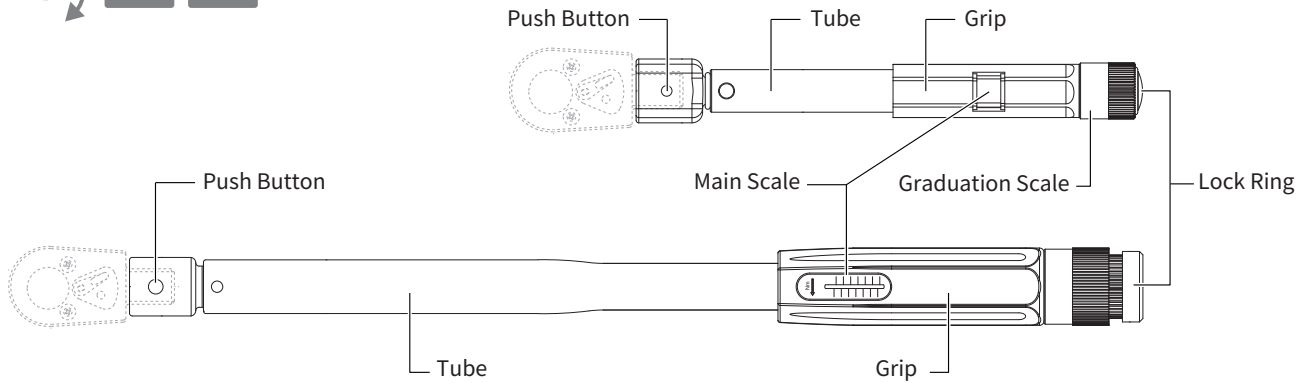


Interchangeable Head Adjustable Torque Handle Window Scale Type OPERATION MANUAL

Models covered

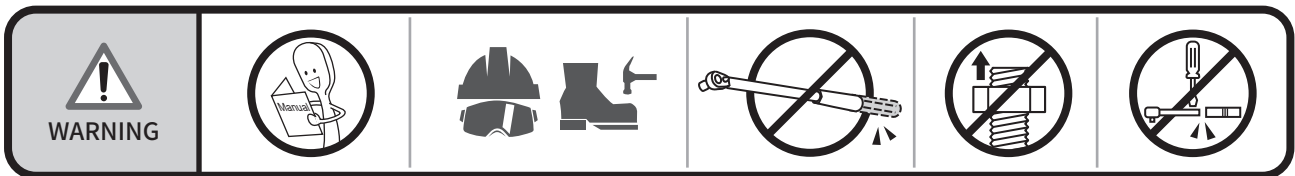
MIT

TORQUE 9X12 14X18



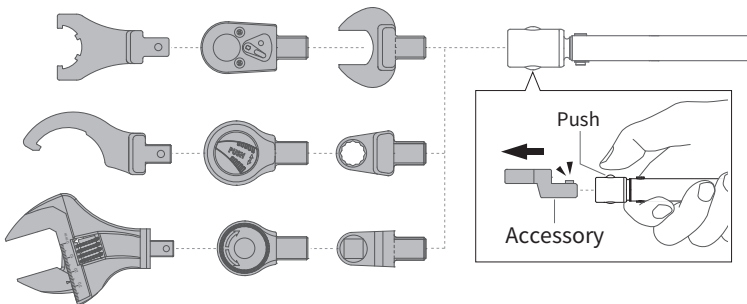
BEFORE STARTING

1. Study this instruction before use.
2. This torque wrench is calibrated and tested before leaving the factory, it is certified to meet the current standard specification and has an accuracy of $\pm 4\%$.
3. **THIS TOOL IS A PRECISION MEASUREMENT AND DESIGNED FOR MANUAL TIGHTENING FASTENERS ONLY. DO NOT USE IT AS A NUT BREAKER OR FOR ANY OTHER PURPOSE.**
4. Do not over torquing the fastener, or it will cause tool's damage and serious injury.
5. Do not use this tool near rotating machinery.
6. Disassemble this tool or make any adjustments will result in the loss of accuracy and invalidating the warranty.
7. Do not continuously apply force after hearing the clicking sound or feel shock.
8. Do not use any kind of extension on the handle of the tool. This will not only damage the tool, also affect the accuracy.
9. Do not immerse grease inside ratchet head. It may cause unexpected damage.
10. Use special care at minimum torque setting.
11. Please wear gloves and goggles when working.



HOW TO USE

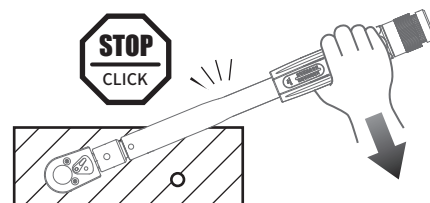
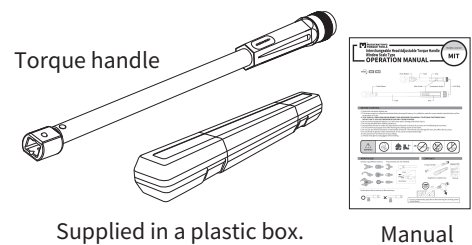
Choose a qualified accessory. ※Accessories are not included.



Insert square drive securely to the accessory.



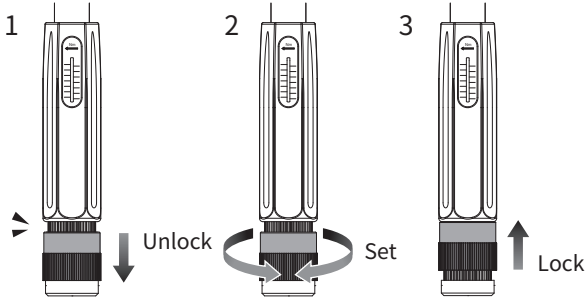
CONTENTS



Do not continuously apply force after hearing the clicking sound or feel shock.

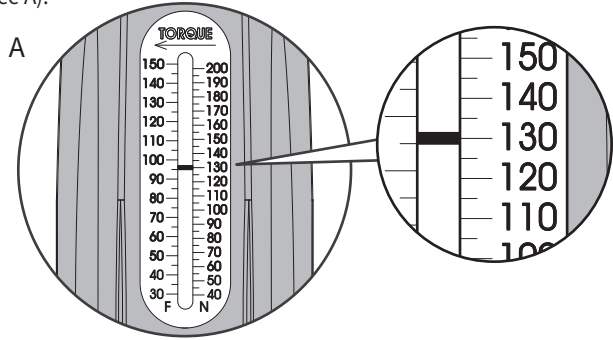
HOW TO SET TORQUE VALUE

1. Pull the lock ring to unlocked.
2. Turn the adjustable handle clockwise or counter-clockwise (Right or left) to set the desired torque.
3. Push the lock ring to set finished.



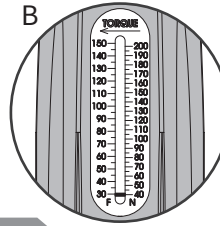
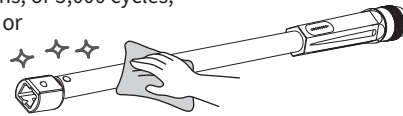
For example : ITEM NO. MIT-200N

To set torque to 130 Nm. Red line of main scale need to reach 130 Nm (see A).



MAINTENANCE AND STORAGE

1. Please return torque value to the lowest reading when not in use. (see B) Do not turn below the lowest reading.
2. If this tool has not been used for a period of time, it shall be preloaded several times at its maximum torque setting. This will allow internal lubricant to recoat.
3. Clean this tool by wiping with a clean cloth after operation and storage in a dry environment. Do not dip any type of liquid in this tool. This may damage the internal of this tool.
4. This tool should be recalibrated a period of 12 months, or 5,000 cycles, whichever occurs first. To contact with local vendor or an authorized repair center for supporting.



TORQUE CONVERSION FACTORS

Units to be converted	Corresponding unit								
	=mN·m	=cN·m	=N·m	=ozf·in	=lbf·in	=lbf·ft	=gf·cm	=kgf·cm (kp·cm)	=kgf·m (kp·m)
1 mN·m	1	0.1	0.001	0.142	0.009	0.0007	10.2	0.01	0.0001
1 cN·m	10	1	0.01	1.416	0.088	0.007	102	0.102	0.001
1 N·m	1000	100	1	141.6	8.851	0.738	10197	10.2	0.102
1 ozf·in	7.062	0.706	0.007	1	0.0625	0.005	72	0.072	0.0007
1 lbf·in	113	11.3	0.113	16	1	0.083	1152.1	1.152	0.0115
1 lbf·ft	1356	135.6	1.356	192	12	1	13826	13.83	0.138
1 gf·cm	0.098	0.01	0.0001	0.014	0.0009	0.00007	1	0.001	0.00001
1 kgf·cm (kp·cm)	98.07	9.807	0.098	13.89	0.868	0.072	1000	1	0.01
1 kgf·m (kp·m)	9807	980.7	9.807	1389	86.8	7.233	100000	100	1

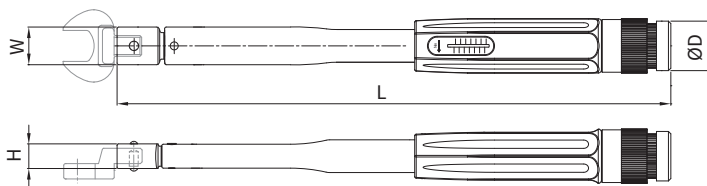
Conversion-formula :

Units to be converted × Factor = Corresponding unit

Example : Convert 5 lbf·ft into cN·m

Solution : 5 × 135.6 = 678 cN·m

SPECIFICATION



Metric

ITEM NO.	Range	Resolution	W	H	L	ØD	KG
MIT-15N	9x12 3-15 Nm	0.4 Nm	23.9	16.7	188	20.7	0.22
MIT-30N	9x12 5-30 Nm	1 Nm	24.1	16.2	290	30.5	0.58
MIT-60N	9x12 12-60 Nm	4 Nm	24.1	19.0	365	30.5	0.80
MIT-60NS	14x18 12-60 Nm	4 Nm	32.9	22.0	375	30.5	0.81
MIT-100N	9x12 20-100 Nm	5 Nm	23.9	16.2	420	30.5	1.14
MIT-100NS	14x18 20-100 Nm	5 Nm	32.0	22.0	430	30.5	1.15
MIT-200N	14x18 40-200 Nm	5 Nm	32.2	24.5	500	34.1	1.38
MIT-300N	14x18 60-300 Nm	0.5 Nm	32.2	24.5	580	34.1	1.50

SAE

Accuracy : ± 4%

ITEM NO.	Range	Resolution	W	H	L	ØD	KG
MIT-150i	9x12 30-150 in.lb	20 in.lb	23.9	16.7	188	20.7	0.22
MIT-250i	9x12 50-250 in.lb	25 in.lb	24.1	16.2	290	30.5	0.58
MIT-45F	9x12 9-45 ft.lb	3 ft.lb	24.1	19.0	365	30.5	0.80
MIT-45FS	14x18 9-45 ft.lb	3 ft.lb	32.9	22.0	375	30.5	0.81
MIT-75F	9x12 15-75 ft.lb	5 ft.lb	23.9	16.2	420	30.5	1.14
MIT-75FS	14x18 15-75 ft.lb	5 ft.lb	32.0	22.0	430	30.5	1.15
MIT-150F	14x18 30-150 ft.lb	10 ft.lb	32.2	24.5	500	34.1	1.38
MIT-230F	14x18 50-230 ft.lb	20 ft.lb	32.2	24.5	580	34.1	1.50

Unit : mm

Version 03

Jun. 2023



MATATAKITOYO
TORQUE TOOLS
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