



www.insize.com



ST-DT SERIES

TWO-USE TORQUE MULTIPLIERS

OPERATION MANUAL

PLEASE SCAN QR CODE TO
WATCH THE OPERATION
VIDEO OF PRODUCTS.



Notice

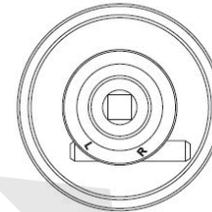
- ◆ Please use within the torque range of the torque wrench and multiplier.
- ◆ In order to extend the service life of the tool, it is best to use within 80% of the maximum torque output value.
- ◆ Do not use extended sleeves as much as possible. The output component can cause danger. It is necessary to use an extended sleeve and observe the status of the multiplier. If there is any abnormality, stop using it.
- ◆ When tightening or disassembling, pay attention to whether the reaction arm is firmly fixed
- ◆ There is a certain degree of danger when working with the multiplier upside down at height
- ◆ Multipliers are precision tools that must not be strongly impacted or knocked. Otherwise, it will damage the tool

Product Introduction

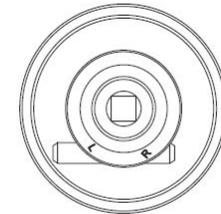
A multiplier is a device that can increase the torque for the operator. It is achieved by a one-stage or multi-stage planetary gear transmission mechanism, which can amplify the input torque at a certain rate. The booster has a compact structure, small volume and mass, a wide range of transmission ratios, high efficiency, smooth operation, and requires less effort to obtain a larger torque output, accurately completing bolt tightening or disassembly. The multiplier is suitable for situations where other wrenches are difficult to meet the conditions. No external power source (power or air) is required.

Operation of Locking Button

1. Most Multipliers are fitted with Locking button except M-10, the locking button insures that the "spring" stays wound and that any future torque input to the multiplier is applied directly to the bolt. Position the "Locking button" at the appropriate direction for operation.



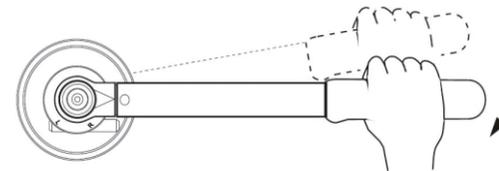
Clockwise operation



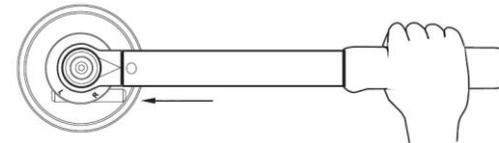
Anti-clockwise operation

2. To apply torque, operating the torque multiplier and torque wrench, setting the direction of locking button as shown in Figure 1 or Figure 2.
3. To remove the multiplier, load the torque wrench carefully until the "locking button" can be pushed, allow the wrench rotate slowly till the multiplier becomes free.

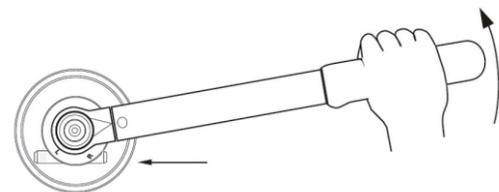
3. 1 Load the torque wrench



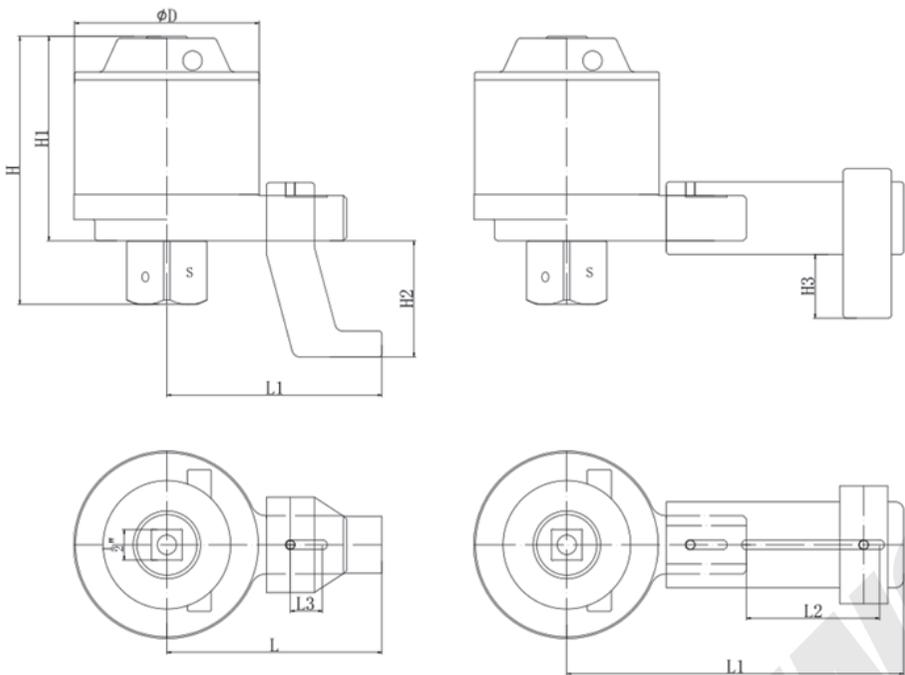
3. 2 With the wrench still loaded, push the "locking button" to the opposite.



3. 3 Allow the wrench rotate slowly till the multiplier becomes free.



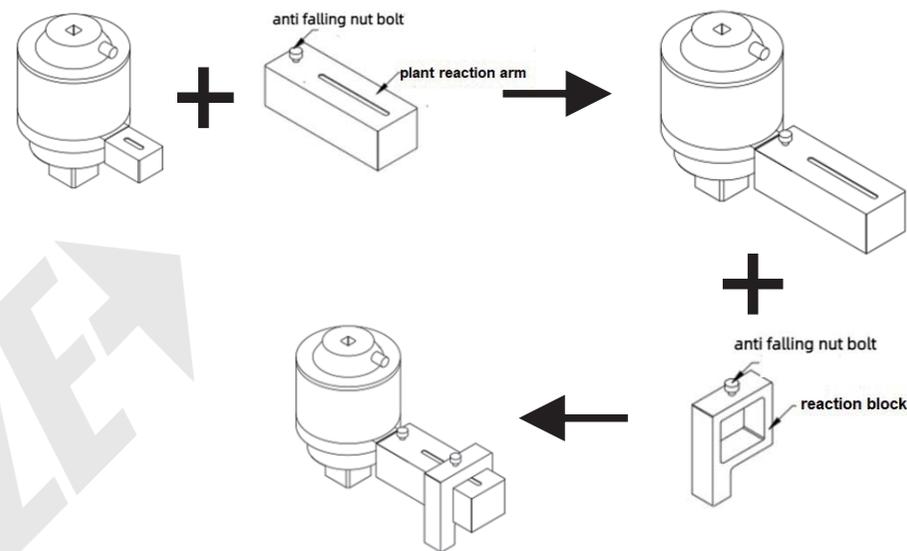
Specification



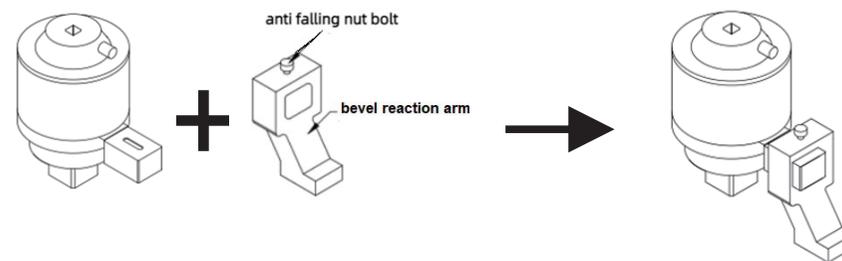
CODE	ΦD	H	H1	H2	H3	L	L1	L2	L3	S
IST-DT2000	82	120	95	52	21	93	160	83	15.5	1"
IST-DT3500	98	133	107	56	26	117	152	73	14	1"
IST-DT5500	115	165	127	72	39.5	134	210	85	20	1.5"
IST-DT7500	127	174	136	80	38	146	243	97	18	1.5"

Code	IST-DT2000	IST-DT3500	IST-DT5500	IST-DT7500
Input square	1/2"	1/2"	1/2"	1/2"
Output square	1"	1"	1 1/2"	1 1/2"
Torque ratio	plant	1:13.3	1:16	1:21.5
	bevel	1:12	1:15	1:18.5
Weight(kg)	4.1	6.4	11.4	16
Max. output(N.m)	2000	3500	5500	7500

Installation instructions



Schematic diagram of plate type installation of torque multiplier



Schematic diagram of bevel type installation of torque multiplier

Maintenance

- ◆ The internal oil of the multiplier is periodically changed every year.
- ◆ Do not damage the appearance of the multiplier.
- ◆ Non-professionals should not attempt to disassemble or repair.