

MPQL/MQL

Direction

Marking Torque Wrench

RoHS



Assembly

Pre-Lock

Ratchet Head

Graduation

Quick Drying Ink

ISO6789:2017

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

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]	Weight [kg]
	Min.-Max.	Grad.		kgf·cm	kgf·m		lbf·in	lbf·ft		
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	2	1800MPQL4	400-2000	20	1800MPQL4-A	30-150	2	468	1.8
MQL280N	40-280		2800MQL3	4-28	0.2	2800MQL3-A	30-210		692	2.6

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

Standard Accessories Hex key for torque adjustment

MQSP

Marking Torque Wrench

Direction

RoHS



Assembly

Preset

Ratchet Head

Quick Drying Ink

ISO6789:2017

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

Accuracy ±3%

Model	Torque Range			Overall Length [mm]	Weight [g]
	[N·m]	[kgf·cm]	[lbf·in]		
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.

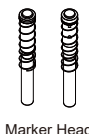
3. Adjusting tool #930 is sold separately.

4. MQSP200N has knurled handles.

MPQL/MQL/MQSP Optional Accessories

Marker Head

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

- Marker Guide 2786 can be used with Marker Head 1780, 1782 only.
- 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

- Solvent for red and blue inks is not available.
- 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 φd [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	105	25	70	MQSP/MPQL 50N-200N4
Socket 4MH-17	2705	17		28	110	
Socket 4MH-18	2706	18		29	120	
Socket 4MH-19	2707	19		30	170	
Socket 4MH-22	2709	22	110	30	190	MQL280N
Socket 4MH-24	2710	24		32.8	200	
Socket 4MH-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

- To be applied new Marker Heads #2780 and 2782 to previous W16 or less Sockets #1700 to 1704, remove a spring from the inside of socket and insert it.
- 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 φd [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)		25.5	
Socket 4MH-11/16	2716	11/16	17.463	1000(120)	105	28.5	MQSP/MPQL 50N-200N4
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	DOT50N3-G
MQSP 1/2-17 Adapter	818	MPQL100N4-200N4 MQSP50N-200N	DOT100N3-G DOT200N3-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.