

QL/QLE2

Ratchet Head Type Adjustable Torque Wrench

Assembly Adjustable Ratchet Head Graduation ISO6789:2003/2017

- Basic adjustable click style with resin grip
- Torque value easily set with external scale and knob

Direction



Accuracy ±3%

QL/QL-MH Optional Accessories



Carrying Case (P.49)

Part #	Applicable Model Dimension [mm]
842	QL50N, QL50N-MH, QL100N4-MH H60 x W400 x D70
843	QL140N, QL140N-MH, QL200N4, QL200N4-MH H60 x W520 x D80
846	QL140N, QL140N-MH and below H170 x W500 x D100
847	QL280N, QL280N-MH and below H170 x W740 x D100

S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm/kgf·m]		American Model	Torque Range [lbf·in/lbf·ft]		Overall Length [mm]	Square Drive [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.			
QL	N·m	N·m		kgf·cm	kgf·cm		lbf·in	lbf·in			
QL2N	0.4-2	0.02	20QL	4-20	0.2	QL15I-2A	3-15	0.1	194		0.27
QL5N	1-5	0.05	50QL	10-50	0.5	QL30I-2A	6-30	0.2			
QL10N	2-10	0.1	100QL	20-100	1	QL50I-2A	10-50	0.5	219	6.35	0.29
QL15N	3-15		150QL	30-150		QL100I-2A	20-100	1			
QL25N5-1/4	5-25	0.2	225QL5-1/4	50-250	2.5	QL200I-2A	40-200	2.5	237		0.33
QL25N5			225QL5								
QL50N	10-50	0.5	450QL3	100-500	5	QL400I-3A	100-400	5	260		0.45
						QL750I-3A	150-750	10		9.53	
QL100N4-3/8	20-100		900QL4-3/8	200-1000		lbf·ft	lbf·ft		335		0.69
QL100N4	20-100	1	900QL4	200-1000	10	-	-	-			
QL140N	30-140		1400QL3	300-1400		QL100F-4A	30-100	1	400		0.88
QL200N4	40-200		1800QL4	400-2000	20	QL150F-4A	30-150		490	12.7	1.4
				kgf·m	kgf·m						
QL280N-1/2	40-280	2	2800QL3-1/2	4-28	0.2	QL200F-4A	30-210	2	695		2.0
QL280N			2800QL3								
QL420N	60-420		4200QL2	6-42		QL300F-6A	60-300		995		3.4
QLE2	N·m	N·m		kgf·m	kgf·m		lbf·ft	lbf·ft		19.05	
QLE550N2	100-550		5500QLE2	10-55		QL400F-6A	100-400		1189		4.3
QLE750N2	150-750	5	7500QLE2	15-75	0.5	QL600F-6A	150-600	5	1342		5.6
QLE1000N2	200-1000		10000QLE2	20-100		QL700F-8A	200-700		1515		7.7
QLE1400N2	300-1400	10	14000QLE2	30-140	1	QL1000F-8A	300-1000	10	1787	25.4	11.1
QLE2100N2	500-2100		21000QLE2	50-210		QL1500F-8A	500-1500		1895	14.6	
QLE2800N2	800-2800	20	28000QLE2	80-280	2	QL2000F-12A	600-2000	20	2405	38.1	23.7

- Note
1. QL2N-QL25N5 are yellow/black resin grips. QL50N-QL280N are black resin grips.
 2. QL420N and QLE550N2-QLE2800N2 are knurled handles.
 3. Use a through-hole socket for square drive over 25.4mm.
 4. QL2N, QL5N and the equivalent metric models, American models comes with ISO:6789-2003 cert.



Part #	Color	Applicable Model
879	Red	QL2N, QL5N, QL10N, QL15N, QL25N5-1/4, QL25N5
880	Blue	
881	Green	
882	Black	



QL Protective Head Cover (P.49)

Part #	Applicable model
870	QL2N(-MH) - 15N(-MH)
871	QL25N5, QL25N-MH
872	QL50N(-MH)
873	QL100N4(-MH)
874	QL140N(-MH)
875	QL200N4(-MH)
877	QL280N(-MH)
878	QSP420N

QLLS RoHS

- QL style with Limit Switch output
- Wired Error-Proofing, Pokayoke, system for assembly processes



S.I. Model	Metric Model
QLMS2N-MH	20QLMS-MH
QLMS5N-MH	50QLMS-MH
QLMS10N-MH	100QLMS-MH
QLMS10N	100QLMS
QLMS15N	150QLMS
QLMS15N-MH	150QLMS-MH
QLLS25N5	225QL5LS
QLLS50N	450QL3LS
QLLS100N4	900QL4LS
QLLS140N	1400QL3LS
QLLS200N4	1800QL4LS
QLLS280N	2800QL3LS
QLLS420N	4200QL2LS

POKA Patrol, Count Checker CNA-4mk3

Refer to page 27.



* Sold separately

QL-MH

Ratchet Head Type Adjustable Torque Wrench with Metal Handle

Assembly Adjustable Ratchet Head Graduation ISO6789:2003/2017

- Knurled metal handle version of QL
- Ideal for oily working conditions

Direction



Accuracy ±3%

S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm/kgf·m]		American Model	Torque Range [lbf·in]		Overall Length [mm]	Square Drive [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.			
QL2N-MH	0.4-2.0	0.02	20QL-MH	4-20	0.2	QL15I-2A-MH	3-15	0.1	160		0.16
QL5N-MH	1-5	0.05	50QL-MH	10-50	0.5	QL30I-2A-MH	6-30	0.2			
QL10N-MH	2-10	0.1	100QL-MH	20-100	1	QL50I-2A-MH	10-50	0.5	195	6.35	0.19
QL15N-MH	3-15		150QL-MH	30-150		QL100I-2A-MH	20-100	1			
QL25N-MH	5-25	0.25	225QL-MH	50-250	2.5	-	-	-	230		0.25
QL50N-MH	10-50	0.5	450QL-MH	100-500	5	-	-	-	260		0.45
QL100N4-MH	20-100	1	900QL4-MH	200-1000	10	-	-	-	335		0.69
QL140N-MH	30-140		1400QL-MH	300-1400		-	-	-	400	12.7	0.88
QL200N4-MH	40-200		1800QL4-MH	400-2000	20	-	-	-	490		1.4
				kgf·m	kgf·m						
QL280N-MH	40-280	2	2800QL-MH	4-28	0.2	-	-	-	695	19.05	1.9

- Note
1. QL2N-MH, QL5N-MH and the equivalent metric models, American models comes with ISO:6789-2003 cert.

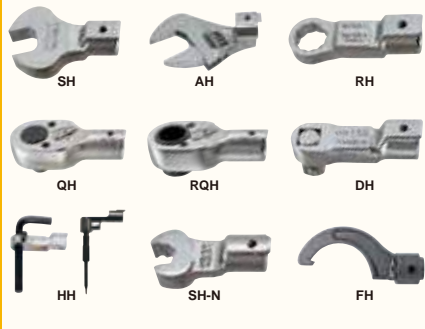
CL/CLE2

Interchangeable Head Type Adjustable Torque Wrench

Direction



Interchangeable Head



CL/CL-MH Optional Accessories



Carrying Case (P.49)

Part #	Applicable Model Dimension [mm]
842	CL50N×12D/15D, CL50N×12D/15D-MH, CL100N×15D-MH H60 × W400 × D70
843	CL140N×15D/-MH, CL200N×19D/-MH H60 × W520 × D80
846	CL200N×19D, CL200N×19D and below H170 × W500 × D100
847	CL280N×22D, CL280N×22D-MH and below H170 × W740 × D100

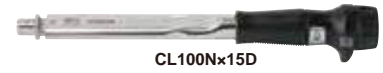


Color Cap

Part #	Color	Applicable Model
879	Red	CL2N×8D, CL5N×8D CL10N×8D, CL15N×8D CL25N×10D
880	Blue	
881	Green	
882	Black	

Assembly Adjustable Interchangeable Graduation ISO6789:2003/2017

- Interchangeable Head can be easily exchanged.
- Torque value easily set with external scale and knob



Head Size	S.I. Model	Torque Range [N-m]		Metric Model	Torque Range [kgf-cm/kgf-m]		American Model	Torque Range [lbf-in/lbf-ft]		Overall Length [mm]	Weight [kg]
		Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.		
					kgf-cm	kgf-m		lbf-in	lbf-ft		
8D	CL	N-m	N-m	20CL	kgf-cm	kgf-m	CL151x8D	lbf-in	lbf-ft	174	0.24
	CL2N×8D	0.4-2	0.02	50CL	4-20	0.2	CL301x8D	3-15	0.1		
	CL5N×8D	1-5	0.05	100CL	10-50	0.5	CL501x8D	6-30	0.2		
	CL10N×8D	2-10	0.1	150CL	20-100	1	CL1001x8D	10-50	0.5		
10D	CL15N×8D	3-15		500CL3	30-150		CL2001x10D	20-100	1	199	0.26
	CL25N5×10D	5-25	0.2	225CL5	50-250	2.5	CL2001x10D	40-200	2.5		
12D	CL50N×12D	10-50	0.5	450CL3	100-500	5	450CL3-A	100-400	5	230	0.37
	CL50N×15D			500CL3			500CL3-A	100-450	5		
15D	CL100N×15D	20-100		900CL3	200-1000		900CL3-A	200-800	10	310	0.52
	CL140N×15D	30-140	1	1400CL3	300-1400	10	1400CL3-A	30-100	1		
19D	CL200N×19D	40-200		1800CL3	400-2000	20	1800CL3-A	30-150		455	1.2
					kgf-m	kgf-m					
22D	CL280N×22D	40-280	2	2800CL3	4-28		2800CL3-A	30-200	2	655	1.8
	CL420N×22D	60-420		4200CL2	6-42	0.2	4200CL2-A	60-300			
27D	CLE2	N-m	N-m		kgf-m	kgf-m		lbf-ft	lbf-ft	1148	3.9
	CLE550N2×27D	100-550		5500CLE2	10-55		CLE400F×27D	100-400			
	CLE750N2×27D	150-750	5	7500CLE2	15-75	0.5	CLE550F×27D	150-550	5		
32D	CLE850N2×32D	200-850		8500CLE2	20-85		CLE600F×32D	150-600		1297	5.1
	CLE1200N2×32D	300-1200		12000CLE2	30-120		CLE900F×32D	200-900			

- Note
1. Overall length does not include interchangeable head. Interchangeable heads are optional.
 2. PH type interchangeable head/p.48 is not applicable.
 3. CL2N - CL25N5 are yellow/black resin grips. CL50N - CL280N are black resin grips.
 4. CL420N and CLE550N2-CLE1200N2 are knurled handles.
 5. CL2N×8D, CL5N×8D and the equivalent metric models, American models comes with ISO:6789-2003 cert.

CLLS

RoHS

- CL style with Limit Switch output
- Wired Error-Proofing, Pokayoke, system for assembly processes

S.I. Model	Metric Model
CLMS2N×8D-MH	20CLMS-MH
CLMS5N×8D-MH	50CLMS-MH
CLMS10N×8D-MH	100CLMS-MH
CLMS10N×8D	100CLMS
CLMS15N×8D	150CLMS
CLMS15N×8D-MH	150CLMS-MH
CLLS25N5×10D	225CL5LS
CLLS50N×12D	450CL3LS
CLLS50N×15D	500CL3LS
CLLS100N×15D	900CL3LS
CLLS140N×15D	1400CL3LS
CLLS200N×19D	1800CL3LS
CLLS280N×22D	2800CL3LS
CLLS420N×22D	4200CL2LS

POKA Patrol, Count Checker CNA-4mk3

Refer to page 27.



* Sold separately

CL-MH

Interchangeable Head Type Adjustable Torque Wrench with Metal Handle

Direction



CL5N×8D-MH



CL100N×15D-MH

Assembly Adjustable Interchangeable Graduation ISO6789:2003/2017

- Knurled metal handle version of CL
- Ideal for oily working conditions

Head Size	S.I. Model	Torque Range [N-m]		Metric Model	Torque Range [kgf-cm/kgf-m]		American Model	Torque Range [lbf-in]		Overall Length [mm]	Weight [kg]
		Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.		
					kgf-cm	kgf-m		lbf-in	lbf-in		
8D	CL2N×8D-MH	0.4-2	0.02	20CL-MH	kgf-cm	kgf-m	CL151x8D-MH	lbf-in	lbf-in	140	0.13
	CL5N×8D-MH	1-5	0.05	50CL-MH	4-20	0.2	CL301x8D-MH	3-15	0.1		
	CL10N×8D-MH	2-10	0.1	100CL-MH	10-50	0.5	CL501x8D-MH	6-30	0.2		
	CL15N×8D-MH	3-15	0.1	150CL-MH	20-100	1	CL1001x8D-MH	10-50	0.5		
10D	CL25N×10D-MH	5-25	0.25	225CL-MH	50-250	2.5	-	-	-	200	0.22
	CL50N×12D-MH	10-50	0.5	450CL-MH	100-500	5	-	-	-		
12D	CL50N×15D-MH			500CL-MH			500CL-MH	100-500	5	-	-
15D	CL100N×15D-MH	20-100	1	900CL-MH	200-1000	10	-	-	-	310	0.52
	CL140N×15D-MH	30-140		1400CL-MH	300-1400		-	-	-		
19D	CL200N×19D-MH	40-200		1800CL-MH	400-2000	20	-	-	-	455	1.2
					kgf-m	kgf-m					
22D	CL280N×22D-MH	40-280	2	2800CL-MH	4-28	0.2	-	-	-	655	1.6

- Note
1. Overall length does not include interchangeable head.
 2. PH type interchangeable head/p.48 is not applicable.
 3. Interchangeable heads are optional.
 4. CL2N×8D-MH, CL5N×8D-MH and the equivalent metric models, American models comes with ISO:6789-2003 cert.

Torque Wrench for Assembly

DQL/DQLE2

Direction

Dual Square Drives
Type Adjustable Torque
Wrench



RoHS

Assembly Adjustable Ratchet Head Graduation Bi-Directional ISO6789:2017

- For bi-directional tightening
- Ideal for tightening large vehicle tires



DQL200N4



DQLE750N2

Accuracy ±3%

S.I. Model	Torque Range [N-m]		Metric Model	Torque Range [kgf-cm/kgf-m]		American Model	Torque Range [lbf-ft]		Overall Length [mm]	Square Drive [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.			
DQL	N-m	N-m		kgf-cm	kgf-cm						
DQL200N4	40-200		1800DQL4	400-2000	20	1800DQL4-A	30-150		490	12.7	1.4
DQL280N	40-280	2	2800DQL3	4-28	0.2	2800DQL3-A	30-200		695		2.0
DQLE2	N-m	N-m		kgf-m	kgf-m		lbf-ft	lbf-ft		19.0	
DQLE550N2	100-550		5500DQLE2	10-55		DQLE400F-6A	100-400		1189		4.4
DQLE750N2	150-750	5	7500DQLE2	15-75	0.5	DQLE600F-6A	150-600	5	1342		5.7
DQLE1000N2	200-1000		10000DQLE2	20-100		DQLE700F-8A	200-700		1515	25.4	7.9

- Note
1. DQL200N4 and DQL280N have resin grips.
 2. For the model having 25.4mm square drive, use a through-hole socket.
 3. DQLE550N2-DQLE1000N2 have knurled handles.
 4. DQLE2 with built-in Adjusting Handle

DQL200N4 Optional Accessories

Carrying Case (P.49)

Part #	Applicable Model Dimension [mm]	Weight [kg]
843	DQL200N4 H60 x W520 x D80	0.36
847	DQL280N and below H170 x W740 x D100	1.0

Protective Head Cover

875

Part #	Applicable Model
875	DQL200N4

TW2

Adjustable Torque Wrench with Multiplier

Direction



RoHS

Assembly Adjustable Ratchet Head Graduation Bi-Directional

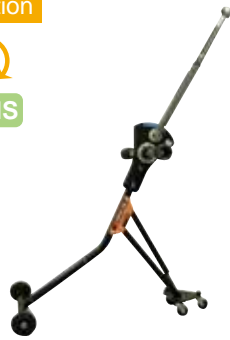
- Easy bolt tightening for large vehicle tires

Accuracy ±5%

Model	Torque Range [N-m]		Square Drive [mm]	Weight [kg]	
	Min.-Max.	Grad.		Body	Torque Wrench
TW750N2	350-750		25.4	20	1.5
TW1000N2	400-1000	5			2.0

- Note
1. TW2 is a set of dedicated torque wrench and stand. Standard torque wrench cannot be used.
 2. Use through hole type socket for square drive 25.4mm.
 3. Socket, pin, and O-ring are sold separately.
 4. Applicable height of nut is between 255 and 790mm

Usage Example



TW750N2

MTQL

Torque Wrench for Motorsports

Direction



RoHS

Assembly Adjustable Ratchet Head Graduation

- Wide capacity adjustable style
- Ideal for motorcycle & motorbike maintenance

Accuracy ±5%

S.I. Model	Torque Range [N-m]		Metric Model	Torque Range [kgf-m]		Overall Length [mm]	Square Drive [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.			
MTQL40N	5-40	0.5	400MTQL	0.5-4	0.05	250		0.45
MTQL70N	10-70		700MTQL	1-7		285	9.5	0.47
MTQL140N	20-140	1	1400MTQL	2-14	0.1	400	12.7	0.77

Standard Accessories Carrying case

MTQL Optional Accessories

842

846

Carrying Case (P.49)

Part #	Applicable Model Dimension [mm]	Weight [kg]
842	MTQL40N, MTQL70N H60 x W400 x D70	0.25
843	MTQL140N H60 x W520 x D80	0.36
846	MTQL140N and below H170 x W500 x D100	1.0

TiQL/TiQLE

Direction

Titanium Type Adjustable Torque Wrench



Assembly	Pre-Lock	Ratchet Head	Graduation	Titanium Material	ISO6789:2017
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- 50% lighter than standard wrenches
- Ideal for working overhead

S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm/kgf·m]		Overall Length [mm]	Square Drive [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.			
TiQL								
TiQL180N	40-180	2	1800TiQL	400-1800	20	494	12.7	0.9
TiQL180N			1800TiQL			594		1.0
TiEQLE360N	80-360		3600TiEQLE	kgf-m	kgf-m	987	19.0	2.4
TiEQLE	N-m	N-m		8-36	0.2			
TiEQLE750N	100-750	5	7500TiEQLE	kgf-m	kgf-m	1365		4.5
TiEQLE1400N	200-1400	10	14000TiEQLE	10-75	0.5	1794		7.5

Note For the model having 25.4mm square drive, use a through-hole socket.

- Standard Accessories
1. Hex key and Color bands for TiQL180N, TiQL180N and TiEQLE360N
 2. Adjusting tool for TiEQLE750N, TiEQLE1400N

TiEQLE Optional Accessories



Adjusting Tool for TiEQLE (P.49)

Part #	Applicable Model
301	TiEQLE750N, 1400N

TiQLLS



- TiQL style with Limit Switch output
- Wired Error-Proofing, Pokayoke, system for assembly processes

S.I. Model	Metric Model
TiQLLS180N	1800TiQLLS
TiQLLS180N	1800TiQLLS
TiQLLS360N	3600TiEQLLS

POKA Patrol, Count Checker CNA-4mk3

Refer to page 27.



* Sold separately

PHL/PHLE2

Direction

Pipe-Wrench Head Type Adjustable Torque Wrench



Assembly	Adjustable	Graduation	Pipe-Wrench Head
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- Ideal for use with pipes and plumbing applications

S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm/kgf·m]		American Model	Torque Range [lbf-in/lbf-ft]		Grippable Pipe Dia. [mm]	Overall Length [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.			
PHL											
PHL50N	10-50	0.5	500PHL3	kgf-cm	kgf-cm	450PHL3-A	lbf-in	lbf-in		316	1.46
PHL100N	20-100	1	900PHL3	100-500	5	900PHL3-A	15-75	lbf-ft		472	1.61
PHL140N	30-140		1400PHL3	400-1400	10	1400PHL3-A	30-100	1	13-38	530	1.76
PHL200N	40-200	2	1800PHL3	400-1800	20	1800PHL3-A	30-150			620	2.3
PHL280N	40-280		2800PHL3	4-28	kgf-m	kgf-m	2800PHL3-A	30-200	2		833
PHL420N	60-420	3	4200PHL	6-42	0.2	4200PHL-A	60-300			1122	4.83
PHLE2	N-m	N-m		kgf-m	kgf-m		lbf-ft	lbf-ft	26-52		
PHLE850N2	200-850	5	8500PHLE2	20-85	0.5	PHLE600F	150-600			1664	8.2
PHLE1300N2	300-1300		13000PHLE2	30-130		PHLE900F	200-900	5		1831	10

- Note
1. PHLE2 Models have extension bar handle.
 2. PHL420N, PHLE850N2, and PHLE1300N2 have knurled handles.
 3. PHLE2 with built-in Adjusting Handle

QRSP

Open Ring Head Type Preset Torque Wrench

Direction



Assembly	Preset	Open Ratchet Head	ISO6789:2017
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- Ring head opens to allow fitting on tubes or pipes.

Model	Torque Range		Overall Length [mm]	Weight [kg]
	[N·m]	[kgf·cm]		
QRSP38Nx17	10-45	100-450	300	0.4
QRSP38Nx19			305	
QRSP38Nx21			310	
QRSP38Nx24			310	

Note A torque wrench tester is necessary for torque setting. Specify required set torque when you order. Ex. QRSP38Nx17 x 25N-m

QRSP Optional Accessories

Thrusting Tool for QRSP (P.49)

Part #	Tool #	Applicable Model
312	A-3	QRSP38N

QRSPLS



- QRSP style with Limit Switch output
- Wired Error-Proofing, Pokayoke, system for assembly processes

Model	Weight [kg]
QRSPLS38Nx17	0.4
QRSPLS38Nx19	
QRSPLS38Nx21	
QRSPLS38Nx24	

POKA Patrol, Count Checker CNA-4mk3

Refer to page 27.



* Sold separately

Torque Wrench for Assembly

PQL

Ratchet Head Type
Pre-Lock Torque
Wrench

Direction



RoHS

Assembly Pre-Lock Ratchet Head Graduation ISO6789:2017

- External scale, set by a hex key



PQL100N4

Accuracy ±3%

S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm/kgf·m]		American Model	Torque Range [lbf·in/lbf·ft]		Overall Length [mm]	Square Drive [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.			
PQL10N	2-10	0.1	100PQL	kgf·cm	kgf·cm	PQL50L-2A	lbf·in	lbf·in	190	6.35	0.19
PQL15N	3-15		150PQL	20-100	1	PQL100L-2A	10-50	0.5			
PQL25N	5-25	0.25	225PQL	50-250	2.5	225PQL-A	40-200	2	215	9.53	0.25
PQL50N	10-50	0.5	450PQL	100-500	5	450PQL-A	100-400	5	260		
PQL100N4	20-100	1	900PQL4	200-1000	10	900PQL4-A	lbf·ft	lbf·ft	320	12.7	0.65
PQL140N	30-140		1400PQL	300-1400		1400PQL-A	30-100	1			
PQL200N4	40-200	2	1800PQL4	400-2000	20	1800PQL4-A	30-150	2	470	19.05	3.4
PQL280N	40-280		2800PQL	4-28		-	-	-	670		
PQL420N	60-420		4200PQL	6-42	0.2	-	-	-	975		

Standard Accessories Hex key for torque adjustment

PQL Optional Accessories



Carrying Case (P.49)

Part #	Applicable Model Dimension [mm]	Weight [kg]
842	50N-100N4 H60 × W400 × D70	0.25
843	140N-200N4 H60 × W520 × D80	0.36
846	200N and below H170 × W500 × D100	1.0
847	280N and below H170 × W740 × D100	0.36

PQL Protective Head Cover (P.49)

PQLLS

RoHS

- PQL style with Limit Switch output
- Wired Error-Proofing, Pokayoke, system for assembly processes

Refer to page 28.

POKA Patrol, Count Checker
CNA-4mk3

Refer to page 27.

PQLZ

Pre-Lock Adjustable
Insulated Torque
Wrench

Direction



PQLZ100N4

Assembly Pre-Lock Graduation Vinyl Coating Insulated ISO6789:2017

- Insulated casing prevents electrical shocks.
- Specialized version of PQL

Accuracy ±3%

S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm]		Overall Length [mm]	Square Drive [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.			
PQLZ25N	5-25	0.25	225PQLZ	50-225	2.5	227	9.5	0.28
PQLZ100N4	20-100	1	900PQLZ4	200-900	10	340	12.7	0.80

Standard Accessories Hex key for torque adjustment

Preset Insulated
Torque Wrench

Direction



QSPZ25N

Assembly Preset Vinyl Coating Insulated ISO6789:2017

- Insulated design suited for use in electric shock hazard conditions
- Ideal for electric car assembly, connection of battery terminal wiring work etc.

Accuracy ±3%

Model	Torque Range			Overall Length [mm]	Square Drive [mm]	Weight [kg]
	[N·m]	[kgf·cm]	[lbf·in]			
	Min.-Max.	Min.-Max.	Min.-Max.			
QSPZ25N	5-25	50-250	50-200	227	9.5	0.28
QSPZ100N4	20-100	200-1000	100-750	334	12.7	0.8

Note
 1. A torque wrench tester is necessary for torque adjustment. Specify required set torque when you order.
 2. Adjusting tools for QSPZ are sold separately.
 3. Sockets are sold separately. Refer to page 44.
 4. Sockets are not insulation coating.

CLWP

Water Proof and
Dust Free Torque
Wrench

Direction



RoHS



CLWP50NX12D



Assembly Pre-Lock Interchangeable Water/Dust Proof ISO6789:2017

- Waterproof and Dustproof torque wrench meets IP55/IP57 rating
- Washable torque wrench
- Anticorrosion coating

Accuracy ±4%

Head Size	Model	Torque Range [N·m]		Overall Length [mm]	Weight [kg]
		Min.-Max.	Grad.		
10D	CLWP15NX10D	5-15	0.25	220.5	0.3
	CLWP25NX10D	10-25			
12D	CLWP50NX12D	20-50	0.5	243	0.5
	CLWP100NX15D	40-100			
15D	CLWP140NX15D	60-140	1	378.5	0.8
	CLWP200NX19D	80-200			

Note
 1. Overall length does not include interchangeable head.
 2. PH type interchangeable head/p.48 is not applicable.
 3. Interchangeable heads are optional. Refer to page 45-48.
 4. Waterproof and dustproof test meets IP55/IP57 by in-house test.

CLWP Optional Accessories

CPQH

Corrosion-resistant
interchangeable ratchet head



CPQH12D

PCL

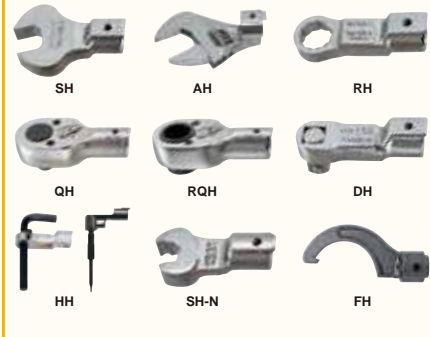
Interchangeable Head Type Pre-Lock Torque Wrench

Direction



RoHS

Interchangeable Head



Assembly Pre-Lock Interchangeable Graduation ISO6789:2017

- Interchangeable head version of PQL
- External scale, set by a hex key



PCL100N×15D

Accuracy ±3%

Head Size	S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm]		American Model	Torque Range [lbf-in/lbf-ft]		Overall Length [mm]	Weight [kg]
		Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.		
8D	PCL10N×8D	2-10	0.1	100PCL	20-100	1	PCL50L×8D	10-50	0.5	170	0.16
	PCL15N×8D	3-15		150PCL	30-150		PCL100L×8D	20-100	1		
10D	PCL25N×10D	5-25	0.25	225PCL	50-250	2.5	225PCL-A	40-200	2	195	0.22
12D	PCL50N×12D	10-50	0.5	450PCL	100-500	5	450PCL-A	100-400	5	220	0.32
	PCL50N×15D			500PCL			500PCL-A	100-450		225	
15D	PCL100N×15D	20-100	1	900PCL	200-1000	10	900PCL-A	15-75	1	295	0.48
	PCL140N×15D	30-140		1400PCL	300-1400		1400PCL-A	30-100		355	
19D	PCL200N×19D	40-200	2	1800PCL	400-2000	20	1800PCL-A	30-150	2	435	1.3

Note 1. Overall length does not include interchangeable head.
2. PH type interchangeable head/p.48 is not applicable.
3. Interchangeable heads are optional.

Standard Accessories Hex key for torque adjustment

PCL Optional Accessories

Carrying Case (P.49)

PCLLS

RoHS

- PCL style with Limit Switch output
- Wired Error-Proofing, Pokayoke, system for assembly processes

Refer to page 28.

POKA Patrol, Count Checker
CNA-4mk3

MT70N

Moto Tork/Pre-Lock Adjustable Specialty Torque Wrench

Direction



RoHS



MT70N

Assembly Pre-Lock Interchangeable Graduation

- Converts basic hand tools into torque wrenches
- Ideal for motorcycle maintenance

Accuracy ±5%

S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·m]		Overall Length [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		
MT70N	10-70	0.2	MT-7	1.0 -7.0	0.02	238	0.65

Note 1. Ring head wrench shown in the photo is not included.
2. Max. clamp width for interchangeable tool is approx. 21mm.
3. Min. interchangeable hex wrench key size is 5mm.

Standard Accessories 1. Carrying case
2. Hex key wrench for torque adjustment

SCL

European Style Interchangeable Head Type Adjustable Torque Wrench

Direction



RoHS



SCL50N-9×12

Assembly Pre-lock Interchangeable Graduation ISO6789:2017

- DIN interchangeable head connection
- Same function of CL

Accuracy ±3%

S.I. Model	Torque Range [N·m]		Head Size [mm]	Overall Length [mm]	Weight [kg]
	Min.-Max.	Grad.			
SCL25N5-9×12	5-25	0.2	9×12	226	0.3
SCL50N-9×12	10-50	0.5		239	0.37
SCL100N-9×12	20-100	1	313	0.52	
SCL200N-14×18	40-200	2	14×18	464	1.2

Note 1. Overall length does not include interchangeable head.
2. Applicable to European style interchangeable head only. Tohnichi's interchangeable heads are not available for SCL models.
3. SCL25N5-9 × 12N is a yellow/black resin grip.

SCSP

European Style Interchangeable Head Type Preset Torque Wrench

Direction



RoHS



SCSP50N-9×12

Assembly Interchangeable Preset ISO6789:2017

- DIN interchangeable head connection
- Same function of CSP

Accuracy ±3%

Model	Torque Range		Head Size [mm]	Overall Length [mm]	Weight [kg]
	[N·m]	[kgf·cm]			
	Min.-Max.	Min.-Max.			
SCSP25N-9×12	5-25	50-250	9×12	204	0.15
SCSP50N-9×12	10-50	100-500		230	0.3
SCSP100N-9×12	20-100	200-1000	302	0.45	
SCSP200N-14×18	40-200	400-2000	14×18	434	1

Note 1. Overall length does not include interchangeable head.
2. Applicable to European style interchangeable head only. Tohnichi's interchangeable heads are not available for SCL models.

QSP

Ratchet Head Type
Preset Torque Wrench

Direction



RoHS

Assembly

Preset

Ratchet Head

ISO6789:2003
2017

- No external scale, torque set by a torque wrench tester
- Ideal for mass production application



QSP100N4

Accuracy ±3%

QSP3/QSP-MH Optional Accessories



931
930



314

Adjusting Tool (P.49)

Part #	Applicable Model
931	QSP1.5N4-12N4, QSP25N3/-MH
930	QSP50N3/-MH ~ 280N3/-MH QSP100N4/-MH, 200N4/-MH
314	QSP420N



873

QSP Protective Head Cover (P.49)

Part #	Applicable model
870	QSP1.5N4 - 12N4
871	QSP25N3(-MH)
872	QSP50N3(MH)
873	QSP100N4(-MH)
874	QSP140N3(-MH)
875	QSP200N4
877	QSP280N3
878	QSP420N

Model	Torque Range			Overall Length [mm]	Square Drive [mm]	Weight [kg]
	[N-m] Min.-Max.	[kgf-cm/kgf-m] Min.-Max.	[lbf-in] Min.-Max.			
QSP1.5N4	0.3-1.5	3-15	2.7-13.2	165	6.35	0.16
QSP3N4	0.6-3	6-30	5.3-26.5			
QSP6N4	1-6	10-60	8.9-53.0			
QSP12N4	2-12	20-120	17.7-106	175	9.53	0.25
QSP25N3-1/4	5-25	50-250	45-221	215		
QSP25N3	10-50	100-500	89-442	240	12.7	1.2
QSP50N3				240		
QSP100N4-3/8	20-100	200-1000	177-885	315	19.05	3.1
QSP100N4				315		
QSP140N3				380		
QSP200N4	40-200	400-2000	354-1769	465	665	1.8
QSP280N3-1/2	40-280	4-28	354-2477	665		
QSP280N3	60-420	6-42	531-3716	970	19.05	3.1
QSP420N				970		

- Note
1. Adjusting tools are sold separately.
 2. A torque wrench tester is necessary for torque setting. Specify required set torque when you order.
Ex. QSP100N4 x 80N-m
 3. QSP200N4-QSP420N have knurled handles.
 4. QSP1.5N4 and QSP3N4 are issued ISO:6789-2003 certificate when request initial torque setting.

QSPLS

- QSP style with Limit Switch output
- Wired Error-Proofing, Pokayoke, system for assembly processes

Refer to page 28.

QSP-MH

Ratchet Head
Type Preset
Torque Wrench
with Metal Handle

Direction



RoHS



QSP100N4-MH

Assembly

Preset

Ratchet Head

ISO6789:2017

- Knurled metal handle version of QSP
- Ideal for oily working conditions

Accuracy ±3%

Model	Torque Range			Overall Length [mm]	Square Drive [mm]	Weight [kg]
	[N-m] Min.-Max.	[kgf-cm] Min.-Max.	[lbf-in] Min.-Max.			
QSP25N3-MH	5-25	50-250	45-221	215	9.5	0.25
QSP50N3-MH	10-50	100-500	89-442	240		
QSP100N4-MH	20-100	200-1000	177-885	315	12.7	0.65
QSP140N3-MH	30-140	300-1400	266-1238	380		

- Note
1. A torque wrench tester is necessary for torque adjustment. Specify required set torque when you order.
Ex. QSP100N4-MH x 80N-m
 2. Adjusting tools for QSP-MH are sold separately.
 3. Sockets are sold separately. Refer to page 44.

BQSP

Bi-Directional Type
Preset Torque Wrench

Direction



RoHS



BQSP70N

Assembly

Preset

Ratchet Head

Bi-Directional

ISO6789:2017

- Click for both CW & CCW applications
- Same function of QSP

Accuracy ±3%

Model	Torque Range			Overall Length [mm]	Square Drive [mm]	Weight [kg]	Adjusting Tool Part #
	[N-m] Min.-Max.	[kgf-cm/kgf-m] Min.-Max.	[lbf-in] Min.-Max.				
BQSP10N	5-10	50-100	44.3-88.5	213.5	6.35	0.2	931
BQSP20N	10-20	100-200	88.5-177				
BQSP40N	20-40	200-400	177-354	240	9.53	0.4	930
BQSP70N	35-70	350-700	310-619	314			
BQSP120N	60-120	600-1200	531-1061	380	12.7	0.73	930
BQSP220N	110-220	1100-2200	974-1946	462			
BQSP300N	150-300	15-30	1328-2654	665	19.05	2.4	314
BQSP400N	200-420	20-42	1770-3716	970.5			

- Note
1. BQSP10N-300N have resin grips.
 2. BQSP400N has a knurled handle.
 3. Adjusting tool is sold separately.
 4. Sockets are sold separately. Refer to page 44.

BQSP Optional Accessories



931
930



314

Adjusting Tool (P.49)

Part #	Applicable Model
931	BQSP10N-20N
930	BQSP40-300N
314	BQSP400N

CSP

Interchangeable Head Type Preset Torque Wrench

Direction



Assembly Preset Interchangeable ISO6789:2003/2017

- Interchangeable head version of QSP
- No external scale, torque set by a torque wrench tester



CSP100N3x15D Accuracy ±3%

Head Size	Model	Torque Range			Overall Length [mm]	Weight [kg]
		[N-m]	[kgf-cm/kgf-m]	[lbf-in]		
		Min.-Max.	Min.-Max.	Min.-Max.		
8D	CSP1.5N4x8D	0.3-1.5	kgf-cm 3-15	2.7-13.2	130	0.2
	CSP3N4x8D	0.6-3	6-30	5.3-26.5	165	
	CSP6N4x8D	1-6	10-60	8.9-53.0		
10D	CSP12N4x8D	2-12	20-120	17.7-106	195	0.3
	CSP25N3x10D	5-25	50-250	45-221	215	
15D	CSP50N3x12D	10-50	100-500	89-442	220	0.45
	CSP50N3x15D	20-100	200-1000	177-885	290	
	CSP140N3x15D	30-140	300-1400	266-1238	350	
19D	CSP200N3x19D	40-200	400-2000	354-1769	430	1.0
			kgf-m			
22D	CSP280N3x22D	40-280	4-28	354-2477	625	1.4
	CSP420Nx22D	60-420	6-42	531-3716	920	2.7

- Note
1. Overall length does not include interchangeable head.
 2. Adjusting tools are sold separately.
 3. Interchangeable heads are optional.
 4. A torque wrench tester is necessary for torque setting. Specify required set torque when you order.
Ex. CSP100N3x15D x 80N-m
 5. CSP200N3x19D-CSP420Nx22D have knurled handles.
 6. CSP1.5N4x8D and CSP3N4x8D are issued ISO:6789-2003 certificate when request initial torque setting.

CSP Optional Accessories



Adjusting Tool (P.49)

Part #	Applicable Model
931	CSP1.5N4-12N4, 25N3/-MH
930	CSP50N3/-MH ~ 280N3/-MH
314	CSP420N

CSPLS

- CSP style with Limit Switch output
- Wired Error-Proofing, Pokayoke, system for assembly processes

POKA Patrol, Count Checker CNA-4mk3

Refer to page 27.



* Sold separately

CSP-MH

Interchangeable Head Type Preset Torque Wrench with Metal Handle

Direction



RoHS



CSP100N3x15D-MH

Assembly Interchangeable Preset ISO6789:2017

- Knurled metal handle version of CSP
- Ideal for oily working conditions

Model	Torque Range			Overall Length [mm]	Weight [kg]
	[N-m]	[kgf-cm]	[lbf-in]		
	Min.-Max.	Min.-Max.	Min.-Max.		
CSP25N3x10D-MH	5-25	50-250	45-221	195	0.2
CSP50N3x12D-MH	10-50	100-500	89-442	215	0.3
CSP50N3x15D-MH				220	
CSP100N3x15D-MH	20-100	200-1000	177-885	290	0.45
CSP140N3x15D-MH	30-140	300-1400	266-1238	350	0.55

1. A torque wrench tester is necessary for torque adjustment. Specify required set torque when you order.
Ex. CSP100N3x15D-MH x 80N-m
2. Adjusting tools for CSP-MH are sold separately.
3. Interchangeable heads are optional.

BCSP

Bi-Directional Interchangeable Head Type Preset Torque Wrench

Direction



RoHS



BCSP70Nx15D

Assembly Preset Interchangeable Bi-Directional ISO6789:2017

- Click for both CW & CCW applications
- Same function of CSP

Head Size	Model	Torque Range			Overall Length [mm]	Effective Length [mm]	Weight [kg]	Adjusting Tool Part #
		[N-m]	[kgf-cm/kgf-m]	[lbf-in]				
		Min.-Max.	Min.-Max.	Min.-Max.				
8D	BCSP10Nx8D	5-10	kgf-cm 50-100	44.3-88.5	189.5	176	0.2	931
10D	BCSP20Nx10D	10-20	100-200	88.5-177	192.5	186		
12D	BCSP40Nx12D	20-40	200-400	177-354	214	208	0.23	
	BCSP70Nx12D	35-70	350-700	310-619	286	280		
15D	BCSP70Nx15D				290	291	0.57	930
	BCSP120Nx15D	60-120	600-1200	531-1061	348.5	349.5		
19D	BCSP220Nx19D	110-220	1100-2200	974-1946	427	445	1.2	
			kgf-m					
22D	BCSP300Nx22D	150-300	15-30	1328-2654	625	660	2	
	BCSP400Nx22D	200-420	20-42	1770-3716	918	950		

- Note
1. Overall length does not include interchangeable head. Interchangeable heads are optional.
 2. BCSP10N-300N have resin grips.
 3. BCSP400N has a knurled handle.
 4. Adjusting tool is sold separately.

BCSP Optional Accessories

Adjusting Tool (P.49)

Part #	Applicable Model
931	BCSP10N-20N
930	BCSP40N-300N
314	BCSP400N

SP-SP2/-MH RSP2/-MH

Open End/
Ring Head
Type Preset
Torque
Wrench

Assembly

Preset

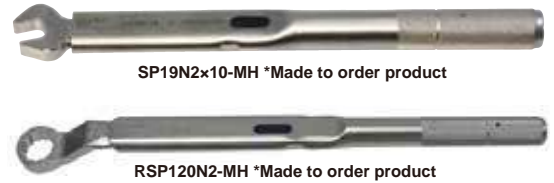
Open End Spanner

Ring Head

ISO6789:2003
2017

- Various sizes of open end or ring heads fixed on wrench
- Ideal for specific bolt size application

Direction



Model (Body Size x Width)		Torque Range		Head Dimension O.W. x Thickness [mm]	Overall Length [mm]	Weight [kg]			
SP2	SP2-MH	[N-m] Min.-Max.	[kgf-cm] Min.-Max.						
SP2N2x5.5	-	0.4-2	4-20	17 x 5	168	0.15			
SP2N2x7	-			18 x 5	169				
SP2N2x8	-			19 x 5	171				
SP2N2x10	-			21 x 5	173				
SP2N2x12	-			23 x 5	175				
SP2N2x13	-			24 x 5	176				
SP2N2x17	-			27 x 5	180				
SP2N2x19	-			28 x 8	180				
SP8N2x7	-			18 x 5	169				
SP8N2x8	-			19 x 5	171				
SP8N2x9	-	20 x 5	172						
SP8N2x10	-	21 x 5	173						
SP8N2x12	-	1.5-8	15-80	23 x 5	175	0.21			
SP8N2x13	-			24 x 5	176				
SP8N2x19	-			28 x 8	180				
SP8N2x24	-			33 x 8	186				
SP8N2x27	-			36 x 8	189				
SP19N2x10	SP19N2x10-MH			3.5-19	35-190		27 x 6.5	202 (202)	0.37
SP19N2x11	SP19N2x11-MH						203 (204)		
SP19N2x12	SP19N2x12-MH						204 (204)		
SP19N2x13	SP19N2x13-MH						204 (204)		
SP19N2x14	SP19N2x14-MH						204 (205)		
SP19N2x17	SP19N2x17-MH	31 x 8	208 (208)						
SP19N2x19	SP19N2x19-MH	33 x 8	209 (210)						
SP19N2x21	SP19N2x21-MH	35 x 8	211 (212)						
SP19N2-1x10	SP19N2-1x10-MH	24 x 12	205 (205)						
SP19N2-2x10	SP19N2-2x10-MH	24 x 20	204 (204)						
SP19N2-3x10	SP19N2-3x10-MH	24 x 15	205 (205)						
SP38N2x8	SP38N2x8-MH	8-38	80-380	31 x 8	220 (220)	0.48			
SP38N2x9	SP38N2x9-MH			222 (221)					
SP38N2x10	SP38N2x10-MH			222 (222)					
SP38N2x11	SP38N2x11-MH			223 (223)					
SP38N2x12	SP38N2x12-MH			35 x 8	225 (225)				
SP38N2x13	SP38N2x13-MH			226 (226)					
SP38N2x14	SP38N2x14-MH			230 (230)					
SP38N2x16	SP38N2x16-MH			38 x 8	231 (231)				
SP38N2x17	SP38N2x17-MH			41 x 8	234 (234)				
SP38N2x19	SP38N2x19-MH			43 x 8	236 (236)				
SP38N2x22	SP38N2x22-MH	45 x 8	240 (239)						
SP38N2x24	SP38N2x24-MH	13-67	130-670	24 x 12	221 (221)	0.75			
SP38N2x27	SP38N2x27-MH			25 x 20	223 (223)				
SP38N2-1x10	SP38N2-1x10-MH			24 x 15	221 (221)				
SP38N2-2x10	SP38N2-2x10-MH			35 x 10	285 (284)				
SP38N2-3x10	SP38N2-3x10-MH			37 x 10	287 (286)				
SP67N2x14	SP67N2x14-MH			38 x 10	288 (287)				
SP67N2x16	SP67N2x16-MH			39 x 10	289 (287)				
SP67N2x17	SP67N2x17-MH			40 x 10	290 (289)				
SP67N2x18	SP67N2x18-MH			42 x 10	292 (291)				
SP67N2x19	SP67N2x19-MH			43 x 10	293 (292)				
SP67N2x21	SP67N2x21-MH	44 x 11	299 (298)						
SP67N2x22	SP67N2x22-MH	47 x 11	303 (301)						
SP67N2x24	SP67N2x24-MH	24-120	240-1200	49 x 11	304 (303)	0.9			
SP67N2x27	SP67N2x27-MH			50 x 11	305 (304)				
SP67N2x29	SP67N2x29-MH			52 x 11	307 (306)				
SP67N2x30	SP67N2x30-MH			54 x 11	308 (307)				
SP67N2x32	SP67N2x32-MH			42 x 10	360 (359)				
SP67N2x33	SP67N2x33-MH			45 x 10	362 (361)				
SP120N2x14	SP120N2x14-MH			46 x 10	364 (364)				
SP120N2x17	SP120N2x17-MH			47 x 10	365 (364)				
SP120N2x18	SP120N2x18-MH			50 x 10	368 (367)				
SP120N2x19	SP120N2x19-MH			30-160	300-1600		51 x 11	369 (368)	1.5
SP120N2x21	SP120N2x21-MH	53 x 12	370 (369)						
SP120N2x22	SP120N2x22-MH	55 x 14	373 (373)						
SP120N2x23	SP120N2x23-MH	50 x 10	368 (367)						
SP120N2x24	SP120N2x24-MH	52 x 12	369 (369)						
SP120N2x27	SP120N2x27-MH	55 x 12	373 (373)						
SP120N2x30	SP120N2x30-MH	53 x 12	369 (369)						
SP160N2x19	SP160N2x19-MH	55 x 12	373 (373)						
SP160N2x21	SP160N2x21-MH	53 x 12	369 (369)						
SP160N2x22	SP160N2x22-MH	55 x 12	373 (373)						
SP160N2x24	SP160N2x24-MH	70 x 14	386 (386)						
SP160N2x26	SP160N2x26-MH								
SP160N2x27	SP160N2x27-MH								
SP160N2x41	SP160N2x41-MH								

Model (Body Size x Width)		Torque Range		Head Dimension O.W. x Thickness [mm]	Overall Length [mm]	Weight [kg]			
SP/SP2	SP2-MH	[N-m] Min.-Max.	[kgf-cm] Min.-Max.						
SP220N2x19	SP220N2x19-MH	45-220	450-2200	53x13	448 (447)	1.3			
SP220N2x22	SP220N2x22-MH			56x13	451 (450)				
SP220N2x24	SP220N2x24-MH			58x13	453 (452)				
SP220N2x27	SP220N2x27-MH			61x13	456 (455)				
SP220N2x29	SP220N2x29-MH			63x13	458 (458)				
SP220N2x30	SP220N2x30-MH			63x13	460 (460)				
SP220N2x32	SP220N2x32-MH			65x13	464 (464)				
SP220N2x34	SP220N2x34-MH			67x15	463 (463)				
SP220N2x36	SP220N2x36-MH			72x15	468 (467)				
SP310N2x22	SP310N2x22-MH			65-310	650-3100		60x14	647 (646)	1.8
SP310N2x24	SP310N2x24-MH	62x14	648 (647)						
SP310N2x27	SP310N2x27-MH	65x14	651 (650)						
SP310N2x30	SP310N2x30-MH	68x14	654 (653)						
SP310N2x32	SP310N2x32-MH	70x14	655 (654)						
SP310N2x41	SP310N2x41-MH	80x15	670 (670)						
SP310N2x46	SP310N2x46-MH	85x15	671 (671)						
SP420N2x27	-	90-420	900-4200			78x18	840	3.3	
SP420N2x30	-					81x19	995		
SP420N2x32	-					83x19	1000		
SP420N2x34	-			87x19	1005				
SP420N2x35	-			97x19	1005				
SP420N2x36	-			104x19	1010				
SP560N2x30	-			130-560	1300-5600	81x19	995		4.5
SP560N2x32	-					83x19	1000		
SP560N2x36	-					87x19	1005		
SP560N2x46	-					97x19	1005		
SP560N2x55	-	104x19	1010						

Model (Body Size x Width)		Torque Range		Head Dimension O.W. x Thickness [mm]	Overall Length [mm]	Weight [kg]
RSP2	RSP2-MH	[N-m] Min.-Max.	[kgf-cm] Min.-Max.			
RSP8N2x8	-	2-9	20-90	15x6	200	0.15
RSP8N2x10	-			17.5x7	205	
RSP19N2x8	RSP19N2x8-MH	4-14.1	40-141	15x6	220 (220)	0.2
RSP19N2x10	RSP19N2x10-MH			17.5x7	221 (221)	
RSP19N2x13	RSP19N2x13-MH	4-21	40-210	22x7	223 (223)	0.35
RSP38N2x10	RSP38N2x10-MH			9-24.2	90-242	
RSP38N2x12	RSP38N2x12-MH	9-29.5	90-295	20.5x8	247 (247)	0.45
RSP38N2x13	RSP38N2x13-MH			21.5x8	246 (246)	
RSP38N2x14	RSP38N2x14-MH	9-42	90-420	23.5x9	247 (247)	0.8
RSP38N2x16	RSP38N2x16-MH			26x9	248 (248)	
RSP38N2x17	RSP38N2x17-MH	14-59	140-590	27.5x9	312 (311)	0.9
RSP67N2x14	RSP67N2x14-MH			25x10	312 (311)	
RSP67N2x16	RSP67N2x16-MH	14-73	140-730	27x10	313 (312)	1.5
RSP67N2x17	RSP67N2x17-MH			29x12	314 (313)	
RSP67N2x18	RSP67N2x18-MH	24-100	250-1000	29.5x12	315 (314)	0.8
RSP67N2x19	RSP67N2x19-MH			30x12	315 (314)	
RSP120N2x17	RSP120N2x17-MH	24-100	250-1000	29.4x12	393 (393)	0.9
RSP120N2x18	RSP120N2x18-MH			30.6x12	394 (393)	
RSP120N2x19	RSP120N2x19-MH	24-120	250-1270	31.8x13	394 (394)	1.5
RSP120N2x21	RSP120N2x21-MH			34x13	396 (396)	
RSP120N2x22	RSP120N2x22-MH	30-160	320-1700	35x13	396 (396)	2
RSP160N2x19	RSP160N2x19-MH			32.8x13	395 (394)	
RSP160N2x21	RSP160N2x21-MH	45-220	480-2300	34x13	396 (395)	1.5
RSP160N2x22	RSP160N2x22-MH			35x13	396 (396)	
RSP160N2x24	RSP160N2x24-MH	45-220	480-2300	38x15	398 (397)	1.5
RSP220N2x22	RSP220N2x22-MH			38.4x13	480 (479)	
RSP220N2x24	RSP220N2x24-MH	45-220	480-2300	40x13	481 (480)	1.5
RSP220N2x27	RSP220N2x27-MH			45x13	483 (482)	
RSP310N2x24	RSP310N2x24-MH	65-255	680-2550	41.8x15	678 (678)	2
RSP310N2x27	RSP310N2x27-MH			45x15	680 (680)	
RSP310N2x30	RSP310N2x30-MH	65-310	680-3200	50x15	682 (681)	

- Note
1. The value shown in () in the "Overall Length" shows the length of SP2-MH models.
 2. Due to a variety of SP2/RSP2 models, specify required inner width, model name and set torque when you order.
Ex. RSP38N2x10 x 16N-m
 3. Refer to page 49 for thrusting and adjusting tool.
 4. SP2-MH, RSP2-MH models are made to order products.
 5. SP2N2 models are issued ISO:6789-2003 certificate when request torque setting.

SP-SP2-RSP2/-MH Optional Accessories

Thrusting Tool / Adjusting Tool (P.49)

SP2-H Torque Wrench for Piping Work

Direction



RoHS



SP38N2x19H



Assembly Preset Open End Spanner ISO6789:2017

- Made with smaller outside width to work in narrow spaces, including hydraulic piping, where current open-end type is unable to access.
- Aligned with appropriate inner widths commonly used for hydraulic piping applications.

Accuracy ±3%

Model (Body Size x Width)	Torque Range		Minimum Piping Pitch [mm]	Head Dimension (O.W. x Thickness) [mm]	Overall Length [mm]	Weight [kg]	Adjusting Tool Part #
	[N·m]	[kgf·cm]					
SP2-H	Min.-Max.	Min.-Max.					
SP38N2x14H	8-25	80-250	26	26.3x8	220	0.37	930
SP38N2x19H	8-39	80-390	35	33.1x8	224	0.48	
SP67N2x27H	13-67	130-670	46	43.6x11	294	0.75	
SP120N2x32H-MH	24-120	240-1200	54	51.6x14	363	0.75	

- Note
1. Minimum piping pitch is required.
 2. A torque wrench tester is necessary for torque setting. Specify required set torque when you order.
Ex. SP38N2x14H x 25N·m
 3. SP120N2x32H-MH is a knurled handle. Others are resin handles.

Adjusting Tool (P.49) * Sold separately

Part #	Applicable Model
930	SP38N2-H, SP67N2-H, SP120N2x32H-MH

SP2-N/-MH

Direction



RoHS



SP19N2-1x10N



SP19N2-1x10N-MH
*Made to order product



Head Shape "Even"



Head Shape "All down"

Assembly Preset Notched Head ISO6789:2017

- Notch creates speed in tightening process.
- Ideal for brake lines

Accuracy ±3%

Model (Body Size x Width)		Torque Range		Head Dimension		Overall Length [mm]	Weight [kg]	Adjusting Tool Part #
		[N·m]	[kgf·cm]	O.W. x Thickness [mm]	Head Shape			
SP2-N	SP2-N-MH	Min.-Max.	Min.-Max.					
SP19N2-1x10N	SP19N2-1x10N-MH			24x12	Even	203	0.21	931
SP19N2-3x10N	SP19N2-3x10N-MH			24x15				
SP19N2-4x10N	SP19N2-4x10N-MH	3.5-19	35-190	24x10	All down			
SP19N2-5x10N	SP19N2-5x10N-MH			24x15				
SP19N2-9x10N	SP19N2-9x10N-MH			24x10				
SP38N2x14N	SP38N2x14N-MH	8-38	80-380	35x8	Even	224	0.37	930

- Note
1. A torque wrench tester is necessary for torque setting. Specify required set torque when you order.
Ex. SP19N2-1x10N x 15N·m
 2. Adjusting tool for SP19N2-N/-MH is 931 and for SP38N2-N/-MH is 930.
 3. SP2-N-MH models are made to order products.

SPLS2-N/-MH

- SP-N style with Limit Switch output
- Wired Error-Proofing, Pokayoke, system for assembly processes

Accuracy ±3%

Model (Body Size x Width)		Torque Range		Head Dimension		Overall Length [mm]	Weight [kg]	Adjusting Tool Part #
		[N·m]	[kgf·cm]	O.W. x Thickness [mm]	Head Shape			
SPLS2-N	SPLS2-N-MH	Min.-Max.	Min.-Max.					
SPLS19N2-1x10N	SPLS19N2-1x10N-MH			24x12	Even	203	0.36	931
SPLS19N2-3x10N	SPLS19N2-3x10N-MH			24x15				
SPLS19N2-4x10N	SPLS19N2-4x10N-MH	3.5-19	35-190	24x10	All down			
SPLS19N2-5x10N	SPLS19N2-5x10N-MH			24x15				
SPLS19N2-8x10N	SPLS19N2-8x10N-MH			24x12				
SPLS19N2-9x10N	SPLS19N2-9x10N-MH			24x10	Even	224	0.52	930
SPLS38N2x14N	SPLS38N2x14N-MH	8-38	80-380	35x8				

- Note
1. The curl cord length of SPLS19N2-8x10N is about 5m in full extension. Others are extended to about 2m in full extension.
 2. Adjusting tool for SPLS19N2-N/-MH is 931 and for SPLS38N2-N/-MH is 930.
 3. SPLS2-N-MH models are made to order products.

NSP100CNx8

Break-Over Torque Wrench



NSP100CNx8

Assembly Preset Open End Spanner Break-Over ISO6789:2003

- Ideal for SMA connector tightening
- 90 degree of "breaking" upon reaching the set torque to reduce the possibility of over-torque

Accuracy ±5%

Model (Body Size x Width)	Torque Range [cN·m]	Head Dimension [mm]	Overall Length [mm]	Weight [kg]
NSP100CNx8	Min.-Max. 50-100	16x4	128	0.33

- Note
1. A torque wrench tester is necessary for torque setting. Specify required set torque when you order.



■ NSP Optional Accessories

QSPCA Slip Type Torque Wrench

Direction



QSPCA6N



QSPCA30N



QSPCA70N

Assembly Preset Ratchet Head Slip Type ISO6789:2017

- Cam action mechanism generates a 45 degree "slip" action.
- No torque variation by gripping point
- Conforms to the Electrostatic Discharge (ESD) standard

Model	Torque Range			Overall Length [mm]	Sq. Drive [mm]	Weight [kg]	Accuracy [%]
	Min.-Max. [N·m]	Min.-Max. [kgf·cm]	Min.-Max. [lbf·in]				
QSPCA6N	2-6	20-60	20-50	197	6.35	0.33	±6%
QSPCA12N	4-12	40-120	40-100				±4%
QSPCAMS6N	2-6	20-60	20-50				±6%
QSPCAMS12N	4-12	40-120	40-100	267	9.53	0.64	±4%
QSPCA30N	10-30	100-300	90-265				
QSPCA70N	20-70	200-700	180-619				
QSPCALS30N	10-30	100-300	90-265	346	9.53	0.81	±4%
QSPCALS70N	20-70	200-700	180-619				

Note

1. A torque wrench tester is necessary for torque setting. Specify required set torque when you order. Ex. QSPCA6N x 5N·m
2. Adjusting tools for QSPCA are sold separately.
3. Limit Switch specifications are AC30V below 1A, DC30V below 1A.
4. Standard curl cord can be extended to about 2m in full extension.
5. Female connector for LS cable is sold separately. Part# WA5219K.
6. QSPCA70N and QSPCALS70N have knurled handles.

QSPCAMS/ QSPCALS

- QSPCA style with Limit Switch output
- Wired Error-Proofing, Pokayoke, system for assembly processes

RoHS

POKA Patrol, Count Checker CNA-4mk3

Refer to page 27.



* Sold separately



QSPCAMS6N



QSPCAMS12N

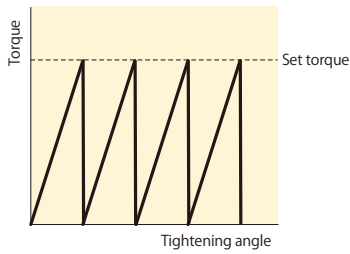


QSPCALS30N



QSPCALS70N

Wave form of slip type torque wrench



QSPCA Optional Accessories



931

930

Adjusting Tool (P.49)

Part #	Applicable Model
931	QSPCA6N, QSPCAMS6N QSPCA12N, QSPCAMS12N
930	QSPCA30N, QSPCALS30N QSPCA70N, QSPCALS70N QSPCAFH30N, QSPCAFH70N

QSPCAFHP/FHM

- Wireless error-proofing, Pokayoke, system

RoHS

Receiver R-CM

Refer to page 29 for wireless Pokayoke system configuration.

* Sold separately



Model
QSPCAFHP6N
QSPCAFHP12N

Model
QSPCAFHLSM30N
QSPCAFHLSM70N



QSPCAFHP12N



QSPCAFHLSM70N

Note QSPCAFHP transmitter is not provided separately.

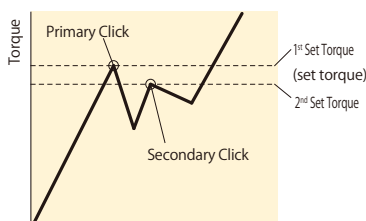
YCL2 Two Step Motion Torque Wrench

Direction



YCL90N2x15D

Wave form of two step motion torque.



Assembly Adjustable Interchangeable Graduation Two Step Motion ISO6789:2017

- Two step motion prevents over-torque.
- Suitable for assembly of critical parts
- Easy torque setting by graduation
- Interchangeable head

Head Size	S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm]		American Model	Torque Range [lbf-in/lbf-ft]		Max Hand Force [N]	Effective Legthe [mm]	Overall Length [mm]	Weight [kg]	Accuracy ±3%
		Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.					
					lbf-in	lbf-ft								
10D	YCL10N2x10D	5-10	0.10	100YCL2	50-100	1	YCL100I	50-100	1	46.5	215	245	0.35	
	YCL20N2x10D	10-20	0.20	200YCL2	100-200	2	YCL200I	100-200	2	93				
12D	YCL40N2x12D	20-40	0.25	400YCL2	200-400	2.5	YCL400I	200-400	2.5	145.5	275	309	0.53	
	YCL70N2x12D	35-70	0.50	700YCL2	350-700	5	YCL600I	300-600	5	254.5				
15D	YCL90N2x15D	45-90	0.25	900YCL2	450-900	2.5	YCL750I	400-750	2.5	236.8	380	414	1.05	
	-	-	-	-	-	-	YCL1000I	600-1000	5	-				
19D	YCL140N2x15D	70-140	0.50	1400YCL2	700-1400	5	YCL100F	45-100	0.5	368.4	310	579	607	1.75
	YCL180N2x19D	90-180	-	1800YCL2	900-1800	-	-	-	-	-				
-	-	-	-	-	-	-	YCL150F	80-150	0.5	-	-	-	-	-

CPT-G

PRO TORK/
Digital Torque
Wrench for
Tightening

Direction



RoHS

PRO TORK™



CPT50x12D-G



CPT100x15D-G

How to Order:

[Ex. 1] CPT100x15D-G-SET

* "Set" model version
with standard accessories

[Ex. 2] CPT200x19D-G

* "Torque Wrench Only" version
without standard accessories

CPT-G Optional Accessories



844

Carrying Case for "SET" model only

Part #	Applicable Model Dimension [mm]	Weight [kg]
844	CPT20x10D-G ~ CPT100x15D-G H170 x W500 x D100	1.0
845	CPT200x19D-G, CPT280x22D-G H170 x W740 x D100	1.6



585



Connecting to CPT-G

Connecting Cable

Part #	Applicable Model
585	CPT-G - PC (D-Sub 9 Pin Female)

Data Processing Software

Model
EXCEL RECEIVER

Assembly	Digital	Interchangeable	Signal	Battery	ISO6789:2003
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- Highly responsive to the applied torque value with indicator display
- Equipped with bright LED lamp indicating current torque level
- 5 changeable units of measure through keypad set up
- Data memory, torque set registration and output functions

"Torque Wrench Only" Models

Model	Torque Range										Overall Length [mm]	Weight [kg]
	[N-m]		[kgf-cm]		[kgf-m]		[lbf-in]		[bf-ft]			
	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit		
CPT20x10D-G	4-20	0.02	40-200	0.2	0.4-2	0.002	36-180	0.2	3-14.5	0.02	280.5	0.63
CPT50x12D-G	10-50	0.05	100-500	0.5	1-5	0.005	100-440	0.5	7.5-36	0.05	282.5	0.65
CPT100x15D-G	20-100	0.1	200-1000	1	2-10	0.01	200-880	1	15-73	0.1	384.5	0.85
CPT200x19D-G	40-200	0.2	400-2000	2	4-20	0.02	360-1700	2	30-150	0.2	475.5	1.37
CPT280x22D-G	56-280		560-2800		5.6-28		500-2400		42-200		591.5	

- Note
1. "Torque Wrench Only" version is provided in basic carton product box and does not include TQH Head, Batteries, Storage Case.
 2. "Overall Length" does not include the length of interchangeable head TQH.
 3. "Weight" does not include the weight of interchangeable head TQH and batteries.
 4. Interchangeable heads are sold separately. Refer to page 45-48.

"Set" Models including Accessories

Model	Standard Accessory			
	Ratchet Head		Battery	Storage Case
	Model	Sq. Drive [mm]		
CPT20x10D-G-SET	TQH10D	9.5	AA Alkaline	Small
CPT50x12D-G-SET	TQH12D			
CPT100x15D-G-SET	TQH15D	12.7	Battery (2 pcs)	Large
CPT200x19D-G-SET	TQH19D			
CPT280x22D-G-SET	TQH22D	19.0		

Note Recommendation: Use 2xAA Ni-MH batteries for longer continuous use.

CPT-G Common Specifications

Accuracy	±3% of indicated value
Tightening Direction	Clockwise/Counter clockwise
Display/Character Height	14 segment LCD 6 digits/7mm
	7 segment LCD 4 digits/3mm
Battery Life Indicator	4 steps
Number of Data Memory	50
Torque Setting Memory	Preset Tightening mode: 10 torque values to register
	Judgment Tightening mode: Up to 10 values of each Upper/Lower/Tightening direction
Basic Function	Auto power off (3 minutes)
	Auto memory/Reset
	Auto zero
	Over torque alarm
Power	AA battery x 2pcs
Continuous Use	40 hours
Operating Condition	0-40 Celsius below 85%RH (no condensation)

Several different tightening modes available to cater to a variety of applications. Quick and accurate tightening while preventing errors.

Modes include:

[Preset Tightening Mode](#), [Judgment Tightening Mode](#), [Peak/Run Modes](#)

* Retightening/loosening torque is performed in the Peak Mode.

Preset Tightening Mode: Allows user to set the target torque with specific % of torque allowable beyond target, then the red LED moves towards the right to indicate the level of the applied torque. When it reaches the target torque range, the blue LED blinks and the buzzer signals tightening completion.

Judgment Tightening Mode: Allows user to set judgment ranges for lower/upper limit in the tightening operation. Upon tightening completion a judgment is made as torque value is stored in the memory.

Display example 1



Preset Tightening Mode
Red LED shows the level of the applied torque

Display example 2



Judgment Tightening Mode
As torque is being applied prior to completion

Display example 3



Judgment Tightening Mode
The case of exceeding target torque range

CTA2-G

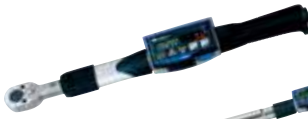
Digital Torque and Angle Wrench

Direction



RoHS

CTA100N2x15D-G



CTA500N2x22D-G



Assembly	Digital	Interchangeable	Signal	Re-Chargeable	ISO6789:2003
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- Snug and angle setting functions
- Buzzer/Light alerts to snug torque and angle completion
- Angle mode activates automatically, once snug torque is achieved.

Accuracy ±1%

Model	Torque Range [N·m]		Torque Range [kgf·m]		Torque Range [lbf·ft]		Angle Measuring Range		Angle Accuracy	Overall Length [mm]	Weight [kg]	Interchangeable Head
	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit				
CTA50N2x12D-G	(2.5) 10-50	0.05	(0.25) 1-5	0.005	(1.85) 7.5-36.5	0.05			±2°+1digit (Angular velocity is 30°/X~180°/s when the bolt turned to 90°)	282	0.58	QH12D
CTA100N2x15D-G	(5) 20-100	0.1	(0.5) 2-10	0.01	(3.8) 15-75	0.1				384	0.63	QH15D
CTA200N2x19D-G	(10) 40-200	0.2	(1) 4-20	0.02	(7.5) 30-150	0.2				475	0.78	QH19D
CTA360N2x22D-G	(18) 72-360	0.4	(1.8) 7-36	0.05	(13) 52-260	0.5	0-999°	1°		713	1.13	QH22D
CTA500N2x22D-G	(25) 100-500	0.5	(2.5) 10-50	0.05	(18) 72-360	0.5				949	4	
CTA850N2x32D-G	(43) 170-850	1.0	(4.3) 17-85	0.1	(31) 124-620	1			1387	5.14	QH32D	

Note

1. The value shown in () shows the lowest snug torque. Accuracy cannot be guaranteed for snug torque set beyond the operative torque range.
2. Overall length does not include interchangeable head.
3. PH (Pipe wrench head) type interchangeable head cannot be used with this model.
4. CTA500N2x22D-G and CTA850N2x32D-G have knurled handles.

Standard Accessories

Battery pack/BP-5, QH interchangeable head (P.45), Quick battery charger/BC-3-G (100-240V), cable/584

Torque Wrench for Assembly

CTA2 Optional Accessories

Battery Pack (P.50)

Model
BP-5

Quick Battery Charger (P.50)

Model	Voltage
BC-3-G	100-240V

Printer (P.68)

Model
EPP16M3

Connecting Cable (P.49)

Part #	Applicable Model
575	CTA2-G - PC, EPP16M3 (D-SUB 9 Pin Female)
584	CTA2-G - PC (USB A Type)

Note

1. () shows pin shape of the connecting cables.
2. Contact Tohnichi for other types of connecting cables.

Carrying Case (P.49)

Model	Applicable Model Dimension [mm]	Weight [kg]
846	CTA50N2x12D-G, CTA100N2x15D-G H170 x W500 x D100	1.0
847	CTA200N2x19D-G, CTA360N2x22D-G H170 x W740 x D100	1.6

CTA2-G Features 2 Tightening Modes: Single Spindle and Production Tightening Modes

1. Single Spindle Tightening Mode: For angle method tightening of a single bolt tightening with snug torque, tightening angle and tightening angle upper limit settings.

2. Production Tightening Mode: For angle method tightening of multi spindle, with tightening torque, snug torque, 1st, 2nd and 3rd tightening angle, each upper limited angle, the numbers of spindles are registered.

By using the included software package, various settings can be done through the PC and transferred to the wrench with the final tightening values being sent back to an Excel spreadsheet.



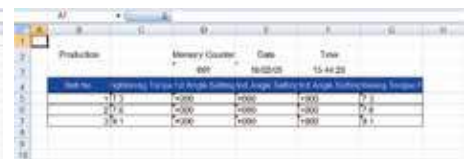
Single spindle tightening mode setting display



Production tightening mode setting display



Output data in single spindle tightening mode



Output data in production tightening mode

CTA2-G Common Specifications

Data Memory	999 data (Tightening torque, 1st angle value, 2nd angle value, 3rd angle value and final torque value)
Measurement Mode	Single spindle/Production mode
Data Output	RS232C compliant
Zero Adjustment	Auto zero (Angle, Torque)
Power	Ni-MH rechargeable battery
Continuous Use	20 hours with fully charged (8 hours by 1 hour recharging)
Recharging Time	3.5 hours
Operating Temperature [°C]	0-40

Other Functions	Snug torque, Tightening torque, Max. tightening torque, 1st, 2nd, 3rd angle, 1st, 2nd, 3rd max. angle, Number of bolts, Auto reset, Judgment, Setting through PC, Battery indicator
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DWQL

Analog Torque Wrench with Digital Angle Module

Direction



RoHS



DWQL100N



* M-DW shows 20° from snug torque.

Assembly Adjustable Digital Ratchet Head Graduation ISO6789:2003

- Easily apply snug torque with "click" followed by angle with integrated digital angle display.
- Digital angle starts once snug torque setting is achieved.
- Correct angle is calculated and shown even when ratcheting feature is used.

Accuracy ±3%

S.I. Model	Torque Range [N·m]		Angle Range		Angle Accuracy	Overall Length [mm]	Weight [kg]
	Min.-Max.	Grad.	Min.-Max.	1 digit			
DWQL50N	(5) 10-50	0.5			±2°+1digit (Angular velocity is 30°/s-180°/s when the bolt is turned to 90°.)	260	0.62
DWQL100N	(10) 20-100	1				335	0.86
DWQL140N	(25) 30-140					400	1.00
DWQL200N	(30) 40-200		0-999°	1		490	1.6
DWQL280N	(30) 40-280	2				695	2.2
DWQL420N	(40) 60-420					995	3.6

- Note**
1. The capacity values in the () are minimum setting values for snug torque, but these values are not within guaranteed accuracy range.
 2. A value in the () might not be exact same when purchased M-DW is installed on LS torque wrench.
 3. Certificates of calibration for both torque and angle are included.
 4. Prior to use, confirm final applied torque value do not exceed max torque of the tool.

M-DW

- Convert torque wrench with limit switch to angle torque wrench by installing M-DW.

Digital Angle Module

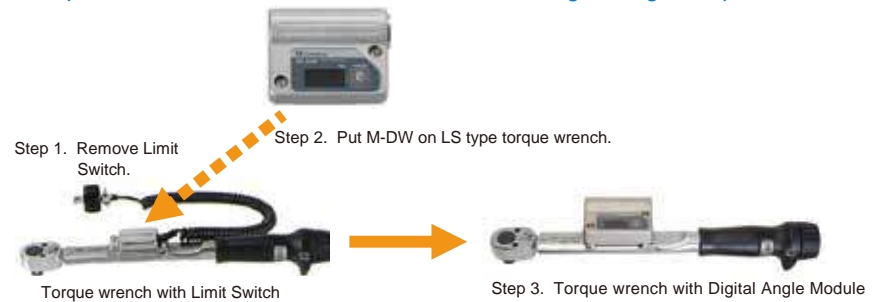
Model	Description
M-DW	Angle module for torque wrench with limit switch

- Note**
1. M-DW can be installed on torque wrench with limit switch except for the following models: QSPCAL5, ALS, ACLS, and MS type torque wrench. Refer to page 28.
 2. Operate within torque range of installed torque wrench.
 3. Certificate of angle calibration is attached.

M-DW Specifications

Range of Angle	0-999°
1digit	1°
Angle Accuracy	±2°+1digit (Angular velocity is 30°/s-180°/s when the bolt is turned to 90°.)
Display	7 segments LED, 3 digits/Character height 10mm
Continuous Operation	60 hours
Operating Condition	0-40°C Below 85%RH (no condensation)
Standard Accessories	Limit switch with connector 1 pc.
	Screw & Washer: 2 pcs. per each
	Operating instruction, AAA battery: 1 pc.
Weight	0.12kg

- Torque wrench with Limit Switch is converted to digital angle torque wrench.



WQL

Analog Torque and Angle Wrench

Direction



RoHS



WQL100N4

Assembly Ratchet Head Graduation Angle Direct Reading ISO6789:2017

- Includes built-in protractor with flexible arm
- Specialized version of QL

Accuracy ±3%

S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm/kgf·m]		Torque Range [lbf·in/lbf·ft]		Sq. Drive [mm]	Overall Length [mm]	Angle Scale		
	Min.-Max.	Grad.		Min.-Max.	Grad.	Min.-Max.	Grad.			Max.	Grad.	
WQL50N	(5) 10-50	0.5	450WQL3	kgf·cm	kgf·m	lbf·in	lbf·in	9.5	260			
				(50) 100-500	0.5	450WQL3-A	(40) 100-400	5				
WQL100N4	(10) 20-100	1	900WQL4	(100) 200-1000	1	900WQL4-A	(7) 15-75	1	12.7	345	360°	2°
WQL200N4	(30) 40-200		1800WQL4	(300) 400-2000	2	1800WQL4-A	(20) 30-150	2		495		
							lbf·ft	lbf·ft				
WQL280N	(30) 40-280	2	2800WQL3	(3) 4-28	0.2	2800WQL3-A	(20) 30-200	2	19.0	695		
WQL420N	(40) 60-420		4200WQL2	(4) 6-42		4200WQL2-A	(30) 60-300					

- Note**
1. The capacity value in the () are minimum setting value for snug torque, but this value is not within guaranteed accuracy range.
 2. WQL Models are supplied upon request.

MPQL/MQL

Direction Marking Torque Wrench



Assembly Pre-Lock Ratchet Head Graduation Quick Drying Ink ISO6789:2017

- Mechanism marks bolt as torque is achieved.
- Requires special socket, marker and ink

S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm/kgf·m]		American Model	Torque Range [lbf·in/lbf·ft]		Overall Length [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.		
MPQL50N	10-50	0.5	450MPQL	100-500	5	450MPQL-A	100-400	5	246	0.7
MPQL100N4	20-100	1	900MPQL4	200-1000	10	900MPQL4-A	15-75	1	320	0.95
MPQL140N	30-140		1400MPQL	400-1400		1400MPQL-A	30-100		385	1.1
MPQL200N4	40-200		1800MPQL4	400-2000		1800MPQL4-A	30-150		468	1.8
MQL280N	40-280	2	2800MQL3	4-28	0.2	2800MQL3-A	30-210	2	692	2.6

Note Use Tohnichi's original socket. Standard sockets can not be used.

Standard Accessories Hex key for torque adjustment

Accuracy ±3%

MQSP

Marking Torque Wrench

Direction



Assembly Preset Ratchet Head Quick Drying Ink ISO6789:2017

- Mechanism marks bolt as torque is achieved.
- Preset style of MPQL

Model	Torque Range			Overall Length [mm]	Weight [g]
	[N·m]				
	Min.-Max.	Min.-Max.	Min.-Max.		
MQSP50N	10-50	100-500	88.5-442.5	240	0.7
MQSP100N	20-100	200-1000	177-885	315	1.0
MQSP140N	30-140	400-1400	266-1238	380	1.1
MQSP200N	40-200	400-2000	354-1769	465	1.8

Note 1. Use Tohnichi original socket. Standard sockets can not be used.

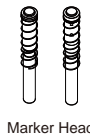
2. A torque wrench tester is necessary for torque adjustment. Specify required set torque when you order.
3. Adjusting tool #930 is sold separately.
4. MQSP200N has knurled handles.

Accuracy ±3%

MPQL/MQL/MQSP Optional Accessories

Marker Head

Model	Part #	Marking size	Color	Applicable Socket Size
MK53RB	1780	5mm	Red, Blue	W17 or more *Need a Marker Guide
MK53WY	1782		White, Yellow	
MK53RB	2780		Red, Blue	
MK53WY	2782	9mm	White, Yellow	W16 or less
MK93RB	2783		Red, Blue	
MK93WY	2785		White, Yellow	

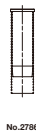


Note

- #1780/1782 is for previous sockets, size W16 or less, #1700 to 1704. For the size W17 or more of new Sockets, #2705 to 2717, 2716 and 2717, requires a Marker Guide #2786 additionally.
- #2783/2785 is for new Sockets only. When use it with an old sockets, size W17 or more, #1705 to 1723, remove Marker Return Spring and a Guide from the Marker Head. Previous 9 mm Marker Head #1783, 1785 can not be used for new Sockets.
- When newly use 5 mm marking for W17 or more of new Sockets #2705 to 2723, 2716 and 2717, purchase Marker Guide set #2787/2788.

Marker Guide

Model	Part #	Marking size	Content
Marker Guide	2786	-	-
Marker Guide set MK53RB	2787	5mm	1780 and 2786
Marker Guide set MK53WY	2788		1782 and 2786



Note

1. Marker Guide 2786 can be used with Marker Head 1780, 1782 only.
2. 2787 and 2788 are applicable for the sockets over W17, #2705 to 2723, 2716 and 2717.

Refill Ink and Solvent

Model	Part #	Color
Refill Ink R	1770	Red
Refill Ink B	1771	Blue
Refill Ink W	776	White
Refill Ink Y	777	Yellow
Solvent	794	For White and Yellow



Note

1. Solvent for red and blue inks is not available.
2. Refill Ink and solvent are classified as hazardous material in Aviation law.

Felt Tip

Model	Part #	Color
Felt tip for MK53RB	1775	Red, Blue
Felt tip for MK53WY	775	White, Yellow
Felt tip for MK93RB	1776	Red, Blue
Felt tip for MK93WY	1777	White, Yellow



Note

Sold in pack of ten tip

Extension Bar

Specification	Part #	Applicable Model
50mm	1749	MPQL/MQSP50N-200N4
100mm	1748	MPQL/MQSP50N-200N4
50mm	1752	MQL280N



Note

Only one Extension Bar can be connected to a socket.

Socket

Model	Part #	Width Across Flat [mm]	Length H [mm]	Outside Width ϕ [mm]	Applicable Torque T-max [N·m]	Applicable Model
Socket 4MH-10	2700	10	100	17.5	25	MQSP/MPQL 50N-200N4
Socket 4MH-12	2701	12		20.5	35	
Socket 4MH-13	2702	13		21.5	40	
Socket 4MH-14	2703	14		22.5	60	
Socket 4MH-16	2704	16		25	70	
Socket 4MH-17	2705	17		28	110	
Socket 4MH-18	2706	18	105	29	120	MQSP/MPQL 50N-200N4
Socket 4MH-19	2707	19		30	170	
Socket 4MH-22	2709	22		30	190	
Socket 4MH-24	2710	24		32.8	200	
Socket 6MH-22	2720	22		32	255	
Socket 6MH-24	2721	24		34.5	255	
Socket 6MH-27	2722	27	110	38.5	255	MQL280N
Socket 6MH-30	2723	30		42	280	

Note

1. To be applied new Maker Heads #2780 and 2782 to previous W16 or less Sockets #1700 to 1704, remove a spring from the inside of socket and insert it.
2. To use previous W17 or more size of Sockets #1705 to 1723, 2716 and 2717 with 5mm Marker heads #1780/1782, required Marker Guide #2786.

Inch Size Socket

Model	Part #	Width Across Flat		Tmax [lbf·in] (N·m)	Length H [mm]	Outside Width ϕ [mm]	Applicable Model
		[inch]	[mm]				
Socket 4MH-7/16	2712	7/16	11.113	300(35)	100	20	MQSP/MPQL 50N-200N4
Socket 4MH-1/2	2713	1/2	12.7	400(45)		21	
Socket 4MH-9/16	2714	9/16	14.288	700(80)		23	
Socket 4MH-5/8	2715	5/8	15.875	800(90)	105	25.5	MQSP/MPQL 50N-200N4
Socket 4MH-11/16	2716	11/16	17.463	1000(120)		28.5	
Socket 4MH-3/4	2717	3/4	19.05	1500(170)	30		

MPQL/MQSP Torque Adjusting Adapter

Model	Part #	Applicable Model	Applicable Tester
MQSP 3/8-17 Adapter	817	MPQL50N MQSP50N	DOTE50N3-G
MQSP 1/2-17 Adapter	818	MPQL100N4-200N4 MQSP50N-200N	DOTE100N3-G DOTE200N3-G

MQSP Adjusting Tool

Part #	Applicable Model
930	MQSP50N/100N/200N

As of May 2016, sockets and marker head were renewed. Contact to Tohnichi for combination of previous parts and new one.