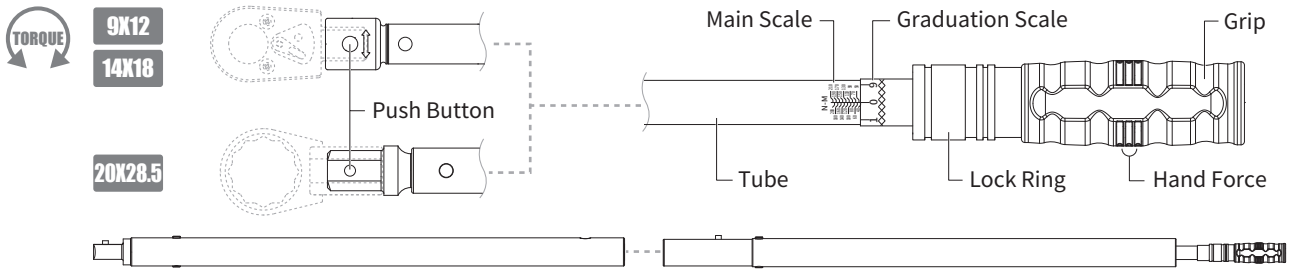
MATATAKITOYO TORQUE TOOLS

Interchangeable Head Adjustable Torque Handle OPERATION MANUAL

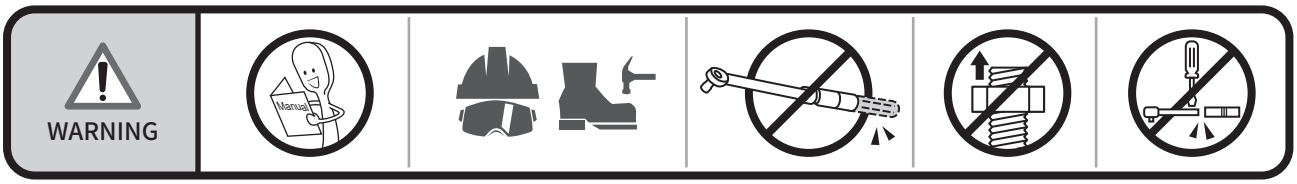
Models covered

IPR



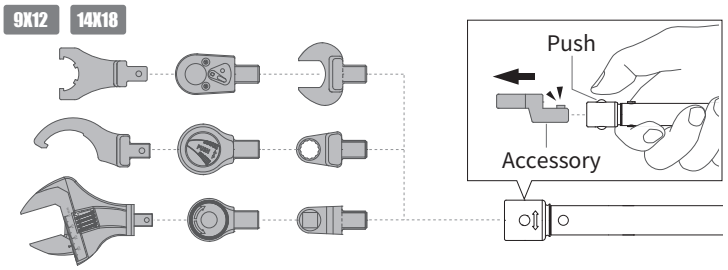
BEFORE STARTING

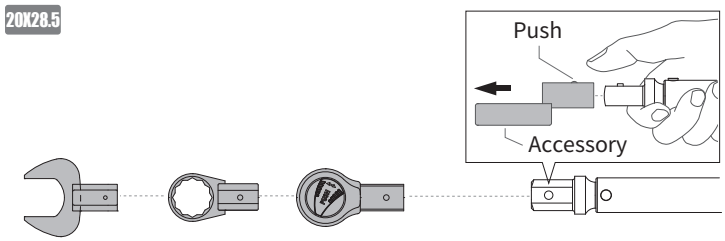
1. Study this instruction before use.
2. This torque wrench is calibrated and tested before leaving the factory, it is certified to meet the current standard specification and has an accuracy of C.W.±4% / C.C.W.±6%.
3. **THIS TOOL IS A PRECISION MEASUREMENT AND DESIGNED FOR MANUAL TIGHTENING FASTENERS 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

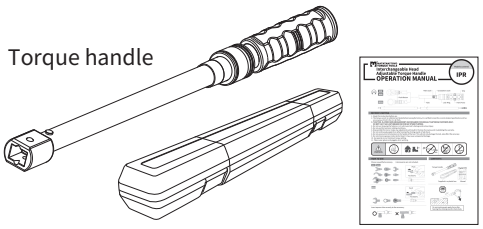
Choose a qualified accessory. ※Accessories are not included.



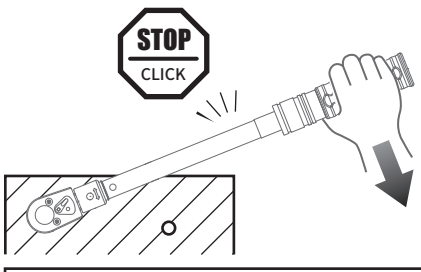


Insert square drive securely to the accessory.

CONTENTS



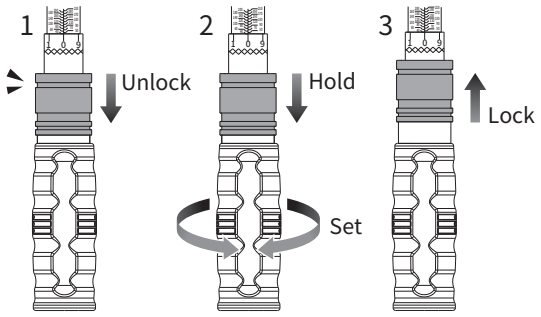
Supplied in a plastic box. Manual



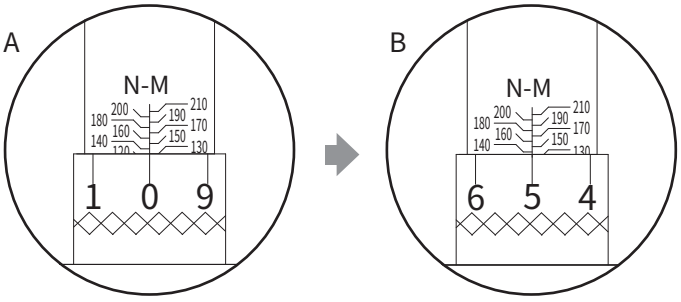
Do not continuously apply force after hearing the clicking sound or feel shock.

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.

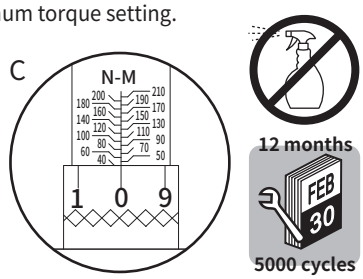


For example : ITEM NO. IPR-210N
To set torque to 135 Nm. Firstly pull and hold the lock ring and turn the handle until the upper edge to 130 Nm (see A) and the reading “5” on the long tube must align with the center line of scale vertically so as to acquire 130+5=135 Nm. (see B)



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.

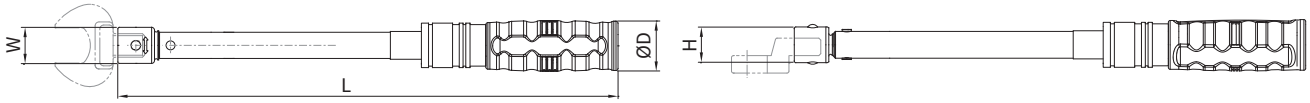


TORQUE CONVERSION FACTORS

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.	▬	Range	⌇⌇	W	H	L	ØD	KG
IPR-5N	9x12	1-5 Nm	0.05 Nm	22.0	21.3	190	30.2	0.33
IPR-30N	9x12	6-30 Nm	0.2 Nm	22.0	21.3	217	30.2	0.36
IPR-110N	9x12	20-110 Nm	0.5 Nm	22.0	21.3	405	38.0	0.97
IPR-110NS	14x18	20-110 Nm	0.5 Nm	32.0	25.1	414	38.0	0.97
IPR-210N	14x18	40-210 Nm	1 Nm	32.0	25.1	455	38.0	1.26
IPR-350N	14x18	70-350 Nm	1 Nm	32.0	25.1	526	38.0	1.44
IPR-450N	14x18	75-450 Nm	2.5 Nm	33.1	30.5	758	38.0	2.97
ITEM NO.	⬭	Range	⌇⌇	W	H	L	ØD	KG
IPR-800N	20x28.5	100-800 Nm	5 Nm	28.0	24.0	961	38.0	5.75
IPR-1500N	20x28.5	300-1500 Nm	10 Nm	28.0	24.0	1600	38.0	5.97

SAE # Shinny finish

Accuracy : C.W. ±4% / C.C.W. ±6%

ITEM NO.	▬	Range	⌇⌇	W	H	L	ØD	KG
IPR-50i	9x12	10-50 in.lb	0.5 in.lb	22.0	21.3	190	30.2	0.33
IPR-200i	9x12	40-200 in.lb	1 in.lb	22.0	21.3	217	30.2	0.36
IPR-100F	9x12	10-100 ft.lb	0.5 ft.lb	22.0	21.3	405	38.0	0.97
IPR-100FS	14x18	10-100 ft.lb	0.5 ft.lb	32.0	25.1	414	38.0	0.97
IPR-150F	14x18	30-150 ft.lb	1 ft.lb	32.0	25.1	455	38.0	1.26
IPR-250F	14x18	30-250 ft.lb	1 ft.lb	32.0	25.1	526	38.0	1.44
IPR-300F	14x18	50-300 ft.lb	2.5 ft.lb	33.1	30.5	758	38.0	2.97
ITEM NO.	⬭	Range	⌇⌇	W	H	L	ØD	KG
IPR-600F	20x28.5	100-600 ft.lb	2.5 ft.lb	28.0	24.0	961	38.0	5.75
IPR-1000F	20x28.5	200-1000 ft.lb	5 ft.lb	28.0	24.0	1600	38.0	5.97

Unit : mm

Version 03
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MATATAKITOYO TORQUE TOOLS
E-mail:matatakitoyo@gmail.com
www.matatakitoyo.com

Manufacturer
MATATAKITOYO TOOL CO., LTD.
No. 63, Ln. 493, Sec. 3, Zhongshan Rd., Tanzi Dist.,
Taichung City 42754, Taiwan
TEL : 886-4-2533 5893

Made in Taiwan