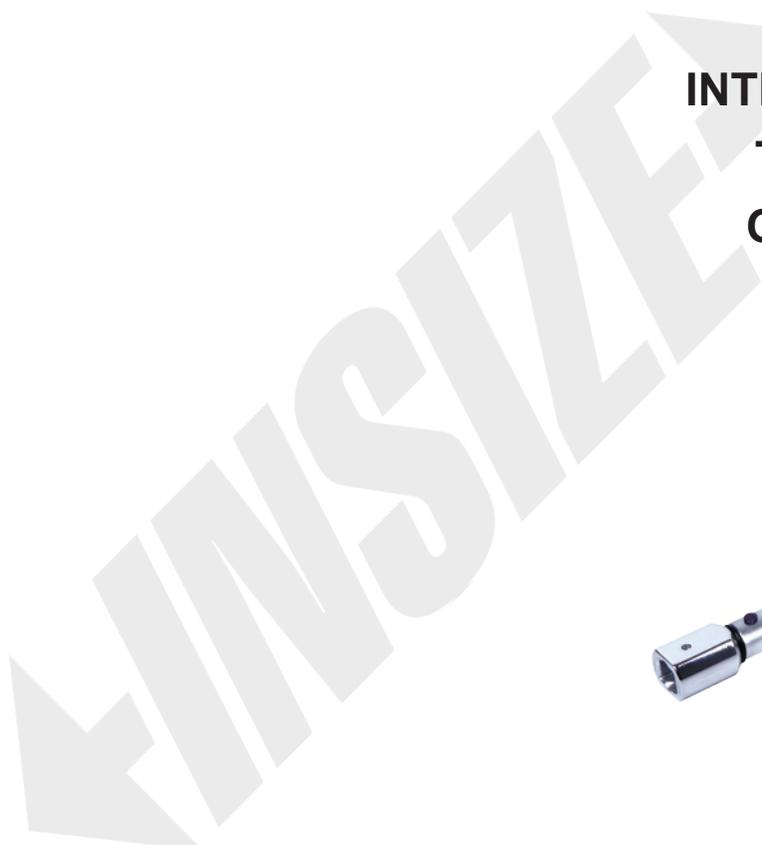


IST-29W SERIES

IST-29W SERIES INTERCHANGEABLE HEAD TORQUE WRENCHES OPERATION MANUAL



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EN -- Please scan the QR code or visit the website for operation manual.

IT --- Scansiona il codice QR oppure visita il sito web per il manuale d'uso.

CZ -- Pro návod prosím naskenujte QR kód nebo navštivte webovou stránku.

ES -- Por favor, escanee el código QR o visite la página web para ver el manual de instrucciones.

FR -- Veuillez scanner le QR Code ou visiter notre site web pour accéder aux manuels d'utilisation.

DE -- Bitte scannen Sie den QR-Code oder besuchen Sie die Website für die Bedienungsanleitung.

PT -- Para aceder ao manual de instruções, por favor, faça a leitura do código QR ou visite o nosso site.

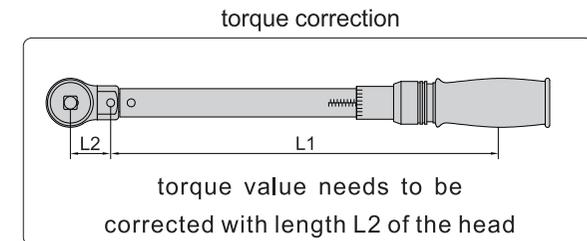
MN-IST-29W Series-E

Attention

- ◆ According to DIN ISO 6789, ASME B107.300
- ◆ Don't use the wrench as a hammer.
- ◆ Don't use the wrench in any liquid.
- ◆ After the first using or being left unused for longer time and it is required to use once again, be sure to use higher torque to operate for 5~10 times so that the components within may be fully lubricated by the special-purpose lubricant oil. When it is not used, be sure to set the torque to the lowest value.
- ◆ Don't keep applying pressure after reaching the preset torque, otherwise, the work piece may be damaged.
- ◆ Replaceable with a variety of heads, ratchet heads, open-end wrench heads and plum wrench heads in multiple size types for a wide range of applications.
- ◆ This torque wrench is a precision instrument intended to be used only to tighten screws, bolts and nuts to a desired torque. Do not use it as a "nut breaker", pry bar, or in lieu of a regular ratchet wrench.
- ◆ Do not apply torque in excess of the maximum capacity of the wrench.
- ◆ Apply load to the grip only, and do not use any handle extension bars. Any such misuse will result in inaccurate readings, and it may damage the wrench.
- ◆ The head for Holder torque wrench suggest to use our standard heads, Any incorrect application will cause error, will cause damage on the torque wrench.
- ◆ Make sure that you adjust the wrench to the exact torque units your specifications call for, or you will severely under-torque or over-torque, causing severe damage to the equipment you are working on.
- ◆ Do not disassemble the wrench for any reason. Highly stressed internal components may cause severe injury when released in an unintended manner.

Description

① Structure:

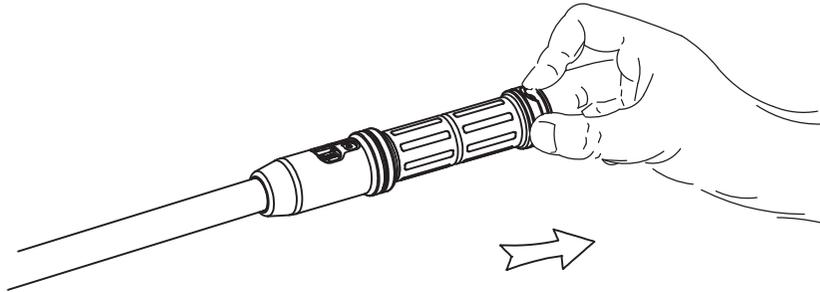


Formula: $T = T' \times (L + L1) / (L' + L1)$

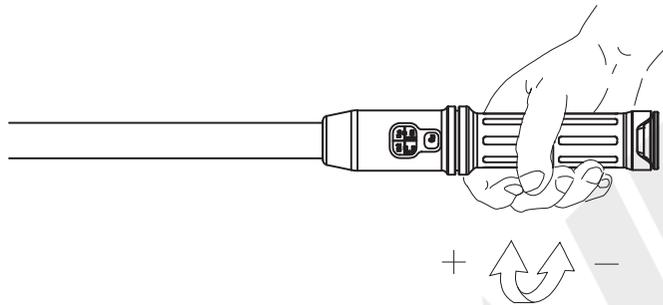
- T: the torque need to be set on screen
- T': the actual torque applied to nut or bolt
- L: the standard length of the wrench head
- L': the length of the new wrench head
- L1: the length of the arm

Operation

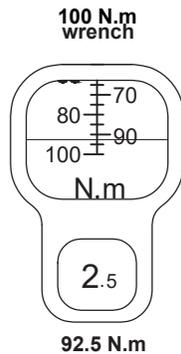
- 1 UNLOCK: Gently pull outward on the tail push-pull locking mechanism.



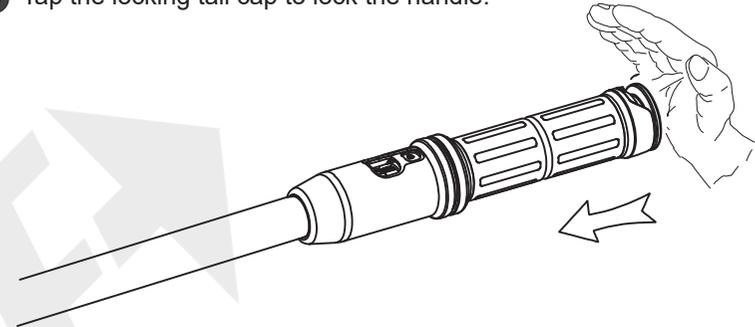
- 2 Turning the handle clockwise increases the torque value, counterclockwise decreases it, the main scale shows the total torque and the small scale shows the precise segmentation of the torque.



For example



- 3 Tap the locking tail cap to lock the handle.



- 4 Hold the handle firmly in the middle to move the torque wrench clockwise carefully and stop immediately after “click”.

Note:

It is quite easy to release at low torque and there is almost no audible “click” sound. Operator should test how it feels under low torquesetting to avoid accidentally overtightening and damage device.

Maintenance

- 1 Do not use organic solvents, such as alcohol or paint thinner when cleaning the wrench.
- 2 When the wrench is not used for an extended period of time, put the wrench in box for storing. When not in use, adjust the wrench to its lowest reading and store it in the provided case.
- 3 It is recommended to calibrate at least once a year to maintain its accuracy. Frequent use may be inconsistent.

APPLYING TORQUE

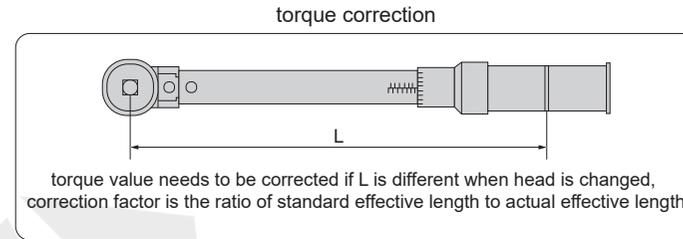
1. Insert an appropriate socket or drive attachment onto the wrench head and onto the fastener you want to tighten.
2. Apply hand pressure to the grip, and ONLY TO THE GRIP. You may support the wrench at the wrench head with the other hand to steady it, especially when using long socket extensions, without appreciably affecting the accuracy of the wrench.
3. If, due to the required effort, you need to use both hands, put the other hand on the top of the first hand, never on any other part of the wrench.
4. Apply slow and steady pull or push until the wrench momentarily releases, with or without a distinct "click" sound. Release the pressure right at this point.
DO NOT OVERTORQUE!

SAFETY WARNING

Overtorqued or defective fasteners, sockets, as well as the wrench itself, may suddenly break causing you to lose balance, fall, or to suffer other trauma. Be sure that you have firm footing, are properly balanced, and if necessary are using appropriate harness, back support, or other safety device.

Calculation of preset torque when extending the head

Using a replaceable head that is longer than the standard head will cause the torque value on the wrench to differ from the actual torque value required. Therefore, the torque value set on the wrench should be calculated using the following formula:



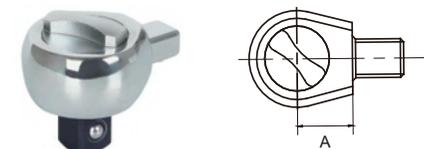
$$T(W) = T(E) \frac{L}{L+E}$$

- L - Standard effective length of wrench
- E - Length of the extended part of the wrench
- T(E) - Torque required by extension
- T(W) - Torque set on the wrench

The calculation of E is based on converting the wrench head dimension A. (Torque values only need to be readjusted when selecting wrench heads marked with an asterisk in the table.)

Example: When a customer purchases a wrench with a mounting slot size of 12×9 mm, and selects the IST-11WM-K35 head model, E is obtained by subtracting the base head dimension A from the IST-11WM-K35 head dimension A.

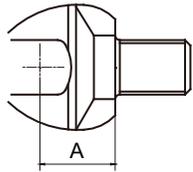
$$E=40-17.5=22.5\text{mm}$$



RATCHET HEAD (optional)

Code	Square driver	Dimension (A)	Applicable wrenches
IST-11WM-R1	1/4"	17.5mm	IST-29WM25, IST-29WM50, IST-29WM60, IST-29WM100
IST-11WM-R2	3/8"	17.5mm	IST-29WM25, IST-29WM50, IST-29WM60, IST-29WM100
IST-11WM-R3	1/2"	25mm	IST-29WM150, IST-29WM200, IST-29WM300, IST-29WM400
IST-11WM-R4	3/4"	25mm	IST-29WM150, IST-29WM200, IST-29WM300, IST-29WM400
IST-11WM-R5	3/4"	35mm	IST-29WM550, IST-29WM750, IST-29WM850

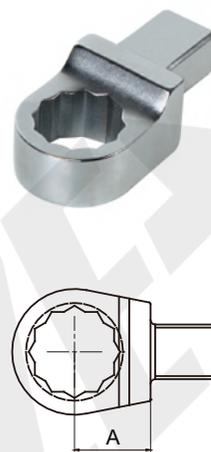
OPEN END HEAD (optional)



Code	Square driver	Dimension (A)	Applicable wrenches
IST-11WM-K4	4mm	17.5mm	IST-29WM25 IST-29WM50 IST-29WM60 IST-29WM100 (A×B 12×9mm)
IST-11WM-K5	5mm	17.5mm	
IST-11WM-K5.5	5.5mm	17.5mm	
IST-11WM-K6	6mm	17.5mm	
IST-11WM-K7	7mm	17.5mm	
IST-11WM-K8	8mm	17.5mm	
IST-11WM-K9	9mm	17.5mm	
IST-11WM-K10	10mm	17.5mm	
IST-11WM-K11	11mm	17.5mm	
IST-11WM-K12	12mm	17.5mm	
IST-11WM-K13	13mm	17.5mm	
IST-11WM-K14	14mm	17.5mm	
IST-11WM-K15	15mm	17.5mm	
IST-11WM-K16	16mm	17.5mm	
IST-11WM-K17	17mm	17.5mm	
IST-11WM-K19 *	19mm	25mm	
IST-11WM-K20 *	20mm	25mm	
IST-11WM-K25 *	25mm	30mm	
IST-11WM-K30 *	30mm	35mm	
IST-11WM-K35 *	35mm	40mm	
IST-11WM-K40 *	40mm	50mm	
IST-11WM-K45 *	45mm	50mm	
IST-11WM-K50 *	50mm	55mm	
IST-11WM-K55 *	55mm	55mm	
IST-11WM-K60 *	60mm	60mm	
IST-11WM-K65 *	65mm	65mm	
IST-11WM-K70 *	70mm	65mm	
IST-11WM-K75 *	75mm	75mm	
IST-11WM-K80 *	80mm	80mm	
IST-11WM-K85 *	85mm	80mm	
IST-11WM-K90 *	90mm	90mm	
IST-11WM-K95 *	95mm	90mm	

Code	Square driver	Dimension (A)	Applicable wrenches
IST-11WM-K6A	6mm	25mm	IST-29WM150 IST-29WM200 IST-29WM300 IST-29WM400 (A×B 18×14mm)
IST-11WM-K7A	7mm	25mm	
IST-11WM-K8A	8mm	25mm	
IST-11WM-K9A	9mm	25mm	
IST-11WM-K10A	10mm	25mm	
IST-11WM-K11A	11mm	25mm	
IST-11WM-K12A	12mm	25mm	
IST-11WM-K13A	13mm	25mm	
IST-11WM-K14A	14mm	25mm	
IST-11WM-K15A	15mm	25mm	
IST-11WM-K16A	16mm	25mm	
IST-11WM-K17A	17mm	25mm	
IST-11WM-K18A	18mm	25mm	
IST-11WM-K19A	19mm	25mm	
IST-11WM-K20A	20mm	25mm	
IST-11WM-K21A	21mm	25mm	
IST-11WM-K22A	22mm	25mm	
IST-11WM-K23A	23mm	25mm	
IST-11WM-K24A	24mm	25mm	
IST-11WM-K25A	25mm	25mm	
IST-11WM-K30A *	30mm	35mm	
IST-11WM-K35A *	35mm	40mm	
IST-11WM-K40A *	40mm	50mm	
IST-11WM-K45A *	45mm	50mm	
IST-11WM-K50A *	50mm	55mm	
IST-11WM-K55A *	55mm	55mm	
IST-11WM-K60A *	60mm	60mm	
IST-11WM-K65A *	65mm	70mm	
IST-11WM-K70A *	70mm	70mm	
IST-11WM-K75A *	75mm	70mm	
IST-11WM-K80A *	80mm	80mm	
IST-11WM-K85A *	85mm	80mm	
IST-11WM-K90A *	90mm	80mm	

Code	Square driver	Dimension (A)	Applicable wrenches
IST-11WM-K13B	13mm	35mm	IST-29WM550 IST-29WM750 IST-29WM850 (A×B 32×24mm)
IST-11WM-K14B	14mm	35mm	
IST-11WM-K15B	15mm	35mm	
IST-11WM-K16B	16mm	35mm	
IST-11WM-K17B	17mm	35mm	
IST-11WM-K18B	18mm	35mm	
IST-11WM-K19B	19mm	35mm	
IST-11WM-K20B	20mm	35mm	
IST-11WM-K21B	21mm	35mm	
IST-11WM-K22B	22mm	35mm	
IST-11WM-K24B	24mm	35mm	
IST-11WM-K25B	25mm	35mm	
IST-11WM-K26B	26mm	35mm	
IST-11WM-K27B	27mm	35mm	
IST-11WM-K28B	28mm	35mm	
IST-11WM-K29B	29mm	35mm	
IST-11WM-K30B	30mm	35mm	
IST-11WM-K32B	32mm	35mm	
IST-11WM-K35B*	35mm	40mm	
IST-11WM-K40B*	40mm	40mm	
IST-11WM-K45B*	45mm	50mm	
IST-11WM-K50B*	50mm	55mm	
IST-11WM-K55B*	55mm	55mm	
IST-11WM-K60B*	60mm	60mm	
IST-11WM-K65B*	65mm	70mm	
IST-11WM-K70B*	70mm	70mm	
IST-11WM-K75B*	75mm	70mm	
IST-11WM-K80B*	80mm	80mm	
IST-11WM-K85B*	85mm	85mm	
IST-11WM-K95B*	95mm	90mm	



BOX END HEAD (optional)			
Code	Square driver	Dimension (A)	Applicable wrenches
IST-11WM-M8	8mm	17.5mm	IST-29WM25 IST-29WM50 IST-29WM60 IST-29WM100 (A×B 12×9mm)
IST-11WM-M10	10mm	17.5mm	
IST-11WM-M13	13mm	17.5mm	
IST-11WM-M14	14mm	17.5mm	
IST-11WM-M15	15mm	17.5mm	
IST-11WM-M17	17mm	17.5mm	
IST-11WM-M19	19mm	17.5mm	
IST-11WM-M13A	13mm	25mm	IST-29WM150 IST-29WM200 IST-29WM300 IST-29WM400 (A×B 18×14mm)
IST-11WM-M14A	14mm	25mm	
IST-11WM-M15A	15mm	25mm	
IST-11WM-M17A	17mm	25mm	
IST-11WM-M19A	19mm	25mm	
IST-11WM-M22A	22mm	25mm	
IST-11WM-M24A	24mm	25mm	
IST-11WM-M27A*	27mm	30mm	
IST-11WM-M30A*	30mm	30mm	
IST-11WM-M32A*	32mm	30mm	
IST-11WM-M22B	22mm	35mm	IST-29WM550 IST-29WM750 IST-29WM850 (A×B 32×24mm)
IST-11WM-M24B	24mm	35mm	
IST-11WM-M27B	27mm	35mm	
IST-11WM-M28B	28mm	35mm	
IST-11WM-M30B	30mm	35mm	
IST-11WM-M32B	32mm	35mm	
IST-11WM-M33B	33mm	35mm	
IST-11WM-M36B*	36mm	40mm	
IST-11WM-M38B*	38mm	40mm	
IST-11WM-M40B*	40mm	45mm	

*Torque value needs to be corrected for these heads