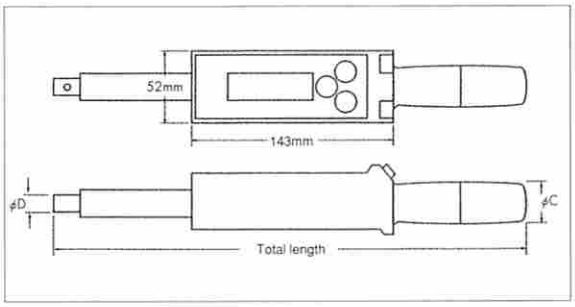
INDEX

DTC-EXL DATA PRINT-OUT DIGITAL TORQUE WRENCHES

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

FEATURES

- Accuracy : ±1% of indicated value +1 increment, over the full range
- Display : torque reading 4-digit LCD display
- Measurement modes : ①Peak hold ②Peak 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 (mid point) to 2.048 V >>



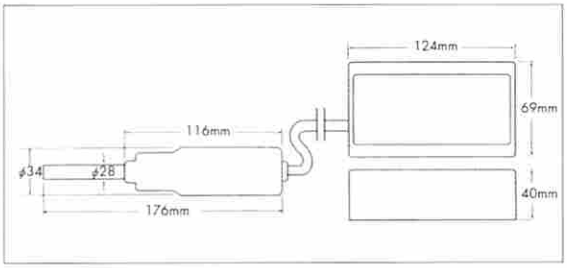
Model	Range (CW/CCW)	Increment	Total length (mm)	ϕ D (mm)	ϕ C (mm)	Weight (kg)	Accessory
DTC-100EXL	10~100 kgf·cm	0.1 kgf·cm	300	10	26	0.7	120 QCK
DTC-500EXL	50~500 kgf·cm	0.5 kgf·cm	324	12	26	0.7	450 QCK
DTC-1000EXL	100~1000 kgf·cm	1 kgf·cm	365	15	32	0.8	900 QCK
DTC-2000EXL	200~2000 kgf·cm	1 kgf·cm	380	18	32	0.9	1800 QCK
DTC-3000EXL	3~30 kgf·m	0.02 kgf·m	535	22	32	1.5	2800 QCK
DTC-5000EXL	5~50 kgf·m	0.05 kgf·m	1,063	30	34	3.9	7000 QCK
DTC-10000EXL	10~100 kgf·m	0.1 kgf·m	1,417	34	34	7.3	10000 QCK
DTC-N10EXL	1~10 N·m	0.01 N·m	300	10	26	0.7	120 QCK
DTC-N50EXL	5~50 N·m	0.05 N·m	324	12	26	0.7	450 QCK
DTC-N100EXL	10~100 N·m	0.1 N·m	365	15	32	0.8	900 QCK
DTC-N200EXL	20~200 N·m	0.1 N·m	380	18	32	0.9	1800 QCK
DTC-N300EXL	30~300 N·m	0.2 N·m	535	22	32	1.5	2800 QCK
DTC-N500EXL	50~500 N·m	0.5 N·m	1,063	30	34	3.9	7000 QCK
DTC-N1000EXL	100~1000 N·m	1 N·m	1,417	34	34	7.3	10000 QCK
DTC-PI80EXL	8~80 lbf.in	0.01 lbf.in	300	10	26	0.7	120 QCK
DTC-PI400EXL	40~400 lbf.in	0.1 lbf.in	324	12	26	0.7	450 QCK
DTC-PI800EXL	80~800 lbf.in	0.1 lbf.in	365	15	32	0.8	900 QCK
DTC-PF100EXL	10~100 lbf.ft	0.1 lbf.ft	380	18	32	0.9	1800 QCK
DTC-PF200EXL	20~200 lbf.ft	0.1 lbf.ft	535	22	32	1.5	2800 QCK
DTC-PF400EXL	40~400 lbf.ft	0.2 lbf.ft	1,063	30	34	3.9	7000 QCK
DTC-PF800EXL	80~800 lbf.ft	1 lbf.ft	1,417	34	34	7.3	10000 QCK

DTDK-EXL DIGITAL TORQUE DRIVER WITH CONNECTED DISPLAY

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

FEATURES

- Accuracy : ±1% of indicated value +1 increment, over the full range
- Display : torque reading 4-digit LCD display
- Measurement modes : ①Peak hold ②Peak 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 (mid point) to 2.048 V >>



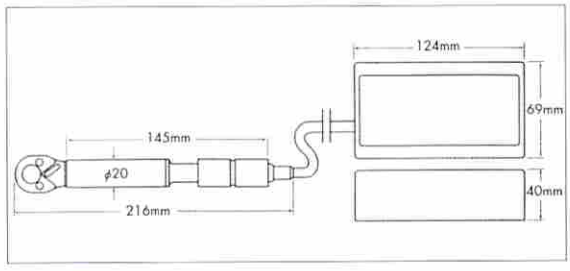
Model	Range (CW/CCW)	Increment	Weight (kg)
DTDK-20EXL	2~20 kgf·cm	0.01 kgf·cm	0.6
DTDK-50EXL	5~50 kgf·cm	0.05 kgf·cm	0.6
DTDK-N2EXL	20~200 cN·m	0.1 cN·m	0.6
DTDK-N5EXL	50~500 cN·m	0.5 cN·m	0.6
DTDK-PI40EXL	4~40 lbf.in	0.01 lbf.in	0.6

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 : ±1% of indicated value +1 increment, over the full range
- Display : torque reading 4-digit LCD display
- Measurement modes : ①Peak hold ②Peak 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 (mid point) to 2.048 V >>



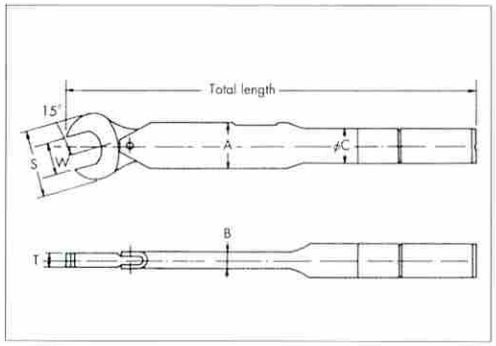
Model	Range (CW/CCW)	Increment	Weight (kg)
DTC-50EXL	5~50 kgf·cm	0.05 kgf·cm	0.5
DTC-N5EXL	50~500 cN·m	0.5 cN·m	0.5
DTC-PI40EXL	4~40 lbf.in	0.01 lbf.in	0.5

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 indicatar, but can be used for general tightening in the other direction as well.
- Accuracy : ±3% of pre-set value



USING AN SPK WRENCH

With the wrench head completely engaging the fastener, and your grip centered on the groove in the wrench handle, pull the wrench in the direction indicated by the arrow on the wrench.
When the pre-set torque is reached, there will be an audible and tangible "click" and for a split second the wrench will suddenly require less force to pull.
Continuing to pull the wrench further will add torque over the setting.

EXAMPLE OF ORDER

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

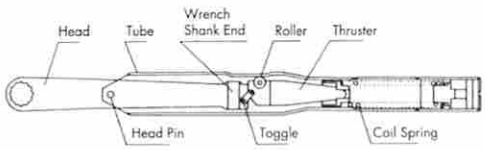
SPK Model	Range kgf·cm	N-SPK Model	Range N·m	Available sizes (W) mm	Total length mm	Dimensions (mm) Head S	Head T	Body A	Body B	Body C	Weight kg
30SPK	5~30	N30SPK	0.5~3	5.5 6 7 8 9 10	152	24	5	19.5	7.5	15	0.1
80SPK	15~80	N80SPK	1.5~8	5.5 6 7 8 9 10 11 12	175	24	5	19.5	7.5	15	0.11
190SPK	35~190	N190SPK	3.5~19	10 11	203	27	7	19.5	7.5	15	0.15
				12 13 14	205	30					
				17 19	213	35					
380SPK	80~380	N380SPK	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	9				
670SPK	130~670	N670SPK	13~67	14 17 19 21	319	45	10	25.8	9.7	20	0.45
				22 24 26	325	50	11				0.46
				27 30 32	330	56					0.47
				36 41	342	65					0.49
1200SPK	240~1,200	N1200SPK	24~120	17 19 22	390	52	12	32.8	11.3	25	0.75
				24 26 27	397	57					0.77
				29 30 32	403	62					0.79
				36 41	410	71					0.81
1600SPK	300~1,600	N1600SPK	30~160	19	436	53	13	32.8	11.3	25	0.94
				22 24 26	440	56	14				0.97
				27 30 32	449	64					0.99
				36 41	457	73					1.1
2200SPK	450~2,200	N2200SPK	45~220	19 22	573	60	15	35.6	12.5	27.2	1.1
				24 27	579	65					1.2
				30 32 36	585	72					1.4
				41	597	82					1.5
3100SPK	650~3,100	N3100SPK	65~310	22 24	650	67	16	38.0	16	30	1.3
				27 30 32	654	72					1.32
				36 41	662	82					1.4
4200SPK	900~4,200	N4200SPK	90~420	24 27	833	74	18	43.3	17.8	34	1.45
				30 32	838	78					1.46
				36	843	82					1.47
				41	847	88					1.5
				46	860	94					1.52

RSPK PRE-SET, RING TORQUE WRENCHES

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

FEATURES

- Suited for joints not accessible with other wrenches
- 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



USING AN RSPK WRENCH

The ring head of RSPK wrenches is offset at a 45° angle making certain joints particularly accessible. With the wrench head completely engaging the fastener, pull the wrench handle in the direction indicated by the arrow on the wrench. When the pre-set torque is reached, there will be an audible and tangible "click" and for a split second the wrench will suddenly require less force to pull. Continuing to pull the wrench further will add torque over the setting. The inner mechanism is automatically reset when the wrench is disengaged from the fastener to go on to the next job.

★1

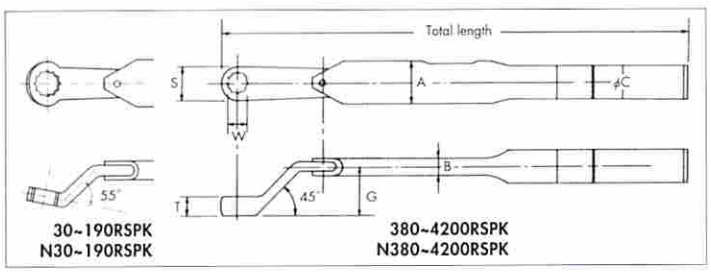
Model	Available sizes (W)	Dimensions Head	
	mm	S	T
30RSPK N30RSPK	5.5	10	4
	6		5
	7		6
	8	13	
	9	14	7
	10	16	

★2

Model	Available sizes (W)	Dimensions Head	
	mm	S	T
80RSPK N80RSPK	5.5	10	4
	6		5
	7		6
	8	13	
	9	14	7
	10	16	
	11	18	
	12	19	8

★3

Model	Available sizes (W)	Dimensions Head	
	mm	S	T
190RSPK N190RSPK	10	16	7
	11	18	
	12	19	8
	13	20	8.5
	14	22	9
	17	26	10
	19	29	10.5
	22	33	12



RSPK Model	Range kgf·cm	N-RSPK Model	Range N·m	Available sizes (W) mm	Total length mm	Dimensions (mm) Head S	Head T	Body G	Body A	Body B	Body C	Weight kg
30RSPK	5~35	N30RSPK	0.5~3.5	5.5 6 7 8 9 10	175	★1			19.5	7.5	15	0.12
80RSPK	20~90	N80RSPK	2~9	5.5 6 7 8 9 10 11 12	197	★2			19.5	7.5	15	0.13
190RSPK	40~210	N190RSPK	4~21	10	222	★3			19.5	7.5	15	0.21
				11 12 13 14	225							0.21
				17 19 22	228							0.23
380RSPK	90~420	N380RSPK	9~42	11 12 13 14	268	22	10	25	26.6	8.2	20	0.31
				17 19 22	273	32						0.39
670RSPK	140~730	N670RSPK	14~73	14 17	343	26	12	27	25.8	9.7	20	0.46
				19 22 24	348	34						0.48
				27 30 32	353	40						0.5
1200RSPK	250~1,270	N1200RSPK	25~127	19	413	32	13	29	32.8	11.3	25	0.8
				22 24	415	37						0.85
				27 30 32	428	44						0.9
				36	437	50						
1600RSPK	320~1,700	N1600RSPK	32~170	19 22 24	470	37	15	31	32.8	11.3	25	1.0
				27 30 32	474	44						1.2
2200RSPK	480~2,300	N2200RSPK	48~230	19	605	37	16.5	33	35.6	12.5	27.2	1.25
				22 24 27	608	41						1.3
				30 32	610	46						1.35
				36	612	50						1.4
				41		54						1.45
3100RSPK	680~3,200	N3100RSPK	68~320	22	682	40	18	35	38	16	30	1.35
				24 27 30	685	46						1.4
				32 36	688	52						1.45
				41		56						1.5
4200RSPK	950~4,300	N4200RSPK	95~430	27 30 32	880	52		37	43.3	17.8	34	1.55
				36	885	55						1.6
				41	890	60						1.65
				46	895	65						1.7

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)

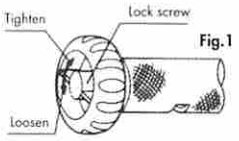


Fig.1

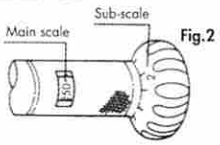


Fig.2

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)

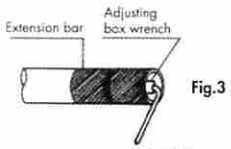


Fig.3

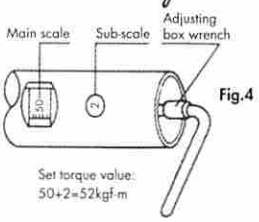
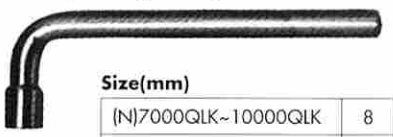


Fig.4

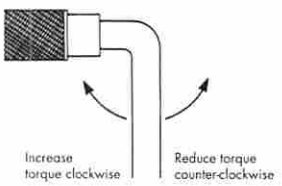
Set torque value: 50+2=52kgf·m

★ Torque adjusting box wrench

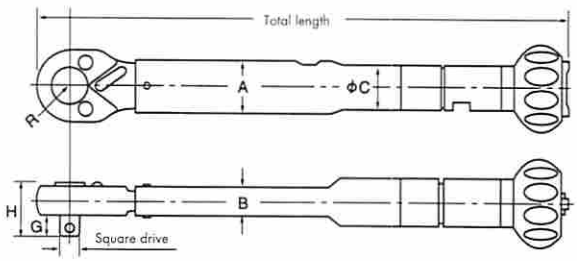


Size(mm)

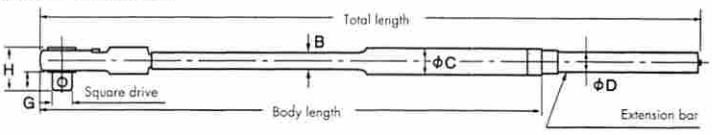
(N)7000QLK~10000QLK	8
(N)14000QLK~21000QLK	10

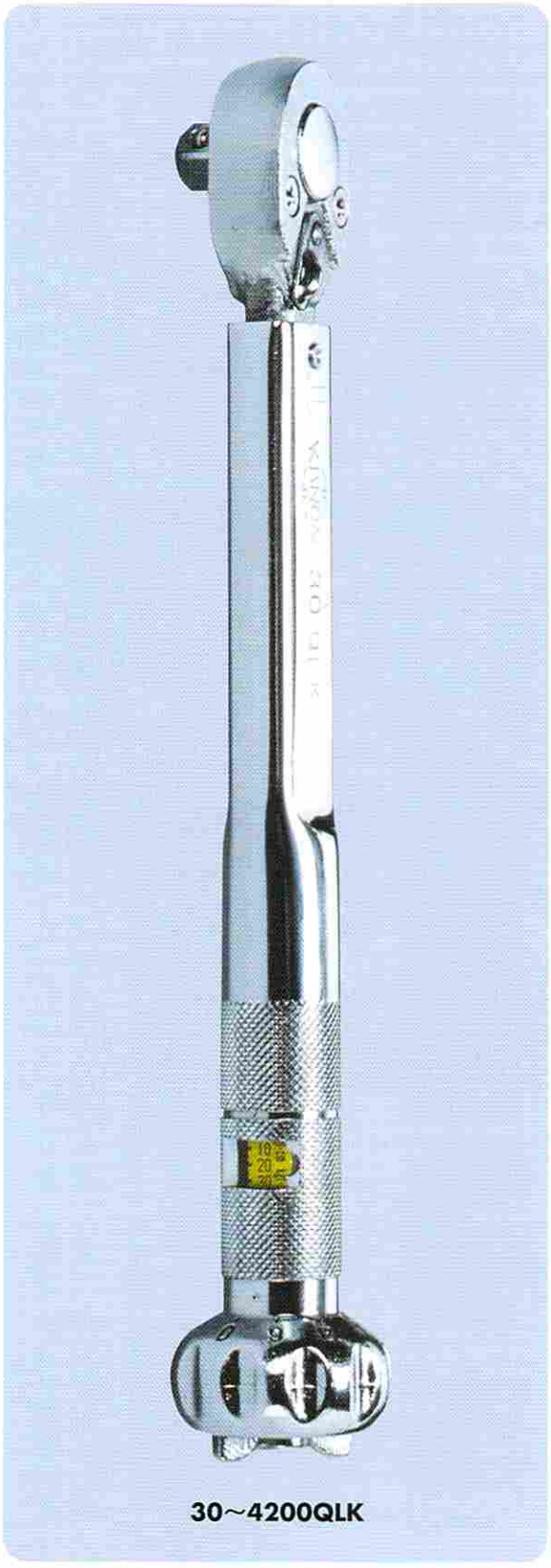


30~5600QLK



7000~21000QLK





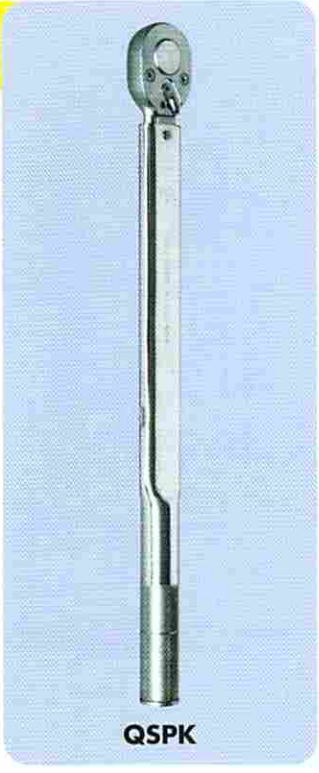
30~4200QLK

Model QLK	Range kgf·cm/kgf·m	Increment kgf·cm/kgf·m	Model N-QLK	Range cN·m/N·m	Increment cN·m/N·m	Model PI-QLK	Range lbf·in	Increment lbf·in	Square drive mm	Total length mm	Dimensions (mm) Head H	Head G	Head R	Body A	Body B	Body C	Body D	Body length	Weight kg	Standard Accessory
30QLK	10~30kgf·cm	0.5 kgf·cm	N30QLK	100~300 cN·m	5 cN·m				6.35 (1/4")	186	18.8	7.5	12						0.18	
60QLK	20~60 -	1 -	N60QLK	2~6 N·m	0.1 N·m															
120QLK	40~120 -	2 -	N120QLK	4~12 -	0.2 -	PI 120QLK	40~120	2						18.2	9.6	15				
230QLK	70~230 -	2 -	N230QLK	7~23 -	0.2 -	PI 230QLK	70~230	2	9.53 (3/8")	231.5	25	11	15.5						0.27	
250QLK	50~250 -	2 -	N250QLK	5~25 -	0.2 -					240									0.29	
450QLK	100~450 -	5 -	N450QLK	10~45 -	0.5 -	PI 450QLK	100~450	5		253.5			16	25	11.4	20			0.45	
500QLK	100~500 -	5 -	N500QLK	10~50 -	0.5 -															
900QLK	200~900 -	10 -	N900QLK	20~90 -	1 -															
1000QLK	200~1000 -	10 -	N1000QLK	20~100 -	1 -	PI 1000QLK	200~1000	10	12.7 (1/2")	352	31	14	19.5	27.5	12.4	21.7			0.69	
1400QLK	400~1400 -	10 -	N1400QLK	40~140 -	1 -					392										
1800QLK	400~1800 -	20 -	N1800QLK	40~180 -	2 -					478	33		23	34	15.4	27.2			1.45	
2000QLK	400~2000 -	20 -	N2000QLK	40~200 -	2 -	PI 2000QLK	400~2000	20												
2800QLK	4~28kgf·m	0.2 kgf·m	N2800QLK	40~280 -	2 -				19.05 (3/4")	678	42	20	23.5	35					1.9	
4200QLK	6~42 -	0.2 -	N4200QLK	60~420 -	2 -					950	42.7		27	38	16	30			3.3	
5600QLK	8~56 -	0.3 -	N5600QLK	80~560 -	3 -					1,195	49.5		34	43.5	18	34			5	
7000QLK	10~70 -	0.5 -	N7000QLK	100~700 -	5 -					1,314				46	19.2	35.4	27.2	990	6.2	
8500QLK	10~85 -	0.5 -	N8500QLK	100~850 -	5 -				25.4 (1")	1,388	58	27	38	54	23	42.7	31.8	1,105	8.5	Torque adjusting box wrench
10000QLK	10~100 -	0.5 -	N10000QLK	100~1000 -	5 -					1,538									9.8	
14000QLK	20~140 -	1 -	N14000QLK	200~1400 -	10 -					1,844	61		44	66	26	51	40	1,144	14	
15000QLK	20~150 -	1 -	N15000QLK	200~1500 -	10 -															
21000QLK	70~210 -	1 -	N21000QLK	700~2100 -	10 -					2,064							34	1,704	19.5	

QSPK

PRE-SET, RATCHET TORQUE WRENCHES

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



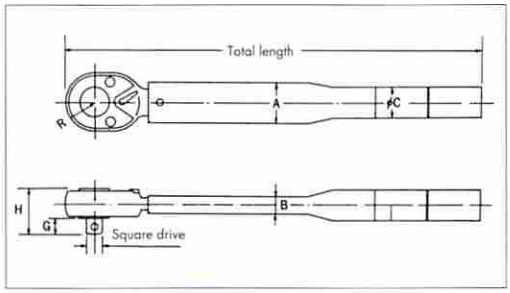
FEATURES

- 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 : ±3% of set value.

EXAMPLE OF ORDER

Model Pre-set Value

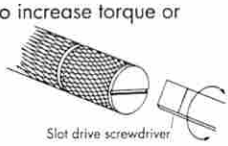
N900QSPK × 72N·m

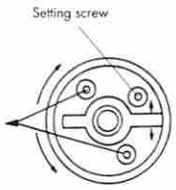


RE-SETTING THE PRE-SET TORQUE

(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.





★ **Adjusting tools**

(4) Tighten the setting screw with a hex wrench.
(5) Screw on the screws cap and tighten it.

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

* Adjusting tool is option.

Model QSPK	Range kgf·cm	Model N-QSPK	Range N·m	Model PI·PF-QSPK	Range lbf·in/lbf·ft	Square drive mm	Total length mm	Dimensions (mm) Head H	Head G	Head R	Body A	Body B	Body C	Weight kg
60QSPK	20~60	N 60QSPK	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	N 120QSPK	4~12	PI 120QSPK	40~120 -									
230QSPK	70~230	N 230QSPK	7~23	PI 230QSPK	70~230 -	9.53 (3/8")	220	25	12	16				0.25
250QSPK	70~250	N 250QSPK	7~25		-									
450QSPK	100~450	N 450QSPK	10~45	PI 450QSPK	100~450 -		240				25	11.4	20	0.38
500QSPK	100~500	N 500QSPK	10~50		-									
900QSPK	200~900	N 900QSPK	20~90	PI 900QSPK	200~900 -	12.7 (1/2")	340	31	14	19.5	27.5	12.4	21.7	0.64
1000QSPK	200~1000	N 1000QSPK	20~100		-									
1400QSPK	400~1400	N 1400QSPK	40~140	PI 1400QSPK	400~1400 -		380							0.7
1800QSPK	400~1800	N 1800QSPK	40~180	PI 1800QSPK	400~1800 -		463.5	33		23	34	15.4	27.2	1.35
2000QSPK	400~2000	N 2000QSPK	40~200		-									
2800QSPK	600~2800	N 2800QSPK	60~280	PI 2800QSPK	600~2800 -	19.05 (3/4")	664	42	20	23	34	15.4	27.2	2.0
4200QSPK	600~4200	N 4200QSPK	60~420	PF 4200QSPK	110~300 lbf·ft		980	49.5		34	43.5	18	34	4.3

SPCK PRE-SET, REPLACEABLE HEAD TORQUE WRENCHES

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

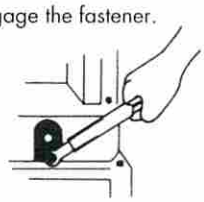
FEATURES

- 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 : ±3% of pre-set value

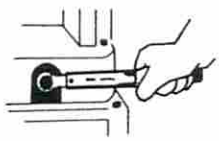
USING AN SPCK

(1) Mount the head on the drive.

(2) Engage the fastener.

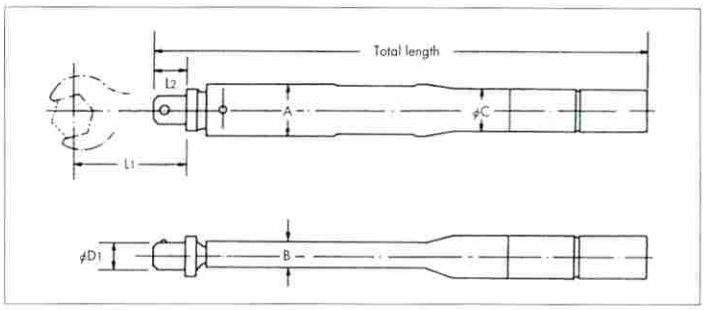


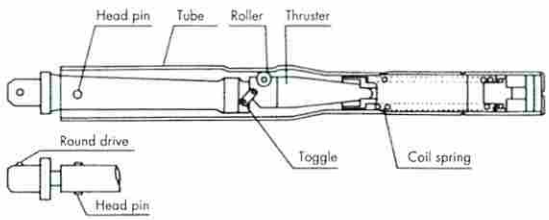
(3) Pull the wrench in the direction indicated by the arrow.



(4) Stop tightening when the wrench "clicks" and is suddenly easier to pull

(5) The job is done. Continuing to pull the wrench further will add torque over the setting.





SPCK Model	Range	N-SPCK Model	Range	Total length	Dimensions (mm)						Weight	Replaceable heads
					Head			Body				
	kgf·cm		N·m	mm	φD1	L1	L2	A	B	φC	kg	
60SPCK	20~60	N60SPCK	2~6	161	10	45	13	18.2	9.6	15	0.15	120QCK,230 { SCK, RCK HCK
120SPCK	40~120	N120SPCK	4~12									
230SPCK	70~230	N230SPCK	7~23	196							0.19	230 (QCK, SCK, RCK, HCK)
250SPCK	70~250	N250SPCK	7~25									
450SPCK	100~450	N450SPCK	10~45	220	12	55	16	25	11.4	20	0.27	450 (QCK, SCK, RCK, HCK)
500SPCK	100~500	N500SPCK	10~50									
900SPCK	200~900	N900SPCK	20~90	312	15	65	18	27.5	12.4	21.7	0.57	900 (QCK, SCK, RCK, HCK)
1000SPCK	200~1,000	N1000SPCK	20~100									
1800SPCK	400~1,800	N1800SPCK	40~180	428	18	80	22	34	15.4	27.2	0.92	1800 (QCK, SCK, RCK, HCK)
2000SPCK	400~2,000	N2000SPCK	40~200									
2800SPCK	600~2,800	N2800SPCK	60~280	590	22	100	27	38	16	30	1.7	2800 (QCK, SCK, RCK, HCK)
4400SPCK	600~4,400	N4400SPCK	60~440	893				39			2.6	4400 (QCK, SCK, RCK)

Optional Replaceable Heads (Refer to the page 12)

SCK (Open End head)

RCK (Ring head)

QCK (Ratchet head)

HCK (Hex drive head)

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

ADJUSTING THE TORQUE

■ 60LCK~5600LCK

(1) Loosen the lock screw. (See Fig.1)
(2) Turn the sub-scale and adjust to a torque value.
(the main scale plus the subscale) (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)

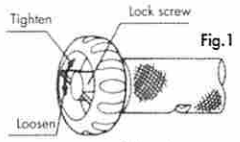


Fig.1

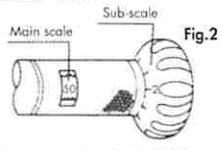


Fig.2

Set torque value: 50+2=52kgf·m

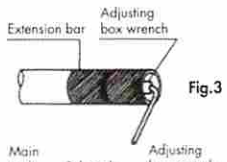


Fig.3

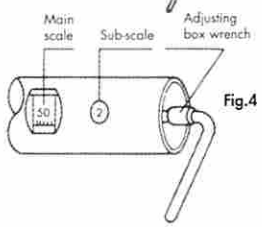


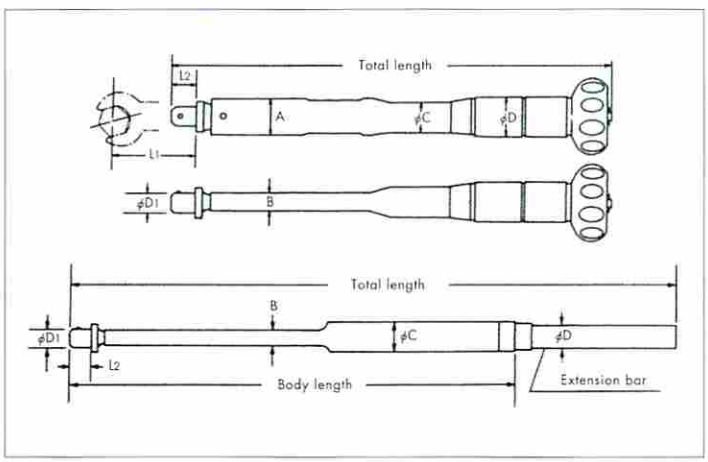
Fig.4

Set torque value: 50+2=52kgf·m

■ 7000LCK~14000LCK

(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 end of the adjusting box wrench.
- Without the extension bar (See Fig.4), insert the hexagonal end of the adjusting box wrench into the body.

(3) Turn the adjusting box wrench to set the torque value.
(Add the sub-scale to the main scale.)




LCK

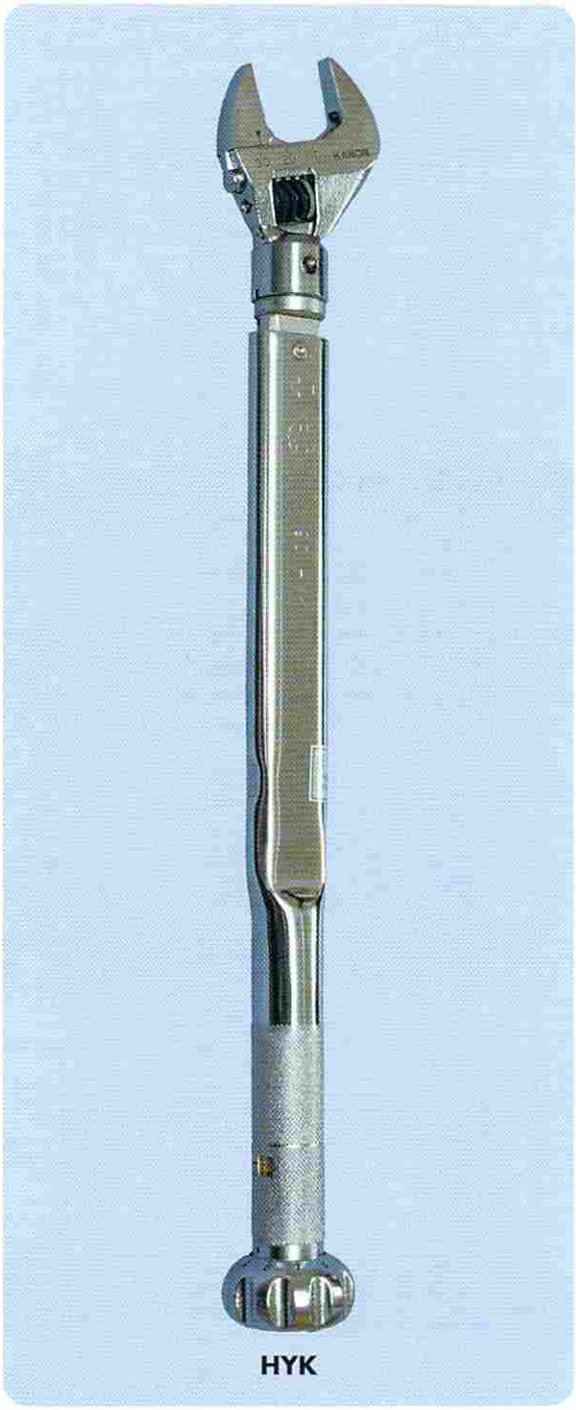
LCK Model	Range	Increment	N-LCK Model	Range	Increment	Total length	Dimensions (mm)								Weight	Replaceable heads
							Head			Body				Body length		
	kgf·cm/kgf·m	kgf·cm/kgf·m		N·m	N·m	mm	φD1	L1	L2	A	B	C	D		kg	
60LCK	20~60 kgf·cm	1 kgf·cm	N60LCK	2~6	0.1	173	10	45	13	18.2	9.6	15			0.17	120QCK,230 { SCK, RCK HCK
120LCK	40~120 "	2 "	N120LCK	4~12	0.2											
230LCK	70~230 "	2 "	N230LCK	7~23	0.2	208									0.2	230 (QCK, SCK, RCK, HCK)
450LCK	100~450 "	5 "	N450LCK	10~45	0.5	232	12	55	16	25	11.4	20			0.36	450 (QCK, SCK, RCK, HCK)
900LCK	200~900 "	10 "	N900LCK	20~90	1	325	15	65	18	27.5	12.4	21.7			0.59	900 (QCK, SCK, RCK, HCK)
1800LCK	400~1,800 "	20 "	N1800LCK	40~180	2	443	18	80	22	34	15.4	27.2			1.3	1800 (QCK, SCK, RCK, HCK)
2800LCK	4~28 kgf·m	0.2 kgf·m	N2800LCK	40~280	2	648	22	100	27	35					1.8	2800 (QCK, SCK, RCK, HCK)
4400LCK	6~44 "	0.2 "	N4400LCK	60~440	2	908				39	16	30			2.8	4400 (QCK, SCK, RCK)
5600LCK	8~56 "	0.3 "	N5600LCK	80~560	3	1086	30	125	45	43.5	18	34			4.9	7000 (QCK, SCK, RCK)
7000LCK	10~70 "	0.5 "	N7000LCK	100~700	5	1206				46	19.2	35.4	27.2	876	4.9	
8500LCK	10~85 "	0.5 "	N8500LCK	100~850	5	1267	34	130	47	54	23	42.7	31.8	984	7.2	10000 (QCK, SCK, RCK)
10000LCK	10~100 "	0.5 "	N10000LCK	100~1000	5	1417									7.5	
14000LCK	20~140 "	1 "	N14000LCK	200~1400	10	1700	38	160	60	66	26	51	40	1003	13.5	14000 (QCK, SCK, RCK)

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 : ±4% of indicated value over the full range



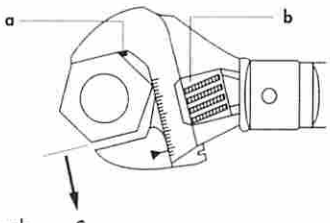
USING AN HYK

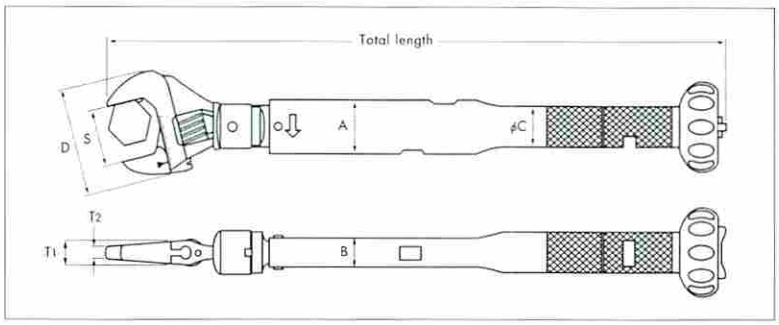
■ Setting the opening

(1) Slide the jaws onto the fastener until it contacts the spring pin. (a)

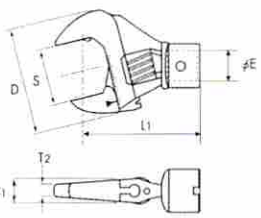
(2) Tighten the adjusting worm screw so the jaws grip the fastener. (b)

(3) Loosen the adjusting worm screw just enough to allow removing the wrench from the fastener. (c)





■ MCK



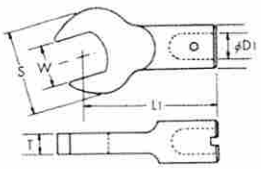
MCK Model	Opening Size (mm)	Dimensions (mm)				
	S	D	ϕE	L1	T1	T2
45MCK	10~25	48	12	57	10	5.5
90MCK	10~30	58	15	65	12	6
1800MCK	17~38	66	18	80	13	6.5

HYK Model	Range	Increment	N-HYK Model	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

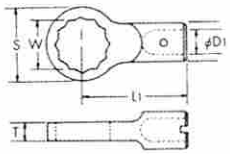
HEADS

OPTIONAL REPLACEABLE HEADS

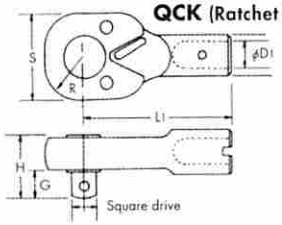
SCK (Open End head)

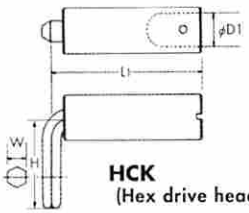


RCK (Ring head)



QCK (Ratchet head)





HCK
(Hex drive head)

SCK open end heads

Unit : mm

SCK Model	Size (W)					S	T	L1	φD1	Applicable torque wrench
230SCK	7	8	9	10		29	7	45	10	(N)60-230LCK DTC-PI40EXL (N)60-250SPCK DTC-PI80EXL (N)250FCK DTC-N5EXL DTC-50EXL DTC-N10EXL DTC-100EXL
	11									
	12	13	14	15	16	32				
	17	19	21	22		39	8			
	24					45				
450SCK	8	9	10	11		32	8	55	12	(N)450LCK DTC-PI400EXL (N)450-500SPCK DTC-N50EXL (N)500FCK DTC-500EXL
	12	13	14	15	16	36				
	17	19	21	22		44	10			
	24	27				50				
900SCK	12	13	14	15		40	10	65	15	(N)900LCK DTC-PI800EXL (N)900-1000SPCK DTC-N100EXL (N)1000FCK DTC-1000EXL
	16	17	19	21	22	48	12			
	24	27	30			57				
1800SCK	17	19	21	22		56	14	80	18	(N)1800LCK DTC-PF100EXL (N)1800-2000SPCK DTC-N200EXL (N)1500FCK DTC-2000EXL
	24	27	30			64				
	32	36	41			75				
2800SCK	19					59	16	100	22	(N)2800LCK DTC-PF200EXL (N)2800SPCK DTC-N300EXL (N)2300FCK DTC-3000EXL
	21	22				61				
	24					63				
	27					67	16.5			
	30					69				
	32					71				
	36					75	18			
	41					80	20			
	46					85				
4200SCK	27					71	25	125	25	(N)4200LCK (N)4200SPCK
	30					74				
	32					76				
	36					79				
	41					84				
	46					90				
	50					94				
	55					97	28			
	60					100	30			
4400SCK	19	22	24			70	20	100	22	(N)4400LCK (N)4400SPCK
	27	30	32			78				
	36	41				84	22			
	46	50				94				
	55	60				100	25			
7000SCK	27					83	25	125	30	(N)5600-7000LCK DTC-PF400EXL DTC-5000EXL DTC-N500EXL
	30					86				
	32					88				
	36					91				
	41					95				
	46					98	28			
	50					102				
	55					105	30			
	60					110				
10000SCK	36					95	30	130	34	(N)8500-10000LCK DTC-PF800EXL DTC-10000EXL DTC-N1000EXL
	41					100				
	46					106				
	50					110				
	55					115	32			
	60					120				
14000SCK	41					110	32	160	38	(N)14000LCK
	46					115				
	50					120	35			
	55					122				
	60					127				
	65					130	38			

QCK ratchet heads

Unit : mm

QCK Model	Sq. drive	S	H	G	R	L1	φD1	Applicable torque wrench
120QCK	6.35 (1/4")	24	19	7.5	12	45	10	(N)60-230LCK DTC-PI40EXL (N)60-250SPCK DTC-PI80EXL (N)250FCK, DTC-50EXL,100EXL DTC-N5EXL DTC-N10EXL
230QCK	9.53 (3/8")	31	25	11	15.5			
450QCK		32			16	55	12	(N)450LCK, (N)450-500SPCK DTC-PI400EXL (N)500FCK, DTC-500EXL DTC-N50EXL
900QCK	12.7 (1/2")	39	31	14	19.5	65	15	(N)900LCK, (N)900-1000SPCK DTC-PI800EXL (N)1000FCK, DTC-1000EXL DTC-N100EXL
1800QCK		46	33		23	80	18	(N)1800LCK, (N)1800-2000SPCK DTC-PF100EXL (N)1500FCK, DTC-2000EXL DTC-N200EXL
2800QCK	19.05 (3/4")	52	41	20	26	100	22	(N)2800LCK, SPCK DTC-PF200EXL (N)2300FCK, DTC-3000EXL DTC-N300EXL
4200QCK		68	50		34	125	25	(N)4200LCK, (N)4200SPCK
4400QCK		54	42.5		27	100	22	(N)4400LCK, (N)4400SPCK
7000QCK		68	50		34	125	30	(N)5600LCK DTC-PF400EXL (N)7000FCK, DTC-5000EXL DTC-N500EXL
10000QCK	25.4 (1")	76	58	27	38	130	34	(N)8500LCK DTC-PF800EXL (N)10000FCK, DTC-10000EXL DTC-N1000EXL
14000QCK		87	61		43.5	160	38	(N)14000LCK

RCK ring heads

Unit : mm

RCK Model	Size (W)				S	T	L1	φD1	Applicable torque wrench
230RCK	7	8	9	10	18	8	45	10	(N)60-230LCK DTC-PI40EXL (N)60-250SPCK DTC-PI80EXL (N)250FCK DTC-N5EXL DTC-50EXL DTC-N10EXL DTC-100EXL
	11								
	12	13	14		21				
	17	19	22	24	31				
450RCK	8	10			19	10	55	12	(N)450LCK DTC-PI400EXL (N)450-500SPCK DTC-N50EXL (N)500FCK DTC-500EXL
	11	12	13	14					
	17	19	22		32				
900RCK	12	13	14		25	13	65	15	(N)900LCK DTC-PI800EXL (N)900-1000SPCK DTC-N100EXL (N)1000FCK DTC-1000EXL
	17	19	21	22	34				
	24	27	30		42				
1800RCK	17	19	22		35	15	80	18	(N)1800LCK DTC-PF100EXL (N)1800-2000SPCK DTC-N200EXL (N)1500FCK DTC-2000EXL
	24	27	30		45				
	32	36	41		58				
2800RCK	19	22	24		40	17	100	22	(N)2800LCK DTC-PF200EXL (N)2800SPCK DTC-N300EXL (N)2300FCK DTC-3000EXL
	27	30	32		47				
	36	41			63				
	46					20			
4200RCK	27	30	32		57	20	125	25	(N)4200LCK (N)4200SPCK
	36				58				
	41					23			
	46	50			68				
	55	60			78				
4400RCK	19	22	24		44	20	100	22	(N)4400LCK (N)4400SPCK
	27	30	32		50				
	36	41			58				
	46	50			66				
	55	60			80				
7000RCK	27	30	32		57	20	125	30	(N)5600-7000LCK DTC-PF400EXL DTC-5000EXL DTC-N500EXL
	36				62				
	41					25			
	46	50			70				
	55				80				
	60					30			
10000RCK	36				65	25	130	34	(N)8500-10000LCK DTC-PF800EXL DTC-10000EXL DTC-N1000EXL
	41					28			
	46				72				
	50					30			
	55				80				
	60					33			
14000RCK	41				75	27	160	38	(N)14000LCK
	46					30			
	50				80				
	55					32			
	60				90				
	65					35			

HCK hex drive heads

Unit : mm

HCK Model	Size (W)	Size (H)	L1	φD1	Applicable torque wrench
230HCK	2.5	19	45	10	(N)60-230LCK DTC-PI40EXL (N)60-250SPCK DTC-PI80EXL (N)250FCK, DTC-50EXL,100EXL DTC-N5EXL DTC-N10EXL
	3	22			
	4	25			
	5	30			
	6	35			
	8	40			
450HCK	4	27	55	12	(N)450LCK, DTC-PI400EXL (N)450-500SPCK DTC-N50EXL (N)500FCK DTC-500EXL
	5	30			
	6	35			
	8	40			
	10	45			
900HCK	6	35	65	15	(N)900LCK DTC-PI800EXL (N)900-1000SPCK DTC-N100EXL (N)1000FCK DTC-1000EXL
	8	40			
	10	45			
	12	51			
	14	63			
1800HCK	8	40	80	18	(N)1800LCK DTC-PF100EXL (N)1800-2000SPCK DTC-N200EXL (N)1500FCK DTC-2000EXL
	10	45			
	12	51			
	14	63			
	17	72			
2800HCK	12	51	100	22	(N)2800LCK, SPCK DTC-PF200EXL (N)2300FCK DTC-N300EXL DTC-3000EXL
	14	63			
	17	71			
	19	80			

QLK-LR LARGE HUB NUT TORQUE WRENCHES

Ideal for tightening hub nuts on large trucks and buses

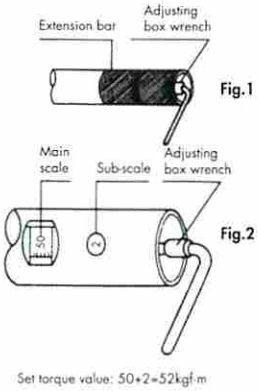
FEATURES

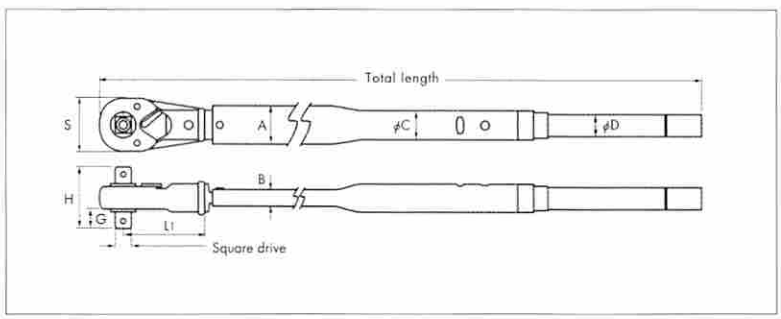
- Dual square drives for both clockwise and counterclockwise tightening.
- By replacing the sockets, various sizes of fasteners can be tightened within the tool's capacity range.
- By reversing the switch on the ratchet, the wrench can be used to loosen fasteners. Tightening to a torque setting, however,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

USING A QLK-LR WRENCH

(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.1) insert the hexagonal end of the adjusting box wrench.
- Without the extension bar (See Fig.2), insert the hexagonal end of the adjusting box wrench into the body.

(3) Turn the adjusting box wrench to set the torque value. (Add the sub-scale to the main scale.)





Replaceable Head QCK-LR

QCK-LR Model	Applicable torque wrench	Square drive mm
7000QCK-LR	(N)5600~7000LCK	19.05 (3/4")
8500QCK-LR	(N)8500~10000LCK	25.4 (1")

N7000QLK-LR

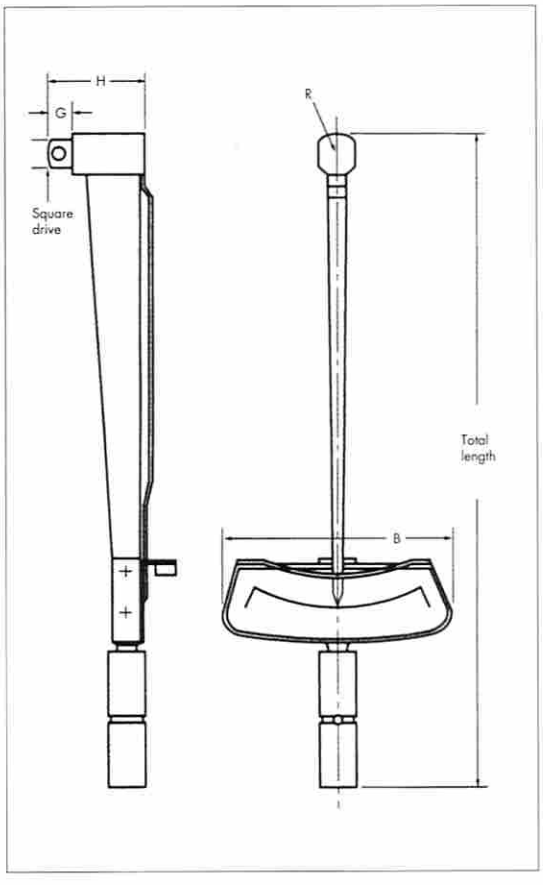
QLK-LR Model	Range kgf·m	Increment	N-QLK-LR Model	Range N·m	Increment	Square drive mm	Total length mm	Dimensions (mm) Head S	G	H	L1	Body A	B	φC	φD	Weight kg	Standard Accessory
7000QLK-LR	10~70	0.5	N7000QLK-LR	100~700	5	19.05 (3/4")	1,314	68	20	70	125	49	20	35.4	27.2	6.2	Torque adjusting box wrench
8500QLK-LR	10~85		N8500QLK-LR	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	100~1000			1,538									8.8	

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 : ±3% of indicated value over the full range




FK

Model FK	Range (CW/CCW)	Increment	Model N-FK	Range (CW/CCW)	Increment	Sq. drive	Total length	Dimensions (mm)				Weight
								Head			Body	
	kgf·cm			cN·m/N·m		mm	mm	H	G	R	B	kg
4FK	1~4	0.2	N4FK	10~40 cN·m	2 cN·m	6.35 (1/4")	110	26	7.5	5	54	0.05
7FK	1~7	0.2	N7FK	10~70 "	2 "		132				75	0.05
15FK	5~15	0.5	N15FK	50~150 "	5 "		140					0.08
30FK	10~30	1	N30FK	1~3 N·m	0.1 N·m		170	32				0.1
60FK	10~60	2	N60FK	1~6 "	0.2 "		190	36.5		6	85	0.22
120FK	20~120	5	N120FK	2~12 "	0.5 "		237	43.5				0.25
230FK	30~230	5	N230FK	3~23 "	0.5 "	9.53 (3/8")	290	42	11	9	106	0.3
450FK	50~450	10	N450FK	5~45 "	1 "		320					0.34
900FK	100~900	20	N900FK	10~90 "	2 "	12.7 (1/2")	388	58	14	12.5	114	1.1
1300FK	200~1,300	20	N1300FK	20~130 "	2 "		441			13.5		1.2
1800FK	300~1,800	50	N1800FK	30~180 "	5 "		487					1.3
2800FK	500~2,800	50	N2800FK	50~280 "	5 "	19.05 (3/4")	587	82	20	15	124	2.6
4200FK	700~4,200	100	N4200FK	70~420 "	10 "		853	48		28	186	3.5
5600FK	1,000~5,600	100	N5600FK	100~560 "	10 "		946			31		4.4
7000FK	1,000~7,000	100	N7000FK	100~700 "	10 "		1172	51		32	241	6.7
8500FK	1,500~8,500	200	N8500FK	150~850 "	20 "	25.4 (1")	1387	76.5	27	37		8.0
10000FK	2,000~10,000	200	N10000FK	200~1,000 "	20 "		1578			43		13.3
15000FK	3,000~15,000	200	N15000FK	300~1,500 "	20 "		1973			50		17.0

TMK DIAL INDICATOR TORQUE WRENCHES

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

FEATURES

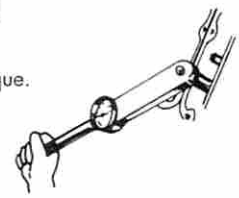
- Both peak and standard indicator types are available.
- Easily readable for inspections.
- Useful for general tightening work.
- Accuracy : ±3% of indicated value over the full range
- If you would like TMK with a peak indicator, please specify "TMK-G" on your purchase order. ex). N14000TMK-G

USING A TMK WRENCH

(1) Turn the dial cap and set the indicator to 0.

(2) Mount a socket on the square drive.

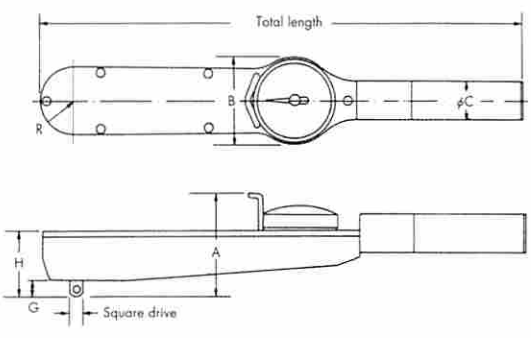
(3) Tighten until the indicator points to the desired torque.
* When using a peak indicator wrench, set it to 0 before tightening.



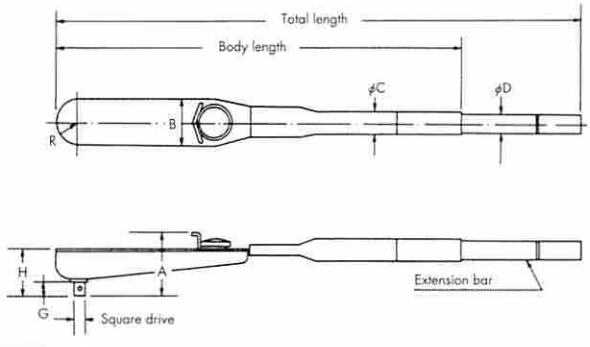
TMK-G (with peak indicator)

* Peak indicator is optional

2800~5500TMK



7000~14000TMK



TMK Model	Range (CW/CCW)	Increment	N-TMK Model	Range (CW/CCW)	Increment	Sq. drive	Total length	Dimensions (mm)							Body length	Weight
								Head			Body					
	kgf·m			N·m		mm	mm	H	G	R	A	B	C	D		kg
2800TMK	3~28 kgf·m	0.5 kgf·m	N2800TMK	30~280	5	12.7(1/2")	680	56	14	25	87	65	25.4			1.3
4000TMK	4~40 "	1 "	N4000TMK	40~400	10	19.05 (3/4")	900	76	20	35	97	80	32			2.2
5500TMK	5~55 "	1 "	N5500TMK	50~550			1100				115					2.6
7000TMK	7~70 "	1 "	N7000TMK	70~700			1270	77		40	116				765	6.6
8500TMK	10~85 "	1 "	N8500TMK	100~850			1400	86	27		125	91	40	32		7.2
10000TMK	10~100 "	2 "	N10000TMK	100~1000	20	25.4 (1")	1560								895	7.8
14000TMK	20~140 "	2 "	N14000TMK	200~1400			1600	88								8.5

* Attachment : Extension bar (7000~14000)

TOK DIAL INDICATOR TORQUE WRENCHES

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

FEATURES

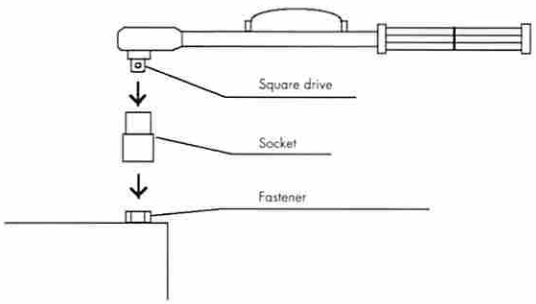
- Oval design with comfort rubber grip reduces strain.
- Easily readable for inspections.
- Useful for general tightening work.
- Accuracy : ±3% of indicated value over the full range

USING A TOK WRENCH

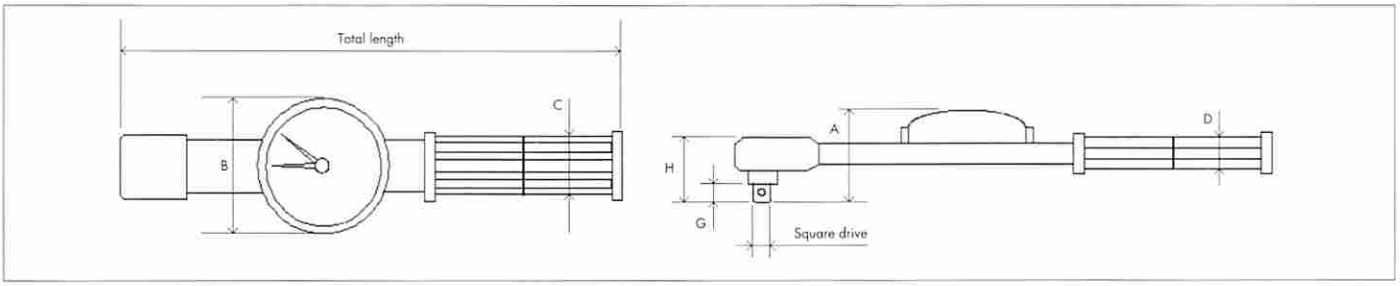
(1) Turn the dial cap and set the indicator to 0.

(2) Mount a socket on 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.



TOK



Model	Range (CW/CCW)	Increment	Model	Range (CW/CCW)	Increment	Model	Range (CW/CCW)	Increment	Square drive	Total length	Dimensions (mm)						Weight
											Head		Body				
	kgf·cm			N·m			lbf·in/lbf·ft		mm	mm	H	G	A	B	C	D	g
60TOK	6~60	1	N6TOK	0.6~6	0.1	PI50TOK	10~50 lbf·in	1 lbf·in	6.35 (1/4")	260	38.5	7.5	56	68	37	21.5	504
120TOK	10~120	2	N12TOK	1~12	0.2	PI100TOK	20~100 "	2 "									508
300TOK	50~300	5	N30TOK	5~30	0.5	PI250TOK	50~250 "	5 "	9.53 (3/8")	323	43	11	58				614
700TOK	100~700	10	N70TOK	10~70	1	PI600TOK	100~600 "	10 "									
1400TOK	200~1400	20	N140TOK	20~140	2	PF100TOK	20~100 lbf·ft	2 lbf·ft	12.7 (1/2")	463	49	14	63		41	22.5	865
2000TOK	200~2000	20	N200TOK	20~200	2												

LTDK CLUTCH RELEASE TORQUE SCREW DRIVERS

Clutch release prevents over-tightening, reduces fatigue.

FEATURES

- Comfortable grip for extended use.
- Light weight and short overall length facilitates jobs. 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 Phillips bit 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.
- "-H"models accept standard bits instead of CB type bits.

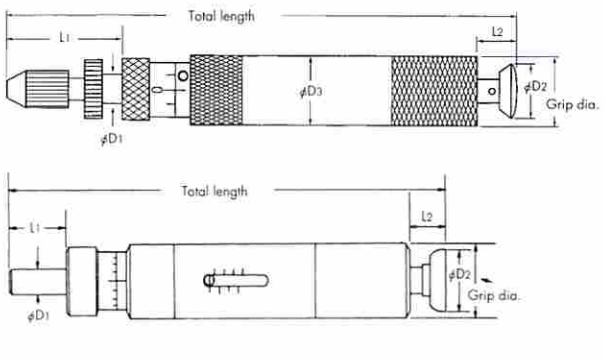
USING AN LTDK DRIVER

(1) Select and mount a bit to match the fastener.

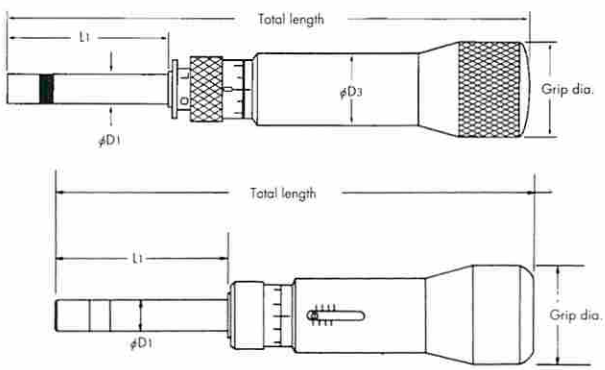
(2) Rotate the adjusting ring and set the desired torque.

(3) Tighten the fastener clock-wise until the clutch releases and there is no more resistance.

N1.5,N3LTDK(N·m Unit)



N6~N50LTDK(N·m Unit) OI 200LTDK(Ozf.in) PI 30, PI 50LTDK(Lbf.in)



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

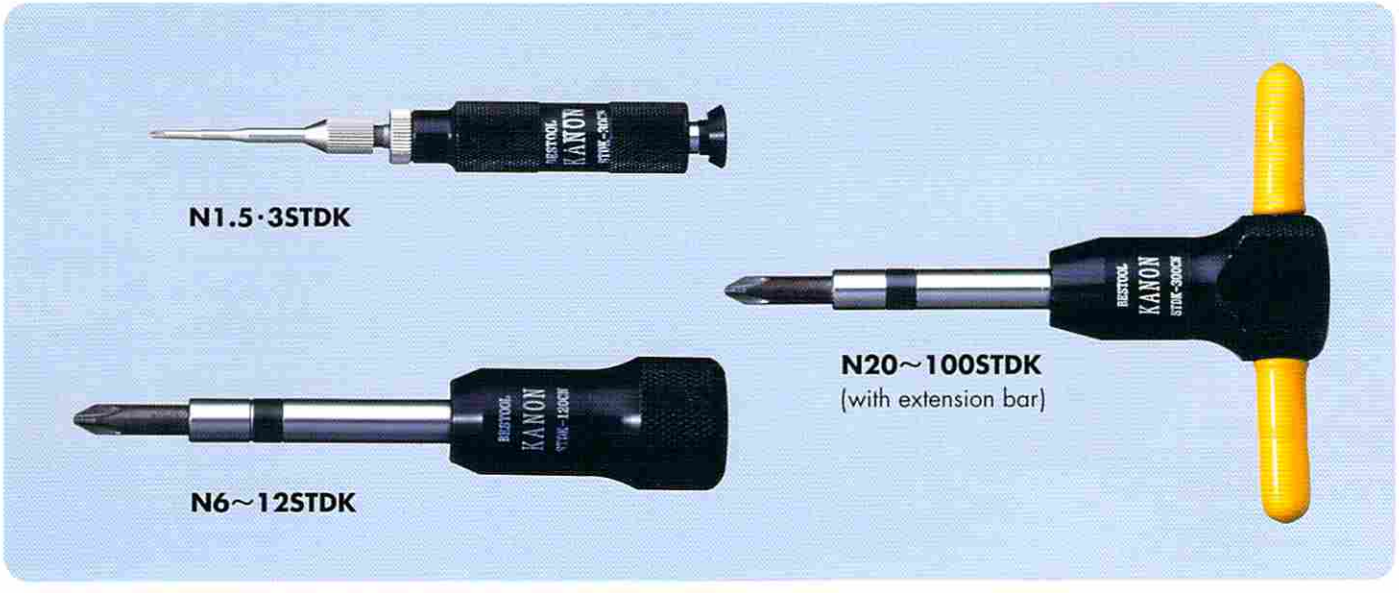
6~100LTDK(kgfcm Unit) N100LTDK(N·m Unit)

Model N-LTDK	Range	Increment	Model OI·PI-LTDK	Range	Increment	Grip dia.	Total length (without bit)	Dimensions (mm) Body					Weight	Attachment Bits	
	cN·m/N·m			ozf·in/lbf·in		φmm	mm	L1	L2	φD1	φD2	φD3	g	Phillips	Bit type
N1.5LTDK	1~15 cN·m	0.1 cN·m				16	107	22	10.5	5.5	14.4	16	57	No.0 No.1	KANON bits CB type
N3LTDK	2~30 -	0.2 -													
N6LTDK	5~60 -	0.5 -				25	110	26				20	99	No.0 No.1	Standard bits SB type
N12LTDK	20~120 -	1 -	OI 200LTDK	40~200 ozf·in	1	30	157	51		10		25	192		
N20LTDK	40~200 -	1 -				34							214	No.1 No.2	
N30LTDK	40~300 -	1 -	PI 30LTDK	4~30 lbf·in	0.1										
N50LTDK	100~500 -	2.5 -	PI 50LTDK	10~50 -	0.25	40	200	63				34	436		
N100LTDK	4~10 N·m	0.05 N·m				45	235	100		11		35	762	No.2, No.3	

Model LTDK/LTDK-H	Range	Increment	Grip dia.	Total length (without bit)	Dimensions (mm) Body					Weight	Attachment Bits	
	kgf·cm/cN·m		ϕmm	mm	L1	L2	ϕD1	ϕD2	ϕD3	g	Phillips	Bit type
1.5LTDK	0.1~1.5 kgf·cm	0.01 kgf·cm	16	99	14	9	5.5	14.4		50	No.0 No.1	KANON bits OB type
3LTDK	0.2~3 "	0.02 "										
6LTDK	0.5~6 "	0.05 "	25	110	35				20	95	No.0 No.1	Standard bits SB type
12LTDK	2~12 "	0.1 "	30	157	57		10		25	190		
20LTDK	4~20 "	0.1 "	34							208		
30LTDK	4~30 "	0.1 "									No.1 No.2	
50LTDK	10~50 "	0.25 "	40	200	73				34	436		
100LTDK	40~100 "	0.5 "	45	235	100		11			762	No.2, No.3	
1.5LTDK-H	0.1~1.5 "	0.01 "	16	111	26	9	10	14.4	35	60	No.0 No.1	
3LTDK-H	0.2~3 "	0.02 "										
N1.5LTDK-H	1~15 cN·m	0.1 cN·m										
N3LTDK-H	2~30 "	0.2 "										

STDK PRE-SET TORQUE DRIVERS

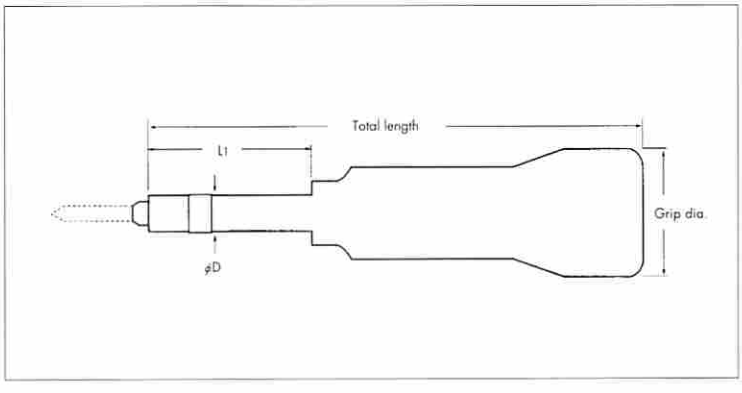
Clutch release prevents over tightening.



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 unncessary.
- 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 hex and box drive bits are available.
- Accuracy : ±3% of set value, clockwise.

* Please specify required set torque when you order.



Model STDK	Range	Model N-STDK	Range	Model OI·PI-STDK	Range	Grip dia.	Total length (without bit)	Dimensions (mm) Body		Weight	Included Accessory Bits	
	kgf·cm		cN·m/N·m		ozf·in/lbf·in	ϕmm	mm	L1	ϕD	g	Phillips	Bit type
1.5STDK	0.1~1.5	N1.5STDK	1~15 cN·m	OI 22STDK	2~22 ozf·in	16	92	22	8	45	No.0 No.1	KANON bits CB type
3STDK	0.2~3	N3STDK	2~30 "	OI 44STDK	4~44 "							
6STDK	0.5~6	N6STDK	5~60 "	OI 80STDK	10~80 "	25	102	40	10	94	No.0 No.1	Standard bits SB type
12STDK	2~12	N12STDK	20~120 "	OI 200STDK	40~200 "	30	116	54		148		
20STDK	4~20	N20STDK	40~200 "	PI 20STDK	4~20 lbf·in		111	49		170		
30STDK	4~30	N30STDK	40~300 "	PI 30STDK	4~30 "	35	117	52		200	No.1 No.2	
50STDK	10~50	N50STDK	100~500 "	PI 50STDK	10~50 "		126	56		220		
100STDK	20~100	N100STDK	2~10 N·m	PI 100STDK	20~100 "	45	235	100	11	790	No.2, No.3	

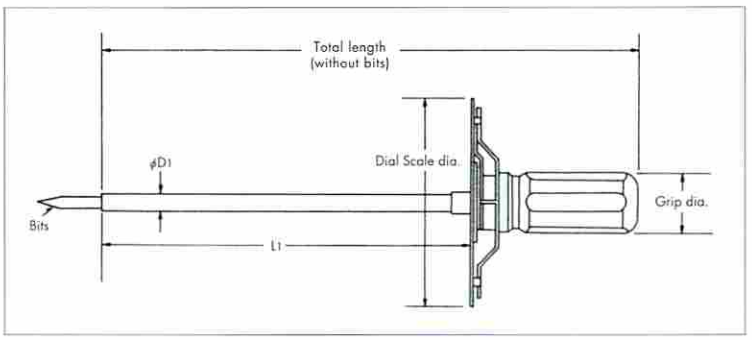
DPSK DIAL GAUGE TORQUE DRIVERS

Suited for light torque, general tightening work, inspections and break tests. 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.

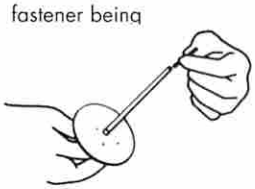


DPSK II (transparent scale)

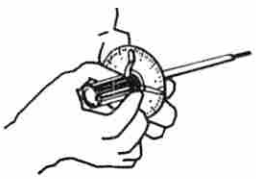
- The transparent scale makes engaging the fastener easier.
- For both models, accuracy is ±3% of the indicated value over the full range

USING A DPSK DRIVER

(1) Mount a bit matching the fastener being

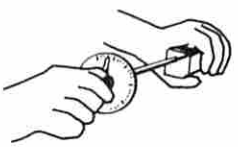


(2) Loosen the peak indicator ring.



(3) Set the peak indicator to 0.

(4) Tighten the fastener while observing the scale.



Model DPSK	Range (CW/CCW)	Increment	Model N-DPSK	Range (CW/CCW)	Increment	Dial dia.	Grip dia.	Total length (without bit)	Dimensions (mm) Driver shaft (mm)		Weight	Included Accessory Bits	
	kgf·cm			cN·m/N·m		φmm	φmm	mm	L1	φD1	kg	Phillips	Bit type
1DPSK	0.2~1	0.025	N1DPSK	2~10 cN·m	0.25 cN·m	78	22	217	152	6	0.075	No.0 No.1	KANON bits OB type
2DPSK	0.5~2	0.05	N2DPSK	5~20 "	0.5 "			195	130				
5DPSK	1~5	0.2	N5DPSK	10~50 "	2 "			208	143				
10DPSK	2~10	0.2	N10DPSK	20~100 "	2 "		33	222	130	12	0.33	No.1 No.2	Standard bits SB type
20DPSK	5~20	0.5	N20DPSK	0.5~2 N·m	0.05 N·m			242			0.36		
50DPSK	10~50	2	N50DPSK	1~5 "	0.2 "		36	300	188	14	0.47		
10DPSK(II)	2~10	0.2	N10DPSK(II)	20~100 cN·m	2 cN·m	78	33	222	130	12	0.29		
20DPSK(II)	5~20	0.5	N20DPSK(II)	0.5~2 N·m	0.05 N·m			242			0.32		
50DPSK(II)	10~50	2	N50DPSK(II)	1~5 "	0.2 "		36	300	188	14	0.42		

SGK TORQUE GAUGES

Capable of accurately measuring very low torque values.

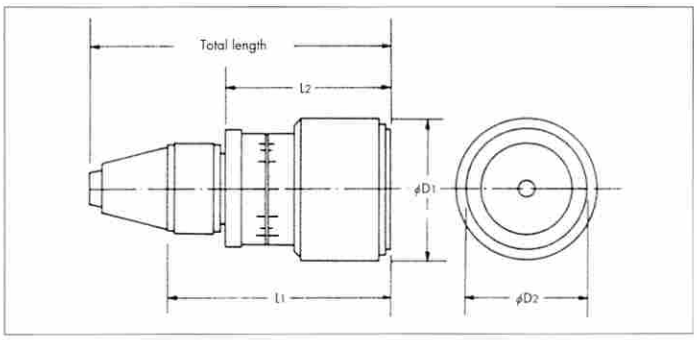
SGK

SGK-G (with peak indicator)

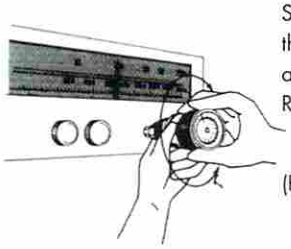
* Peak indicator is optional

FEATURES

- Due to their miniature deign and light weight, these gauges are convenient and easy to carry.
- A three part chuck with knurled surface enables 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 : ±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 of an electronic device.
Rotate clockwise or counterclockwise.

(Rotate CW or CCW)

Three part chuck

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

Model SGK	Range (CW/CCW)	Increment	Model N-SGK	Range (CW/CCW)	Increment	Chucking dia.	Total length	Dimensions (mm)				Weight
								Grip dia.		Total length (without chuck)		
	gf·cm / kgf·cm			mN·m/cN·m		φmm	mm	φD1	φD2	L1	L2	kg
90 (I) SGK	10~90 gf·cm	2 gf·cm	N90 (I) SGK	1~9 mN·m	0.2mN·m	1-6.5	106	43	36	83	57.5	0.29
150 (I) SGK	20~150 "	2 "	N150 (I) SGK	2~15 "	0.2 "							
300 (I) SGK	40~300 "	5 "	N300 (I) SGK	4~30 "	0.5 "							
600 (I) SGK	50~600 "	10 "	N600 (I) SGK	5~60 "	1 "							
1200 (I) SGK	100~1200 "	20 "	N1200 (I) SGK	10~120 "	2 "							
2400 (I) SGK	200~2400 "	50 "	N2400 (I) SGK	20~240 "	5 "							
1.5 (II) SGK	0.1~1.5 kgf·cm	0.02kgf·cm	N1.5 (II) SGK	1~15 cN·m	0.2 cN·m	1-8.5	132	63	53	102	72	0.6
2.4 (II) SGK	0.2~2.4 "	0.02 "	N2.4 (II) SGK	2~24 "	0.2 "							
3.6 (II) SGK	0.4~3.6 "	0.05 "	N3.6 (II) SGK	4~36 "	0.5 "							
6 (II) SGK	0.5~6 "	0.1 "	N6 (II) SGK	5~60 "	1 "							
9 (II) SGK	1~9 "	0.2 "	N9 (II) SGK	10~90 "	2 "							
15 (II) SGK	1~15 "	0.2 "	N15 (II) SGK	10~150 "	2 "							

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.

KDTA-2000SV

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 : 5~35℃

Model	Range(CW/CCW) kgf·cm/kgf·m	Range(CW/CCW) N·m	Increment kgf·cm/kgf·m	Increment N·m	English Model	Range(CW/CCW) lbf·in	Range(CW/CCW) N·m	Increment lbf·in	Increment N·m	Measuring mode	Unit conversion	Dimensions (mm) Overall depth	Dimensions (mm) Overall width	Dimensions (mm) Overall height	Drive size mm	Weight kg	Included Accessory
KDTA-20SV	2~20 kgf·cm	20~200 cN·m	0.01 kgf·cm	0.1 cN·m	KDTA-20SV	1.77~17.70 lbf·in	20~200 cN·m	0.01 lbf·in	0.1 cN·m	RUN Peak hold Peak to peak hold	Standard kgf·cm N·m English Model lb·in N·m	120	250	240	12	6	6.35×12 Socket
KDTA-100SV	10~100 kgf·cm	1~10 N·m	0.1 kgf·cm	0.01 N·m	KDTA-100SV	8.9~88.5 lbf·in	1~10 N·m	0.1 lbf·in	0.01 N·m								
KDTA-200SV	20~200 kgf·cm	2~20 N·m	0.1 kgf·cm	0.01 N·m	KDTA-200SV	17.7~177.0 lbf·in	2~20 N·m	0.1 lbf·in	0.01 N·m								
KDTA-1000SV	100~1000 kgf·cm	10~100 N·m	1 kgf·cm	0.1 N·m	KDTA-1000SV	89~885 lbf·in	10~100 N·m	1 lbf·in	0.1 N·m			180	320	273	14	15	9.5×14 12.7×14 Socket
KDTA-2000SV	200~2000 kgf·cm	20~200 N·m	1 kgf·cm	0.1 N·m	KDTA-2000SV	177~1770 lbf·in	20~200 N·m	1 lbf·in	0.1 N·m								
KDTA-6000SV	600~6000 kgf·cm	60~600 N·m	1 kgf·cm	0.1 N·m								220	380	265	26	25	19.05×26 25.4×26 Socket
KDTA-10000SV	10~100 kgf·m	100~1000 N·m	0.1 kgf·m	1 N·m											30		19.05×30 25.4×30 Socket

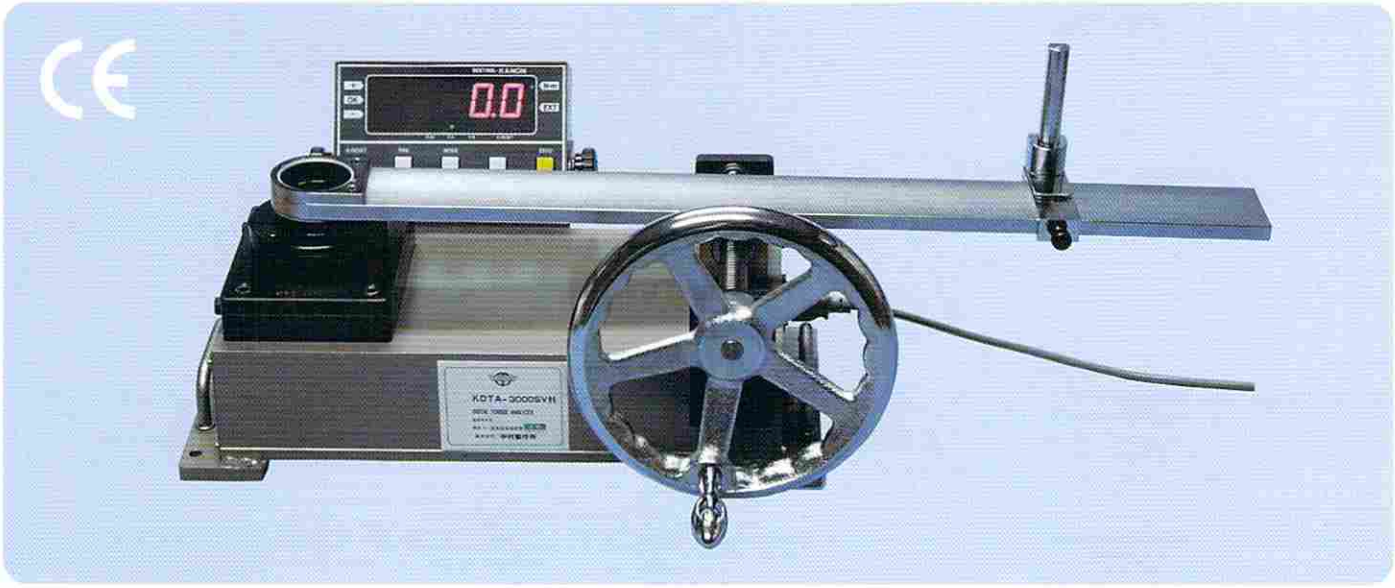
DRIVE ATTACHMENTS (Optional)

■ KDTA-20SV/100SV/200SV 200SVH

■ KDTA-1000SV/2000SV 1000SVH/2000SVH, 2000SVⅡ

■ KDTA-3000SVH

KDTA-SVH LARGE DIGITAL TORQUE ANALYZERS



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.

SPECIFICATIONS

- Power : AC100-240V 50/60Hz
- Accuracy : ±1% of the indicated value +1increment, over the full range
- Display : red LED (character height : 25mm)
- Operating temperature range : 5~35°C

Model	Range(CW/CCW) kgf·cm/kgf·m N·m	Increment kgf·cm/kgf·m N·m	English Model	Range(CW/CCW) lbf·in/lbf·ft N·m	Increment lbf·in/lbf·ft N·m	Measuring mode	Unit conversion	Drive size mm	Weight kg	Included Accessory
KDTA-200SVH	20~200 kgf·cm 2~20 N·m	0.1 kgf·cm 0.01 N·m	KDTA-200SVH	17.7~177.0 lbf·in 2~20 N·m	0.1 lbf·in 0.01 N·m	RUN Peak hold Peak to peak hold	Standard kgf·cm N·m English Model lb·in N·m	12	10	6.35×12 Socket
KDTA-1000SVH	100~1000 kgf·cm 10~100 N·m	1 kgf·cm 0.1 N·m	KDTA-1000SVH	89~885 lbf·in 10~100 N·m	1 lbf·in 0.1 N·m			14	17.5	9.5×14 Socket
KDTA-2000SVH	200~2000 kgf·cm 20~200 N·m	1 kgf·cm 0.1 N·m	KDTA-2000SVH	177~1770 lbf·in 20~200 N·m	1 lbf·in 0.1 N·m				18	12.7×14 Socket
KDTA-3000SVH	300~3000 kgf·cm 30~300 N·m	1 kgf·cm 0.1 N·m	KDTA-3000SVH	22.1~221.2 lbf·ft 30~300 N·m	0.1 lbf·ft 0.1 N·m		Standard kgf·cm N·m English Model lb·ft N·m	22	29	12.7×22 Socket 19.05×22 Socket
KDTA-6000SVH	600~6000 kgf·cm 60~600 N·m	1 kgf·cm 0.1 N·m	KDTA-6000SVH	44.2~442.5 lbf·ft 60~600 N·m	0.1 lbf·ft 0.1 N·m			26	80	12.7×26 Socket 19.05×26 Socket
KDTA10000SVH	10~100 kgf·m 100~1000 N·m	0.1 kgf·m 1 N·m	KDTA-10000SVH	74~737 lbf·ft 100~1000 N·m	1 lbf·ft 1 N·m			30	65	12.7×30, 19.05×30 25.4×30 Socket

TPK-3 STANDARD PRINTER

FEATURES

- Indicates in or out of specification on the led display and print out.

* Printer cables are options. CT-1 is for DTC series. CSV-1 is for KDTA-SV and KDTA-SVH 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 50/60Hz
- Accuracy : ±1% of the indicated value +1increment, over the full range
- Display : red LED (character height : 25mm)
- Operating temperature range : 5~35°C

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

KDTA-SVEX AUTOMATIC DIGITAL TORQUE ANALYZERS

FEATURES

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

SPECIFICATIONS

- Power : AC100-240V 50/60Hz
- Accuracy : ±1% of the indicated value +1increment, over the full range
- Display : red LED
- Operating temperature range : 5~35°C

Model	Range(CW/CCW) kgf·cm/kgf·m N·m	Increment	Measuring mode	Unit conversion	Drive size mm
KDTA-6000SVEX	600~6000 kgf·cm	1 kgf·cm	RUN Peak hold Peak to peak hold	Standard kgf·cm N·m	26
	60~600 N·m	0.1 N·m			
KDTA-10000SVEX	10~100 kgf·m	0.1 kgf·m			30
	100~1000 N·m	1 N·m			
KDTA-20000SVEX	20~200 kgf·m	0.1 kgf·m			32
	200~2000 N·m	1 N·m			

* Calibration Test kits are options.

KDTA-DH

DIGITAL TORQUE ANALYZERS FOR TORQUE DRIVERS

KDTA-8DH / KDTA-80DH

FEATURES

- Designed for LTDK and STDK
- Battery powered
- Battery Charger with user selectable 100, 120 or 230V A/C adapter
- Lightweight plastic case
- kgf·cm/N·m / lbf·in unit 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 : ±1% of the indicated value +1increment, over the full range

Model	Range	Increment	Measuring mode	Battery	Size	Weight (g)
KDTA-8DH	3~800mN·m 0.03~8kgf·cm 0.03~7lbf·in	0.1mN·m 0.001kgf·cm 0.001lbf·in	RUN Peak hold Peak to Peak hold	Rechargeable	230 (W) ×123 (D) ×65 (H) mm	830
KDTA-80DH	3~800cN·m 0.3~80kgf·cm 0.3~70lbf·in	0.1cN·m 0.01kgf·cm 0.01lbf·in	RUN Peak hold Peak to Peak hold	Rechargeable	230 (W) ×123 (D) ×65 (H) mm	830

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 AC100V~230V50/60H.

- 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 : ±1% of the indicated value +1increment, over the full range

Model	Range	Increment	Measuring mode	Battery	Size	Weight (g)
KDTA-10D	1.5~100.0cN·m 0.15~10.00kgf·cm 0.13~10.00lbf·in	0.1cN·m 0.01kgf·cm 0.01lbf·in	RUN Peak hold Peak to Peak hold	Rechargeable	230 (W) ×123 (D) ×65 (H) mm	1,100
KDTA-100D	15~1000cN·m 1.5~100.0kgf·cm 1.3~100.0lbf·in	1cN·m 0.1kgf·cm 0.1lbf·in	RUN Peak hold Peak to Peak hold	Rechargeable	230 (W) ×123 (D) ×65 (H) mm	1,100

CTK-XL CAP TESTER

DIGITAL CAP TORQUE ANALYZERS

Digital measurement of opening and closing torque on container caps.

* The bottle is not included.

FEATURES

- Optimal for measuring torque values opening or closing caps on containers for cosmetic products, medical products, foods, 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 : ±1% of indicated value +1 increment, over the full range

MODE : Power source ON/OFF switch, MODE selection

CLR : [0] reset switch, data cleared

UP : Upper limit value set switch

DW : Lower limit value set switch

SET : save data

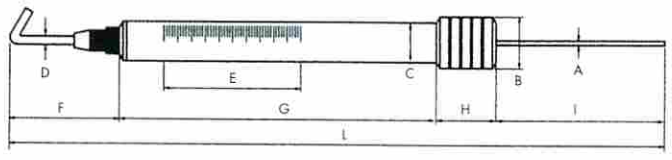
Model	Torque range	Increment	Accuracy	Power source	Weight	Chuck diameter (mm)
CTK-30XL	3~30kgf·cm	0.02kgf·cm	±1% of indicated value +1 increment over the full range	AC100~240V (adapter DC6V)	11kg	ϕ10~ϕ100
CTK-100XL	10~100kgf·cm	0.1kgf·cm				ϕ22~ϕ180
CTK-3NXL	30~300cN·m	0.2cN·m	±1% of indicated value +1 increment over the full range	AC100~240V (adapter DC6V)	11kg	ϕ10~ϕ100
CTK-10NXL	1~10N·m	0.01N·m				ϕ22~ϕ180

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 on every model.
- Accuracy : ±1 increment



Model (g)	Range (g)	Incr. (g)	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 (g)
TK10	0 ~ 10	0.5	1.5	16	13	1.5	40	19	98	15	48	180	30	3
TK30	0 ~ 30	1	1.5	16	13	1.5	60	19	113	15	66	213	30	3
TK50	0 ~ 50	1	1.5	16	13	1.5	60	19	113	15	66	213	30	3
TK110	0 ~ 110	2	2	16	13	2	60	27.5	113	15	65.5	221	35	10
TK200	0 ~ 200	5	2	16	13	2	60	27.5	113	15	65.5	221	35	10
TK300	0 ~ 300	5	2	16	13	2	60	27.5	113	15	65.5	221	35	10
TK500	0 ~ 500	10	3	20	16	2.6	56	43	131	25	69	268	78	30
TK600	0 ~ 600	20	3	20	16	2.6	56	43	131	25	69	268	78	30
TK1000	0 ~ 1000	25	3	20	16	2.6	56	43	131	25	69	268	78	30
TK1500	0 ~ 1500	50	3	20	16	2.6	56	43	131	25	69	268	78	30
TK2000	0 ~ 2000	50	3	20	16	2.6	56	43	131	25	69	268	78	30
TK2500	0 ~ 2500	50	3	20	16	2.6	62	43	143	25	74	285	85	50
TK3000	0 ~ 3000	50	3	20	16	2.6	62	43	143	25	74	285	85	50
TK4000	0 ~ 4000	50	4	25	22	3.5	68	43	178	35	82	338	200	100
TK5000	0 ~ 5000	100	4	25	22	3.5	68	43	178	35	82	338	200	100
TK7000	0 ~ 7000	200	4	25	22	3.5	68	43	178	35	82	338	205	100
TK10000	0 ~ 10000	200	4	25	22	3.5	68	43	178	35	82	338	205	100
TK15000	0 ~ 15000	200	8	35	32	7	95	83	230	35	145	493	600	250
TK20000	0 ~ 20000	200	8	35	32	7	118	83	280	35	140	538	680	250
TK30000	0 ~ 30000	500	8	40	38	7	130	83	305	35	172	595	830	350

Model (cN)	Range (cN)	Incr. (cN)	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 (c-N)
TK10cN	0 ~ 10	0.5	1.5	16	13	1.5	40	19	98	15	48	180	30	3
TK30cN	0 ~ 30	1	1.5	16	13	1.5	60	19	113	15	66	213	30	3
TK50cN	0 ~ 50	1	1.5	16	13	1.5	60	19	113	15	66	213	30	3
TK110cN	0 ~ 110	2	2	16	13	2	60	27.5	113	15	65.5	221	35	10
TK200cN	0 ~ 200	5	2	16	13	2	60	27.5	113	15	65.5	221	35	10
TK300cN	0 ~ 300	5	2	16	13	2	60	27.5	113	15	65.5	221	35	10
TK500cN	0 ~ 500	10	3	20	16	2.6	56	43	131	25	69	268	78	30
TK600cN	0 ~ 600	20	3	20	16	2.6	56	43	131	25	69	268	78	30
TK1000cN	0 ~ 1000	25	3	20	16	2.6	56	43	131	25	69	268	78	30
TK1500cN	0 ~ 1500	50	3	20	16	2.6	56	43	131	25	69	268	78	30
TK2000cN	0 ~ 2000	50	3	20	16	2.6	56	43	131	25	69	268	78	30
TK2500cN	0 ~ 2500	50	3	20	16	2.6	62	43	143	25	74	285	85	50
TK3000cN	0 ~ 3000	50	3	20	16	2.6	62	43	143	25	74	285	85	50
TK4000cN	0 ~ 4000	50	4	25	22	3.5	68	43	178	35	82	338	200	100
TK5000cN	0 ~ 5000	100	4	25	22	3.5	68	43	178	35	82	338	200	100
TK7000cN	0 ~ 7000	200	4	25	22	3.5	68	43	178	35	82	338	205	100
TK10000cN	0 ~ 10000	200	4	25	22	3.5	68	43	178	35	82	338	205	100
TK15000cN	0 ~ 15000	200	8	35	32	7	95	83	230	35	145	493	600	250
TK20000cN	0 ~ 20000	200	8	35	32	7	118	83	280	35	140	538	680	250
TK30000cN	0 ~ 30000	500	8	40	38	7	130	83	305	35	172	595	830	350

TK

* Peak indicator is optional

- If you take a measurement horizontally, add the correcting value to the indicated measurement value per the table.
- If you would like your TK gauge with a peak indicator, please specify "TK-G" on your purchase order.
  ex). TK500cN-G

TCSK-99MA

MULTI-FUNCTION TORQUE TASK MANAGER / ANALYZER

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

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 SWP 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.

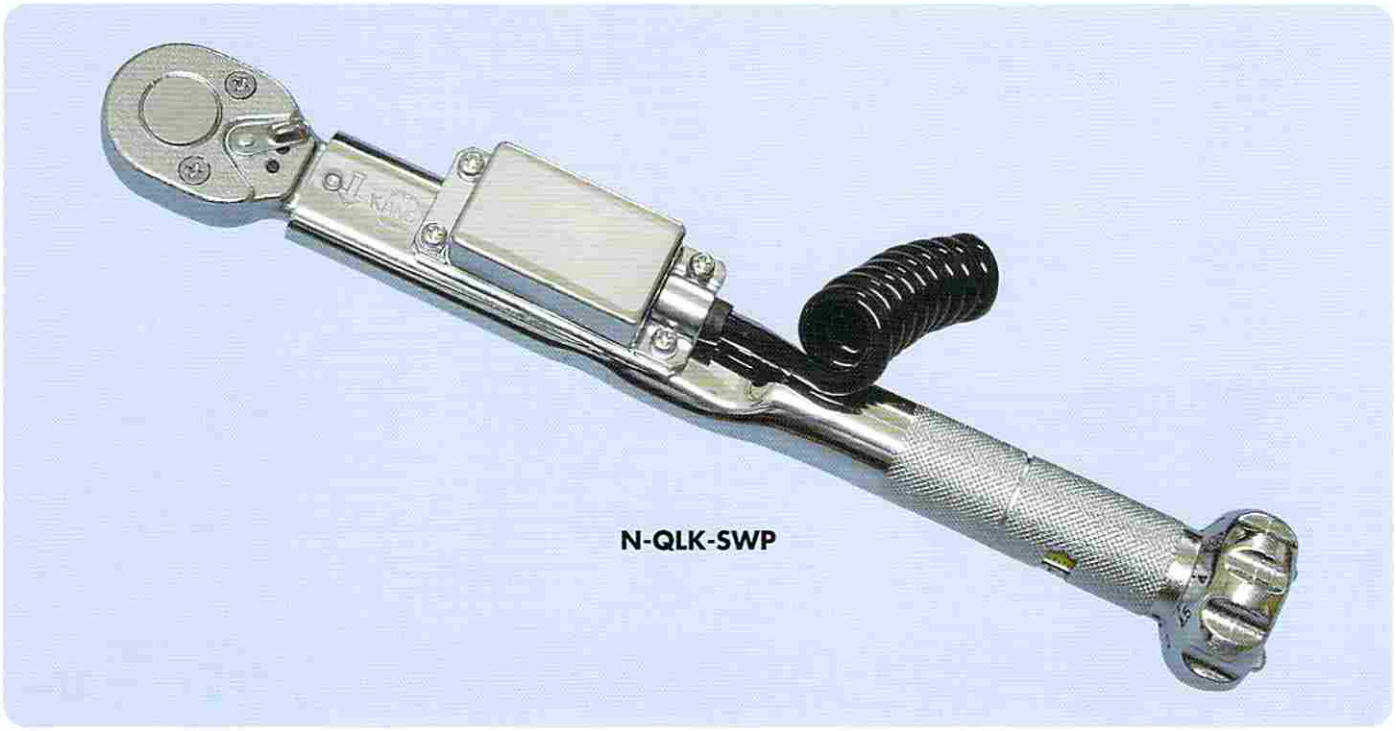
* This item does not have the CE mark.

Model	TCSK-99MA
Count	1 to 99
Timer setting	Digital input (set time for each function)
Judgement	OK (sounds and LED lights up in green) NG (sounds and LED lights up in red)
External input	Start, stop, reset, direction of rotation, work, lock
External output	Count OK, work NG/OK, overtime NG, in-time NG
Power supply	Input (primary side), switching power type multi-input of 100 to 240 VAC Output(secondary side) 24VDC, 2A 50W
Power consumption	10W
Outside dimensions	209mm (W)×77mm(H)×180mm(D)
Weight	approximately 1.7kg

SWP Series

TORQUE TOOLS FOR TCSK

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



N-QLK-SWP

FEATURES

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

SWP TYPES ● Type and torque range

Model	Available Models
SPK-SWP	80SPK~ 4200SPK N80SPK~ N4200SPK
RSPK-SWP	80RSPK~ 4200RSPK N80RSPK~ N4200RSPK
QSPK-SWP	PI120QSPK~ PI2800QSPK / PF4200QSPK 120QSPK~ 4200QSPK N120QSPK~ N4200QSPK
SPCK-SWP	120SPCK~ 4200SPCK N120SPCK~ N4200SPCK

● Accuracy : ±3% of pre-set value

QLK-SWP	PI120QLK~ PI2000QLK 120QLK~ 4200QLK N120QLK~ N4200QLK
LCK-SWP	120LCK~ 4200LCK N120LCK~ N4200LCK

● Accuracy : ±3% of indicated value over the full range

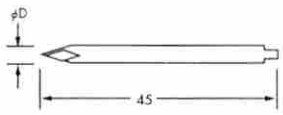
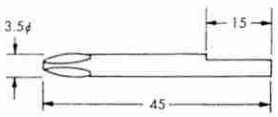
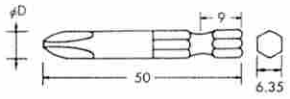
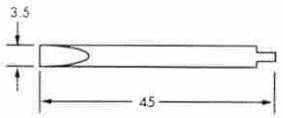
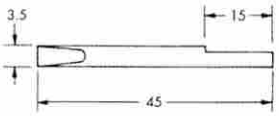
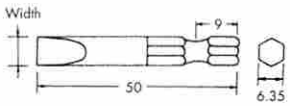
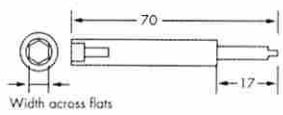
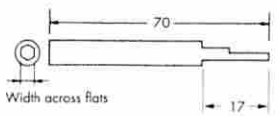
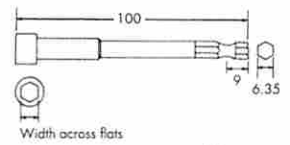
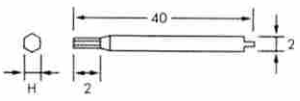
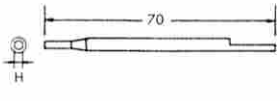
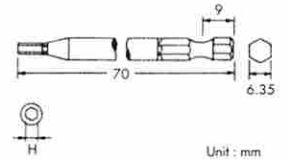
LTDK-SWP	OI200LTDK / PI30LTDK~ PI50LTDK 12LTDK~100LTDK N12LTDK~ N100LTDK

● Accuracy : ±3% of indicated value over the full range, clockwise

* Torque wrench setting of N450QLK-SWP less than 10N·m and 450QLK-SWP less than 100kgf·cm does not go signal properly.

BITS

BITS FOR TORQUE DRIVERS

Type	KANON bits CB type	KANON bits OB type	Standard bits SB type
Applicable driver	N1.5, 3 LTDK (N)1.5, 3STDK OI 22, 44, STDK	1.5, 3 LTDK (N) 1, 2, 5 DPSK	(N) 1.5, 3 LTDK-H (N) 6, 12, 20 LTDK (N) 30, 50, 100 LTDK OI 200 LTDK PI 30, 50, LTDK (N) 6, 12, 20, 30, 50, 100 STDK OI 80, 200 STDK PI 20, 30, 50, 100 STDK (N) 10, 20, 50 DPSK (N) 10, 20, 50 DPSKII
Phillips	 Unit : mm φD: 3.5φ — Bit sizes: No.00, No.0, No.1, No.2	 Unit : mm φD: 3.5φ — Bit sizes: No.00, No.0, No.1, No.2	 Unit : mm φD: 4φ — Bit sizes: No.0, No.1 φD: 7φ — Bit sizes: No.2, No.3
Slot Drive	 Unit : mm ⊖ Blade thickness: 0.4mm — Width: 3.5mm	 Unit : mm ⊖ Blade thickness: 0.4mm — Width: 3.5mm	 Unit : mm ⊖ Blade thickness: 0.4mm — Width: 4.0mm 1.0mm — 7.0mm
BOX BITS (Female Hex)	 Unit : mm Width across flats: 3 4 5 5.5 6	 Unit : mm Width across flats: 3 4 5 5.5 6	 Unit : mm Width across flats: 4 5 5.5 6 7 / 8 9 10 11 12 / 13 14 17
HEX BITS (Male Hex)	 Unit : mm Edge size (H) mm: 1.27 1.5 2 2.5 3	 Unit : mm Edge size (H) mm: 1.27 1.5 2 2.5 3	 Unit : mm Edge size (H) mm: 1.27 1.5 2 2.5 3 / 4 5 6 8

What is torque ?

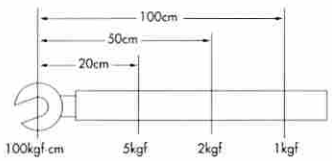
The torque is a unit to tighten a screw.
It means rotating force,and should be clearly distinguished from tensible force.
The torque wrench (torque driver) belongs to the field of rotaing torque. It may be said that the simple lever is applied to the torque. For the both members are closely related to <force> and <distance>. A distance is a length of a bar, force is referred to a sum of force weighing on the bar's end.
For example, the bar length is 20cm, where 5kgf (a force unit indicated kgf) is added, — a formula is established as follows. However, provided that there are presented factors such as:

T=torque (kgf·cm, kgf·m)
F=added force (kgf), F means force.
L=bar length (cm,m),

the torque can be obtained as follows;

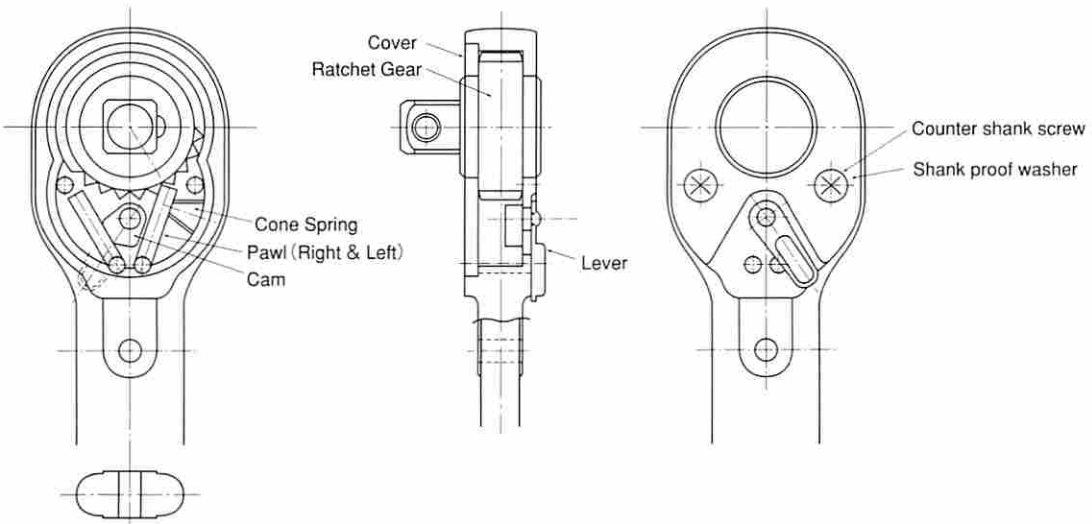
F(force)×L(length)=T(torque),
accordingly, 5kgf×20cm=100kgf·cm

In order to obtain 100kgf·cm torque, length and force are estimated as follows.



TORQUE
100kg·cm=5kgf×20cm
=2kgf×50cm
=1kgf×100cm

PARTS FOR QLK, QSPK AND QCK



Torque unit and conversion table

	Drive unit (kilo-gram-cm)	SI unit (Newton meter)	Inch and pound unit
Torque unit	kgf·cm kgf·m gf·cm	N·m cN·m	lbf·in lbf·Ft OZf·in
Conversion in unit	1 kgf·m=100 kgf·cm 1 kgf·cm=1000 gf·cm 1 kgf·cm=10 kgf·mm	1 N·m=100 cN·m	1 lbf·Ft=12 lbf·in 1 lbf·in=16 OZf·in
Conversion between units	1 kgf·cm=0.098065 N·m 1 kgf·cm=0.867962 lbf·in 1 kgf·cm=0.072330 lbf·Ft	1 N·m=10.1972 kgf·cm 1 N·m=8.85 lbf·in 1 N·m=0.737562 lbf·Ft	1 lbf·in=1.15 kgf·cm 1 lbf·in=0.112985 N·m 1 lbf·Ft=13.825 kgf·cm 1 lbf·Ft=1.36 N·m
Force unit	1 kgf·cm=9.807 N 1 kgf·cm=2.205 lbf	1 N=0.101972 kgf 1 N=0.224809 lbf	1 lbf=0.453592 kgf 1 lbf=4.448 N (1 lbf=16 OZf)
Length unit	1 cm=0.393701 in	1 m=3.281 ft	1 in=2.54 cm 1 Ft=0.305 m (1 Ft=12 in)