reached or intermediate buzzer sounds. Lights up to indicate that the preset torque has been reached; a continuous buzzer sounds. |
| ⑦ LCD display | Displays various data. |
| ⑧ USB terminal | For battery charging and data outputting (Windows only). |

Model	Range	Increment	Total length	Dimensions (mm)						Weight	Accessory	
				φD1	L	L	A	B	φC	φD1	φE	
DLT-N50-UC	12.00~50.0 N·m	0.01 N·m	411	12	55	15	47	47	37	40	27.2	0.8
	7.35~35.87 l-lb	0.01 l-lb										
	88.5~442.5 r-lb	0.1 in-lb										
	32.0~300.0 kgf-cm	0.1 kgf-cm										
DLT-N100-UC	20.0~100.0 N·m	0.1 N·m	410	15	65	17	47	47	37	40	27.2	0.9
	14.5~73.5 l-lb	0.1 l-lb										
	177~885 r-lb	1 in-lb										
	9.04~45.19 kgf-cm	0.01 kgf-cm										
DLT-N200-UC	40.0~200.0 N·m	0.1 N·m	457	18	80	22	47	47	37	40	27.2	1
	29.0~147.1 l-lb	0.1 l-lb										
	354~1770 r-lb	1 in-lb										
	4.05~20.0 kgf-cm	0.01 kgf-cm										

[Common Specifications for DLT-N Series]

Accuracy	Data memory	Measurement mode	Alarm mode	Measurement method	Power source	Use time	Charge time	Auto power-off	I/O terminal	Operating temperature range
$\pm 2\% + 1$ digit $\pm 3\% + 1$ digit for DLT-N50	999 data	RUN, PA, PC	LED and buzzer	CW/CW auto switching	Ni-MH rechargeable batteries, size AA, 1.2V, 2 pieces	Approx. 50 hours with fully charged batteries, without calibration and data output	Over 5 hours, improves for discharge and charge	After 60 seconds	USB terminal for Windows for data outputting and battery charging	-5~+35°C

RUN: Current load value is shown continuously PA: The first peak value is detected and held PC: Accelerated wave analysis

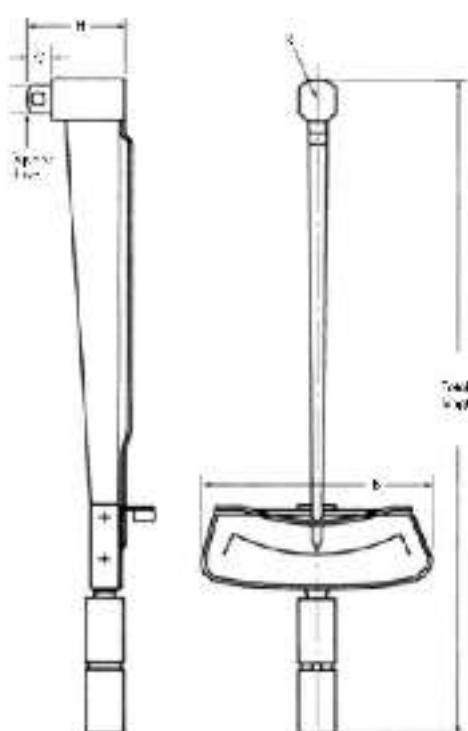


INDICATOR PLATE TORQUE WRENCHES

Quite suitable for general tightening and for checking torque on previously tightened joints. A popular series with fan-shaped indicator plate scales.

FEATURES

- The simple structure and small friction area give this series of tools a long life.
- Strong and easy to handle.
- Accuracy $\pm 3\%$ of indicated value over the full range



Model kgf-cm	Range [CW/CCW] kgf-cm	Invert	Old Model (N·m)	New Model (N·m)	Range [CW/CCW] N·m/N·m	Invert	Sq. driv. mm	Total length mm	Dimensions [mm]				Weight kg
									H	G	R	B	
6FK	1~2	C2	N4RK	CN40FK	10~40 N·m	C	110	132	26				0.05
7RK	1~7	C2	N7RK	CN70FK	10~70 N·m	C	140	140					0.05
15RK	3~15	C5	N15RK	CN150FK	20~150 N·m	C	170	170	32	7.5	7.5	7.5	0.08
30RK	10~30	1	N30RK	N30FK	1~30 N·m	C	170	170					0.11
60RK	10~60	2	N60RK	N60FK	1~6 N·m	C	190	190	38.5				0.27
120RK	20~120	5	N120RK	N120FK	2~12 N·m	C	232	232	43.5				0.22
230RK	30~230	5	N230RK	N230FK	3~23 N·m	C	290	290	42	11	9	10.5	0.33
450RK	50~450	10	N450RK	N450FK	5~45 N·m	C	300	300					0.34
900RK	100~900	20	N900RK	N900FK	10~90 N·m	C	388	388					1.1
1300RK	200~1,300	20	N1300RK	N1300FK	20~130 N·m	C	441	441	58	14	12.5	1.2	
1600RK	300~1,600	50	N1600RK	N1600FK	30~160 N·m	C	487	487					1.3
2800RK	500~2,800	50	N2800RK	N2800FK	50~280 N·m	C	587	587	50				2.8
4200RK	700~4,200	100	N4200RK	N4200FK	70~420 N·m	C	653	653	48	20	28	28	3.5
5600RK	1,000~5,600	100	N5600RK	N5600FK	100~560 N·m	C	946	946					4.4
7000RK	1,000~7,000	100	N7000RK	N7000FK	100~700 N·m	C	1,172	1,172	51	32	32	32	6.7
8500RK	1,500~8,500	200	N8500RK	N8500FK	150~850 N·m	C	1,387	1,387					8.0
10000RK	2,000~10,000	200	N10000RK	N10000FK	200~1,000 N·m	C	1,529	1,529	76.5	27	42	42	12.2
13000RK	3,000~13,000	200	N13000RK	N13000FK	300~1,300 N·m	C	1,972	1,972					17.0

* ■ is the new model that is applied from 1st January, 2016.

TOK-G

DIAL INDICATOR TORQUE WRENCHES

Easy to read dial indicator. Well suited for inspection and general maintenance service.



TOK-G (with peak indicator)

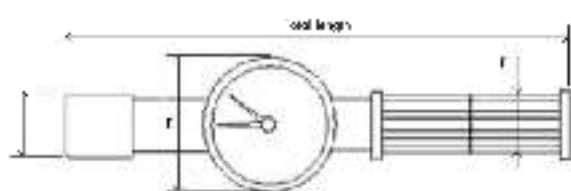


FEATURES

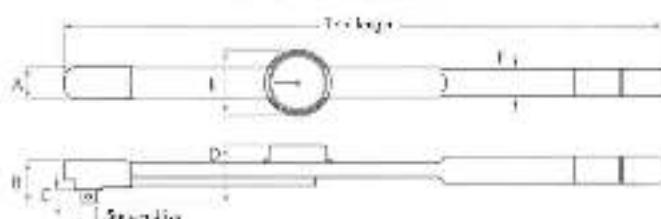
- Oval design with comfort rubber grip reduces strain.
- Easily readable for inspections.
- Useful for general tightening work.
- Accuracy: $\pm 3\%$ of indicated value over the full range

USING A TOK WRENCH

- (1) Turn the dial cap and set the indicator to 0.
 - (2) Mount a socket or the square drive.
 - (3) Tighten until the indicator points to the desired torque.
- * When using a peak indicator wrench, set it to 0 before tightening.



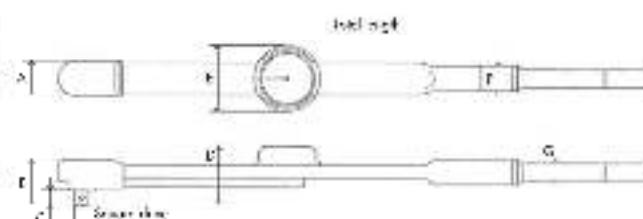
3000~4200TOK-G



60~2000TOK-G



5500~14000TOK-G



* 14000TOK-G and N1400TOK-G do not have the rubber head.

Model (kgf-cm/kgf-m)	Range (CW/CW, kgf-cm/kgf-m)	Inward kgf-cm	Model (N·m)	Range (CW/CW) N·m	Inward N·m	Square drive mm	Total length mm	Dimensions (mm)					Weight kg	
								A	B	C	D	E		
60TOK-G	6~60	6	N 6TOK-G	6~6	0.1	5.5	260	35	30.5	7.5	50	90	37	2.5 0.5
120TOK-G	10~120	10	N 12TOK-G	10~12	0.2	11/4	320	35	30.5	7.5	50	90	37	2.5 0.5
300TOK-G	50~300	50	N 30TOK-G	50~50	0.1	5.5	320	35	43	11	60	90	37	21.5 0.5
500TOK-G	50~500	50	N 50TOK-G	50~50	0.5	5.5	320	35	43	11	60	90	37	21.5 0.5
700TOK-G	100~700	100	N 70TOK-G	10~70	-	5.5	320	35	43	11	60	90	37	21.5 0.5
1400TOK-G	200~1400	200	N 140TOK-G	20~140	2	12.7	463	36	49	14	65	90	41	29.5 0.87
2000TOK-G	300~2000	300	N 200TOK-G	30~300	2	12.7	463	36	49	14	65	90	41	29.5 0.87
3000TOK-G	50~300	50	N 300TOK-G	50~300	5	12.7	463	36	49	14	65	90	41	29.5 0.87
4200TOK-G	4~42	4	N 420TOK-G	4~42	10	19.05	695	48	55	26	90	90	41	34 2.5
5500TOK-G	5~55	5	N 550TOK-G	5~55	10	19.05	1,110	55	60	26	90	90	41	35 3.5
7000TOK-G	7~70	7	N 700TOK-G	7~70	10	19.05	1,200	54	64	26	90	90	41	44 4.2
8500TOK-G	10~85	10	N 850TOK-G	10~85	10	19.05	1,382	58	72	26	90	90	41	55 5.1
10000TOK-G	10~100	10	N 1000TOK-G	100~1,000	20	23.4	1,482	66	74	27	94	90	41	65 7.3
14000TOK-G	20~140	20	N 1400TOK-G	200~1,400	20	23.4	1,695	66	74	27	94	90	41	80 9

LTDK**CLUTCH RELEASE TORQUE SCREW DRIVERS**

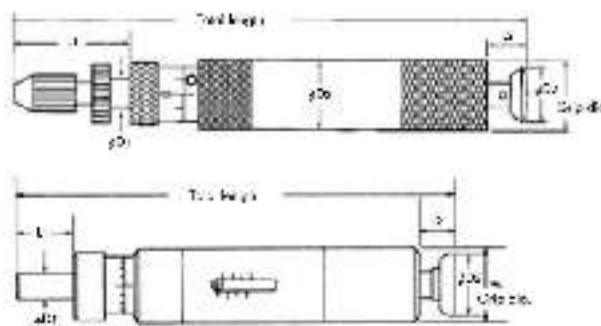
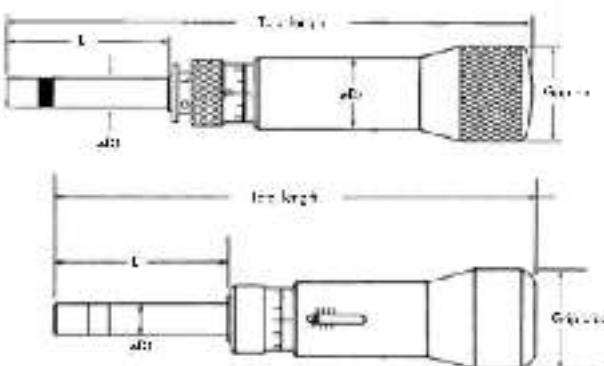
Clutch release prevents overtightening, reduces fatigue.

FEATURES

- Comfortable grip for extended use.
- Light weight and short overall length facilitates cb's.
- Sensitive clutch release helps the operator feel when the torque setting is reached.
- Set the required torque value and tighten, all operators tighten consistently.
- Two PH Phillips bits are included.
- Various hex and box drive bits are available.
- Use for both clockwise and counter-clockwise tightening.
- Accuracy: ±3% of indicated value over the full range, clockwise.
- LH models accept standard bits instead of CB type bits.

USING AN LTDK DRIVER

- (1) Select and mount a bit to match the fastener.
(2) Rotate the adjusting ring and set the desired torque.
(3) Tighten the fastener clockwise until the clutch releases and there is no more resistance.

**N6~50LTDK****N1.5,N3LTDK(N·m Unit)****N6-N50LTDK(N·m Unit) OI 200LTDK(Oz·in) PI 30, PI 50LTDK(Lbf·in)**

1.5,3LTDK(kgfcm Unit) 1.5,3LTDK(H)kgfcm Unit) N1.5,3LTDK-H(Nm Unit)

6~100LTDK(kgfcm Unit) N100LTDK(N·m Unit)

Old Model (kN·m/N·m)	New Model (kN·m/N·m)	Range dNm/Nm	Torque 0.1~var	Model Nm/in/lbf·in	Range oz·in/lbf·in	Torque 0.1~var	Gras. Rating Nm/in/lbf·in	Dimensions [mm]			Weight g	Included Accessory					
								Body dia. (mm)	L1 mm	L2 mm	φD1 mm	φD2 mm	φD3 mm	Phillips bit type No.3 No.1	Box type bit type KANON bit CB type	Editorial bit	
N1.5LTDK	CN1.5LTDK	1~15 dNm	0.1~var				16	107	22	10.5	5.5	14.4	16	57			
N3LTDK	CN3LTDK	2~30 dNm	0.2~var				25	113	26				20	99			
N6LTDK	CN6LTDK	5~60 N·m	0.3~var				30						192		No.3 No.1		
N12LTDK	CN12LTDK	20~120 N·m	1~var	OI 200LTDK	42~200 oz·in	1	34	157	5'		10		25	214			
N30LTDK	CN200LTDK	40~200 N·m	1~var										34	736	No.1 No.2	Standard & Special Shape	
N30LTDK	CN300LTDK	40~300 N·m	1~var	PI 30LTDK	>30 lbf·in	0.1	45	219	100		11		35	762	No.2 No.1		
N50LTDK	CN500LTDK	100~500 N·m	2.5~var	PI 50LTDK	10~500 oz·in	0.25	46	263	63				60	900	No.3 No.1		
N100LTDK	CN100LTDK	4~10 N·m	0.05~var														
N1.5LTDK-H	CN1.5LTDK-H	1~15 dNm	0.1~var				16	111	26	9	10	14.4	35				
N3LTDK-H	CN3LTDK-H	2~30 dNm	0.2~var														

* ■ is the new model that is applied from 1st January, 2016.

Model kgf-cm/ N.m	Range		Forward		Grip dia. mm	Total length (without bit) mm	Dimensions [mm] Body					Included Accessory		
	kgf-cm/cNm	N.m	kgf-cm	N.m			Lx mm	Ex mm	xD mm	yD mm	zD mm	Bit	Bit type	Extension Bar
1.5STDK	0.1~1.5	0.01~0.15	0.01~0.15	16	99	14	9	3.0	14.4	—	50	Phillips	No.3 No.1	KANON bit CB type
3STDK	0.2~3	—	0.02~0.3	—	95	110	35	—	—	—	90	25	—	—
6STDK	0.5~6	—	0.05~0.6	—	30	—	—	—	—	—	190	—	—	—
12STDK	2~12	—	0.1~1.2	—	34	157	57	10	—	25	200	—	—	—
20STDK	4~20	—	0.1~2.0	—	40	200	73	—	—	34	420	—	—	—
30STDK	4~30	—	0.1~3.0	—	45	235	100	11	—	35	760	—	—	Standard bit SB type
50STDK	10~50	—	0.25~5.0	—	45	235	100	11	—	35	80	—	—	—
100STDK	40~100	—	0.5~10.0	—	45	235	100	11	—	35	760	—	—	—
1.5STDK-H	0.1~1.5	—	0.01~0.15	—	16	111	26	9	10	14.4	—	Phillips	No.3 No.1	—
3STDK-H	0.2~3	—	0.02~0.3	—	—	—	—	—	—	—	—	—	—	—

STDK

PRE-SET TORQUE DRIVERS

Clutch release prevents over tightening.



N1.5~3STDK



N20~100STDK
(with extension bar)

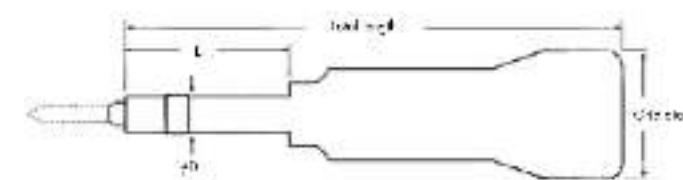


N6~12STDK

FEATURES

- A single function driver, used for a single torque setting.
- Most suited for tightening multiple same size fasteners at the same torque in a production line.
- Setting confirmation unnecessary.
- Light weight and short overall length facilitates jobs.
- Sensitive clutch release helps the operator feel when the torque setting is reached.
- All operators tighten consistently.
- Two Phillips bit are included.
- Various box and box crimp bits are available.
- Accuracy: $\pm 3\%$ of set value, clockwise.

* Please specify required set torque when you order.



Model kgf-cm/ N.m	Range kgf-cm/ N.m	Old Model ID-N-nN-n	New Model ID-N-nN-n	Length mm	Model ID-n-nN-n	Range kgf-cm/cNm N.m	Grip dia. mm	Total length (without bit) mm	Dimensions [mm] Body			Weight g	Included Accessory		
									Lx mm	xD mm	yD mm		Bit	Bit type	Extension Bar
1.5STDK	0.1~1.5	N1.5STDK	CN1.5STDK	18~94	DI 1.5STDK	0.1~1.5 cNm 0.1~1.5 N.m	16	92	22	4	40	—	Phillips	No.3 No.1	KANON bit CB type
3STDK	0.2~3	N3STDK	CN3STDK	2~90	DI 3STDK	0.2~3 cNm 0.2~3 N.m	16	92	41	—	—	—	—	—	—
6STDK	0.5~6	N6STDK	CN6STDK	5~90	DI 6STDK	0.5~6 cNm 0.5~6 N.m	25	103	54	—	140	—	—	—	—
12STDK	2~12	N12STDK	CN12STDK	20~120	DI 12STDK	2~12 cNm 2~12 N.m	30	116	54	—	170	—	—	—	—
20STDK	4~20	N20STDK	CN20STDK	40~200	DI 20STDK	4~20 cNm 4~20 N.m	35	111	54	10	200	—	Standard bit SB type	—	—
30STDK	4~30	N30STDK	CN30STDK	40~300	DI 30STDK	4~30 cNm 4~30 N.m	35	117	54	—	220	—	—	—	Ind. Ad.
50STDK	10~50	N50STDK	CN50STDK	50~500	DI 50STDK	10~50 cNm 10~50 N.m	35	120	55	—	220	—	—	—	Ind. Ad.
100STDK	40~100	N100STDK	CN100STDK	40~1000	DI 100STDK	40~100 cNm 40~100 N.m	45	240	245	11	790	—	—	—	Ind. Ad.

* ■ is the new model that is applied from 1st January, 2016.

DPSK

DIAL GAUGE TORQUE DRIVERS

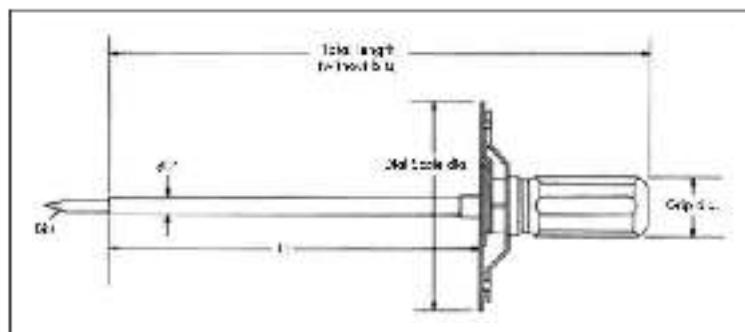
Suited for light torque, general tightening work, inspections. Easy to handle, easy to read scale.



FEATURES

DPSK (standard)

- A light torque driver well suited for general tightening, inspections and break tests.
- Easy handling with a direct reading dial gauge.
- Use for both clockwise and counterclockwise tightening.
- Peak torque indicator works in both directions, too.
- Large, easily read dial gauge.



DPSK II (transparent scale)

- The transparent scale makes engaging the fastener easier.
- For both models, accuracy is $\pm 3\%$ of the indicated value over the full range.

USING A DPSK DRIVER

(1) Mount a bit matching the fastener being



(2) Loosen the peak indicator ring.



(3) Set the peak indicator to 0.



(4) Tighten the fastener while observing the scale.



Model designation	Range (N/mm) below	Accuracy	Old Model (Nm/Nm)	New Model (Nm/Nm)	Range (Nm) above	Increment 0.25 N/mm	Dial dia. mm	Shaft dia. mm	Total length without bit mm	Dimensions (mm) Driver shaft/mm	Weight kg	Included Accessory	
												Bit	Bit type
10PSK	0.2~1	0.025	N 10PSK	CN 100PSK	2~10	0.25 N/mm	22	217	152			No.0	CANON bits 50 types
20PSK	0.5~2	0.05	N 20PSK	CN 200PSK	5~20	0.5 N/mm	22	195	140	6	0.375	No.1	
50PSK	1~5	0.5	N 50PSK	CN 500PSK	10~50	1 N/mm	22	935	140				
100PSK	2~10	0.2	N 100PSK	CN 1000PSK	30~100	2 N/mm	22	222	136	12	0.33		
200PSK	5~20	0.5	N 200PSK	CN 2000PSK	60~200	0.05 N/mm	22	942	136	12	0.34		
500PSK	10~50	2	N 500PSK	CN 5000PSK	1~5	0.2 N/mm	26	300	138	14	0.47	No.1	
100PSK(L)	2~10	0.2	N 100PSK(L)	CN 1000PSK(L)	30~100	0.25 N/mm	26	222	136	12	0.29	No.2	
200PSK(L)	5~20	0.5	N 200PSK(L)	CN 2000PSK(L)	60~200	0.05 N/mm	26	242	136	12	0.32		
500PSK(L)	10~50	2	N 500PSK(L)	CN 5000PSK(L)	1~5	0.2 N/mm	26	300	138	14	0.42		

* ■ is the new model that is applied from 1st January, 2016.

SGK

TORQUE GAUGES

Capable of accurately measuring very low torque values.



SGK

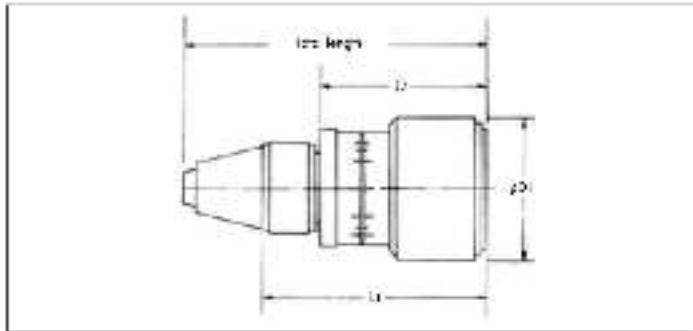


SGK-G (with peak indicator)

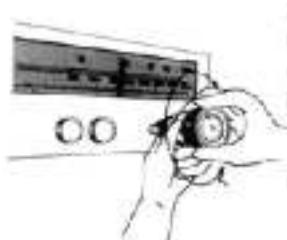
* Peak indicator is optional

FEATURES

- Due to their miniature design and light weight, these gauges are convenient and easy to carry.
- A three part chuck with knurled surface anodizes firmly gripping even odd shapes.
- The inset scale face helps avoid incidental damage.
- The gauges measure clockwise and counterclockwise.
- With scales on the sides and the face, torque readings can be obtained either way.
- Accuracy : $\pm 3\%$ of the indicated value over the full range.



USING AN SGK GAUGE



Starting torque can be measured with the chuck gripping a knob or shaft or an electronic device.

Rotate clockwise or counterclockwise.

(Rotate CW or CCW)



- If you would like SGK with a peak indicator, please specify "SGK-G" on your purchase order.
ex). N150(I)SGK-G

Three part chuck

Model (gl-cm/kgf-cm)	Range (CW/CCW) gl-cm/kgf-cm	Increment gl-cm/kgf-cm	Old Model (mNm/rNm)	New Model (mNm/rNm)	Range (CW/CCW) mNm/rNm	Increment mNm/rNm	Grip dia. φmm	Total length mm	Dimensions [mm]			Weight kg
									Grip dia. φD1	Total length (incl. chuck) L1	Total length (incl. chuck) L2	
90(I)SGK	10~90	1	2	N90(I)SGK	MN90SGK	1~9	0.2	6.5	136	43	81	0.95
150(I)SGK	22~150	2	2	N150(I)SGK	MN150SGK	2~15	0.2	6.5	136	43	81	0.95
300(I)SGK	45~300	5	5	N300(I)SGK	MN300SGK	4~30	0.5	6.5	136	43	81	0.95
600(I)SGK	95~600	10	10	N600(I)SGK	MN600SGK	5~60	1	6.5	136	43	81	0.95
1200(I)SGK	190~1200	20	20	N1200(I)SGK	MN1200SGK	10~120	2	6.5	136	43	81	0.95
2400(I)SGK	380~2400	40	40	N2400(I)SGK	MN2400SGK	20~240	2	6.5	136	43	81	0.95
1.5(T)SGK	0.1~1.5	0.02	0.02	N1.5(T)SGK	CN1.5SGK	0.1~1.5	0.02	6.5	136	43	81	0.95
2.4(T)SGK	0.2~2.4	0.02	0.02	N2.4(T)SGK	CN2.4SGK	0.2~2.4	0.02	6.5	136	43	81	0.95
3.6(T)SGK	0.3~3.6	0.05	0.05	N3.6(T)SGK	CN3.6SGK	0.3~3.6	0.05	6.5	136	43	81	0.95
6.7(T)SGK	0.5~6.7	0.1	0.1	N6.7(T)SGK	CN6.7SGK	0.5~6.7	0.1	6.5	136	43	81	0.95
9.7(T)SGK	1~9.7	0.2	0.2	N9.7(T)SGK	CN9.7SGK	1~9.7	0.2	6.5	136	43	81	0.95
15.7(T)SGK	1~15.7	0.2	0.2	N15.7(T)SGK	CN15.7SGK	1~15.7	0.2	6.5	136	43	81	0.95

* ■ is the new model that is applied from 1st January, 2016.

KDTA-SV

DIGITAL TORQUE ANALYZERS

Enhanced digital processor system. Provides high performance with digital wrenches.

FEATURES

- LED display eliminates reading errors.
- Processor chip assures measurement with high reliability and accuracy.
- The display unit angle can be adjusted approximately 90°.
- Can be connected to various optional equipment (printer, personal computer, external input keyboard).
- Saves time and helps speed up work.
- Equipped with a kgf·cm/N·m selector switch.
- Operator can set min/max percentage parameters from 0~10%.
- Analyzer can indicate in or out of specification with a green or red lamp respectively.

SPECIFICATIONS

- Power source : AC100~240V 50/60Hz
- Accuracy : ±1% of the indicated value +1 increment, over the full range
- Display : red LED (character height : 25mm)
- Operating temperature : 0~40°C



KDTA-2000SV

Model	Range[kW/CDW] kgf·cm/kgf·m N·m	Increment kgf·cm/kgf·m N·m	English Model	Range[kW/CDW] lb/in. N·m	Increment lb/in. N·m	Measuring mode	Unit conversion	Dimensions (mm) Overall depth	Overall width	Overall height	Drive size	Weight kg	Included Accessory
KDTA-20SV	2~20 kgf·cm	0.01 kgf·cm	KDTA-20SV	177~1770 lb/in.	0.01 lb/in.		Standard kgf·cm N·m	193	260	260	12	6	6.35x12 9.5x12 Soccket
	20~200 N·m	0.1 N·m		20~2000 N·m	0.1 N·m								
	20~200 kgf·cm	0.1 kgf·cm		19~198.5 lb/in.	0.1 lb/in.								
KDTA-100SV	1~10 N·m	0.01 N·m	KDTA-100SV	1~10 lb/in.	0.01 lb/in.		Push pull kgf·cm N·m	103	220	270	14	15	4.5x14 12.7x14 Soccket
	20~200 N·m	0.1 N·m		20~2000 N·m	0.1 N·m								
	20~200 kgf·cm	0.1 kgf·cm		35~355 lb/in.	1 lb/in.								
KDTA-1000SV	100~1200 kgf·cm	1 kgf·cm	KDTA-1000SV	100~1200 lb/in.	1 lb/in.		Fwd/reverse kgf·cm N·m	103	320	270	14	15	9.5x14 12.7x14 Soccket
	10~100 N·m	0.1 N·m		10~1000 N·m	0.1 N·m								
	200~2000 kgf·cm	1 kgf·cm		35~355 lb/in.	1 lb/in.								
KDTA-2000SV	200~2000 N·m	0.1 N·m	KDTA-2000SV	35~355 lb/in.	0.1 lb/in.			233	390	265	26	25	19.5x26 34.5x26 Soccket
	10~100 N·m	0.1 N·m		35~355 N·m	0.1 N·m								
	100~1200 N·m	1 N·m		35~355 kgf·cm	1 kgf·cm								
KDTA-4000SV	400~4000 kgf·cm	1 kgf·cm		400~4000 lb/in.	1 lb/in.			233	390	265	26	25	19.5x26 34.5x26 Soccket
	40~400 N·m	0.1 N·m		40~4000 N·m	0.1 N·m								
	40~400 kgf·cm	0.1 kgf·cm		40~4000 kgf·cm	1 kgf·cm								
KDTA-10000SV	100~1200 N·m	1 N·m		100~12000 N·m	1 N·m			233	390	265	26	25	19.5x26 34.5x26 Soccket
	10~100 N·m	0.1 N·m		10~10000 N·m	0.1 N·m								
	100~1200 kgf·cm	1 kgf·cm		100~12000 kgf·cm	1 kgf·cm								

DRIVE ATTACHMENTS (Optional)

■ KDTA-20SV/100SV/200SV



■ KDTA-1000SV/2000SV



■ KDTA-3000SVH



KDTA-SVH

LARGE DIGITAL TORQUE ANALYZERS



FEATURES

- LCD display eliminates reading errors.
- Processor chip assures measurement with high reliability and accuracy.
- The display unit angle can be adjusted approximately 90°.
- Can be connected to various optional equipment (printer, personal computer, external input keyboards).
- Saves time and helps speed up work.
- Equipped with a kgf-cm/N·m selector switch.

SPECIFICATIONS

- Power : AC100~240V 50/60 Hz
- Accuracy : $\pm 1\%$ of the indicated value + Increment, over the full range
- Display : red LED (character height : 25mm)
- Operating Temperature range : 0~40°C

Model	Range(CW/CCW)		English Model	Range(CW/CCW)		Measuring mode	Unit conversion	Drive size mm	Weight kg	Included Accessory
	kgf-cm/kgf-m	N·m		kgf-cm/kgf-m	N·m					
KDTA-200SVH	20~200 kgf-cm	0.1 kgf-cm	KDTA-200SVH	177~1770 kgf-cm	0.1 kgf-cm	R/L/R Peak hold	Standard kgf-cm N·m	12	10	9.5×12 socket 9.5×12 socket
	2~20 N·m	0.01 N·m		2~20 N·m	0.01 N·m					
KDTA-1000SVH	100~1000 kgf-cm	1 kgf-cm	KDTA-1000SVH	19~1900 kgf-cm	1 kgf-cm	R/L/R Peak hold	English/National Unit kgf-cm N·m	14	10	9.5×14 socket 12.7×14 socket
	10~100 N·m	0.1 N·m		10~100 N·m	0.1 N·m					
KDTA-2000SVH	200~2000 kgf-cm	1 kgf-cm	KDTA-2000SVH	177~1770 kgf-cm	1 kgf-cm	R/L/R Peak hold	Standard kgf-cm N·m	22	29	12.7×22 socket 19.05×22 socket
	20~200 N·m	0.1 N·m		20~200 N·m	0.1 N·m					
KDTA-3000SVH	300~3000 kgf-cm	1 kgf-cm	KDTA-3000SVH	221~2210 kgf-cm	1 kgf-cm	R/L/R Peak hold	English/National Unit kgf-cm N·m	26	80	12.7×26 socket 19.05×26 socket
	30~300 N·m	0.1 N·m		30~300 N·m	0.1 N·m					
KDTA-6000SVH	600~6000 kgf-cm	1 kgf-cm	KDTA-6000SVH	442~4420 kgf-cm	0.1 kgf-cm	R/L/R Peak hold	Standard kgf-cm N·m	30	60	12.7×30 socket 19.05×30 socket
	60~600 N·m	0.1 N·m		60~600 N·m	0.1 N·m					
KDTA-10000SVH	10~100 kgf-cm	0.1 kgf-cm	KDTA-10000SVH	74~737 kgf-cm	1 kgf-cm	R/L/R Peak hold	English/National Unit kgf-cm N·m	30	60	12.7×30 socket 19.05×30 socket
	100~1000 N·m	1 N·m		100~1000 N·m	1 N·m					

TPK-3

STANDARD PRINTER

FEATURES

- Indicates in or out of specification on the lcd display and print out.
- Printer cables are options. CT-1 is for DTC series.
CSV-1 is for KDTA-SV and KDTA-SVI series.



KDTA-SVII

DIGITAL TORQUE ANALYZERS

Highly accurate and economical torque analyzer, easy for operators to use on the job site.



FEATURES

- LED display eliminates reading errors.
- Processor chip assures measurement with high reliability and accuracy.
- Connects to an optional printer.
- Saves time and helps speed up work.
- Equipped with a kgf/cm/N·m selector switch.

SPECIFICATIONS

- Power : AC100-240V 50/60-Hz
- Accuracy : $\pm 1\%$ of the indicated value +1 increment, over the full range
- Display : red LCD (character height : 23mm)
- Operating temperature range : 0~40°C

Model	Torque measuring range	Increment	English Model	Torque measuring range	Increment	Drive size	Display	Weight (kg)
KDTA-2000SV [3]	50~200kgf·cm/5~200N·m	1kgf·cm/0.1N·m	KDTA-2000SV [3]	35~1770lb-in/5~200N·m	1lb-in/0.1N·m	14mm	Red LCD	11.5

CTK-XL CAP TESTER

DIGITAL CAP TORQUE ANALYZERS

Digital measurement of opening and closing torque on container caps.

FEATURES

- Optimal for measuring torque values opening or closing caps on containers for cosmetic products, medical products, tones, etc.
- Up to 100 measurements can be stored in memory.
- Upper and lower limit values can be set.
- Capable of measuring clockwise and counterclockwise values.
- The testers will handle containers in diameters ranging 10~100mm and 22~180mm.
- Accuracy : $\pm 1\%$ of indicated value +1 increment, over the full range



* The bottle is not included.

Model	Torque range	Increment	Accuracy	Power source	Weight	Chuck diameter (mm)
CTK-30XL	3~30kgf·cm	0.02kgf·cm	$\pm 1\%$ of indicated value +1 increment over the full range	AC100~240V (adapter DC6V)	1kg	ø10~ø100
CTK-100XL	10~100kgf·cm	0.1kgf·cm	$\pm 1\%$ of indicated value +1 increment over the full range	AC100~240V (adapter DC6V)	1kg	ø22~ø180
CTK-30XL	30~300·N·m	0.2·N·m	$\pm 1\%$ of indicated value +1 increment over the full range	AC100~240V (adapter DC6V)	1kg	ø10~ø100
CTK-100XL	100~1000·N·m	0.01·N·m	$\pm 1\%$ of indicated value +1 increment over the full range	AC100~240V (adapter DC6V)	1kg	ø22~ø180

KDTA-DH

DIGITAL TORQUE ANALYZERS FOR TORQUE DRIVERS



KDTA-8DH

KDTA-8DH / KDTA-80DH

FEATURES

- Designed for TDK and STDK
- Battery powered
- Battery Charger is available for AC 100V~240V 50/60Hz
- Lightweight plastic case
- kgf·cm/N·m / lb·in/in conversion
- MODE : RUN (constantly indicates torque value.)
PEAK HOLD
PEAK TO PEAK HOLD
- AUTO RESET : Timer function available
- DATA OUTPUT : Digital output
- PRINTER : TPK-3 (Optional)
- Accuracy : $\pm 1\%$ of the indicated value +1 increment, over the full range

Model	Range	Increment	Measuring mode	Battery	Size	Weight [kg]
KDTA-8DH	3-800mN·m 0.3-80N·m 0.03-0.8kgf·cm 0.003-8lb·in	0.1mN·m 0.01N·m 0.001kgf·cm 0.001lb·in	RUN Peak hold Peak to Peak hold	Rechargeable	230 (W) x 120 (D) x 65 (H) mm	1.0
KDTA-80DH	3-800mN·m 0.03-8N·m 0.3-0.8kgf·cm 0.003-0.8lb·in	0.1mN·m 0.0001N·m 0.001kgf·cm 0.0001lb·in	RUN Peak hold Peak to Peak hold	Rechargeable	230 (W) x 120 (D) x 65 (H) mm	1.0

KDTA-D

DIGITAL TORQUE ANALYZERS FOR ELECTRIC DRIVERS

KDTA-10D / KDTA-100D

FEATURES

- Battery is rechargeable.
- For any brand of the Electric Driver
- Battery Charger is available for AC 100V~240V 50/60Hz
- MODE : RUN (constantly indicates torque value.)
PEAK HOLD
PEAK TO PEAK-HOLD
- AUTO RESET : Timer function available
- DATA OUTPUT : Digital output
- PRINTER : TPK-3 (Optional)
- Accuracy : $\pm 1\%$ of the indicated value +1 increment, over the full range



Model	Range	Increment	Measuring mode	Battery	Size	Weight [kg]
KDTA-10D	1.5-1000mN·m 0.15-10.0kgf·cm 0.15-10.0lb·in	0.1mN·m 0.01kgf·cm 0.01lb·in	RUN Peak hold Peak to Peak hold	Rechargeable	230 (W) x 120 (D) x 65 (H) mm	1.10
KDTA-100D	15-1000mN·m 1.5-100.0kgf·cm 1.5-100.0lb·in	1mN·m 0.1kgf·cm 0.1lb·in	RUN Peak hold Peak to Peak hold	Rechargeable	230 (W) x 120 (D) x 65 (H) mm	1.10

DRT

KANON TORQUE MEASUREMENT MULTI-INDICATOR

Model DRT multi-indicator handles 16 different types of work. The TEDS-based smart indicator is designed for accurate and speedy analysis of bolt-tightening.

FEATURES

- Tools are easily exchanged and calibrated. A sensor with built-in TEDS information is directly connected to a tool for automatic reading of necessary information, eliminating troublesome calibration each time a tool is exchanged (IEEE 1451.4, Class 2 mixed mode interfaced).
- Various tools can be used, including click type and non-click type torque wrench and strain gauge sensors.
- Torque values remain in waveforms, allowing the user to view torque in any desired place.
- Bolt-tightening is analyzed in a short time: Tightening, Loosening inspection, Reloosening inspection, Torque wrench inspection, Destructive inspection.



TEDS-based multi-indicating system (Examples)

Torque wrench with sensor for operation



Torque sensor



Torque wrench with sensor for inspection



* Sensors are built to order.

**Multi-indicator
DRT**



Torque is displayed in waveforms.



Judgment (an example of pass)



Judgment (an example of rejection)

* English version is also available

Specifications:

Model	DRT
Display/controller	3.5-type TFT color LCD (320 x 240 dots) Touch panel
Control	Control
Display range	0 to 19999
Display point precision	Arbitrary selected
Display change frequency	3 times/s
Time axis	0.1 to 99.9s
Operation screen	Digital lead display screen, waveform display screen, setting screen, status display
Setting	Comparative judgment value: Load value: upper limit, lower limit, upper-poor, low-poor, and lower-lower limit
Function	Hold function Clock function
Data output	RS-232C, CF card
Power supply	AC 100 to 240V
Operating temperature range	0 to +40°C
Weight	2 kg
Dimensions	137 (W) x 170 (H) x 257 (D) mm
Applicable standards	IEC61010-1 VDE 0411 (Class A), EN65011 (Class A), IEC61326-1:2, 3, 4, 5, 6, 8, 11, IEC61000-3-2, 3 EN61010-1

MQLK MARKING TORQUE WRENCHES

No tightening negligence with marking check.

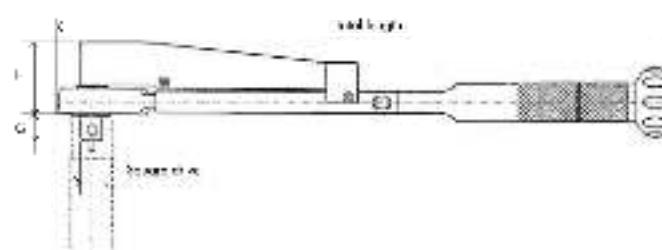
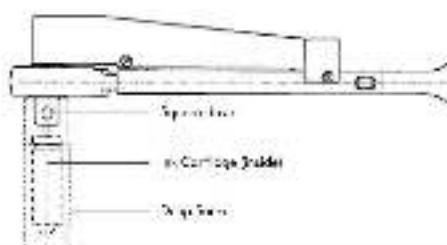
FEATURES

- To click torque wrench one the bolt is pointed.
- No marking without click.
- 6000 times can be marked with 14 to 24mm socket.
- 1500 times can be marked with 8 to 13mm socket.
- Easy maintenance
- Accuracy : $\pm 3\%$
- Please select the size of socket when you order MQLK.
Socket is modified for MQLK.



MQLK

* Ink is not included



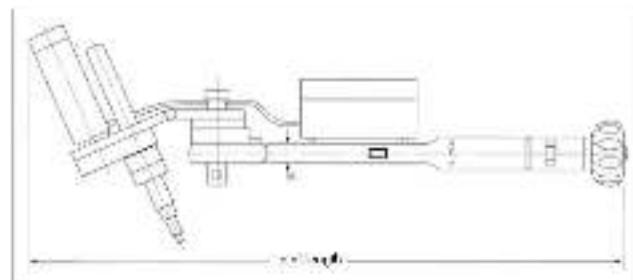
Model (kgf·cm)	Range kgf·cm	Invert Nm	Old Model (Nm)	New Model (Nm)	Range N·m	Invert Nm	Spanner size mm	Total length mm	Dimensions (mm) Head		Weight kg	Optional socket mm
									H	C		
250MQLK	70~250	0.5	N250MQLK	N250MQLK	7~25	0.2	9.50	232	54	11	0.37	8~24
500MQLK	100~500	0.5	N500MQLK	N500MQLK	10~50	0.5	13.81	234	54	11	0.55	8~24
1000MQLK	200~1,000	1	N1000MQLK	N1000MQLK	20~100	1	19.7	352	57	14	0.89	12~24
1400MQLK	400~1,400	1	N1400MQLK	N1400MQLK	40~140	1	17.71	392	57	14	0.98	12~24

MQLK-E HEXAGON MARKING TORQUE WRENCHES

No tightening negligence with marking check.

FEATURES

- A mark is automatically printed when the specified torque is reached by an electric signal. * Triggered to pop up the print marker at the tip of the wrench to mark.
- Marking position is freely adjustable from 1 to back one side to side. Marks can also be printed on the sides of a socket body or the head or neck of a buried bolt.



BATTERY CHARGER SPECIFICATIONS

- Input : 100~240VAC, 50/60Hz
- Cell : 28 and 35
- Output current : 3 x 850mA



Model (kgf·cm)	Range kgf·cm	Invert Nm	Old Model (Nm)	New Model (Nm)	Range Nm	Invert Nm	Spanner size mm	Total length mm	Dimensions (mm) Head			Weight kg
									B	C	Height	
ED20WKE	20~60	1	H20WKE	N20WKE	2~6	0.1	9.50	327	10	15	0.7	
ED35WKE	40~120	2	H40WKE	N40WKE	4~12	0.2	12.81	327	10	15	0.8	
ED50WKE	70~200	2	H70WKE	N70WKE	7~20	0.2	12.81	327	10	15	1.0	
ED100WKE	100~300	5	H100WKE	N100WKE	10~30	0.5	17.72	452	20	20	1.1	
ED1000WKE	200~1,000	10	H1000WKE	N1000WKE	20~100	1	17.72	492	22	22	1.3	
ED1400WKE	400~1,400	10	H1400WKE	N1400WKE	40~140	1	17.72	492	22	22	1.4	

* ■ is the new model that is applied from 1st January, 2016.

TCSK-99MA

MULTI-FUNCTION TORQUE TASK MANAGER / ANALYZER

The multi-controller, the "Careless Mistake Detector" has a 100-240V multi-input type power system.

SWPM Series

TORQUE TOOLS FOR TCSK

SWP tools connect with TCSK-99MA and prevent missing fastener tightening joints.

TCSK-99MA



N-QLK-SWPM

This is an extremely useful multi-function controller that can serve many purposes, such as detecting loose joints, eliminating faulty fastener tightening, and task time management through connection with a KANON torque wrench or torque driver.

FEATURES

- TCSK-99MA connects to KANON SWPM series torque tools.
- The red LED indicators are large and easy-to-read, allowing the operator to check the settings and progress of fastener tightening work at a glance. With visible and audible signals, the TCSK-99MA prevents you from leaving joints loose during fastener tightening work.
- Compared with conventional products, TCSK-99MA offers many different functions at a lower price.
- TCSK-99MA can help manage work processes via external output signals.

* This item does not have the CE mark.

Model	TCSK-99MA
Count	1 to 99
Ther setting	Digital input (set time for each function)
Judgement	OK (green) and IHC (light) or a green LED (sound) and IHC (light) or a red LED (sound)
External input	Start, stop, next, direction of rotation, work, lock
External output	Count OK, work NG/OK, work time NG, n-time NG
Power supply	Input (primary side), switching power type multi-volt of 100 to 240 VAC, G, (load secondary side) 24VDC, 2A 50W
Power consumption	1CW
Outside dimensions	209mm (W)X77mm (D)X103mm (H)
Weight	approximately 1.4kg

FEATURES

- When the tool clicks, indicating the joint is tightened to the specified torque, a signal is sent to the TCSK-99MA.

■ SWPM TYPES ■ Type and torque range

Model	Available Models
SPK-SWPM	190SPK~200SPK N190SPK~N200SPK
RSPK-SWPM	190RSPK~200RSPK N190RSPK~N200RSPK
QSPK-SWPM	F60QSPK~F200QSPK / F400QSPK 600SPK~4200SPK N600SPK~N4200SPK
SPCK-SWPM	60SPCK~400SPCK N60SPCK~N400SPCK

- Accuracy : $\pm 3\%$ of pre-set value

QLK-SWPM	H500QLK-H2000QLK 400 L-2000QLK N500QLK-N2000QLK
LLK-SWPM	400LLK-2000LLK N500LLK-N2000LLK

- Accuracy : $\pm 3\%$ of indicated value over the full range

LLDK-SWP	G200L DK / P500L DK-H500L DK 130T DK-100T DK N120L DK-N100L DK
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- Accuracy : $\pm 3\%$ of indicated value over the full range, clockwise

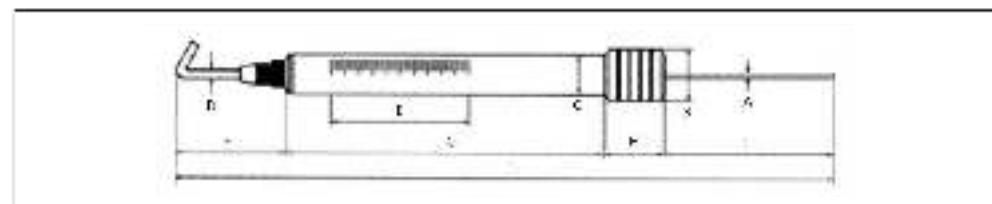
* Torque wrench setting of N4200QLK-SWPM has been 10Nm and 4500L DK has been 100kg/cm does not go sigma properly.

TK TENSION GAUGES

Demonstrating KANON's measuring versatility.
Great performance whether measuring vertically or horizontally.

FEATURES

- Measures pushing, pulling force and spring tension.
Our tension gauges are designed to indicate precise increments of force.
- Use the gauges for taking horizontal measurements. Just add the correcting value to the indicated value [see the table below]. A peak indicator is available for TK500 to TK300 and TK500eN to TK3000eN.
- Accuracy: ± 1 increment



Model (kg)	Range (kg)	Incr. (kg)	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	Weight (g)	Correcting value for horizontal measurements (kg)
TK10	0 - 10	0.5	1.5	16	13	1.5	40	19	98	13	48	180	30	-3
TK30	0 - 30	1	1.5	16	13	1.5	60	19	113	13	66	213	30	-3
TK50	0 - 50	1	1.5	16	13	1.5	60	19	113	13	66	213	30	-3
TK110	0 - 110	2	2	16	13	2	60	27.5	113	13	65.5	221	35	-10
TK200	0 - 200	5	2	16	13	2	60	27.5	113	13	65.5	221	35	-10
TK300	0 - 300	5	2	16	13	2	60	27.5	113	13	65.5	221	35	-10
TK500	0 - 500	10	3	20	16	2.5	56	43	137	23	69	268	78	-30
TK600	0 - 600	20	3	20	16	2.5	56	43	137	23	69	268	78	-30
TK1000	0 - 1000	20	3	20	16	2.5	56	43	137	23	69	268	78	-30
TK1500	0 - 1500	50	3	20	16	2.5	56	43	137	23	69	268	78	-30
TK2000	0 - 2000	50	3	20	16	2.5	56	43	137	23	69	268	78	-30
TK2500	0 - 2500	50	3	20	16	2.5	56	43	137	23	69	268	78	-30
TK3000	0 - 3000	50	3	20	16	2.5	56	43	137	23	69	268	78	-30
TK4000	0 - 4000	50	4	25	22	3.5	68	43	173	23	82	338	200	-100
TK5000	0 - 5000	100	4	25	22	3.5	68	43	173	23	82	338	200	-100
TK7000	0 - 7000	200	4	25	22	3.5	68	43	173	23	82	338	200	-100
TK10000	0 - 10000	200	4	25	22	3.5	68	43	173	23	82	338	200	-100
TK15000	0 - 15000	200	4	25	22	3.5	68	43	173	23	82	338	200	-100
TK20000	0 - 20000	200	4	25	22	3.5	68	43	173	23	82	338	200	-100
TK30000	0 - 30000	200	4	25	22	3.5	68	43	173	23	82	338	200	-100

Model (kN)	Range (kN)	Incr. (kN)	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	Weight (g)	Correcting value for horizontal measurements (kg)
TK10eN	0 - 10	0.5	1.5	16	13	1.5	40	19	98	13	48	180	30	-3
TK30eN	0 - 30	1	1.5	16	13	1.5	60	19	113	13	66	213	30	-3
TK50eN	0 - 50	1	1.5	16	13	1.5	60	19	113	13	66	213	30	-3
TK110eN	0 - 110	2	2	16	13	2	60	27.5	113	13	65.5	221	35	-10
TK200eN	0 - 200	5	2	16	13	2	60	27.5	113	13	65.5	221	35	-10
TK300eN	0 - 300	5	2	16	13	2	60	27.5	113	13	65.5	221	35	-10
TK500eN	0 - 500	10	3	20	16	2.5	56	43	137	23	69	268	78	-30
TK600eN	0 - 600	20	3	20	16	2.5	56	43	137	23	69	268	78	-30
TK1000eN	0 - 1000	20	3	20	16	2.5	56	43	137	23	69	268	78	-30
TK1500eN	0 - 1500	50	3	20	16	2.5	56	43	137	23	69	268	78	-30
TK2000eN	0 - 2000	50	3	20	16	2.5	56	43	137	23	69	268	78	-30
TK2500eN	0 - 2500	50	3	20	16	2.5	56	43	137	23	69	268	78	-30
TK3000eN	0 - 3000	50	3	20	16	2.5	56	43	137	23	69	268	78	-30
TK4000eN	0 - 4000	50	4	25	22	3.5	68	43	173	23	82	338	200	-100
TK5000eN	0 - 5000	100	4	25	22	3.5	68	43	173	23	82	338	200	-100
TK7000eN	0 - 7000	200	4	25	22	3.5	68	43	173	23	82	338	200	-100
TK10000eN	0 - 10000	200	4	25	22	3.5	68	43	173	23	82	338	200	-100
TK15000eN	0 - 15000	200	4	25	22	3.5	68	43	173	23	82	338	200	-100
TK20000eN	0 - 20000	200	4	25	22	3.5	68	43	173	23	82	338	200	-100
TK30000eN	0 - 30000	200	4	25	22	3.5	68	43	173	23	82	338	200	-100



- If you take a measurement horizontally, add the correcting value to the indicated measurement value per the table.



- * Peak indicator is optional

- If you would like your TK gauge with a peak indicator, please specify "TK-G" on your purchase order, ext. TK500eN-G.

DTC-EXL DATA PRINT-OUT DIGITAL TORQUE WRENCHES

Newly designed, features a multi-function digital read-out.

PRINTER TPK-3
(Optional)



REPLACEABLE HEADS

Options

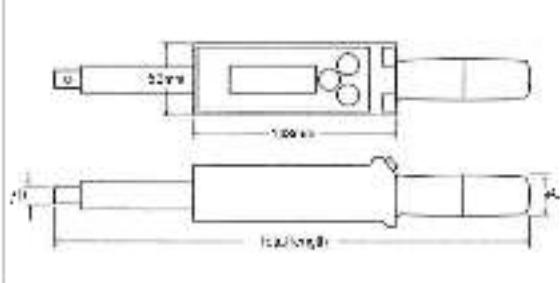


Included Accessory



FEATURES

- Accuracy : $\pm 1\%$ of indicated value + 1 increment, over the full range
- Display : Torque reading 4-digit LCD display
- Measurement modes : ① Peak hold ② Peak to peak/hold ③ Run
- Direction of measurement : Automatic CW/CCW changeover, provided with CW/CCW status display
- Power supply : Two rechargeable "AA" 1.2V batteries and a 100-240V battery charger
- Battery life : Approximately 20 hours with fully charged batteries (continuous operation)
- Power off : Auto power-off, approximately 3 minutes 40 seconds
- Tolerance setting : Automatic judgement capability per the Min/Max settings
- Data memory : 100 pieces of data
- Output : Printer output (exclusively to a TPK-3), analog output <> 0 to 1.024 [mid point] to 2.048 V >>



Model	Range (CW/CCW)	Increment	Total length (mm)	φD (mm)	φC (mm)	Weight (kg)	Accessory
DTC-100EXL	10-100 kgf-cm	0.1 kgf-cm	300	10	26	0.7	120 GCK
DTC-300EXL	30-300 kgf-cm	0.1 kgf-cm	324	12	26	0.7	450 GCK
DTC-1000EXL	100-1000 kgf-cm	1 kgf-cm	345	15	32	0.8	900 GCK
DTC-3000EXL	200-3000 kgf-cm	1 kgf-cm	360	18	32	0.9	1800 GCK
DTC-5000EXL	5-50 kgf-n	0.02 kgf-n	535	22	32	1.5	2800 GCK-A
DTC-5000EXL	5-50 kgf-n	0.05 kgf-n	1,050	30	34	3.9	7000 GCK
DTC-10000EXL	10-100 kgf-n	0.1 kgf-n	1,017	34	34	7.3	10000 GCK
DTC-N100EXL	1-10 N.m	0.01 N.m	300	10	26	0.7	120 GCK
DTC-N500EXL	5-50 N.m	0.05 N.m	324	12	26	0.7	450 GCK
DTC-N100EXL	10-100 N.m	0.1 N.m	345	15	32	0.8	900 GCK
DTC-N200EXL	20-200 N.m	0.1 N.m	360	18	32	0.9	1800 GCK
DTC-N300EXL	30-300 N.m	0.2 N.m	535	22	32	1.5	2800 GCK-A
DTC-N500EXL	50-500 N.m	0.5 N.m	1,063	30	34	3.9	7000 GCK
DTC-N1000EXL	100-1000 N.m	1 N.m	1,417	34	34	7.3	10000 GCK
DTC-P100EXL	1-10 lb/in	0.01 lb/in	300	10	26	0.7	120 GCK
DTC-P400EXL	40-400 lb/in	0.1 lb/in	324	12	26	0.7	450 GCK
DTC-P800EXL	80-800 lb/in	0.1 lb/in	360	15	32	0.8	900 GCK
DTC-P1600EXL	160-1600 lb/in	0.1 lb/in	390	18	32	0.9	1800 GCK
DTC-PF300EXL	20-200 lb/in	0.1 lb/in	535	22	32	1.5	2800 GCK-A
DTC-PF400EXL	40-400 lb/in	0.2 lb/in	1,063	30	34	3.9	7000 GCK
DTC-PF800EXL	80-800 lb/in	0.2 lb/in	1,417	34	34	7.3	10000 GCK

DTDK-EXL

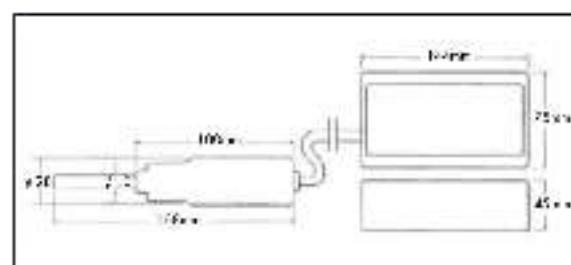
DIGITAL TORQUE DRIVER WITH CONNECTED DISPLAY

The display is separate from the driver. Complete tightening control for small screws.

FEATURES

- Accuracy : $\pm 1\%$ of indicated value +1 increment, over the full range
- Display : Torque reading: 4-digit LCD display
- Measurement modes : 3Peak hold 3Peak to peak-hold 3Run
- Direction of measurement : Automatic CW/CCW changeover, provided with CW/CCW status display
- Power supply : Two rechargeable "AA" 1.2V batteries and a 100-240V battery charger
- Battery life : Approximately 20 hours with fully charged batteries (continuous operation)
- Power off : Auto Power-off, approximately 3 minutes 40 seconds
- Tolerance setting : Automatic judgement capability per the Min/Max settings
- Data memory : 100 pieces of data
- Output : Printer output (exclusively to a TPK-3), analog output <> 0 to 1.024 (mic point) to 2.048 V >>

Old Model	New Model	Range [CW/CCW]	Increment	Weight [kg]	Included Accessory
					Standard bits Philips SB type
DTDK-20EXL	-	2~20 kgf·cm	0.01 kgf·cm	1	No.0, No.1
DTDK-50EXL	-	5~50 kgf·cm	0.05 kgf·cm	1	No.1, No.2
DTDK-N2EXL	DTDK-CN2000XL	20~200 N·m	0.1 N·m	1	No.0, No.1
DTDK-N5EXL	DTDK-CN5000XL	50~500 N·m	0.5 N·m	1	No.1, No.2
DTDK-P40EXL	-	4~40 lb·in	0.01 lb·in	1	No.1, No.2



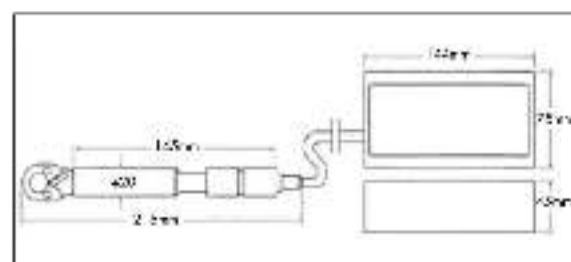
DTC-N5EXL

DIGITAL TORQUE WRENCH WITH CONNECTED DISPLAY

The display is separate from the wrench. The slender wrench body facilitates measuring lower torques.

FEATURES

- Accuracy : $\pm 1\%$ of indicated value +1 increment, over the full range
- Display : Torque reading: 4-digit LCD display
- Measurement modes : 3Peak hold 3Peak to peak-hold 3Run
- Direction of measurement : Automatic CW/CCW changeover, provided with CW/CCW status display
- Power supply : Two rechargeable "AA" 1.2V batteries and a 100-240V battery charger
- Battery life : Approximately 20 hours with fully charged batteries (continuous operation)
- Power off : Auto Power-off, approximately 3 minutes 40 seconds
- Tolerance setting : Automatic judgement capability per the Min/Max settings
- Data memory : 100 pieces of data
- Output : Printer output (exclusively to a TPK-3), analog output <> 0 to 1.024 (mic point) to 2.048 V >>

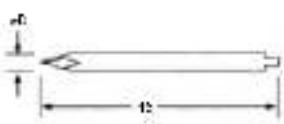
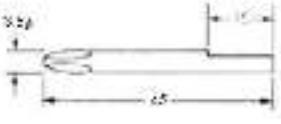
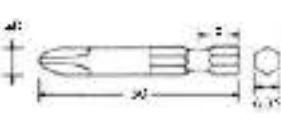
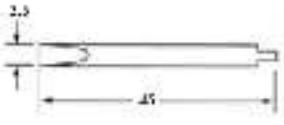
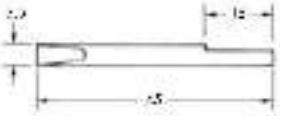
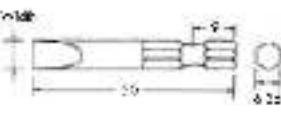
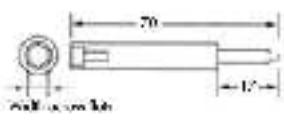
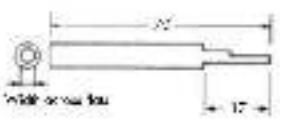
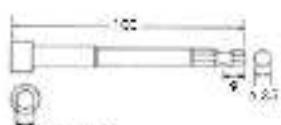
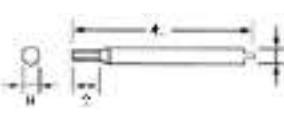
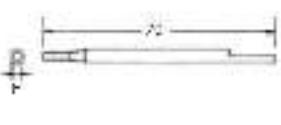
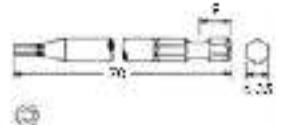


Old Model	New Model	Range [CW/CCW]	Increment	Weight [kg]	Accessory
DTC-50EXL	-	5~50 kgf·cm	0.05 kgf·cm	0.9	12900K
DTC-N5EXL	DTC-CN5000EXL	50~500 N·m	0.5 N·m	0.9	12900K
DTC-P40EXL	-	4~40 lb·in	0.01 lb·in	0.9	12900K

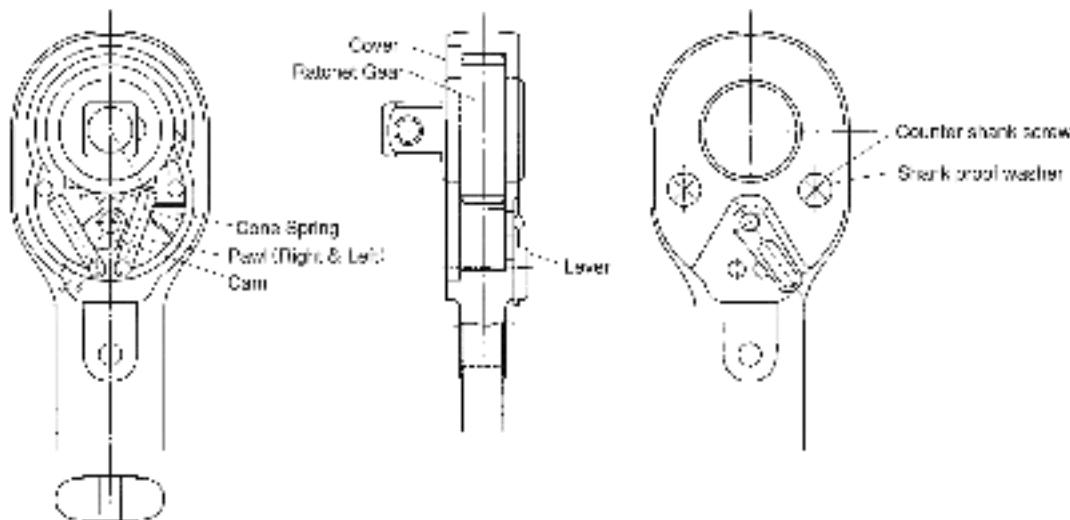
* ■ is the new model that is applied from 1st January, 2016.

BITS

BITS FOR TORQUE DRIVERS

Type	CB type (KANON bits)	OB type (KANON bits)	SB type (Standard bits)																																								
Applicable driver	N1.5, 3 TDK IN1.5, 3STDK OI 22, 44, STDK	1.5, 3 TDK IN 1, 2, 5 DSK	IN1.5, 3 TDK-H, IN6, 12, 20, 30, 50, 100TDK OI 200TDK, P 30, 50, 100TDK IN 6, 12, 20, 30, 50, 100SDK OI 80, 200STDK, P 30, 50, 100STDK IN 10, 20, 50DPSK, IN 10, 20, 50DPSK TDK-20, 50EXL, DTK-N2, NS EXL																																								
Phillips	 <table border="1"> <tr> <td>SD</td> <td>Bit sizes</td> </tr> <tr> <td>3.5</td> <td>No.00 No.0 No.1 No.2</td> </tr> </table>	SD	Bit sizes	3.5	No.00 No.0 No.1 No.2	 <table border="1"> <tr> <td>SD</td> <td>Bit sizes</td> </tr> <tr> <td>3.5</td> <td>No.00 No.0 No.1 No.2</td> </tr> </table>	SD	Bit sizes	3.5	No.00 No.0 No.1 No.2	 <table border="1"> <tr> <td>SD</td> <td>Bit sizes</td> </tr> <tr> <td>4</td> <td>No.0 No.1 No.2 No.3</td> </tr> </table>	SD	Bit sizes	4	No.0 No.1 No.2 No.3																												
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Screw Drive	 <table border="1"> <tr> <td>◎ Blade thickness</td> <td>Width</td> </tr> <tr> <td>0.6mm</td> <td>3.5mm</td> </tr> </table>	◎ Blade thickness	Width	0.6mm	3.5mm	 <table border="1"> <tr> <td>◎ Blade thickness</td> <td>Width</td> </tr> <tr> <td>0.6mm</td> <td>3.5mm</td> </tr> </table>	◎ Blade thickness	Width	0.6mm	3.5mm	 <table border="1"> <tr> <td>◎ Blade thickness</td> <td>Width</td> </tr> <tr> <td>0.6mm</td> <td>4.0mm</td> </tr> <tr> <td>1.0mm</td> <td>7.0mm</td> </tr> </table>	◎ Blade thickness	Width	0.6mm	4.0mm	1.0mm	7.0mm																										
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BOX BITS (Female Head)	 <table border="1"> <tr> <td colspan="5">Width across flats</td> </tr> <tr> <td>3</td> <td>4</td> <td>5</td> <td>5.5</td> <td>6</td> </tr> </table>	Width across flats					3	4	5	5.5	6	 <table border="1"> <tr> <td colspan="5">Width across flats</td> </tr> <tr> <td>3</td> <td>4</td> <td>5</td> <td>5.5</td> <td>6</td> </tr> </table>	Width across flats					3	4	5	5.5	6	 <table border="1"> <tr> <td colspan="5">Width across flats</td> </tr> <tr> <td>4</td> <td>5</td> <td>5.5</td> <td>6</td> <td>7</td> </tr> <tr> <td>8</td> <td>9</td> <td>10</td> <td>11</td> <td>12</td> </tr> <tr> <td>10</td> <td>14</td> <td>17</td> <td></td> <td></td> </tr> </table>	Width across flats					4	5	5.5	6	7	8	9	10	11	12	10	14	17		
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HEX BITS (Male Hex)	 <table border="1"> <tr> <td colspan="5">Edge size (H) mm</td> </tr> <tr> <td>1.27</td> <td>1.5</td> <td>2</td> <td>2.5</td> <td>3</td> </tr> </table>	Edge size (H) mm					1.27	1.5	2	2.5	3	 <table border="1"> <tr> <td colspan="5">Edge size (H) mm</td> </tr> <tr> <td>1.27</td> <td>1.5</td> <td>2</td> <td>2.5</td> <td>3</td> </tr> </table>	Edge size (H) mm					1.27	1.5	2	2.5	3	 <table border="1"> <tr> <td colspan="5">Edge size (H) mm</td> </tr> <tr> <td>1.27</td> <td>1.5</td> <td>2</td> <td>2.5</td> <td>3</td> </tr> <tr> <td>d</td> <td>5</td> <td>6</td> <td>8</td> <td>10</td> </tr> </table>	Edge size (H) mm					1.27	1.5	2	2.5	3	d	5	6	8	10					
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PARTS FOR QLK, QSPK AND QCK



■ Torque unit and conversion table

	Metric unit	S.I. unit	Imperial unit
Torque unit	kgf·cm kgf·m gf·cm	N·m dNm gf·cm	lb·in lb·ft OZ·in
Conversion in unit	1kgf·m=100 kgf·cm 1kgf·cm=0.01 kgf·m 1kgf·cm= 0.0981 N·m	1N·m=100 cNm	1lb·in=12 lb·in 1lb·in=16 OZ·in
Conversion between units	1kgf·cm=0.098066 N·m 1kgf·cm=0.000981 kN·m 1kgf·cm=0.029302 lb·ft	1N·m=0.1972 kgf·cm 1N·m=0.000981 kN·m 1N·m=0.737562 lb·ft	1lb·in=1.152 kgf·cm 1lb·in=1.12985 N·m 1lb·in=13.825 kgf·cm 1lb·in= 1.355 N·m
Force unit	1kgf=9.807 N 1kgf=2.205 lbf	1N=0.101972 kgf 1N=0.224809 lbf	1lb=0.453592 kgf 1lb=4.448 N (1lb= 0.025)
length unit	1cm=0.393701 in	1in=2.54 cm 1in=0.025 m (1in=12in)	



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2005/03/2003