MATATAKITOYO TORQUE TOOLS

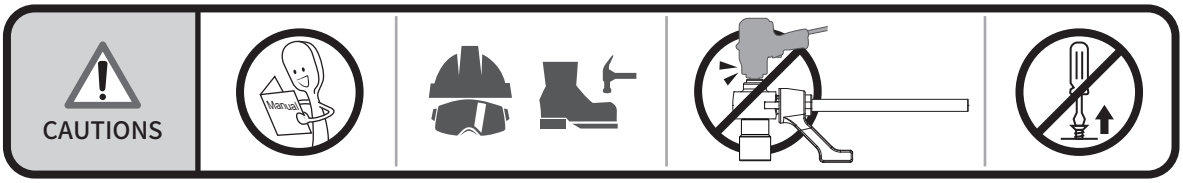
Torque Multiplier OPERATION MANUAL

Models covered

MT

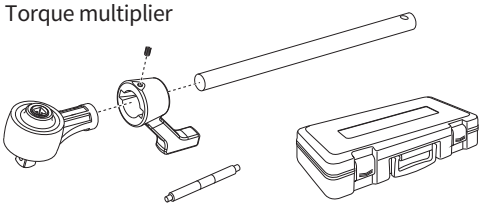
BEFORE STARTING

1. Study this instruction before use.
2. This tool is with torque ratio and there is an amount of reaction to be made to the fasteners.
   Please keep hands or face away from extension bar / reaction foot. The reaction force might result injury.
3. **THIS TOOL IS DESIGNED FOR MANUAL TIGHTENING FASTENERS ONLY.**
   DO NOT USE ANY IMPACT TOOL TO OPERATE.
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. Any adjustments will result in the loss of accuracy and invalidating the warranty.
7. Do not use any kind of extension on the handle of the tool.
   This will not only damage the tool, also affect the accuracy.
8. Please wear gloves and goggles when working.



CONTENTS

Torque multiplier

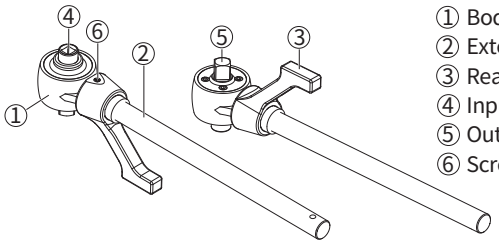


Pin

Supplied in a plastic box.

Manual

PART NAME



① Body
② Extension bar
③ Reaction foot
④ Input drive
⑤ Output drive
⑥ Screw

HOW TO USE

1. Select a qualified torque wrench
2. Get a torque multiplier
3. Choose a qualified socket
4. Prepare extension bar / reaction foot

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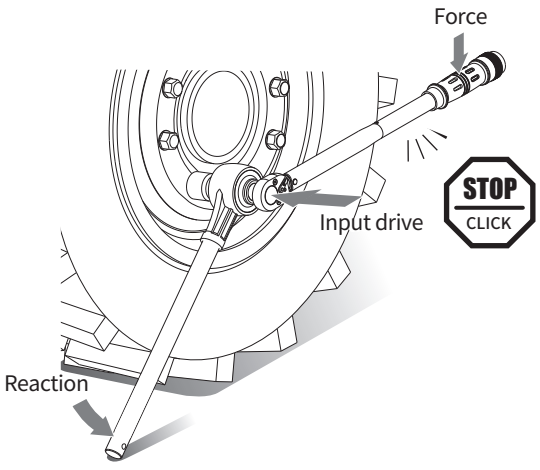
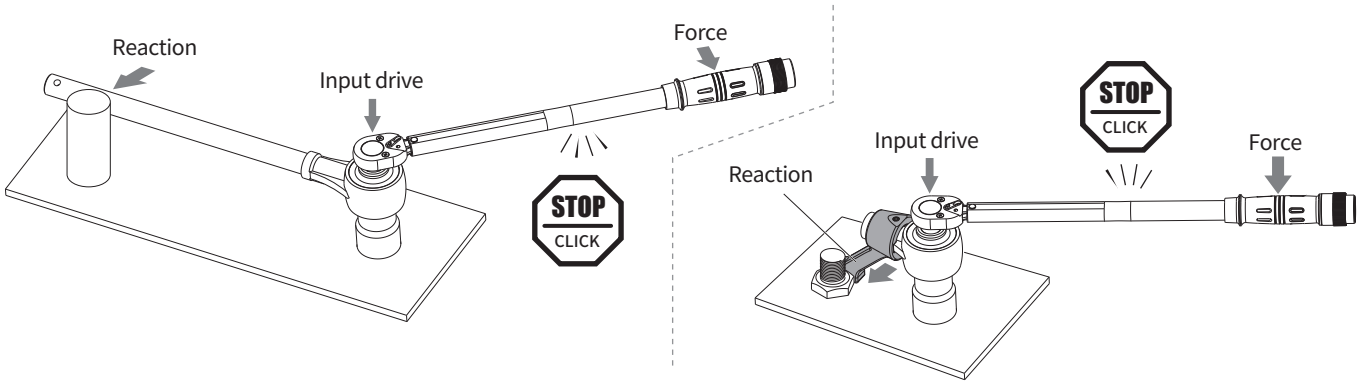
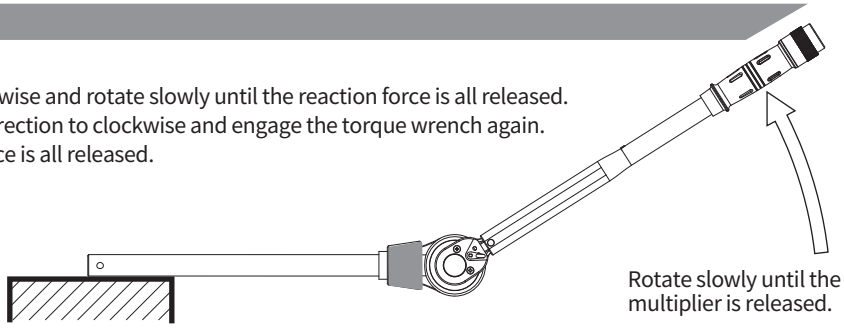
1. Choose the qualified socket for bolt and fastened the bolt with the multiplier.
2. Fix the extension bar / reaction foot with the multiplier on the reaction point.
3. Put the torque wrench on the multiplier.
   Remark：The input torque value is calculated by the physical formula.
   Required Torque / Torque Ratio = Input Torque.
   For example：480 Nm / 3 = 160 Nm, 160 Nm is the input torque.
4. Apply the torque wrench gently and evenly until hear the clicking sound and feel shock.





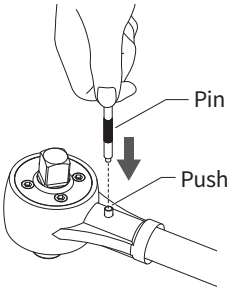
FINISHING WORKING

1. Load the torque wrench.
2. Move the ratchet direction to counter-clockwise and rotate slowly until the reaction force is all released.
3. If remove failed, please re-set the ratchet direction to clockwise and engage the torque wrench again. Then go back to step 2 until the reaction force is all released.

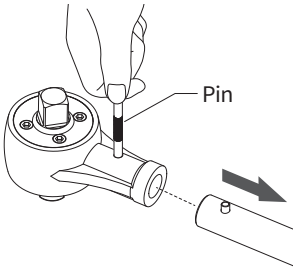


TEAR DOWN

1.

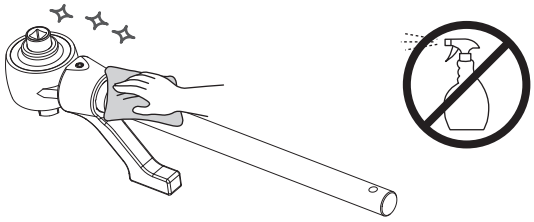


2.

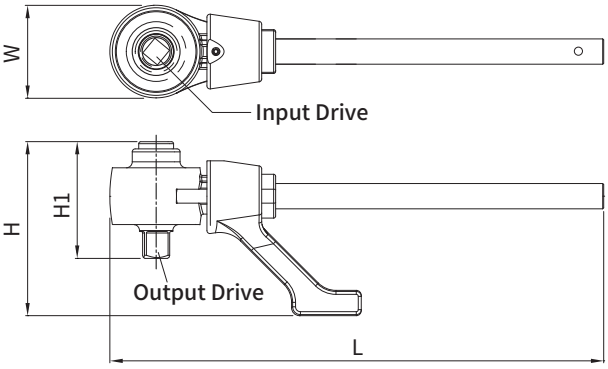


MAINTENANCE AND STORAGE

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.



SPECIFICATION



Accuracy : C.W.±6%

ITEM NO.	Torque Ratio	Range (max)				Input Drive	Output Drive	W	H	H1	L	KG
		Input		Output								
MT-1000	1:3	500 Nm	365 ft.lb	1500 Nm	1100 ft.lb	1/2"	3/4"	73.8	125.0	85.0	425	3.09
MT-2000	1:3	1000 Nm	730 ft.lb	3000 Nm	2200 ft.lb	3/4"	1"	92.2	160.0	113.3	501	6.49

Unit : mm

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MATATAKITOYO TORQUE TOOLS
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Made in Taiwan