MATATAKITOYO TORQUE TOOLS

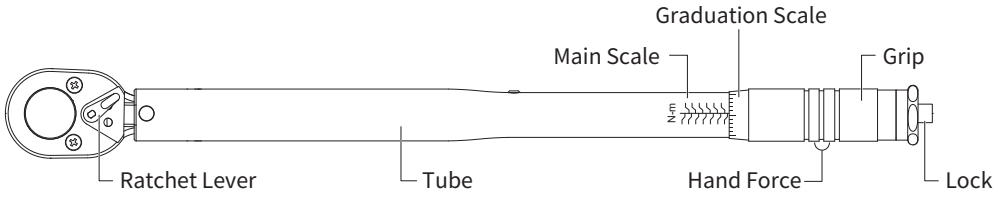
Models covered

T

Adjustable Torque Wrench
OPERATION MANUAL

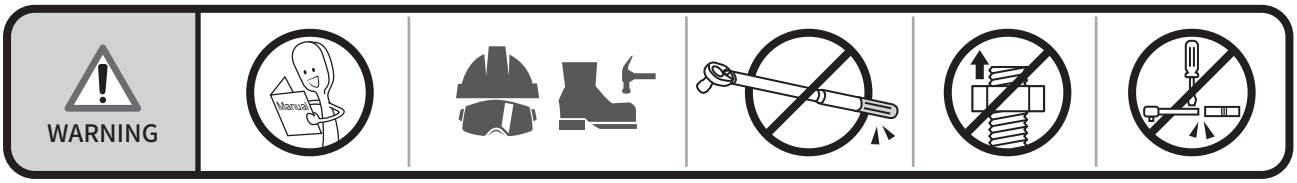
VPA GS geprüfte Sicherheit

TORQUE 1/4" 3/8" 1/2" 3/4" 1"



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 C.W.±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.

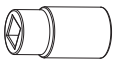


HOW TO USE

Position of ratchet lever for clockwise tightening.

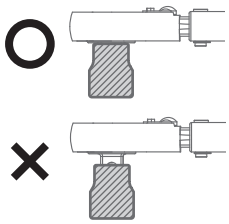
Right
1/4", 3/8", 1/2"

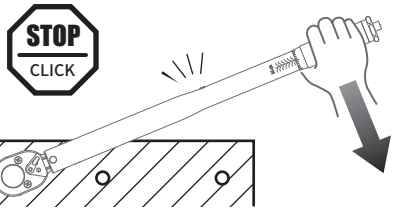
Left
3/4", 1"



Choose a qualified socket

Insert square drive securely to the socket.

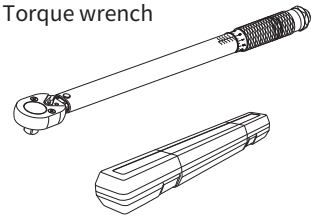




Do not continuously apply force after hearing the clicking sound or feel shock.

CONTENTS

Torque wrench

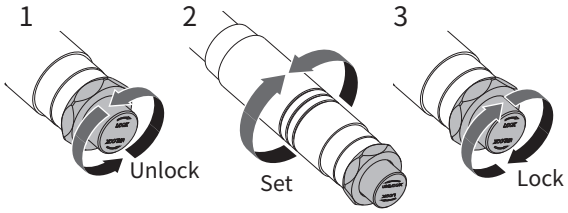


Supplied in a plastic box.

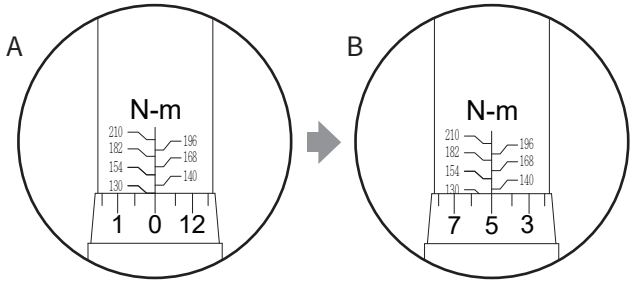
Manual

HOW TO SET TORQUE VALUE

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

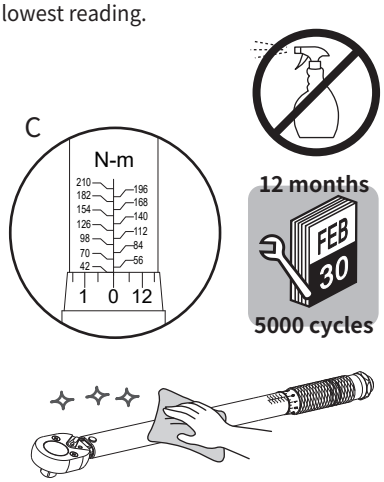


For example : ITEM No. T-210N to set torque to 135 Nm.
Firstly turn the lock counter-clockwise and turn the knurled handle clockwise until the upper edge to 130 Nm (see A) and the reading “5” on the long tube must align with the center line of scale vertically so as to acquire 130+5=135 Nm. (see B)



MAINTENANCE AND STORAGE

1. Please return torque value to the lowest reading when not in use. (see C) 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.

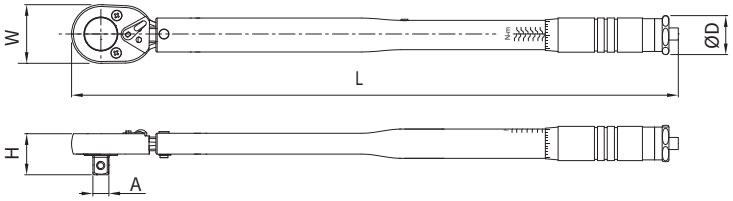


TORQUE CONVERSION FACTORS

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 # Matt finish

ITEM NO.	A	Range		W	H	L	ØD	KG
T-25N	1/4"	5-25 Nm	0.1 Nm	28.7	20.3	280	29.0	0.56
	3/8"				23.6			
T-110N	3/8"	20-110 Nm	0.5 Nm	36.5	27.8	360	29.0	0.84
T-210N	1/2"	42-210 Nm	1 Nm	46.6	33.2	470	30.6	1.34
T-350N	1/2"	70-350 Nm	1 Nm	47.7	37.1	630	38.6	2.38
T-450N	3/4"	65-450 Nm	1 Nm	71.6	51.5	850	38.6	3.68
T-700N	3/4"	140-700 Nm	2.5 Nm	71.6	51.5	1078	42.6	5.70
T-980N	3/4"	140-980 Nm	3.5 Nm	71.6	51.5	1222	42.6	6.00
	1"				57.0			

SAE # Shinny finish

Accuracy : C.W.±4%

ITEM NO.	A	Range		W	H	L	ØD	KG
T-200i	1/4"	35 -200 in.lb	1 in.lb	28.7	20.3	280	29.0	0.56
	3/8"				23.6			
T-80F	3/8"	15-80 ft.lb	0.5 ft.lb	36.5	27.8	360	29.0	0.84
T-150F	1/2"	30-150 ft.lb	1 ft.lb	46.6	33.2	470	30.6	1.34
T-250F	1/2"	50-250 ft.lb	1 ft.lb	47.7	37.1	630	38.6	2.38
T-300F	3/4"	50-300 ft.lb	2.5 ft.lb	71.6	51.5	850	38.6	3.68
T-600F	3/4"	100-600 ft.lb	1 ft.lb	71.6	51.5	1078	42.6	5.70
T-700F	3/4"	100-700 ft.lb	2.5 ft.lb	71.6	51.5	1222	42.6	6.00
	1"				57.0			

Unit : mm

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MATATAKITOYO TORQUE TOOLS
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