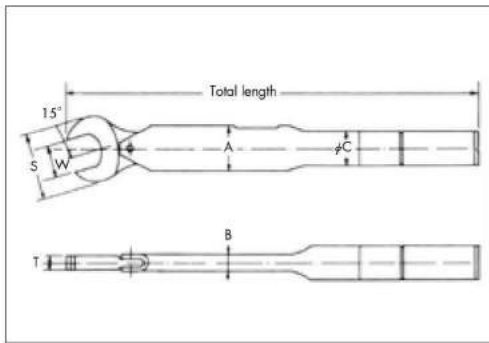


SPK PRE-SET TORQUE WRENCHES

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 : ±3% of pre-set value



EXAMPLE OF ORDER

Model	Size(W)	Pre-set Value
N190SPK	10	× 14N·m

Model (kgf·cm)	Range kgf·cm	Old Model (N·m)	New Model (N·m)	Range N·m	Spanner sizes (W)							Total length mm	Dimensions (mm)					Weight kg
					mm								Head		Body			
					S	T	A	B	C	S	T							
30SPK	5~30	N30SPK	N35SPK	0.5~3	5.5	6						152	24	5	19.5	7.5	15	0.1
80SPK	15~80	N80SPK	N85SPK	1.5~8	5.5	6	7	10				175	24	5	19.5	7.5	15	0.11
					8	9	10	11	12	13								
					10	11												
190SPK	35~190	N190SPK	N195SPK	3.5~19	12	13	14				203	27	7	19.5	7.5	15	0.15	
					17	19					205	30						
											213	35						
380SPK	80~380	N380SPK	N385SPK	8~38	10	11	12	13	14		248	35	8	26.6	8.2	20	0.29	
					17	19					252	39						
					21	22	23	24			256	45						
					26	27	29	30	32		264	52						
					14	17	19	21			319	45						
670SPK	130~670	N670SPK	N675SPK	13~67	22	24	26				325	50	11	25.8	9.7	20	0.45	
					27	30	32				330	56					0.46	
					36	41					342	65					0.47	
					17	19	22				390	52					0.49	
					24	26	27				397	57					0.75	
1200SPK	240~1,200	N1200SPK	N1205SPK	24~120	29	30	32				403	62	12	32.8	11.3	25	0.77	
					36	41					404	64					0.79	
					19	22					435	53					0.81	
					24	26					442	56					0.94	
1600SPK	300~1,600	N1600SPK	N1605SPK	30~160	27	30	32	36			449	64	12	32.8	11.3	25	0.97	
					41						457	73					0.99	
					19	22					585	72					1.1	
					24	27					597	82					1.1	
2200SPK	450~2,200	N2200SPK	N2205SPK	45~220	30	32	36				650	67	15	35.6	12.5	27.2	1.2	
					41						654	72					1.4	
					22	24					662	82					1.5	
					27	30	32				833	74					1.3	
3100SPK	650~3,100	N3100SPK	N3105SPK	65~310	36	41					838	78	16	38.0	16	30	1.32	
					24	27					843	82					1.4	
					30	32					833	74					1.45	
					36	41					838	78					1.46	
4200SPK	900~4,200	N4200SPK	N4205SPK	90~420	36						843	82	18	43.3	17.8	34	1.47	
					41						847	88					1.5	
					24	27					860	94					1.47	
					30	32											1.5	
					46												1.52	

* 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

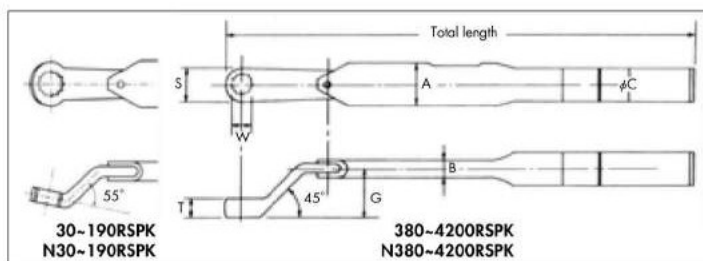
- The ring head of RSPK wrenches is offset at a 45° angle making certain joints particularly accessible.
- A single function wrench, used for a single setting combination of fastener size and torque setting.
- Most suited for tightening multiple same-size fasteners at the same torque on a production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

EXAMPLE OF ORDER

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



★1			★2			★3								
Model	Ring head sizes (W)		Dimensions Head		Model	Ring head sizes (W)		Dimensions Head		Model	Ring head sizes (W)		Dimensions Head	
	mm	S	T	mm		S	T	mm	S		T			
30RSPK N30RSPK	5.5		4	80RSPK N80RSPK	5.5		4	190RSPK N190RSPK	10	16	7			
	6	10	5		6	10	5		11	18				
	7				7				12	19	8			
	8	13	6		8	13	6		13	20	8.5			
	9	14			9	14			14	22	9			
	10	16	7		10	16	7	17	26	10				
					11			19	29	10.5				
					12			22	33	12				



Model (kgf·cm)	Range (kgf·cm)	Old Model (N·m)	New Model (N·m)	Range (N·m)	Ring head sizes (W)				Total length (mm)	Dimensions (mm)						Weight (kg)
					mm					Head			Body			
					S	T	G	A		B	C					
30RSPK	5~35	N30RSPK	N3.5RSPK	0.5~3.5	5.5	6			175	★1		19.5	7.5	15	0.12	
					7	8	9	10								
					5.5	6	7									
80RSPK	20~90	N80RSPK	N9RSPK	2~9	8	9	10		197	★2		19.5	7.5	15	0.13	
					11	12										
					10											
190RSPK	40~210	N190RSPK	N21RSPK	4~21	11	12	13	14	225	★3		19.5	7.5	15	0.21	
					17	19	22	228								
					11	12	13	14								222
380RSPK	90~420	N380RSPK	N42RSPK	9~42	11	12	13	14	268	10	25	26.6	8.2	20	0.31	
					17	19	22	273								
					14	17		343								
670RSPK	140~730	N670RSPK	N73RSPK	14~73	19	22	24		348	12	27	25.8	9.7	20	0.46	
					27	30	32	353								
					19			413								
1200RSPK	250~1,270	N1200RSPK	N127RSPK	25~127	22	24			415	13	29	32.8	11.3	25	0.85	
					27	30	32	428								
					36			437								
1600RSPK	320~1,700	N1600RSPK	N170RSPK	32~170	19	22	24		470	15	31	32.8	11.3	25	1.0	
					27	30	32	474								
					19			605								
2200RSPK	480~2,300	N2200RSPK	N230RSPK	48~230	22	24	27		608	16.5	33	35.6	12.5	27.2	1.35	
					30	32		610								
					36			612								
3100RSPK	680~3,200	N3100RSPK	N320RSPK	68~320	24	27	30		685	18	35	38	16	30	1.45	
					32	36		688								
					41			608								
4200RSPK	950~4,300	N4200RSPK	N430RSPK	95~430	27	30	32		880	37	43.3	17.8	34	1.55		
					36			885								
					41			890								
					46				895						1.7	

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

QLK **ADJUSTABLE, RATCHET TORQUE WRENCHES**

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

FEATURES

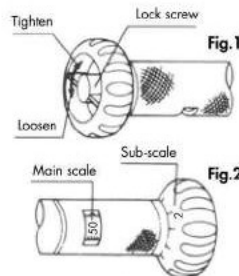
- The ratchet improves efficiency. These wrenches are well suited for repetitive work.
- By replacing the sockets, various sizes of fasteners can be tightened within the tool's capacity range.
- By reversing the ratchet, the wrench can be used to loosen fasteners counter-clockwise.
- Tightening to a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



ADJUSTING THE TORQUE SETTING

◆ 30QLK~5600QLK

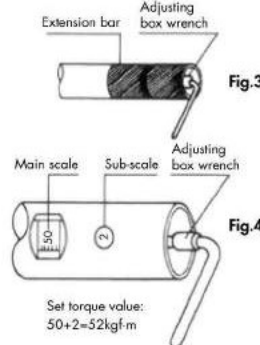
- (1) Loosen the lock screw. (See Fig.1)
- (2) Turn the sub-scale and adjust to a torque value (the main scale plus the sub-scale)(See Fig.2)
- (3) Tighten the lock screw. (If the lock screw hits the pin before completely tightening, then change the position of the pin)



Set torque value: 50+2=52kgf·m

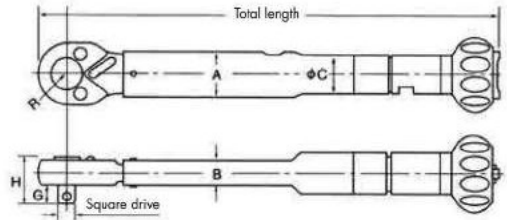
◆ 7000QLK~14000QLK

- (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.
- Without the extension bar (See Fig.4), insert the hexagonal side of the adjusting box wrench into the body.
- (3) Turn the adjusting box wrench to set the torque value. (the main scale plus the sub-scale)

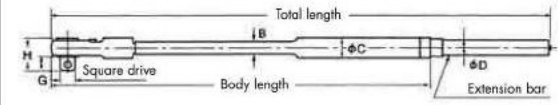


Set torque value: 50+2=52kgf·m

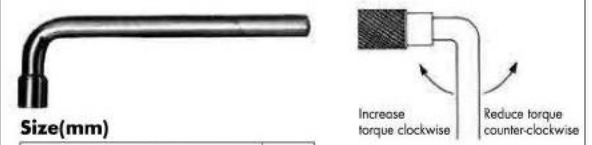
30~5600QLK



7000~21000QLK



★ Torque adjusting box wrench



Size(mm)

(N)7000QLK~10000QLK	8
(N)14000QLK~21000QLK	10

Model (kgf·cm/kgf·m)	Range	Increment	Old Model (cN·m/N·m)	New Model (cN·m/N·m)	Range	Increment	Model (lbf·in)	Range	Increment	Square drive mm	Total length mm	Dimensions (mm)						Weight kg	Standard Accessory
												Head		Body			Body length		
	kgf·cm/kgf·m	kgf·cm/kgf·m			cN·m/N·m	cN·m/N·m		lbf·in	lbf·in		H	G	R	A	B	C		D	
30QLK	10~30	0.5	N30QLK	CN300QLK	100~300	5				6.35 (1/4")	186	18.8	7.5	12					0.18
60QLK	20~60	1	N60QLK	N6QLK	2~6	0.1													0.27
120QLK	40~120	2	N120QLK	N12QLK	4~12	0.2	PI 120QLK	40~120	2					15.5	9.6	15		0.29	
230QLK	70~230	2	N230QLK		7~23	0.2	PI 230QLK	70~230	2					16	25	11.4	20	0.45	
250QLK	50~250	2	N250QLK	N25QLK	5~25	0.2				9.53 (3/8")	232	25	11					0.79	
450QLK	100~450	5	N450QLK		10~45	0.5	PI 450QLK	100~450	5					19.7	27.5	12.4	21.7	0.85	
500QLK	100~500	5	N500QLK	N50QLK	10~50	0.5								23	34			1.45	
900QLK	200~900	10	N900QLK	N90QLK	20~90	1								15.4	27.2			1.9	
1000QLK	200~1000	10	N1000QLK	N100QLK	20~100	1	PI 1000QLK	200~1000	10					19.7	27.5	12.4	21.7	1.9	
1400QLK	400~1400	10	N1400QLK	N140QLK	40~140	1				12.7 (1/2")	392	31	14					3.3	
1800QLK	400~1800	20	N1800QLK	N180QLK	40~180	2								23	34			5	
2000QLK	400~2000	20	N2000QLK	N200QLK	40~200	2	PI 2000QLK	400~2000	20					15.4	27.2			1.9	
2800QLK	4~28	0.2	N2800QLK	N280QLK	40~280	2								23.5	35			3.3	
3600QLK	8~36	0.2	N3600QLK	N360QLK	80~360	2				19.05 (3/4")	678	42	20	27	38	16	30	5	
4200QLK	6~42	0.2	N4200QLK	N420QLK	60~420	2								27	38	16	30	5	
5600QLK	8~56	0.3	N5600QLK	N560QLK	80~560	3					1,195	49.5	34	46	19.2	35.4	27.2	6.2	
7000QLK	10~70	0.5	N7000QLK	N700QLK	100~700	5					1,314			46	19.2	35.4	27.2	990	
8500QLK	10~85	0.5	N8500QLK	N850QLK	100~850	5					1,388			38	54	23	42.7	31.8	1,105
10000QLK	10~100	0.5	N10000QLK	N1000QLK-8	100~1000	5					1,538			44	66	26	51	40	1,144
14000QLK	20~140	1	N14000QLK		200~1400	10				25.4 (1")	1,844	61	27	44	66	26	51	40	1,144
15000QLK	20~150	1	N15000QLK	N1500QLK	200~1500	10					2,064							34	1,704
21000QLK	70~210	1	N21000QLK	N2100QLK	700~2100	10													19.5

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

GLK

ADJUSTABLE, RATCHET TORQUE WRENCHES WITH PLASTIC GRIP

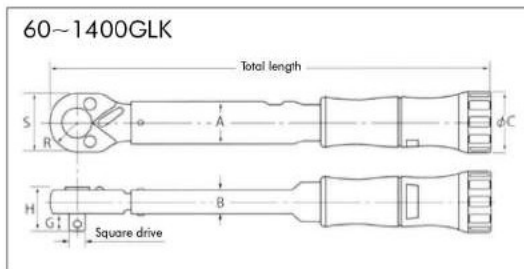
Freely set torque values within the capacity range. Replaceable socket, ratchet wrenches.

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



Model (kgf·cm)	Range kgf·cm	Increment kgf·cm	Model (N·m)	Range N·m	Increment N·m	Square drive mm	Total length mm	Dimensions (mm)						Weight kg	
								Head			Body				
								H	G	S	R	A	B	φC	
60GLK	20~60	1	N6GLK	2~6	0.1	6.35 (1/4")	187	18.8	7.5	24	12	18.2	9.6	29	0.2
120GLK	40~120	2	N12GLK	4~12	0.2	9.53 (3/8")	233	25	11	31	15.5	25	11.4	35	0.28
250GLK	50~250	2	N25GLK	5~25	0.2	12.7 (1/2")	255			32	16				19.7
500GLK	100~500	5	N50GLK	10~50	0.5	12.7 (1/2")	395	31	14	39.4	19.7	27.5	12.4	38	0.8
1000GLK	200~1000	10	N100GLK	20~100	1	12.7 (1/2")	395	31	14	39.4	19.7	27.5	12.4	38	0.8
1400GLK	400~1400	10	N140GLK	40~140	1	12.7 (1/2")	395	31	14	39.4	19.7	27.5	12.4	38	0.8

BLK

ADJUSTABLE BY HEX WRENCH, RATCHET TORQUE WRENCHES WITH PLASTIC GRIP

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

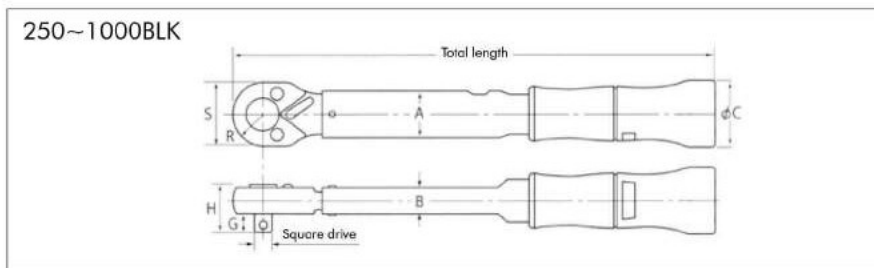
FEATURES

- Adjusted setting torque value 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

*Hex wrench is not included



Model (kgf·cm)	Range kgf·cm	Increment kgf·cm	Model (N·m)	Range N·m	Increment N·m	Square drive mm	Total length mm	Dimensions (mm)						Weight kg
								Head			Body			
								H	G	R	A	B	C	
250BLK	50~250	2	N25BLK	5~25	0.2	9.53 (3/8")	245	25	11	15.5	18.2	9.6	30	0.27
500BLK	100~500	5	N50BLK	10~50	0.5	12.7 (1/2")	392	31	14	16	25	11.4	33	0.43
1000BLK	200~1000	10	N100BLK	20~100	1	12.7 (1/2")	392	31	14	19.7	27.5	12.4	36	0.72

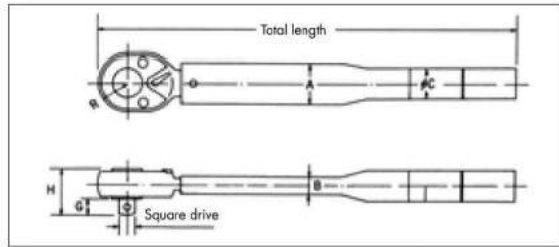
QSPK

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 the next job after disengaging from a tightened joint.
- Accuracy : ±3% of set value.



EXAMPLE OF ORDER

Model Pre-set Value
 | |
 N900QSPK × 72N·m



QSPK (Metal Handle)

Model (kgf·cm)	Range kgf·cm	Old Model (N·m)	New Model (N·m)	Range N·m	Model (lbf·in/lbf·ft)	Range lbf·in/lbf·ft	Square drive mm	Total length mm	Dimensions (mm)						Weight kg
									Head			Body			
									H	G	R	A	B	C	
60QSPK	20~60	N60QSPK	N6QSPK	2~6	PI 60QSPK	20~60 lbf·in	6.35 (1/4")	174	19.5	7.5	12.5	18.2	9.6	15	0.17
120QSPK	40~120	N120QSPK	N12QSPK	4~12	PI 120QSPK	40~120 "		220							0.25
230QSPK	70~230	N230QSPK		7~23	PI 230QSPK	70~230 "	9.53 (3/8")	240	25	12	16	25	11.4	20	0.38
250QSPK	70~250	N250QSPK	N25QSPK	7~25				340							0.64
450QSPK	100~450	N450QSPK		10~45	PI 450QSPK	100~450 "	12.7 (1/2")	380	31	14	19.7	27.5	12.4	21.7	0.7
500QSPK	100~500	N500QSPK	N50QSPK	10~50				463.5							1.35
900QSPK	200~900	N900QSPK		20~90	PI 900QSPK	200~900 "	19.05 (3/4")	664	42	20	34	43.5	18	34	2.0
1000QSPK	200~1000	N1000QSPK	N100QSPK	20~100				980							4.3
1400QSPK	400~1400	N1400QSPK	N140QSPK	40~140	PI 1400QSPK	400~1400 "									
1800QSPK	400~1800	N1800QSPK		40~180	PI 1800QSPK	400~1800 "									
2000QSPK	400~2000	N2000QSPK	N200QSPK	40~200											
2800QSPK	600~2800	N2800QSPK	N280QSPK	60~280	PI 2800QSPK	600~2800 "									
4200QSPK	600~4200	N4200QSPK	N420QSPK	60~420	PF 300QSPK	50~300 lbf·ft									

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 the next job after disengaging from a tightened joint.
- Accuracy : ±3% of set value.



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

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

Model (kgf·cm)	Range kgf·cm	Old Model (N·m)	New Model (N·m)	Range N·m	Square drive mm	Total length mm	Dimensions (mm)						Weight kg
							Head			Body			
							H	G	R	A	B	C	
60QSPKH	20~60	N60QSPKH	N6QSPKH	2~6	6.35 (1/4")	174	19.5	7.5	12.5	18.2	9.6	26.5	0.19
120QSPKH	40~120	N120QSPKH	N12QSPKH	4~12									220
250QSPKH	70~250	N250QSPKH	N25QSPKH	7~25	9.53 (3/8")	240	25	12	16	25	11.4	32.7	0.41
500QSPKH	100~500	N500QSPKH	N50QSPKH	10~50									340
1000QSPKH	200~1000	N1000QSPKH	N100QSPKH	20~100	12.7 (1/2")	380	31	14	19.7	27.5	12.4	37	0.75
1400QSPKH	400~1400	N1400QSPKH	N140QSPKH	40~140									

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

Model (kgf·cm)	Range kgf·cm	Old Model (N·m)	New Model (N·m)	Range N·m	Square drive mm	Total length mm	Dimensions (mm)						Weight kg
							Head			Body			
							H	G	R	A	B	C	
60QSPK-A	20~60	N60QSPK-A	N6QSPK-A	2~6	6.35 (1/4")	174	19.5	7.5	12.5	18.2	9.6	26.5	0.19
120QSPK-A	40~120	N120QSPK-A	N12QSPK-A	4~12									220
250QSPK-A	70~250	N250QSPK-A	N25QSPK-A	7~25	9.53 (3/8")	240	25	12	16	25	11.4	32.7	0.41
500QSPK-A	100~500	N500QSPK-A	N50QSPK-A	10~50									340
1000QSPK-A	200~1000	N1000QSPK-A	N100QSPK-A	20~100	12.7 (1/2")	380	31	14	19.7	27.5	12.4	37	0.75
1400QSPK-A	400~1400	N1400QSPK-A	N140QSPK-A	40~140									

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



QSPKH

*Adjusting tool is option



QSPK-A

*Hex wrench is option

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

SPCK PRE-SET, REPLACEABLE HEAD TORQUE WRENCHES

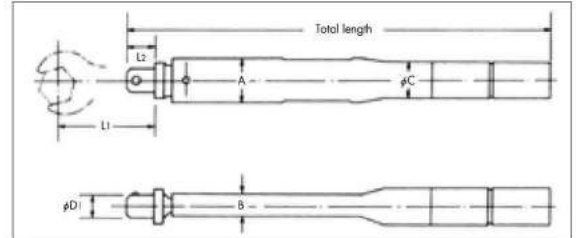
Work at a set torque value can proceed smoothly while using various replaceable heads.

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 pre-set value

USING AN SPCK

Mount the head on the drive.



Model (kgf·cm)	Range kgf·cm	Old Model (N·m)	New Model (N·m)	Range N·m	Total length mm	Dimensions (mm)					Weight kg	Replaceable heads	
						Head		Body					
						ϕD_1	L ₁	L ₂	A	B	ϕC		
60SPCK	20~60	N60SPCK	N6SPCK	2~6	161	10	45	13	18.2	9.6	15	0.15	120GCK,230 (SCK,RCK,HCK)
120SPCK	40~120	N120SPCK	N12SPCK	4~12									
230SPCK	70~230	N230SPCK		7~23	196	12	55	16	25	11.4	20	0.19	230 (QCK,SCK,RCK,HCK)
250SPCK	70~250	N250SPCK	N25SPCK	7~25									
450SPCK	100~450	N450SPCK		10~45	220	15	65	18	27.5	12.4	21.7	0.27	450 (QCK,SCK,RCK,HCK)
500SPCK	100~500	N500SPCK	N50SPCK	10~50									
900SPCK	200~900	N900SPCK		20~90	312	18	80	22	34	15.4	27.2	0.57	900 (QCK,SCK,RCK,HCK)
1000SPCK	200~1,000	N1000SPCK	N100SPCK	20~100									
1800SPCK	400~1,800	N1800SPCK		40~180	428	22	100	27	38	16	30	0.92	1800 (QCK,SCK,RCK,HCK)
2000SPCK	400~2,000	N2000SPCK	N200SPCK	40~200									
2800SPCK	600~2,800	N2800SPCK	N280SPCK	60~280	590	22	100	27	38	16	30	1.7	2800 (QCK,SCK,RCK,HCK)
4400SPCK	600~4,400	N4400SPCK	N440SPCK	60~440									

SPCKH PRE-SET, REPLACEABLE HEAD TORQUE WRENCHES WITH PLASTIC GRIP

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



Optional Replaceable Heads (Refer to the page 10)



SCK
(Open End head)



RCK
(Ring head)



QCK
(Ratchet head)



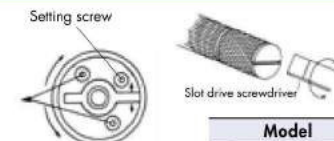
HCK
(Hex drive head)

Model (kgf·cm)	Range kgf·cm	Old Model (N·m)	New Model (N·m)	Range N·m	Total length mm	Dimensions (mm)					Weight kg	Replaceable heads	
						Head		Body					
						ϕD_1	L ₁	L ₂	A	B	ϕC		
60SPCKH	20~60	N60SPCKH	N6SPCKH	2~6	161	10	45	13	18.2	9.6	26.5	0.17	120GCK,230 (SCK,RCK,HCK)
120SPCKH	40~120	N120SPCKH	N12SPCKH	4~12									
250SPCKH	70~250	N250SPCKH	N25SPCKH	7~25	196	12	55	16	25	11.4	32.7	0.21	230 (QCK,SCK,RCK,HCK)
500SPCKH	100~500	N500SPCKH	N50SPCKH	10~50									
1000SPCKH	200~1,000	N1000SPCKH	N100SPCKH	20~100	312	15	65	18	27.5	12.4	37	0.62	900 (QCK,SCK,RCK,HCK)

RE-SETTING THE PRE-SET TORQUE

(SPK · RSPK · QSPK · SPCK · TYPES)

- (1) Remove the screw cap with a slot drive screw driver.
- (2) Loosen the setting screw with a hex wrench.
- (3) Using the special adjusting tool or equivalent, rotate the slotted plate clockwise to increase torque or counterclockwise to reduce torque. Check the setting with a torque analyzer.
- (4) Tighten the setting screw with a hex wrench.
- (5) Screw on the screws cap and tighten it.



★ Adjusting tools



Model	Applicable Torque wrench Tools
Adjusting Tool No.1	(N)30,80,190SPK(H), (N)30,80,190RSPK(H), (N)60,120,230,250QSPK(H)
Adjusting Tool No.2	(N)380,670SPK(H), (N)380,670RSPK(H), (N)450,500,900,1000,1400QSPK(H)
Adjusting Tool No.3	(N)1200,1600,2200SPK, (N)1200,1600,2200RSPK, (N)1800,2000QSPK, (N)2800 QSPK
Adjusting Tool No.4	(N)3100SPK, (N)3100RSPK, (N)4200QSPK
Adjusting Tool No.5	(N)4200SPK, (N)4200RSPK

* Adjusting tool is option.

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

LCK

ADJUSTABLE, REPLACEABLE HEAD TORQUE WRENCHES

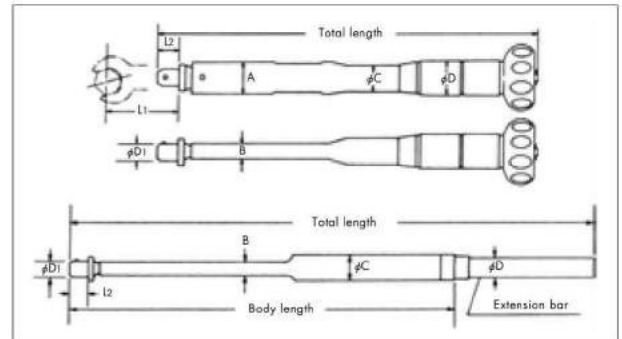
Freely replace heads according to work applications. The combination of replaceable heads and torque adjustability make this series extremely versatile.

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 : ±3% of indicated value over the full range



LCK



Model (kgf·cm/kgf·m)	Range	Increment	Old Model (N·m)	New Model (N·m)	Range	Increment	Total length mm	Dimensions (mm)						Weight kg	Replaceable heads		
								Head			Body						
	kgf·cm/kgf·m	kgf·cm/kgf·m			N·m	N·m		φD1	L1	L2	A	B	C	D	Body length		
60LCK	20 ~ 60	1	N60LCK	N6LCK	2 ~ 6	0.1	173	10	45	13	18.2	9.6	15			0.17	120QCK,230 {SCK,RCK,HCK}
120LCK	40 ~ 120	2	N120LCK	N12LCK	4 ~ 12	0.2										0.2	230 (QCK,SCK,RCK,HCK)
230LCK	70 ~ 230	2	N230LCK	N25LCK	5 ~ 25	0.2	208									0.36	450 (QCK,SCK,RCK,HCK)
450LCK	100 ~ 450	5	N450LCK	N50LCK	10 ~ 50	0.5	232	12	55	16	25	11.4	20			0.59	900 (QCK,SCK,RCK,HCK)
900LCK	200 ~ 900	10	N900LCK	N100LCK	20 ~ 100	1	325	15	65	18	27.5	12.4	21.7			1.3	1800 (QCK,SCK,RCK,HCK)
1800LCK	400 ~ 1,800	20	N1800LCK	N200LCK	40 ~ 200	2	443	18	80	22	34	15.4	27.2			1.8	2800 (QCK,SCK,RCK,HCK)
2800LCK	4 ~ 28	0.2	N2800LCK	N280LCK	40 ~ 280	2	648	22	100	27	35					2.8	4400 (QCK,SCK,RCK,HCK)
4400LCK	6 ~ 44	0.2	N4400LCK	N440LCK	60 ~ 440	2	908				39	16	30			4.1	7000 (QCK,SCK,RCK)
5600LCK	8 ~ 56	0.3	N5600LCK	N560LCK	80 ~ 560	3	1086				43.5	18	34			5.1	10000 (QCK,SCK,RCK)
7000LCK	10 ~ 70	0.5	N7000LCK	N700LCK	100 ~ 700	5	1206	30	125	45	46	19.2	35.4	27.2	876	7.2	14000 (QCK,SCK,RCK)
8500LCK	10 ~ 85	0.5	N8500LCK	N850LCK	100 ~ 850	5	1267									7.5	
10000LCK	10 ~ 100	0.5	N10000LCK	N1000LCK	100 ~ 1,000	5	1417	34	130	47	54	23	42.7	31.8	984		
14000LCK	20 ~ 140	1	N14000LCK	N1500LCK	200 ~ 1,500	10	1700	38	160	60	66	26	51	40	1003	13.5	14000 (QCK,SCK,RCK)

GCK

ADJUSTABLE, REPLACEABLE HEAD TORQUE WRENCHES WITH PLASTIC GRIP

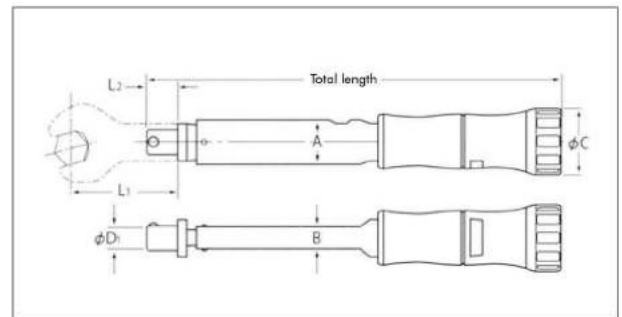
Freely replace heads according to work applications. The combination of replaceable heads and torque adjustability make this series extremely versatile.

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 : ±3% of indicated value over the full range



GCK



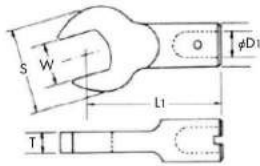
Model (kgf·cm)	Range	Increment	Model (N·m)	Range	Increment	Total length mm	Dimensions (mm)						Weight kg	Replaceable heads	
							Head			Body					
	kgf·cm	kgf·cm		N·m	N·m		φD1	L1	L2	A	B	C			
60GCK	20-60	1	N6GCK	2-6	0.1	174								0.18	120QCK,230 {SCK,RCK,HCK}
120GCK	40-120	2	N12GCK	4-12	0.2		10	45	13	18.2	9.6	29		0.21	230 (QCK,SCK,RCK,HCK)
250GCK	50-250	2	N25GCK	5-25	0.2	209								0.37	450 (QCK,SCK,RCK,HCK)
500GCK	100-500	5	N50GCK	10-50	0.5	235	12	55	16	25	11.4	35		0.6	900 (QCK,SCK,RCK,HCK)
1000GCK	200-1,000	10	N100GCK	20-100	1	327								0.68	
1400GCK	400-1,400	20	N140GCK	40-140	2	365	15	65	18	27.5	12.4	38			

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

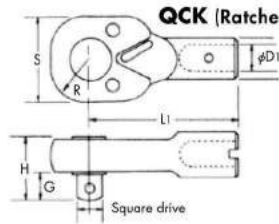
HEADS

OPTIONAL REPLACEABLE HEADS

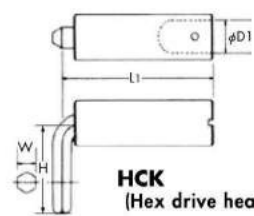
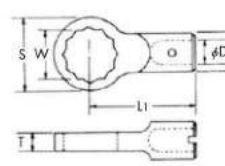
SCK (Open End head)



QCK (Ratchet head)



RCK (Ring head)



HCK (Hex drive head)

SCK open end heads

Unit : mm

Old Model	New Model	Size (W)					S	T	L1	φD1	Applicable torque wrench		
230SCK	25SCK	7	8	9	10		29	7	45	10	IN40-230LCK DTC-P80EXL IN40-250SPCK DTC-N5EXL DTC-50EXL DTC-100EXL DTC-P40EXL N25GCK		
		11	12	13	14	15						16	32
		17	19	21	22								39
		24											45
		8	9	10	11								32
450SCK	50SCK	12	13	14	15	16	36	10	55	12	IN450LCK DTC-N50EXL IN450-500SPCK 500GCK DTC-500EXL N50GCK DTC-P400EXL DLF-N50-UC		
		17	19	21	22							44	
		24	27									50	
		12	13	14	15							40	
900SCK	100SCK	16	17	19	21	22	48	12	65	15	IN900LCK 1000GCK IN900-1000SPCK N100GCK DTC-1000EXL 1400GCK DTC-P800EXL N140GCK DTC-N100EXL DLF-N100-UC		
		24	27	30								57	
		17	19	21	22							56	
1800SCK	200SCK	24	27	30			64	14	80	18	IN1800LCK DTC-PF100EXL IN1800-2000SPCK DTC-N200EXL DTC-2000EXL DLF-N200-UC		
		32	36	41								75	
		19										59	
		21	22									61	
		24										63	
		27										67	
		30										69	
2800SCK	280SCK	32					71	16.5	100	22	IN2800LCK DTC-PF200EXL IN2800SPCK DTC-N300EXL DTC-3000EXL		
		36										75	
		41										80	
		46										85	
		19	22	24								70	
		27	30	32								78	
		36	41									84	
		46	50									94	
		55	60									100	
		27										83	
4400SCK	440SCK	30					86	25	125	30	IN5600-7000LCK DTC-PF400EXL DTC-5000EXL DTC-N500EXL		
		32										88	
		36										91	
		41										95	
		46										98	
		50										102	
7000SCK	700SCK	55					105	28	125	30	IN5600-7000LCK DTC-PF400EXL DTC-5000EXL DTC-N500EXL		
		60										110	
		36										95	
		41										100	
		46										106	
		50										110	
10000SCK	1000SCK	55					115	32	130	34	IN8500-10000LCK DTC-PF800EXL DTC-10000EXL DTC-N1000EXL		
		60										120	
		41										110	
		46										115	
14000SCK	1500SCK	50					120	35	160	38	IN14000LCK		
		55										122	
		60										127	
		65										130	
		41										110	

QCK ratchet heads

Unit : mm

Old Model	New Model	Sq. drive	S	H	G	R	L1	φD1	Applicable torque wrench
120QCK	12QCK	6.35 (1/4)	24	19	7.5	12	45	10	IN160-230LCK DTC-N5EXL IN160-250SPCK DTC-N110EXL DTC-50EXL DTC-100EXL DTC-P40EXL DTC-P80EXL N25GCK
230QCK	25QCK	9.53 (3/8)	31	25	11	15.5	55	12	IN1450LCK IN450-500SPCK 500GCK DTC-500EXL DTC-P400EXL DTC-N50EXL N50GCK
450QCK	50QCK	12.7 (1/2)	39	31	14	19.7	65	15	IN900LCK IN900-1000SPCK N100GCK DTC-1000EXL 1400GCK IN1800LCK IN1800-2000SPCK DTC-N200EXL DTC-2000EXL DTC-PF100EXL
900QCK	100QCK	19.05 (3/4)	54	42.5	20	27	100	22	IN2800LCK, SPCK DTC-PF200EXL DTC-3000EXL DTC-N300EXL
1800QCK	200QCK	25.4 (1)	68	50	20	34	125	30	IN4400LCK, IN4400SPCK
2800QCK-A	280QCK-A	25.4 (1)	76	58	27	38	130	34	IN5600LCK DTC-PF400EXL IN7000LCK DTC-N500EXL IN8500LCK DTC-N1000EXL IN10000LCK DTC-PF800EXL DTC-N1000EXL
21000QCK	2100QCK		87	61	28.5	43.5	160	38	IN14000LCK

RCK ring heads

Unit : mm

Old Model	New Model	Size (W)					S	T	L1	φD1	Applicable torque wrench	
230RCK	25RCK	7	8	9	10		18	8	45	10	IN60-230LCK DTC-P80EXL IN60-250SPCK DTC-N5EXL DTC-50EXL DTC-100EXL DTC-P40EXL N25GCK	
		11	12	13	14							21
		17	19	22	24							31
		8	10									
		11	12	13	14							
450RCK	50RCK	17	19	22			19	10	55	12	IN450LCK DTC-N50EXL IN450-500SPCK 500GCK DTC-500EXL N50GCK DTC-P400EXL DLF-N50-UC	
		12	13	14								25
		17	19	21	22	24						34
900RCK	100RCK	24	27	30			42	13	65	15	IN900LCK 1000GCK IN900-1000SPCK N100GCK DTC-1000EXL 1400GCK DTC-P800EXL N140GCK DTC-N100EXL DLF-N100-UC	
		17	19	21								35
		24	27	30								45
1800RCK	200RCK	32	36	41			58	15	80	18	IN1800LCK DTC-PF100EXL IN1800-2000SPCK DTC-N200EXL DTC-2000EXL DLF-N200-UC	
		19	22	24								40
		27	30	32								47
2800RCK	280RCK	36	41				63	17	100	22	IN2800LCK DTC-PF200EXL IN2800SPCK DTC-N300EXL DTC-3000EXL	
		46										
		19	22	24								44
		27	30	32								50
		36	41									58
4400RCK	440RCK	46	50				66	20	100	22	IN4400LCK IN4400SPCK	
		55	60									80
		27	30	32								57
		36										62
		41										62
		46	50									70
		55										80
7000RCK	700RCK	36					65	25	125	30	IN5600-7000LCK DTC-PF400EXL DTC-5000EXL DTC-N500EXL	
		41										65
		46										65
		55										72
		60										80
10000RCK	1000RCK	41					72	30	130	34	IN8500-10000LCK DTC-PF800EXL DTC-10000EXL DTC-N1000EXL	
		46										75
		55										80
		60										80
		60										80
14000RCK	1500RCK	41					75	30	160	38	IN14000LCK	
		46										75
		50										80
		55										80
		60										90
		65										90

HCK hex drive heads

Unit : mm

Old Model	New Model	Size (W)	L1	φD1	Size (H)	Applicable torque wrench
230HCK	25HCK	2.5			19	IN60-230LCK DTC-P80EXL IN60-250SPCK DTC-N5EXL DTC-50EXL DTC-100EXL DTC-P40EXL N25GCK
		3			22	
		4			25	
		5			30	
		6			35	
		8			40	
		8			47	
450HCK	50HCK	4			20	IN450LCK DTC-N50EXL IN450-500SPCK 500GCK DTC-500EXL N50GCK DTC-P400EXL DLF-N50-UC
		5			30	
		6			35	
		8			40	
		10			45	
900HCK	100HCK	6			35	IN900LCK 1000GCK IN900-1000SPCK N100GCK DTC-1000EXL 1400GCK DTC-P800EXL N140GCK DTC-N100EXL DLF-N100-UC
		8			40	
		10			45	
		12			51	
		14			63	
1800HCK	200HCK	8			40	IN1800LCK DTC-PF100EXL IN1800-2000SPCK DTC-N200EXL DTC-2000EXL
		10			45	
		12			51	
		14			63	
		17			72	
2800HCK	280HCK	12			51	IN2800LCK, SPCK DTC-PF200EXL DTC-3000EXL DTC-N300EXL
		14			63	
		17			71	
		17			71	
		19			80	

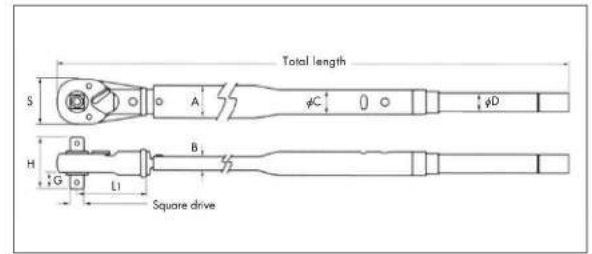
* is the new model that is applied from 1st January, 2016.

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



Model (kgf·m)	Range	Increment	Old Model (N·m)	New Model (N·m)	Range	Increment	Square drive	Total length	Dimensions (mm)								Weight	Standard Accessory
									Head				Body					
	kgf·m				N·m		mm	mm	S	G	H	L1	A	B	φC	φD	kg	
7000QLK-LR	10~70	0.5	N7000QLK-LR	N700QLK-LR	100~700	5	19.05 (3/4")	1,314	68	20	70	125	49	20	35.4	27.2	6.2	Torque adjusting box wrench
8500QLK-LR	10~85		N8500QLK-LR	N850QLK-LR	100~850		25.4 (1")	1,388	76	27	85	168	54	23	42.7	31.8	8.5	
10000QLK-LR	10~100		N10000QLK-LR	N1000QLK-LR	100~1000		1,538											



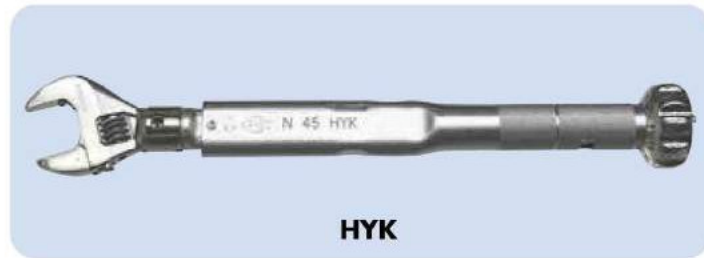
Old Model (Replaceable Head)	New Model (Replaceable Head)	Square drive	Applicable torque wrench
7000QCK-LR	700QCK-LR	19.05 (3/4")	(N)5600~7000LCK
10000QCK-LR	1000QCK-LR	25.4 (1")	(N)8500~10000LCK

HYK ADJUSTABLE WRENCH HEADS, ADJUSTABLE TORQUE WRENCHES

Built-in "no play" worm screw

FEATURES

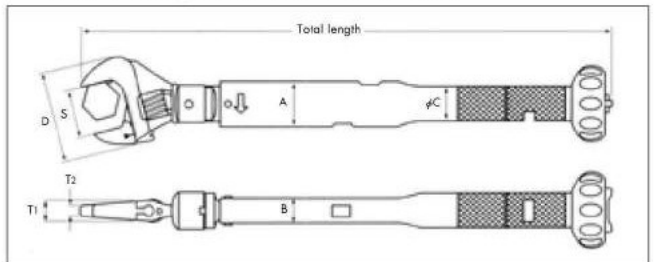
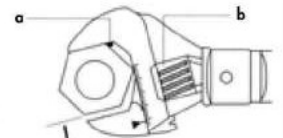
- Since the head can be taken off and reversed, the wrench can be used in confined spaces (in as small as a 30 degree turn) previously inaccessible to even other adjustable wrenches. (Tightening to a torque setting can only be done in the direction of the arrow.)
- There is hardly any play in the worm 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



USING AN HYK

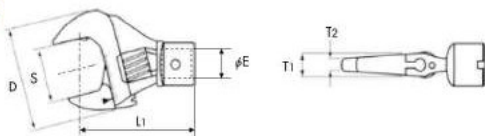
Setting the opening

- (1) Slide the jaws onto the fastener until it contacts the spring pin. (a)
- (2) Tighten the adjusting worm screw so the jaws grip the fastener. (b)
- (3) Loosen the adjusting worm screw just enough to allow removing the wrench from the fastener. (c)



Model (kgf·cm)	Range	Increment	Model (N·m)	Range	Increment	Total length	Opening Size (mm)	Dimensions (mm)						Weight
								Head			Body			
	kgf·cm			N·m		mm	S	D	T1	T2	A	B	φC	g
450HYK	100~450	5	N45HYK	10~45	0.5	285	10~25	48	10	5.5	25	11.4	20	460
900HYK	200~900	10	N90HYK	20~90	1	386	10~30	58	12	6.0	27.5	12.4	21.7	740
1800HYK	400~1800	20	N180HYK	40~180	2	518	17~38	66	12.5	6.5	34	15.4	27.2	1,420

MCK



Model (Replaceable Head)	Opening Size (mm)	Dimensions (mm)					Applicable torque wrench
	S	D	φE	L1	T1	T2	
45MCK	10~25	48	12	57	10	5.5	(N)450LCK, (N)450-500SPCK, 500GCK, DTC-300EXL, DTC-PA00EXL, DTC-N50EXL, N50GCK
90MCK	10~30	58	15	65	12	6	(N)900LCK, (N)900-1000SPCK, DTC-1000EXL, N1000GCK, DTC-PA000EXL, DTC-N1000EXL, 1000GCK, N1000GCK
180MCK	17~38	66	18	80	13	6.5	(N)1800LCK, (N)1800-2000SPCK, DTC-N2000EXL, DTC-2000EXL, DTC-PT1000EXL, N500GCK

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

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)



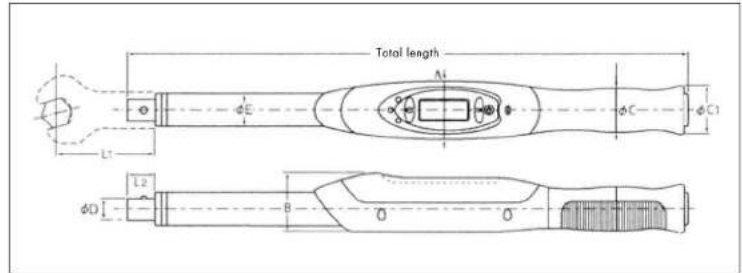
SCK
(Open End head)



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.
- ±2% + 1 digit guaranteed accuracy (±3% + 1 digit for DLT-N50-UC).

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 data in the data calling mode; sets calendar and clock.
- ⑤ DOWN key: Sets tightening torque in the preset mode; searches a particular data in the data calling mode; sets calendar and clock.
- ⑥ LED: Flashes to indicate that the preset torque is soon to be reached; an intermittent 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 mm	Dimensions (mm)					Weight kg	Accessory			
				Head			Body						
				φD1	L1	L2	A	B	φC	φC1	φE		
DLT-N50-UC	10.00~50.00 N·m	0.01 N·m	411	12	55	15	47	47	37	40	27.2	0.8	450QCK
	7.38~36.87 ft·lb	0.01 ft·lb											
	88.5~442.5 in·lb	0.1 in·lb											
	102.0~509.8 kgf·cm	0.1 kgf·cm											
DLT-N100-UC	20.0~100.0 N·m	0.1 N·m	413	15	65	17	47	47	37	40	27.2	0.9	900QCK
	14.8~73.8 ft·lb	0.1 ft·lb											
	177~885 in·lb	1 in·lb											
	2.04~10.19 kgf·m	0.01 kgf·m											
DLT-N200-UC	40.0~200.0 N·m	0.1 N·m	457	18	80	22	47	47	37	40	27.2	1	1800QCK
	29.6~147.5 ft·lb	0.1 ft·lb											
	354~1770 in·lb	1 in·lb											
	4.08~20.38 kgf·m	0.01 kgf·m											

[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
±2% + 1 digit (±3% + 1 digit for DLT-N50)	999 data	RUN, PA, PC	LED and buzzer	CW/CCW auto switching	Ni-MH rechargeable batteries, size AA, 1.2V; 2 pieces	Approx. 20 hours with fully charged batteries (continuous use)	Max 5 hours. (approx.) for discharge and charge	After 60 seconds	USB terminal (for Windows) for data outputting and battery charging	+5~+35°C

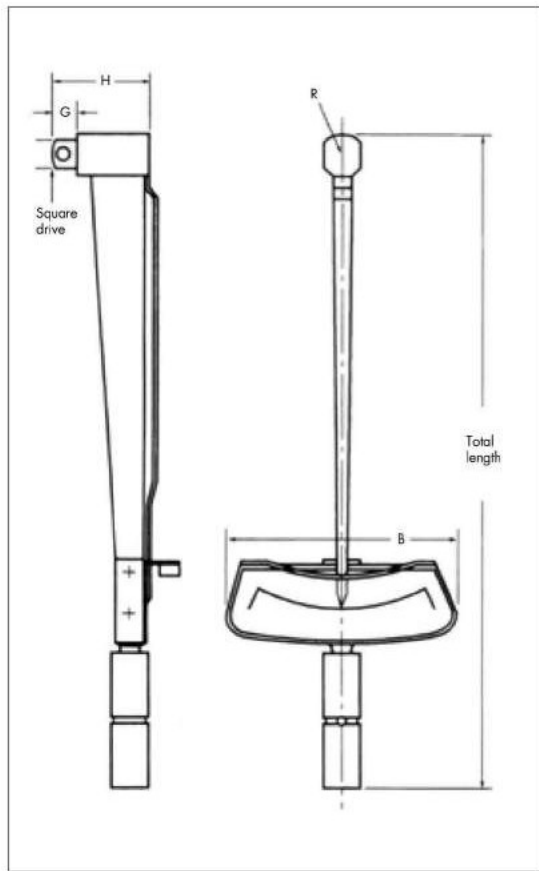
RUN : Current load value is shown continuously PA : The first peak value is detected and held. PC : Peak-to-peak and auto start

FK 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



FK

Model (kgf·cm)	Range (CW/CCW) kgf·cm	Increment	Old Model (N·m)	New Model (N·m)	Range (CW/CCW) cN·m/N·m	Increment	Sq. drive mm	Total length mm	Dimensions (mm)				Weight kg	
									Head			Body B		
									H	G	R			
4FK	1~4	0.2	N4FK	CN40FK	10~40 cN·m	2 cN·m	6.35 (1/4")	110	26	7.5	5	75	54	0.05
7FK	1~7	0.2	N7FK	CN70FK	10~70 "	2 "		132					0.05	
15FK	5~15	0.5	N15FK	CN150FK	50~150 "	5 "		140					0.08	
30FK	10~30	1	N30FK	N3FK	1~3 N·m	0.1 N·m		170					32	0.1
60FK	10~60	2	N60FK	N6FK	1~6 "	0.2 "	190	36.5	0.22					
120FK	20~120	5	N120FK	N12FK	2~12 "	0.5 "	237	43.5	0.25					
230FK	30~230	5	N230FK	N23FK	3~23 "	0.5 "	9.53 (3/8")	290	42	11	9	106	0.3	
450FK	50~450	10	N450FK	N45FK	5~45 "	1 "	320	0.34						
900FK	100~900	20	N900FK	N90FK	10~90 "	2 "	12.7 (1/2")	388	58	14	12.5	114	1.1	
1300FK	200~1,300	20	N1300FK	N130FK	20~130 "	2 "		441					1.2	
1800FK	300~1,800	50	N1800FK	N180FK	30~180 "	5 "		487					1.3	
2800FK	500~2,800	50	N2800FK	N280FK	50~280 "	5 "	19.05 (3/4")	587	82	20	15	124	2.6	
4200FK	700~4,200	100	N4200FK	N420FK	70~420 "	10 "		853					3.5	
5600FK	1,000~5,600	100	N5600FK	N560FK	100~560 "	10 "		946					4.4	
7000FK	1,000~7,000	100	N7000FK	N700FK	100~700 "	10 "		1,172					6.7	
8500FK	1,500~8,500	200	N8500FK	N850FK	150~850 "	20 "	25.4 (1")	1,387	76.5	27	37	241	8.0	
10000FK	2,000~10,000	200	N10000FK	N1000FK	200~1,000 "	20 "		1,578					13.3	
15000FK	3,000~15,000	200	N15000FK	N1500FK	300~1,500 "	20 "		1,973					17.0	

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