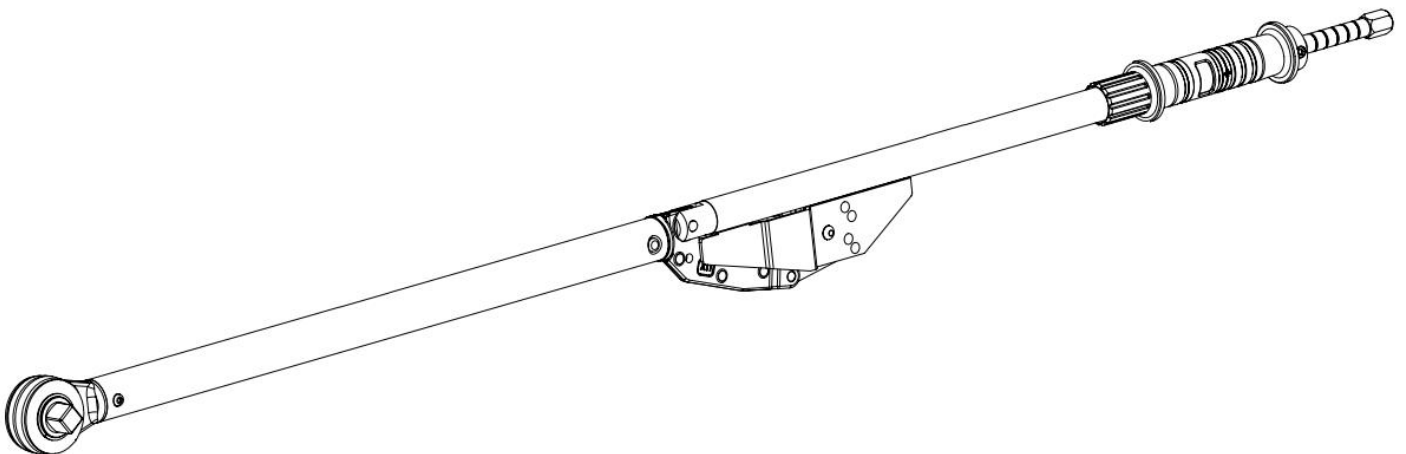


This document assumes that the operator carrying out any operation with this product is trained and competent to do so. This manual does not attempt to cover all details or variations in the equipment. Nor does this manual claim to provide for every possible contingency met in connection with the installation, operation, or maintenance thereof. Should further information be desired, or should a particular problem arise which is not covered in sufficient detail, the matter should be referred to Hi-Force.

## OPERATING INSTRUCTION MANUAL

HTW SERIES | MANUAL TORQUE WRENCH RANGE | BREAK BACK TYPE



This manual applies to the Hi-Force HTW Industrial manual torque wrenches. It contains the latest product information available at the time of publication and approval. Hi-Force reserves the right to make changes to this document at any time without notice.

**Table of Contents**

**Contents**

<b>1.0 Inspection upon Receipt.....</b>	<b>3</b>
<b>2.0 General Description .....</b>	<b>3</b>
<b>3.0 Safety Precautions .....</b>	<b>3</b>
3.1 Introduction.....	3
3.2 Torque wrench Specific Safety Precautions .....	3
<b>4.0 Declaration of Incorporation/Conformity .....</b>	<b>3</b>
<b>5.0 Available Models .....</b>	<b>4</b>
<b>6.0 Installation/Setup.....</b>	<b>4</b>
6.1 Setup .....	4
6.2 Setting the Torque .....	5
6.3 Operation .....	5
<b>7.0 General Maintenance .....</b>	<b>6</b>

## 1.0 Inspection upon Receipt

Upon receipt of the product, visually inspect the item for any evidence of shipping damage. Please note: the warranty does not cover shipping damage. Notify the courier immediately if shipping damage is found and refrain from putting the product into service. The carrier is responsible for repair and replacement costs resulting from damage in transit shipping.

### Important Note:



Before putting this Hand Torque Wrench into operation, please validate the certificate (provided along with this tool) by completing the section "date of first issue, sign and stamp."

## 2.0 General Description

This operation manual covers the HTW range of manual torque wrenches. The HTW-B type tools feature a "break-back" design to give a very clear indication of the required torque being reached

## 3.0 Safety Precautions

### 3.1 Introduction



Read and follow all the instructions and safety warnings carefully before handling, installation or use of any hydraulic equipment. Failure to do so could lead to equipment damage, equipment failure, personal injury or even death. Hi-Force will not be held responsible for any damage to the equipment, injury or death resulting from the unsafe use of, lack of maintenance too, or incorrect operation of the product. If in doubt on the correct use of any Hi-Force equipment, contact your nearest Hi-Force office or distributor. Only qualified personnel should be allowed to operate hydraulic equipment. If an operator has not been trained on high-pressure hydraulic equipment and its safe usage, consult your local Hi-Force sales office who can offer training courses for operators.



All operators should ensure that all necessary personal protective equipment as specified by their employer is worn when operating any hydraulic equipment. Safety shoes, safety glasses/visor and protective gloves should be worn at all times. All relevant risk assessments should be completed prior to use of the equipment

### 3.2 Torque wrench Specific Safety Precautions



**WARNING!** Failure to observe and obey the following safety precautions could result in property damage, significant personal injury or death.



Read this entire manual before operating the torque wrench. Failure to observe the following warnings could result in serious bodily injury. These instructions are part of the torque wrench. They must be kept in a safe place for later use and be passed along with the torque wrench if it is sold, loaned, or otherwise transferred. The torque wrench should be used only by TRAINED PERSONNEL who have been taught how to safely use and handle the torque wrench. Using the torque wrench without training may result in SERIOUS INJURIES or DEATH. Employers purchasing this torque wrench MUST ensure employees using the torque wrench have read and understood these Operating Instructions prior to using the torque wrench. The Operating Instructions MUST be available to the employees for reference at all times.

**OVERLOAD HAZARD** The torque wrench can be overloaded during use and break causing SERIOUS INJURY or DEATH. ALWAYS use only original accessory parts. Accessory parts not approved by the manufacturer may cause the torque wrench to overload or fail. ALWAYS inspect the torque wrench for damage BEFORE use. NEVER use a damaged torque wrench. NEVER use the torque wrench if it has been dropped, used to strike other objects, or if anything has fallen on it.

## 4.0 Declaration of Incorporation/Conformity

Hi-Force declares that this product has been tested and complies with the standards set out in the relevant EU directives. The EU Declaration of Incorporation/Conformity is included as Annex A to this instruction document and is supplied with all shipments of this product.

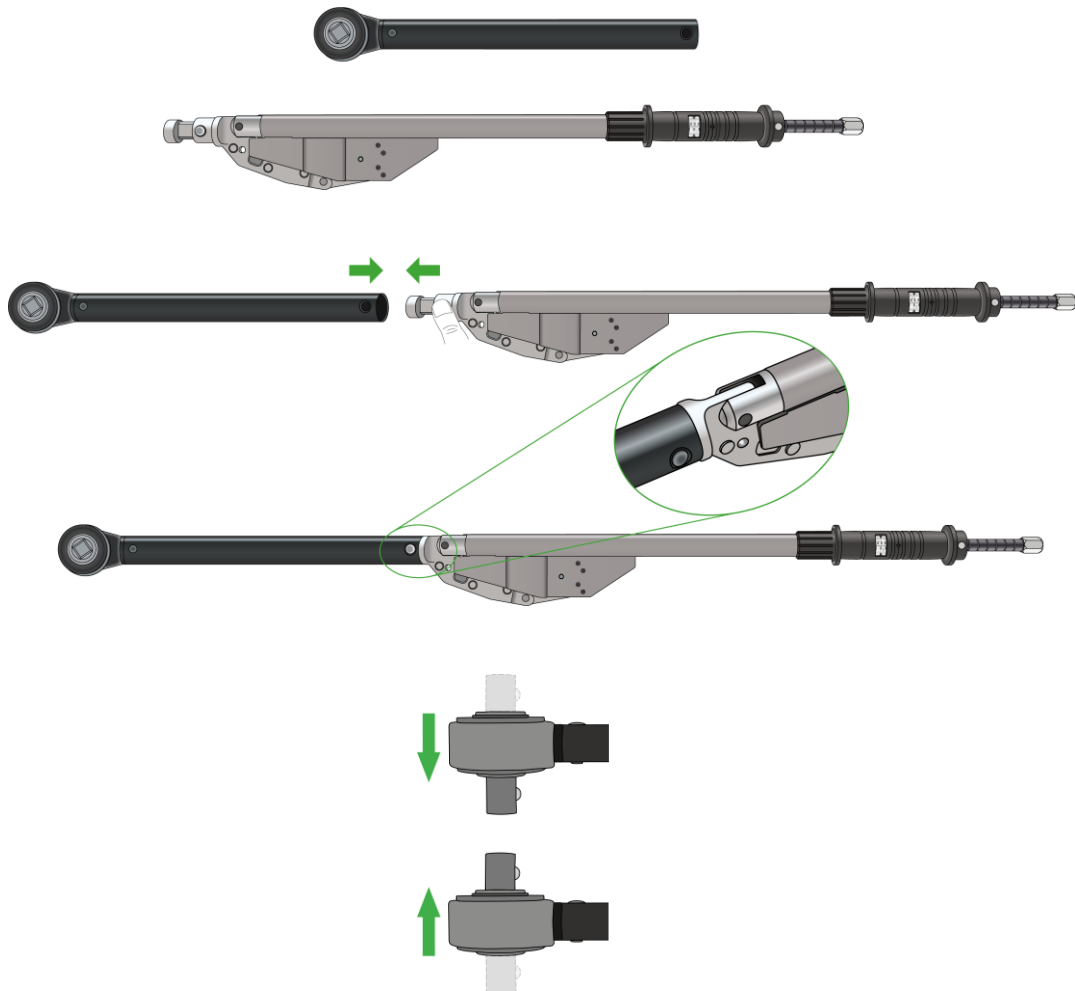
## 5.0 Available Models

MODEL NO.	SQUARE DRIVE [INCHES]	TORQUE RANGE		OVERALL LENGTH (MAX) [mm]	RATCHET HEAD DIA [mm]	WEIGHT [Kg]
		N.m	lbf.ft			
HTW1000B	3/4"	300 – 1,000	200 - 750	1,554	69	7.4
HTW1500B	3/4"	700 – 1,500	500 – 1,000	1,869	69	9.6
HTW1800B	1"	700 – 1,500	500 – 1,000	1,869	69	9.6
HTW2000B	1"	900 – 2,000	700 – 1,500	1,940	69	12.8

## 6.0 Installation/Setup

### 6.1 Setup

Ratchet consists of a split design for quick assembly/ease of storage/transportation and has a push through ratchet, which allows for two direction torquing.



### 6.2 Setting the Torque

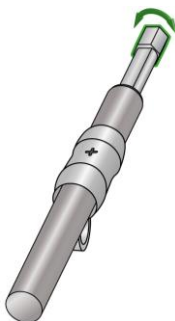


Turn the nut on the end of the torque wrench handle until the required setting aligns with the end of the handle tube.

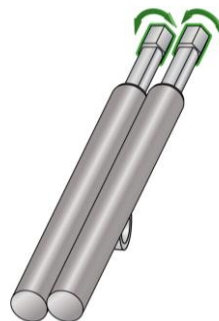
HTW1000B



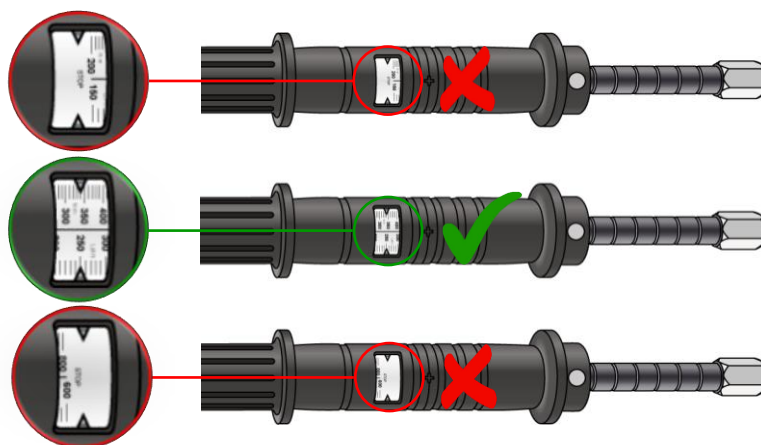
HTW1500B  
HTW1800B



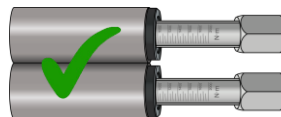
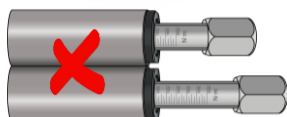
HTW2000B



Never adjust beyond the marked scale or else calibration will be lost.

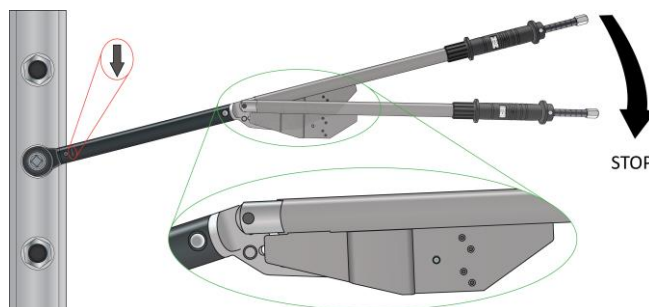


On the HTW2000B model there are two adjustment nuts. It is important that both nuts are adjusted equally to the required torque value.



### 6.3 Operation

Select a socket of the correct size for the nut to be tightened, and with the correct size of square drive for the torque wrench. Ensure the socket is in good condition. Fit the socket to the square drive of the torque wrench. Engage the socket fully onto the nut and pull the torque wrench smoothly towards you. Make use of the ratchet mechanism to keep the tool in a comfortable working range. Always pull the wrench squarely from the centre of the handle. HTW-B models: When the required torque setting is reached, the wrench will “break” in the centre through a large and easily visible angle. The tool mechanism is designed to ensure a smooth “break” to minimise the risk of the operator losing balance. When hand pressure is relaxed the tool will reset for the next tightening cycle.

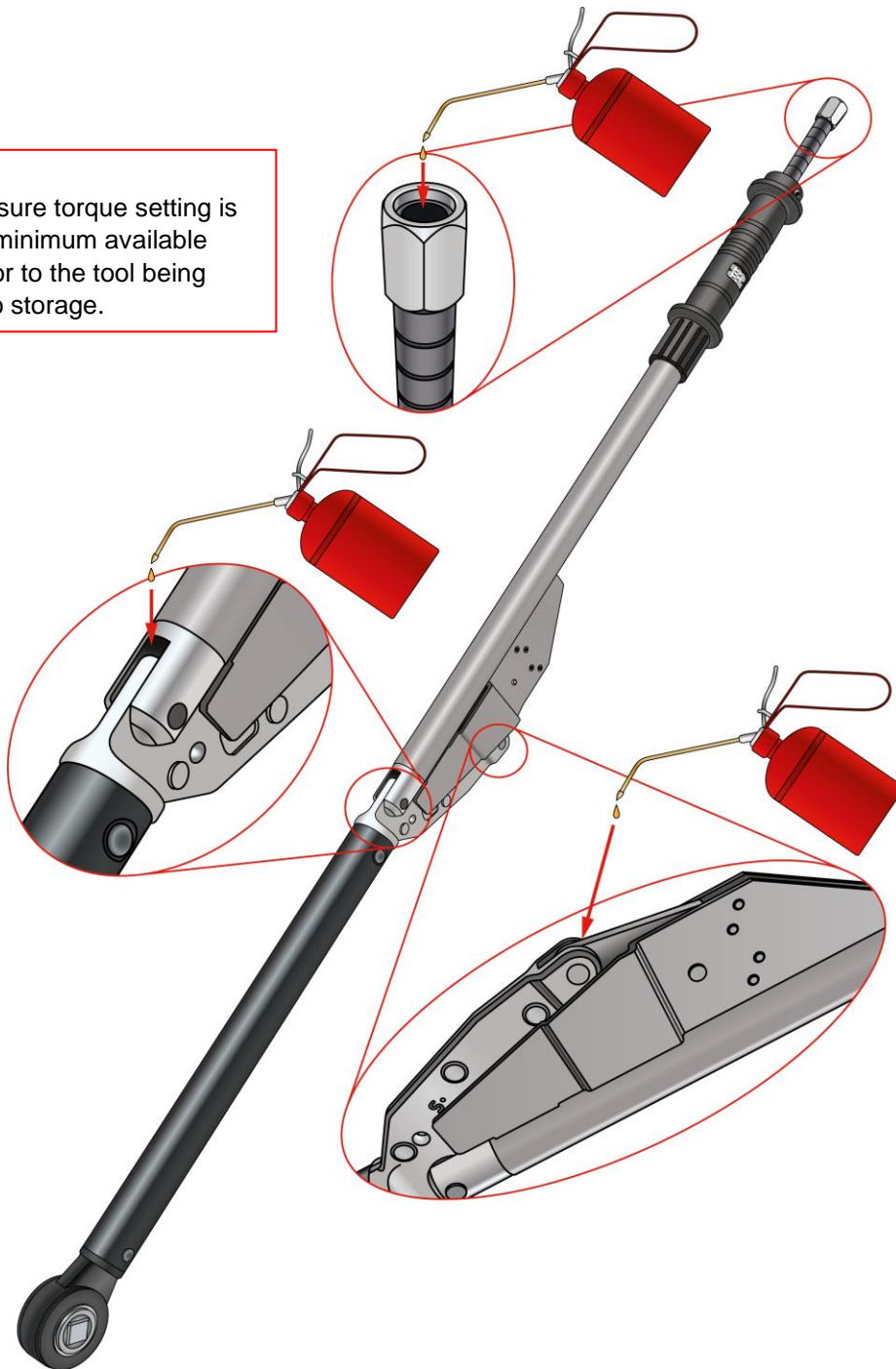


## 7.0 General Maintenance

Lubrication points:

**NOTE:**

Always ensure torque setting is set to the minimum available setting prior to the tool being placed into storage.



Do treat your torque wrench like a precision instrument. Do operate the tool several times to re-distribute lubrication on the torque mechanism when it has not been used for some days. Do set the spanner at a lower figure (75% of torque required) tighten all nuts then re-set final figure and tighten again. Do see that bolt threads are clean and lightly oiled before tightening. **Do reduce the torque setting to the minimum when the tool is put into storage.** Do not snatch the tool when tightening: a smooth continuous pull gives more accurate results. Don't tilt the torque wrench away from 90° to the axis of the bolt when tightening. For full and comprehensive details on this piece of equipment and all the Hi- Force range of torque & tension bolting tools please go to:

[www.hi-force.com](http://www.hi-force.com)

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