

ANGLE TORQUE WRENCH MODEL WQL

OPERATING MANUAL

TOHNICHI MFG. CO.,LTD.
TOKYO, JAPAN



INDEX

- 1. PRECAUTIONS**
- 2. PRECAUTIONS FOR USE**
- 3. OUTLINE**
- 4. SPECIFICATIONS**
- 5. EXTERNAL VIEW**
- 6. OPERATING PROCEDURE**

1. PRECAUTIONS

Before using this ANGLE TORQUE WRENCH, be sure to carefully read all the manuals. If you have any questions, please contact your Tohnichi distributor or Tohnichi for assistance.

Please keep this manual for future reference.

- Don't use the angle torque wrench beyond the maximum torque setting. This will cause damage or injury.
- Don't drop the angle torque wrench or apply a strong shock or jolt. This will cause damage or deformation as well as decrease the accuracy and durability, which may cause an accident or injury.
- Don't use this angle torque wrench except for tightening purpose. This is a angle torque wrench for bolt tightening only.
- Don't expose the angle torque wrench to water or oil. It will result in a possible breakdown or cause damage.
- Remove any dirt such as dust, mud, oil and water, etc. after each use and before storing the angle torque wrench.

2. PRECAUTIONS FOR USE

- Do not touch connecting portion of the pointer of the unit and the flexible tube with a hand when using the ANGELE TORQUE WRENCH.
- Handle with care when using the ANGLE TORQUE WRENCH. The wrench is a measuring tool.
- Set the torque within the torque range.

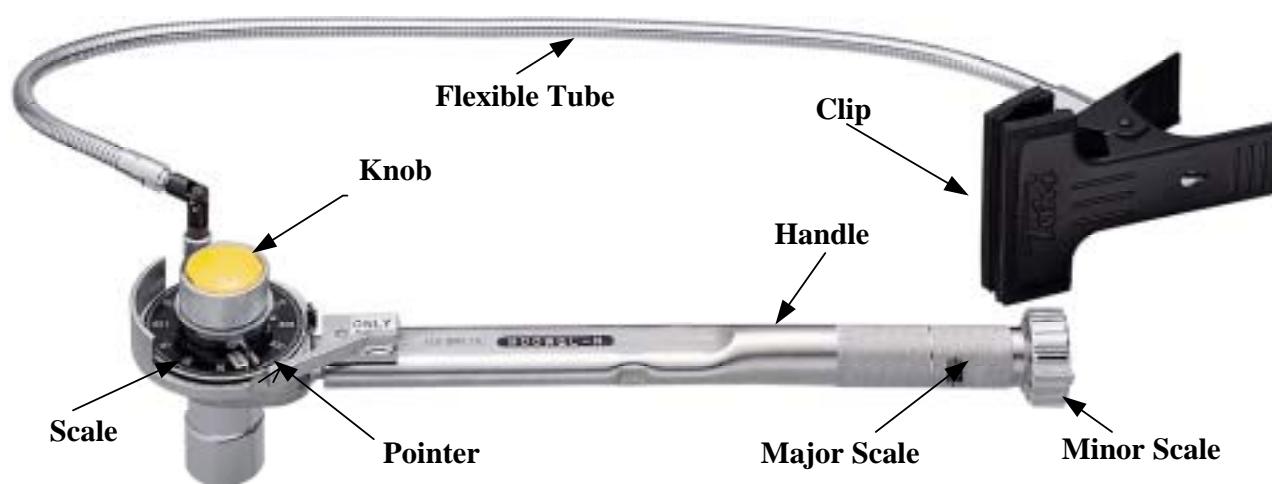
3. OUT LINE

- Most suitable for small-lot production, disassembly and re-assembly, maintenance, and after service.
- Can be used for engine head bolts and bolts for connecting rods. In fact anywhere tightening must be done by angle control method.
- Excellent for backing up production line facilities.
- Available as an ordinary torque wrench.

4. SPECIFICATIONS

Model	Angle Scale		Capacity		Dimension	
	Graduations	Max. Reading	Min. ~ Max.	Graduations	Overall Length	Square Drive
450WQL	2'	360°	(50) 100 ~ 500 kgf.cm	5 kgf.cm	260 mm	1/2"
900WQL	2'	360°	(100) 200 ~ 900 kgf.cm	10 kgf.cm	345 mm	1/2"
1800WQL	2'	360°	(300) 400 ~ 1800 kgf.cm	20 kgf.cm	495 mm	1/2"
2800WQL	2'	360°	(3) 4 ~ 28 kgf.m	0.2 kg.m	695 mm	3/4"
4200WQL	2'	360°	(4) 6 ~ 42 kgf.m	0.3 kg.m	975 mm	3/4"
WQL50N	2'	360°	(5) 10 ~ 50 N.m	0.5 N.m	260 mm	1/2"
WQL100N	2'	360°	(10) 20 ~ 100 N.m	1 N.m	345 mm	1/2"
WQL200N	2'	360°	(30) 40 ~ 200 N.m	2 N.m	495 mm	1/2"
WQL280N	2'	360°	(30) 40 ~ 280 N.m	2 N.m	695 mm	3/4"
WQL420N	2'	360°	(40) 60 ~ 420 N.m	3 N.m	975 mm	3/4"

4. EXTERNAL VIEW



6. OPERATING PROCEDURE

- 1) Set the desired snug torque.
- 2) Connect the flexible tube to the pointer adapter and fix the clip to the work piece or the bolt nearby.
- 3) Engage the socket with a bolt.
- 4) To preset angle:

Set the pointer to the desired angle and start tightening. After the snug torque is reached, the angle scale starts moving. Tighten the bolt until the angle scale reads zero degree.

- 5) To read angle:

Set the pointer to zero degree on the angle scale. After the snug torque is reached, the angle scale starts moving. Tighten the bolt until the desired torque is reached.

- 6) To use the wrench as an ordinary torque wrench:

Remove the flexible tube from the pointer adapter and set the desired torque. Tighten the bolt until a “click” is heard.

- 7) To attach a magnet base:

Remove the nut that fixes the clip and flexible tube. Insert the top screw (M8X1.25) of the flexible tube into the screw hole in the magnetic base and tighten.

Note: Recommended magnetic base is Kanetsu MB-PB or Fuji Jiko BR-50.

TOHNICHI MFG. CO.,LTD.

16-5, Omori-Nishi 1-Chome, Ota-Ku, Tokyo, Japan

Tel: 81-3-37622455 Fax: 81-3-37613852

N.V.TOHNICHI EUROPE S.A.

Industrieweg 27, Boortmeerbeek B-3190, Belgium

Tel: 32-16-606661 Fax: 32-16-606675

TOHNICHI AMERICA CORP.

677 Academy Drive, Northbrook, Illinois 60062, U.S.A.

Tel: 1-847-2728480 Fax: 1-847-2728714