

TiQL/TiQLE

Direction

Titanium Type Adjustable Torque Wrench



RoHS



TiQL180N



TIEQLE750N

TiEQLE Optional Accessories



Adjusting Tool for TIEQLE (P.49)

Part #	Applicable Model
301	TIEQLE750N, 1400N

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	kgf·cm	kgf·cm	494	12.7	0.9
TiQL180N			1800TiQLQL	400-1800	20	594		1.0
TIEQL360N	80-360		3600TIEQL	kgf·m	kgf·m	987	19.0	2.4
TiQLE	N·m	N·m		8-36	0.2			
TIEQLE750N	100-750	5	7500TIEQLE	kgf·m	kgf·m	1365	25.4	4.5
TIEQLE1400N	200-1400	10	14000TIEQLE	10-75	0.5			
				20-140	1			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 TIEQL360N
2. Adjusting tool for TIEQLE750N, TIEQLE1400N

TiQLLS

RoHS

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

S.I. Model	Metric Model
TiQLLS180N	1800TiQLLS
TiQLLS180N	1800TiQLLS
TIEQLLS360N	3600TIEQLLS

POKA Patrol, Count Checker
CNA-4mk3

Refer to page 27.



* Sold separately

PHL/PHLE2

Direction

Pipe-Wrench Head Type Adjustable Torque Wrench



RoHS



PHL140N



PHLE850N2

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	100-400	5	13-38	316	1.46
PHL100N	20-100	1	900PHL3	100-500	5	900PHL3-A	15-75			472	1.61
PHL140N	30-140		1400PHL3	200-1000	10	1400PHL3-A	30-100	1		530	1.76
PHL200N	40-200	2	1800PHL3	400-1400	20	1800PHL3-A	30-150		26-52	620	2.3
PHL280N	40-280		2800PHL3	400-1800	kgf·m	2800PHL3-A	30-200	2		833	2.92
PHL420N	60-420	3	4200PHL	4-28	0.2	4200PHL-A	60-300			1122	4.83
PHLE2	N·m	N·m		kgf·m	kgf·m		lbf·ft	lbf·ft	5	1664	8.2
PHLE850N2	200-850	5	8500PHLE2	20-85		PHLE600F	150-600			1831	10
PHLE1300N2	300-1300		13000PHLE2	30-130	0.5	PHLE900F	200-900				

Note

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

QRSP

Direction

Open Ring Head Type Preset Torque Wrench



RoHS



QRSP38N×17

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]		
QRSP38N×17	10-45	100-450	300	0.4
QRSP38N×19			305	
QRSP38N×21			310	
QRSP38N×24			310	0.43

Note

A torque wrench tester is necessary for torque setting. Specify required set torque when you order.
Ex. QRSP38N×17 × 25N·m

QRSPLS

RoHS

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

Model	Weight [kg]
QRSPLS38N×17	0.4
QRSPLS38N×19	
QRSPLS38N×21	
QRSPLS38N×24	0.43

POKA Patrol, Count Checker
CNA-4mk3

Refer to page 27.



* Sold separately

QRSP Optional Accessories

Thrusting Tool for QRSP (P.49)

Part #	Tool #	Applicable Model
312	A-3	QRSP38N