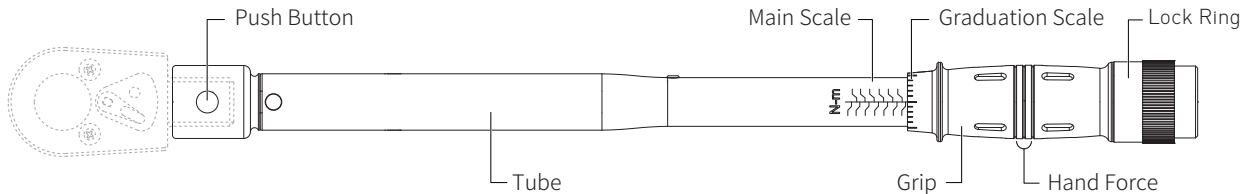


Interchangeable Head Adjustable Torque Handle OPERATION MANUAL

Models covered

ATP

TORQUE 9X12 14X18



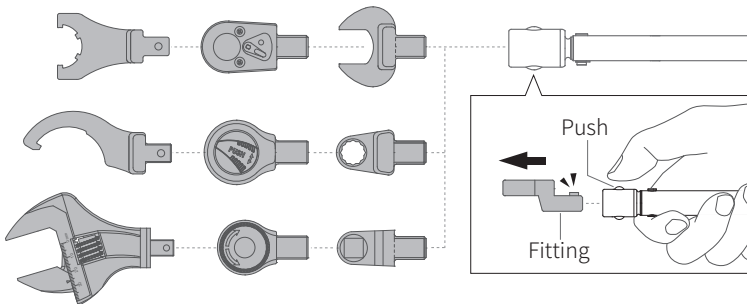
BEFORE STARTING

1. Study this instruction before use.
2. This torque wrench as calibrated and tested before leaving the factory 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. Over torque will cause tool damage and personal injury.
5. Do not use this tool near rotating machinery.
6. Disassemble this tool or make any adjustments will result of losing accuracy and void the warranty.
7. Do not continuously apply force after hear click or feel shock.
8. Do not use any format 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.

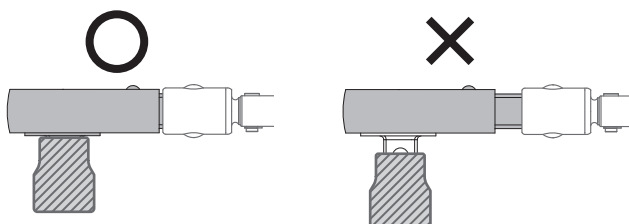


HOW TO USE

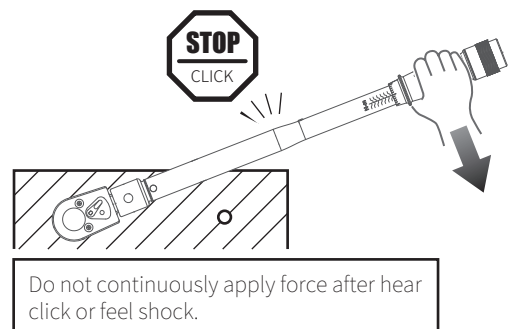
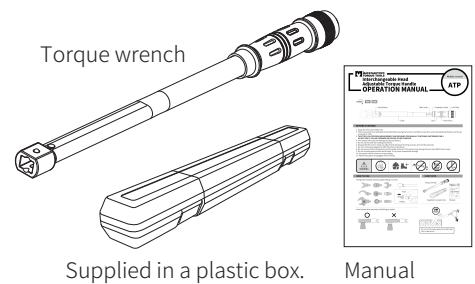
Fitting (Not included) Choose quality Fitting or socket.



Insert square drive securely to the fitting or socket.



CONTENTS

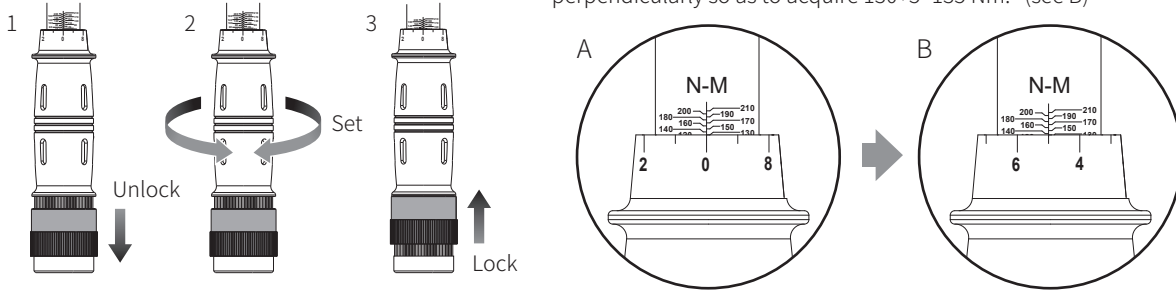


BHOW TO SET TORQUE VALUE

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

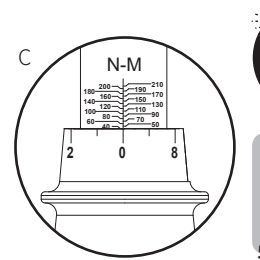
For example : ITEM NO. ATP-210N

To set torque to 135 Nm. Firstly push down and hold the lock ring and turn the handle clockwise until the upper edge to 130 Nm (see A) and the reading "5" on the long tube must align with the center link of scale perpendicularly so as to acquire $130+5=135$ Nm. (see B)



MAINTENANCE AND STORAGE

1. Please return torque value to just below lowest reading when not in use. Do not turn below lowest reading. (see C)
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, an authorized repair center for supporting.

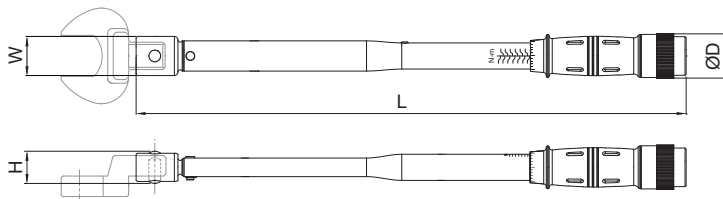


TORQUE CONVERSION FACTORS

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	0.9807	1389	86.8	0.7233	10000	100	1

Conversion-formula :
Units to be converted × Factor = Corresponding unit
Example : Convert 5 lbf-ft into cN-m
Solution : $5 \times 135.6 = 678$ cN-m

SPECIFICATION



Accuracy : ± 4%

Metric

ITEM NO.	Range	Resolution	W	H	L	ØD	KG	
ATP-30N	9x12	6-30 Nm	0.2 Nm	24.3	17.2	280	39.1	0.75
ATP-80N	9x12	10-80 Nm	0.5 Nm	24.0	19.0	355	35.0	0.88
ATP-80NS	14x18	10-80 Nm	0.5 Nm	32.0	25.1	365	35.0	0.90
ATP-110N	9x12	20-110 Nm	0.5 Nm	24.0	19.0	355	35.0	0.94
ATP-110NS	14x18	20-110 Nm	0.5 Nm	32.0	22.0	370	39.1	0.96
ATP-210N	14x18	40-210 Nm	1 Nm	32.0	24.7	505	39.1	1.50

SAE

Unit : mm

ITEM NO.	Range	Resolution	W	H	L	ØD	KG	
ATP-250i	9x12	40-250 in.lb	1 in.lb	24.3	17.2	280	39.1	0.75
ATP-60F	9x12	10-60 ft.lb	0.5 ft.lb	24.0	19.0	355	35.0	0.88
ATP-60FS	14x18	10-60 ft.lb	0.5 ft.lb	32.0	25.1	365	35.0	0.90
ATP-80F	9x12	15-80 ft.lb	0.5 ft.lb	24.0	19.0	355	35.0	0.94
ATP-80FS	14x18	15-80 ft.lb	0.5 ft.lb	32.0	22.0	370	39.1	0.96
ATP-150F	14x18	30-150 ft.lb	1 ft.lb	32.0	24.7	505	39.1	1.50

Edition 01

Apr. 2020



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