



说明书材质要求： 105g 有光铜版纸	说明书成品尺寸： 73*100mm
■ Black（单色印刷）	
折叠方式： 风琴折（20P以下用风琴折）	备注：
特别注意：此页内容不印刷	

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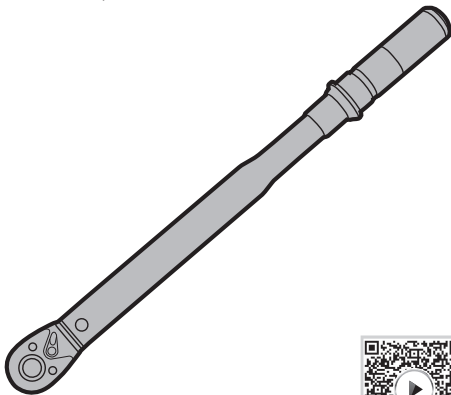
更改记录	1. 新版本				
	0524.V04	2024.5.16	Kitty		
	版本号	日期	设计师		

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**PRODUCT
MANUAL**

TORQUE WRENCH



HPTW200N1



GENERAL SAFETY WARNINGS**⚠WARNING!**

Please read the operation manual carefully before you start to operate the torque wrench. contact the manufacturer for any questions.

So as to avoid safety accidents and damage to the torque wrench.

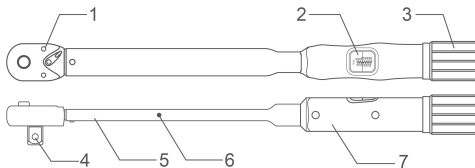
- a. In order to maintain good accuracy, it is recommended to recalibrate approximately once a year or each 5000 times
- b. Make sure the torque wrench is set correctly before use (the torque is set on the minimum scale for shipment).
- c. Please go professional inspection department to perform regularly inspection for function and accuracy, in order to avoid injury accidents or damage the torque wrench, the individual must not disassemble the assembly.
- d. After using the wrench, adjust to the minimum torque; If you do not use the torque wrench for a long time, rub on the anti-rust oil and store in a dry place.
- e. Do not using torque wrench as a hammer, or using pliers to clip wrench, or using wrench in the water.

- f. This product is intended to apply a specific torque force to a fastener such as a nut or bolt. Do not use this product to loosen bolts, screws or the other fastener, since it might damage the ratchet and the calibrated settings.
- g. To prevent damage to the product, stop applying pressure when the “click” sound is heard. To remind that the “click” sound is acoustically weaker with lower torque settings
- h. Use only within rated torques range.

INTENDED USE

This torque wrench is designed to provide an extended travel impulse signal and an audible signal when the torque setting is achieved.

SPECIFICATIONS



1. Ratchet head

2. Window

3. Lock collar

4. Drive

5. Body

6. Calibration hole

7. Handle

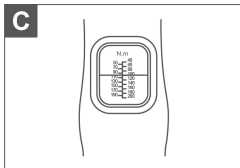
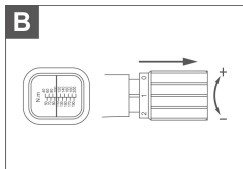
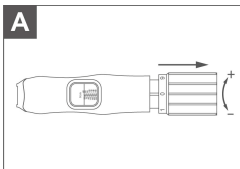
Technical specifications

Model No.	HPTW200N1
Drive size	1/2"
Length	530mm

Torque range	40-200Nm
Tolerance of torque	$\pm 4\%$
Material	Cr-V+Cr-Mo

Due to our continuing program of research and development, the specifications herein are subject to change without notice.

OPERATION PICTURE



OPERATION

To unlock pull the lock collar toward the hand grip section and hold in position while turning the grip. **(see Figure A)**

In this example we will change the torque setting at 101 Nm

Turn the grip to the right until zero aligns with the scale centerline and the end of the grip aligns with the 100 torque setting. **(see Figure B)**

Continue to turn the grip to the right until 1.0 aligns with the scale centerline.

Release the lock collar and turn the grip slightly left or right until the lock collar springs forward into the lock position to ensure exact alignment is achieved. **(see Figure C)**

Applying torque

This torque wrench is designed to provide an extended travel impulse signal and an audible signal when the torque setting is achieved.

CAUTION!

Do not continue to apply torque after the signal occurs

or over torquing and possible fastener failure will occur.

⚠ CAUTION!

The signal will be softer at the lower torque settings so care must be taken to ensure the signal is detected.

To apply torque, attach a socket wrench securely to the torque wrench square drive and position the socket onto the fastener so that tilting will not occur. Grasp the handgrip and apply a smooth steadily increasing force that is concentrated on the center of the grip in the torquing direction. Ensure the force applied is perpendicular (90 degrees) to the wrench body and perpendicular to the square drive, socket, and fastener centerline. Stop applying force immediately when the signal occurs.

Turn the fastener with a smooth and even force applied to the handle of the torque wrench. As turning resistance increases pull more slowly. To assure accuracy the fastener must be in motion when the torque measurement is made.

⚠ WARNING!

Any changes in the above procedure will result in a change of torque being applied.

Universal joints or universal sockets should not be used due

to the complexity of determining the associated error.
Fasteners and tools can suddenly fail

Adjusting the torque setting

⚠ CAUTION!

Do not attempt to turn the grip with the lock collar in the lock position.

Flex head torque wrenches

If angular access is needed a flex head torque wrench should be used and the associated error determined as described below.

To compute the torque being applied by a flex head torque wrench:

Torque applied

= Cosine (angle of flex) x Wrench setting

Wrench setting

= (Torque required) / Cosine (Angle of flex)

Wrench extensions

When it is necessary to use an extension that changes the effective lever length of the torque wrench torque being applied will change. Compute adjustments as follows:

TW = Torque set on wrench

TE = Torque applied by the extension on the fastener



$$TW = (TE \times L) / (L + E) \quad TE = (TW \times (L + E)) / L$$

NOTE: Socket extension bars that are axially in line with the square drive do not cause error and need no adjustment.

Operation tips

Proper use of this professional torque wrench will give you complete satisfaction in its performance and reliability.

Following are some helpful tips:

1. Accuracy is assured by gripping the wrench properly. Grasp the GRIP, not the SHAFT, and apply load smoothly. Pulling the wrench allows more control and thus better accuracy than pushing.
2. Each torque wrench is lubricated before leaving the factory. If it has not been used for an extended time, it should be operated a few times to re-distribute the lubricant within the working mechanism.
3. Never place an extension “CHEATER BAR” over the

handle in an attempt to get more leverage. on the fastener

4. Never set for higher or lower torque values than those indicated on your wrench.
5. For greater accuracy, remove any burrs, clean and lightly lubricate all thread surfaces of the fasteners being installed before torquing.
6. WARNING-never use your torque wrench to apply more torque than its rated capacity.
7. Do not use the wrench to loosen fasteners. It is designed to be a precision
8. torque measurement device only.

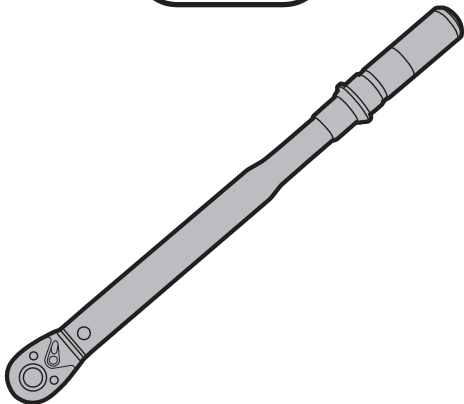
Features

- a) Adding quick-release function; easier to change shifter direction;
- b) Convenient to change parts, lower repair cost; bigger contact surface between shifter and ratchet, strengthen torque value transmission.
- c) Sealed tube opening keeps dirt and debris out of wrench.
- d) Flattened tube design provides higher strength in the loading direction than typical round tubes and a lower profile for easier access to tight locations.

- e) Internal design provides up to 80% more release travel to help determine proper torque is reached in loud noise environments and to reduce over torquing.
- f) Large rolling contact surface of cam design provides extended calibration life.
- g) Ergonomic plastic handle design provides comfortable hand feeling to user.
- h) Comfortable plastic handle provides anti-slip function when applying high torques.

Storage

- a) This product is a precision instrument and should be stored with care using provided storage box. Avoid any vibrations and shocks.
- b) Set the torque to the lowest level before storage



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