

Marking Torque Wrench – MPQL / MQSP

Example image shows MPQL100N4 with 4MH-12



1. Select proper MH socket size

Ratcheting Clicker Wrench with Marking Function for Tightening Verification Assembly Processes

Lets you make direct visual checks for bolt tightening errors. When adjusted torque value is reached and wrench clicks, the bolt head is marked. So tightening and marking is done in a single operation. Marking is not done until set torque is achieved. Marking stays on by use of durable quick dry ink.

Ink cartridges (Marker head) can easily be installed in the special socket. One filling is sufficient for approximately 5000-6000 stamping processes. Height of the stamp is adjustable (± 5 mm).

◆ **MQSP** = "Preset" type without scale. Ideal for successive tightening with the same torque (production). To set the torque, a suitable tester, the optional setting tool and a calibration adapter are required. Available pre-set ex works on request – please state the required torque when enquiring/ordering (example: MQSP140N×110Nm).

◆ **MPQL** = "Pre-Lock" version with internal scale and small window in the handle. Enables the tightening torque to be set without a tester. A special adjusting tool is supplied. On the one hand, this version is therefore suitable for applications with changing torques (service). On the other hand, the MQPL version is also protected against unauthorised manipulation, as the torque cannot be changed without the adjusting key.

- ▶ Accuracy $\pm 3\%$.
- ▶ Ratchet head w 24 teeth and 15° operating range.
- ▶ Tightening and marking in one single operation.
- ▶ Ideal for tightening verification assembly processes.
- ▶ Compliant with ISO 6789 Type II Class A calibration procedures.
- ▶ Incl. traceable calibration certificate (JCSS/ISO).

Compose your model

- ✗ Marker head: $\varnothing 9$ mm or $\varnothing 5$ mm ?
- ✗ Ink colour: red, blue, white, or yellow ?
- ✗ Socket width (see chart next page) ?

Options

- Alternatively available with imperial torque units (lbf-in, lbf-ft).

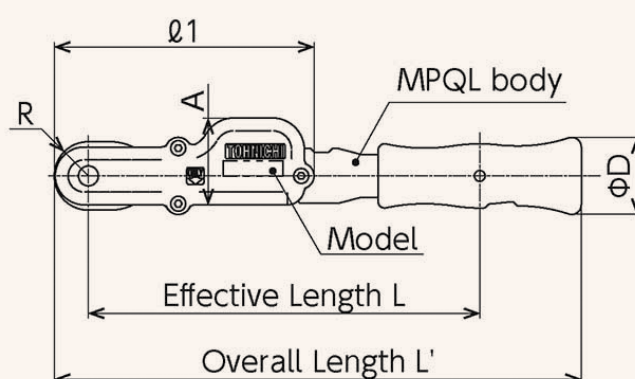
2. Select Marker Head (MK) $\varnothing 9$ mm, or 5mm



3. Select refill ink colour



Marking examples



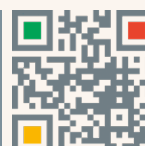
MPQL/MQL (pre-lock)

Model	Item No.	Torque Range	Grad.	Dimensions mm				Weight kg
		N-m	N-m	L	L'	D	R	
MPQL 50N	T212501	10 - 50	0.5	183	246	36	16	0.7
MPQL 100N4	T212504	20 - 100	1	252	320	37.7	17	1.0
MPQL 140N	T212507	30 - 140	1	316	385	37.7	18.8	1.1
MPQL 200N4	T212510	40 - 200	2	398	470	44.2	20	1.8
MQL 280N	T212513	60 - 280	2	600	692	51.5	22.5	2.6

MQSP (preset)

Model	Item No.	Torque Range	Dimensions mm				Weight kg
		N-m	L	L'	D	R	
MQSP 50N	T212516	10 - 50	178	240	34	16	0.7
MQSP 100N4	T212517	20 - 100	251	315	34	17	1.0
MQSP 140N	T212518	30 - 140	315	380	34	18.8	1.1
MQSP 200N	T212519	40 - 200	400	465	27	20	1.8

Table showing specifications by manufacturer. Usage in moderate performance range (approx. 1/3 to 4/5 of rated capacity) is recommended. If you regularly worked close to the limit of load (maximum capacity), a larger model or tool might be more advisable.



Optional Equipment & Accs – MPQL / MQSP

MH Sockets

Model	Tohnichi No.	ZEMO Item No.	A/F [mm]	Max. Torque [N·m]	H [mm]	ød [mm]	applicable model(s)
4MH-10	2700	T286410	10	25	100	17,5	MPQL/MQSP 50N – 200N
4MH-12	2701	T286412	12	35	100	20,5	
4MH-13	2702	T286413	13	40	100	21,5	
4MH-14	2703	T286414	14	60	100	22,5	
4MH-16	2704	T286416	16	70	100	25	
4MH-17	2705	T286417	17	110	100	28	
4MH-18	2706	T286418	18	120	105	29	
4MH-19	2707	T286419	19	170	105	30	
4MH-22	2709	T286422	22	190	105	30	
4MH-24	2710	T286424	24	200	105	32,8	MQL 280N
6MH-22	2720	T286622	22	255	105	32	
6MH-24	2721	T286624	24	255	110	34,5	
6MH-27	2722	T286627	27	255	110	38,5	
6MH-30	2723	T286630	30	280	110	42	

Model	Tohnichi No.	ZEMO Item No.	A/F [inch]	Max. Torque [N·m]	H [mm]	ød [mm]	applicable model(s)
4MH-7/16	2712	T286425	7/16	35	100	20	MPQL/MQSP 50N – 200N
4MH-1/2	2713	T286428	1/2	45	100	21	
4MH-9/16	2714	T286426	9/16	80	100	23	
4MH-5/8	2715	T286429	5/8	90	100	25,5	
4MH-11/16	2716	T286427	11/16	120	105	28,5	
4MH-3/4	2717	T286430	3/4	170	105	30	

Note: Marker Guide #2786 is required when using ø 5 mm marker with socket A/F size 17 mm or larger.

Extensions

Model	Tohnichi No.	ZEMO Item No.	L [mm]	applicable model(s)
MPQL/MQSP Extension 50	1749	T286050	50	MPQL/MQSP 50N – 200N
MPQL/MQSP Extension 100	1748	T286051	100	
MQL Extension 50	1752	T286052	50	MQL 280N

Note: Only one extension can be connected to a MH socket at a time (cannot be combined).

Marker Head ('Stamp & Cartridge')

Model	Tohnichi No.	ZEMO Item No.	applicable colour	applicable A/F	marking diam.
MK53RB	1780	T286080	Red, Blue	≥ 17 mm*	5 mm
MK53WY	1782	T286082	White, Yellow		
MK53RB	2780	T286061-MG	Red, Blue	≤ 16 mm	5 mm
MK53WY	2782	T286062-MG	White, Yellow		
MK93RB	2783	T286063-MG	Red, Blue	≥ 17 mm	9 mm
MK93WY	2785	T286064-MG	White, Yellow		

* Marker Guide #2786 is additionally required.

Marker Guide

Model	Tohnichi No.	ZEMO Item No.	Colour
Marker Guide	2786	T286069	–
MK53RB Guide Set	2787	T286077	Red, Blue
MK53WY Guide Set	2788	T286078	White, Yellow

If you also want to use ø 5 mm marker head with socket A/F size ≥ 17 mm, you will need the 'Guide' or 'Guide set' part.

- ◆ MK Guide Set consists of Guide (#2786) and Marker Head (#780 or #1782).
- ◆ Marker Heads are supplied unfilled. Please order required ink separately.
- ◆ Marker Guide #2786 can only be used with Marker Head #1780 or #1782.

Adjusting/Calibration Adapter

Model	Tohnichi No.	ZEMO Item No.	applicable model(s)
MQSP 3/8-17 Adapter	817	T286817	MPQL/MQSP 50N
MQSP 1/2-17 Adapter	818	T286818	MPQL/MQSP 100N – 200N

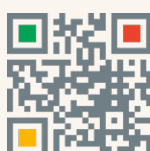
Refill Ink, Solvent

Model	Tohnichi No.	ZEMO Item No.	Colour
Ink R	1770	T286072	Red
Ink B	1771	T286073	Blue
Ink W	776	T286070	White
Ink Y	777	T286071	Yellow
Solvent	794	T286079	White, Yellow

Replacement Felt Tips (Pk 10 ea)

Model	Tohnichi No.	ZEMO Item No.	for colour
for MK53RB	1775	T286065	Red, Blue
for MK53WY	775	T286066	White, Yellow
for MK93RB	1776	T286067	Red, Blue
for MK93WY	1777	T286068	White, Yellow

Use when it is necessary to replace the marker head due to degradation, etc.



Further
info on our
website.
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