TORQUE WRENCH CATALOG

■ TORQUE WRENCH
TORQUE WRENCH, PRESET TYPE
TORQUE WRENCH, PRESET TYPE
(DIGITAL READING)
TORQUE WRENCH, PRESET TYPE
(FOR BOTH OF R&L HAND THREADS)
TORQUE WRENCH, PRESET TYPE
(DIGITAL READING FOR BOTH OF
R&L HAND THREADS)
TORQUE WRENCH, SINGLE PURPOSE TYPE
TORQUE WRENCH, PRESET OPEN END SPANNER
TORQUE WRENCH, ADJUSTABLE WRENCH TYPE
(DIGITAL READING)

■ DIGITORQON TDT-SERIES
■ DIGITORQON HDT-SERIES
■ DIGITORQON DBDT-SERIES
■ TORQUE WRENCH CHECKER
■ TORQUE WRENCH TESTING MACHINE

No.1505
TONE CO., LTD.
BLACK&RED

RENOVATION COLOR

CLICK SOUND & LIGHT RETROACTION
TONE torque wrench is first in the industry!
Easy to set the torque by turning the torque setting knob and prevents unintended alteration of setting torque.

This test machine is easy to check torque at any time.
Easy to read on the LED screen and realizes high accuracy (±1%).
Compact size realizes install many testers in space saving.
TONE focus on not only torque wrench but also peripheral equipments.
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DIGITORQON TDT-series Functions and Features
A wide range of controllable torque (6 N.m～850N.m) available with 9 models.

- **Tightening Condition Monitoring Function**
  LCD display, beep sound and LED light alert when reaching the target torque.

- **Pass & Fail Function**
  Total 9 preset torque values registrable.

- **USB Data Transfer Function**
  Connect to PC by USB cable. Tightening torque data stored on the PC in CSV format.

- **Measurement Mode Change Function**
  "Tracking Mode" and "Peak Mode" available.

- **Calibration Certificate Included**
  Calibration Certificate with Traceability based on the National Standard.

- **Works in both CW and CCW directions.**

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**LED Light (Red & Green)・Beep Sound**
LED Light (Red & Green)・Beep Sound and LED display notify the tightening status. When reaching 80% of the target torque, Green LED light is ON. Beep Sound is also ON and OFF. LED Light: Red LED is ON at 100% of the target torque.

**Data Transfer Function**
Transfer Data in CSV format to PC.
- **Track Mode**
  Displayed torque value in accordance with applying torque.
- **Peak Mode**
  Display the max. torque applied.

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**Socket Hold Mechanism**
Hold socket tightly but easy to exchange.

**Hole for safe rope installed**
Suitable for the operation at high working place.

**Convenient plastic case for storing or carrying.**
DIGITORQON TDT-SERIES

DIGITORQON TDT-series is a digital torque measurement device with ratchet. Digital LED display enable easy torque management. Alert by beeping sound when reaching the target torque. Data transfer function available.

[Image of a torque wrench]

- Selectable Unit: N.m (preset), in-lb, ft-lb, kg-cm
- Exclude battery.
- Battery life varies depending on conditions. Automatically shut off when the battery life is low.

1. Not in Use
   - 1 year from the date on the Calibration Certificate

2. Start to use less than a year from the date on the Calibration Certificate.
   - 1 year from the first day of use or up to 10,000 tightening.

Repair・Maintenance

- Repair and Maintenance required when LCD, LED lights or the gear teeth in ratchet head is broken.
- Repair work might be impossible depending on the broken condition.
- Accuracy might become inaccurate in case that the tools are not in use for a long time or are not use properly. Contact your distributor periodically to keep the accuracy of the tools.
- Carry out overhaul once a year or every 10,000 tightening.
- Contact your distributor for reissuing the calibration certificate.
- Contact your distributor for details of handling DIGITORQON.

<table>
<thead>
<tr>
<th>Model</th>
<th>Torque Range Min.-Max. (N-m)</th>
<th>Min. Torque (N-m)</th>
<th>Increment (N-m)</th>
<th>Unit (*1)</th>
<th>Handle Type</th>
<th>Square Drive A (mm)</th>
<th>Dimensions (mm)</th>
<th>Weight (kg) (*2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T2DT30H</td>
<td>6 ~ 30</td>
<td>0.3 ~</td>
<td>0.01</td>
<td>N·m</td>
<td>I</td>
<td>6.35</td>
<td>22.5</td>
<td>19.5</td>
</tr>
<tr>
<td>T3DT60H</td>
<td>12 ~ 60</td>
<td>0.3 ~</td>
<td>0.01</td>
<td>N·m</td>
<td>I</td>
<td>9.5</td>
<td>31.0</td>
<td>26.5</td>
</tr>
<tr>
<td>T3DT85H</td>
<td>17 ~ 85</td>
<td>3 ~</td>
<td>0.1</td>
<td>N·m</td>
<td>I</td>
<td>9.5</td>
<td>31.0</td>
<td>26.5</td>
</tr>
<tr>
<td>T4DT135H</td>
<td>27 ~ 135</td>
<td>3 ~</td>
<td>0.1</td>
<td>N·m</td>
<td>I</td>
<td>9.5</td>
<td>31.0</td>
<td>26.5</td>
</tr>
<tr>
<td>T4DT200H</td>
<td>40 ~ 200</td>
<td>5 ~</td>
<td>0.1</td>
<td>N·m</td>
<td>II</td>
<td>12.7</td>
<td>41.0</td>
<td>34.5</td>
</tr>
<tr>
<td>T4DT340H</td>
<td>68 ~ 340</td>
<td>5 ~</td>
<td>0.1</td>
<td>N·m</td>
<td>II</td>
<td>12.7</td>
<td>41.0</td>
<td>34.5</td>
</tr>
<tr>
<td>T6DT500H</td>
<td>100 ~ 500</td>
<td>5 ~</td>
<td>0.1</td>
<td>N·m</td>
<td>II</td>
<td>19.0</td>
<td>60.0</td>
<td>55.0</td>
</tr>
<tr>
<td>T6DT850H</td>
<td>170 ~ 850</td>
<td>5 ~</td>
<td>0.1</td>
<td>N·m</td>
<td>II</td>
<td>19.0</td>
<td>60.0</td>
<td>55.0</td>
</tr>
</tbody>
</table>

- ±3% Accuracy
- AAA Alkaline or Manganese Battery
- Nickel Metal Hydride Rechargeable Battery x 2
- Continuous operation: 48 hrs (LED light off) Standby: 6 months (LED light on)
- Temperature: -10°C to 60°C
- Storage Temperature: -20°C to 70°C
- Humidity: Less than 90%RH

<table>
<thead>
<tr>
<th>Model</th>
<th>Battery Life (*3)</th>
<th>Operating Temperature</th>
<th>Storage Temperature</th>
<th>Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>T2DT30H</td>
<td>Continuous</td>
<td>-10°C to 60°C</td>
<td>-20°C to 70°C</td>
<td>Less than 90%RH</td>
</tr>
<tr>
<td>T3DT60H</td>
<td>Continuous</td>
<td>-10°C to 60°C</td>
<td>-20°C to 70°C</td>
<td>Less than 90%RH</td>
</tr>
<tr>
<td>T3DT85H</td>
<td>Continuous</td>
<td>-10°C to 60°C</td>
<td>-20°C to 70°C</td>
<td>Less than 90%RH</td>
</tr>
<tr>
<td>T4DT135H</td>
<td>Continuous</td>
<td>-10°C to 60°C</td>
<td>-20°C to 70°C</td>
<td>Less than 90%RH</td>
</tr>
<tr>
<td>T4DT200H</td>
<td>Continuous</td>
<td>-10°C to 60°C</td>
<td>-20°C to 70°C</td>
<td>Less than 90%RH</td>
</tr>
<tr>
<td>T4DT340H</td>
<td>Continuous</td>
<td>-10°C to 60°C</td>
<td>-20°C to 70°C</td>
<td>Less than 90%RH</td>
</tr>
<tr>
<td>T6DT500H</td>
<td>Continuous</td>
<td>-10°C to 60°C</td>
<td>-20°C to 70°C</td>
<td>Less than 90%RH</td>
</tr>
<tr>
<td>T6DT850H</td>
<td>Continuous</td>
<td>-10°C to 60°C</td>
<td>-20°C to 70°C</td>
<td>Less than 90%RH</td>
</tr>
</tbody>
</table>

Model Accuracy Battery Battery Life (*3) Operating Temperature Storage Temperature Humidity
T2DT30H ±3% AAA Alkaline 48 hrs (LED light off) -10°C to 60°C Less than 90%RH
T3DT60H ±3% AAA Alkaline 48 hrs (LED light off) -10°C to 60°C Less than 90%RH
T3DT85H ±3% AAA Alkaline 48 hrs (LED light off) -10°C to 60°C Less than 90%RH
T4DT135H ±3% AAA Alkaline 110 hrs (LED light off) -10°C to 60°C Less than 90%RH
T4DT200H ±3% AAA Alkaline 110 hrs (LED light off) -10°C to 60°C Less than 90%RH
T4DT340H ±3% AAA Alkaline 110 hrs (LED light off) -10°C to 60°C Less than 90%RH
T6DT500H ±3% AAA Alkaline 110 hrs (LED light off) -10°C to 60°C Less than 90%RH
T6DT850H ±3% AAA Alkaline 110 hrs (LED light off) -10°C to 60°C Less than 90%RH

Accessory

- Communications Software 1
- USB Cord 1
- AAA Alkaline (T2DT30H ~ T4DT135H) 2
- AA Alkaline (T4DT200H ~ T6DT850H) 2
- Calibration Certificate W/H Traceability 1
- Instruction Manual 1
- Plastic Case 1

Expire Date of Calibration Certificate

1. Not in Use
   - 1 year from the date on the Calibration Certificate
2. Start to use less than a year from the date on the Calibration Certificate.
   - 1 year from the first day of use or up to 10,000 tightening.

Torque Range Min.-Max. (N-m)

- T2DT30H: 6 ~ 30
- T3DT60H: 12 ~ 60
- T3DT85H: 17 ~ 85
- T4DT135H: 27 ~ 135
- T4DT200H: 40 ~ 200
- T4DT340H: 68 ~ 340
- T6DT500H: 100 ~ 500
- T6DT850H: 170 ~ 850

Model Accuracy Battery Battery Life (*3) Operating Temperature Storage Temperature Humidity
T2DT30H ±3% AAA Alkaline 48 hrs (LED light off) -10°C to 60°C Less than 90%RH
T3DT60H ±3% AAA Alkaline 48 hrs (LED light off) -10°C to 60°C Less than 90%RH
T3DT85H ±3% AAA Alkaline 48 hrs (LED light off) -10°C to 60°C Less than 90%RH
T4DT135H ±3% AAA Alkaline 110 hrs (LED light off) -10°C to 60°C Less than 90%RH
T4DT200H ±3% AAA Alkaline 110 hrs (LED light off) -10°C to 60°C Less than 90%RH
T4DT340H ±3% AAA Alkaline 110 hrs (LED light off) -10°C to 60°C Less than 90%RH
T6DT500H ±3% AAA Alkaline 110 hrs (LED light off) -10°C to 60°C Less than 90%RH
T6DT850H ±3% AAA Alkaline 110 hrs (LED light off) -10°C to 60°C Less than 90%RH

Expire Date of Calibration Certificate

1. Not in Use
   - 1 year from the date on the Calibration Certificate

2. Start to use less than a year from the date on the Calibration Certificate.
   - 1 year from the first day of use or up to 10,000 tightening.

Repair・Maintenance

- Repair and Maintenance required when LCD, LED lights or the gear teeth in ratchet head is broken.
- Repair work might be impossible depending on the broken condition.
- Accuracy might become inaccurate in case that the tools are not in use for a long time or are not use properly. Contact your distributor periodically to keep the accuracy of the tools.
- Carry out overhaul once a year or every 10,000 tightening.
- Contact your distributor for reissuing the calibration certificate.
- Contact your distributor for details of handling DIGITORQON.
DIGITORQON HDT-SERIES

DIGITORQON HDH-series is a digital torque measurement device mounted between the manual handle, such as a ratchet handle, a spinner handle, etc., and the socket. 2 measurement modes (peak & tracking) available in both CW and CCW directions. Alert by beeping sound when reaching the target torque. Set the beepsound function arbitrarily between 50% and 95% of the target torque.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity Torque Range (N・m) Min. ~ Max.</th>
<th>Unit</th>
<th>Square Drive Male/Female (mm)</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
<th>Case Size (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3DT135</td>
<td>10 ~ 135 N・m</td>
<td>N・m</td>
<td>9.5 (3/8&quot;)</td>
<td>45 45 24 75</td>
<td>0.194</td>
<td>130×107×53</td>
</tr>
<tr>
<td>H4DT200</td>
<td>20 ~ 200 N・m</td>
<td>N・m</td>
<td>12.7 (1/2&quot;)</td>
<td>45 45 24 75</td>
<td>0.184</td>
<td></td>
</tr>
</tbody>
</table>

*Exclude battery.

- Repeated Accuracy: ±3%
- Battery: AAA Alkaline Battery x 2
- Torque Readout (Unit: N・m)
- H3DT135: 0.1 increment (from 10.00 to 99.99 N・m), 0.1 increment (from 100.0 to 135.0 N・m)
- H4DT200: 0.1 increment (from 20.00 to 99.99 N・m), 0.1 increment (from 100.0 to 200.0 N・m)
- Loading Direction: Clockwise and Counter-Clockwise Direction
- Operating Temperature: 5℃~42℃
- Storage Temperature: -20℃~50℃

Accessory
- Calibration Certificate W/H Traceability 1
- Instruction Manual 1
- Plastic Case 1
- AAA Alkaline Battery 2

Expire Date of Calibration Certificate

1. Not in Use  1 year from the date on the Calibration Certificate
2. Start to use less than a year from the date on the Calibration Certificate

Repair・Maintenance

- Accuracy might become inaccurate in case that the tools are not in use for a long time or are not used properly. Contact your distributor periodically to keep the accuracy of the tools.

- Carry out overhaul once a year or every 10,000 tightening.
- Contact your distributor for reissuing the calibration certificate.

CAUTION
- Do not input power to “DIGITORQON” by using power tools.
DIGITORQON DBDT-SERIES

DIGITORQON DBDT-series is Digital Torque Screwdriver with bit changeable function. Over-Torque preventing function installed. Alert by beeping sound and Red LED when reaching the target torque. Set the over-torque preventing function arbitrarily between 50% and 95% of the target torque.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity Torque Range (cN·m)</th>
<th>Unit A/F of Bit (mm)</th>
<th>Battery</th>
<th>Operating Temperature</th>
<th>Storage Temperature</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
<th>Case size (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBDT3S</td>
<td>30 ~ 300</td>
<td>6.35</td>
<td>AAA Alkaline×2</td>
<td>5~42°C</td>
<td>-20~50°C</td>
<td>40×32×38.5</td>
<td>0.15</td>
<td>250×100×50</td>
</tr>
<tr>
<td>DBDT6S</td>
<td>60 ~ 600</td>
<td>6.35</td>
<td>AAA Alkaline×2</td>
<td>40×32×38.5</td>
<td>212</td>
<td>0.15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*The Unit on display of DBDT3 (cN·m) : 0.01 increment between 30 and 99.99, 0.1 increment between 100.0 and 300.0
*The Unit on display of DBDT6 (cN·m) : 0.01 increment between 60 and 99.99, 0.1 increment between 100.0 and 600.0
*The weight values exclude battery. *Battery life varies depending on conditions.

Accessory
- Screwdriver Bit Set (BTPM6S)
- Screwdriver Bit (+) BT-P1, P2, P3
- Screwdriver Bit (-) BT-M5.5, M6, M8
- Bit Holder BTB6
- Calibration Certificate W/H Traceability 1
- Instruction Manual 1
- Plastic Case 1
- AAA Alkaline Battery 2

**Expire Date of Calibration Certificate**

1. Not in Use
   1 year from the date on the Calibration Certificate

2. Start to use less than a year from the date on the Calibration Certificate.

**Repair・Maintenance**

- Accurancy might become inaccurate in case that the tools are not in use for a long time or are not use properly. Contact your distributor periodically to keep the accuracy of the tools.
- Carry out overhaul once a year or every 10,000 tightening.
- Contact your distributor for reissuing the calibration certificate.

**WARNING**
- Plastic handle is not for insulated. Do not use on live lines.
Method of use

1. Insert square drive securely to the socket.

2. Confirm switch lever is located on the right as below chart.

3. Set up the targeted torque value.
   - Turn Locking Screw to the left-hand direction (counter-clockwise) to loosen. When screw hits pin, screw doesn’t further move.
   - Turn Torque Setting Knob to set target torque value. The digits in the window indicate setting torque.

4. Apply socket to cover bolt/nut completely.

5. Apply the middle finger above loading point on the wrench, grip handle and pull to clockwise direction.

6. When setted torque value is reached, there is a clicking sound and light shock to the hand is felt. At this point, stop loading immediately to avoid over torque.

[Examples of torque setting using Model T4MN100]

- Setting up torque at 62N·m starting from actual reading of min. 20N·m. Turn Torque Setting Knob to the clockwise direction.
- Setting up torque at 100N·m starting from actual reading of max. 26N·m. Turn Torque Setting Knob to the counter-clockwise direction.

Now the torque setting is completed!
TORQUE WRENCH, PRESET TYPE (DIGITAL READING) is for tightening bolts/nuts. Prevents unintended alteration of setting torque owing to independent handle and setting knob. Prevents mistake in torque setting as torque value can be indicated in self explanatory digits. When reaching the preset torque, the wrench makes a click sound as well as light retroaction.

<table>
<thead>
<tr>
<th>Model</th>
<th>Torque Range Min-Max (N.m)</th>
<th>Increments</th>
<th>Sq. Drive A (mm)</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
<th>Case Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>T2MN6</td>
<td>1~ 6</td>
<td>0.1</td>
<td>6.35</td>
<td>24.0 18.3 10.4</td>
<td>222</td>
<td>0.26</td>
</tr>
<tr>
<td>T2MN13</td>
<td>3~ 13</td>
<td>0.2</td>
<td>9.5</td>
<td>24.0 18.3 10.4</td>
<td>253</td>
<td>0.29</td>
</tr>
<tr>
<td>T3MN20</td>
<td>4~ 20</td>
<td>0.2</td>
<td>9.5</td>
<td>24.0 18.3 10.4</td>
<td>253</td>
<td>0.30</td>
</tr>
<tr>
<td>T3MN50</td>
<td>10~ 50</td>
<td>0.5</td>
<td>12.7</td>
<td>36.0 26.4 14.0</td>
<td>308</td>
<td>0.52</td>
</tr>
<tr>
<td>T4MN10</td>
<td>10~ 50</td>
<td>0.5</td>
<td>12.7</td>
<td>36.0 26.4 14.0</td>
<td>308</td>
<td>0.55</td>
</tr>
<tr>
<td>T3MN100</td>
<td>20~100</td>
<td>1</td>
<td>19.0</td>
<td>45.2 41.5 17.8</td>
<td>716</td>
<td>1.89</td>
</tr>
<tr>
<td>T4MN140</td>
<td>30~140</td>
<td>1</td>
<td>19.0</td>
<td>45.2 41.5 17.8</td>
<td>716</td>
<td>1.89</td>
</tr>
<tr>
<td>T4MN200</td>
<td>40~200</td>
<td>2</td>
<td>19.0</td>
<td>45.2 41.5 17.8</td>
<td>716</td>
<td>1.89</td>
</tr>
<tr>
<td>T4MN300</td>
<td>60~300</td>
<td>2</td>
<td>19.0</td>
<td>45.2 41.5 17.8</td>
<td>716</td>
<td>1.89</td>
</tr>
</tbody>
</table>

■ Accuracy might become inaccurate in case that the tools are not in use for a long time or are not use properly. Contact your distributor periodically to keep the accuracy of the tools.

■ Contact your distributor for reissuing the calibration certificate.

■ Carry out overhaul in case the wrench doesn’t sound click or shock.

Serve Notice:
- Repeated Accuracy: ± 3%
- Load direction: to right (clockwise) direction only.
- Calibration Certificate W/H Traceability 1
- Instruction Manual 1
- Plastic Case 1

■ Repair・Maintenance

■ Accuracy might become inaccurate in case that the tools are not in use for a long time or are not use properly. Contact your distributor periodically to keep the accuracy of the tools.

■ Contact your distributor for reissuing the calibration certificate.

■ Carry out overhaul in case the wrench doesn’t sound click or shock.
### TORQUE WRENCH, PRESET TYPE (DIGITAL READING WITH SOCKET HOLD)

TORQUE WRENCH, PRESET TYPE (DIGITAL READING WITH SOCKET HOLD) is for tightening bolts/nuts. Prevents unintended alteration of setting torque owing to independent handle and setting knob. Prevents mistake in torque setting as torque value can be indicated in self-explanatory digits. (system is mechanical, not electronic)

When reaching the preset torque, the wrench makes a click sound as well as light retroaction. Socket Hold Mechanism is installed. Hold socket tightly but easy to exchange.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity Torque Range (N・m)</th>
<th>Increments</th>
<th>Unit</th>
<th>Sq. Drive A (mm)</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
<th>Case Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min. ~ Max.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>T3MN20H</td>
<td>4 ~ 20</td>
<td>0.2</td>
<td>N・m</td>
<td>9.5</td>
<td>24.0 21.4 10.4 253</td>
<td>0.30</td>
<td>355 × 97 × 75</td>
</tr>
<tr>
<td>T3MN50H</td>
<td>10 ~ 50</td>
<td>0.5</td>
<td>N・m</td>
<td>12.7</td>
<td>36.0 30.0 14.0 303</td>
<td>0.52</td>
<td>355 × 97 × 75</td>
</tr>
<tr>
<td>T4MN100H</td>
<td>20 ~ 100</td>
<td>1</td>
<td>N・m</td>
<td>19.0</td>
<td>45.2 34.0 17.8 526</td>
<td>1.33</td>
<td>765 × 97 × 75</td>
</tr>
<tr>
<td>T6MN300H</td>
<td>60 ~ 300</td>
<td>2</td>
<td>N・m</td>
<td>29.0</td>
<td>52.0 40.5 17.8 716</td>
<td>1.85</td>
<td>765 × 97 × 75</td>
</tr>
</tbody>
</table>

Socket Hold Mechanism
- Make sure to press the push button when install/remove the socket.

### Expire Date of Calibration Certificate

1. Not in Use
   - 2 year from the date on the Calibration Certificate

2. Start to use less than 2 year from the date on the Calibration Certificate.
   - 1 year from the first day of use or up to 100,000 tightening.

### Repair・Maintenance

- Accuracy might become inaccurate in case that the tools are not in use for a long time or are not use properly. Contact your distributor periodically to keep the accuracy of the tools.
- Contact your distributor for reissuing the calibration certificate.
- Carry out overhaul in case the wrench doesn’t sound click or shock.

### CAUTION
- If the ball groove of sq. drive of socket or accessory is different from standard, holding mechanism often does not work.
- Strong shock often causes malfunction of holding mechanism.
TORQUE WRENCH, PRESET TYPE

TORQUE WRENCH, PRESET TYPE is for tightening bolts/nuts. When reaching the preset torque, the wrench makes a click sound as well as light retroaction.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity Torque Range (N・m)</th>
<th>Increments</th>
<th>Unit</th>
<th>Handle Type</th>
<th>Sq. Drive A (mm)</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
<th>Case Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>T6L420N</td>
<td>60 ~ 420 N・m</td>
<td>2</td>
<td>N・m</td>
<td>I</td>
<td>19.0</td>
<td>54 42.7 21.0 950</td>
<td>3.3</td>
<td>1,050 × 105 × 80</td>
</tr>
<tr>
<td>T6L700N</td>
<td>100 ~ 700 N・m</td>
<td>5</td>
<td>N・m</td>
<td>II</td>
<td>19.0</td>
<td>68 49.5 27.5 1314</td>
<td>6.2</td>
<td>1,200 × 180 × 98</td>
</tr>
<tr>
<td>T8L850N</td>
<td>100 ~ 850 N・m</td>
<td>5</td>
<td>N・m</td>
<td>II</td>
<td>25.4</td>
<td>76 58.0 29.0 1388</td>
<td>8.5</td>
<td>1,200 × 180 × 98</td>
</tr>
<tr>
<td>T8L1000N</td>
<td>100 ~ 1,000 N・m</td>
<td>5</td>
<td>N・m</td>
<td>II</td>
<td>25.4</td>
<td>76 58.0 29.0 1538</td>
<td>8.8</td>
<td>1,200 × 180 × 98</td>
</tr>
<tr>
<td>T8L1400N</td>
<td>200 ~ 1,400 N・m</td>
<td>10</td>
<td>N・m</td>
<td>II</td>
<td>25.4</td>
<td>87 61.0 32.5 1844</td>
<td>14.0</td>
<td>1,200 × 180 × 98</td>
</tr>
<tr>
<td>T8L2100N</td>
<td>700 ~ 2,100 N・m</td>
<td>10</td>
<td>N・m</td>
<td>II</td>
<td>25.4</td>
<td>87 61.0 32.5 2064</td>
<td>19.5</td>
<td>1,770 × 176 × 90</td>
</tr>
</tbody>
</table>

*TLB850N ~ TLB2100N is plunger type.

- Repeated Accuracy: ± 3%
- Load direction: to right (clockwise) direction only.

Accessory (1 pc each)

<table>
<thead>
<tr>
<th>Accessory</th>
<th>T6L420N</th>
<th>T6L700N</th>
<th>T8L850N</th>
<th>T8L1000N</th>
<th>T8L1400N</th>
<th>T8L2100N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension Handle</td>
<td>-</td>
<td>8mm</td>
<td>8mm</td>
<td>10mm</td>
<td>10mm</td>
<td>-</td>
</tr>
<tr>
<td>Box Wrench</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Calibration Certificate W/H Traceability</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Instruction Manual</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Metal Case</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>-</td>
</tr>
</tbody>
</table>

*TLB2100N is Carton box case

**Expire Date of Calibration Certificate**

1. Not in Use
   2 year from the date on the Calibration Certificate

2. Start to use less than 2 year from the date on the Calibration Certificate.
   1 year from the first day of use or up to 100,000 tightening.

**Repair • Maintenance**

- Accuracy might become inaccurate in case that the tools are not in use for a long time or are not use properly. Contact your distributor periodically to keep the accuracy of the tools.
- Contact your distributor for reissuing the calibration certificate.
- Carry out overhaul in case the wrench doesn’t sound click or shock.
TORQUE WRENCH, PRESET TYPE (DIGITAL READING FOR BOTH OF R&L HAND THREADS)

TORQUE WRENCH, PRESET TYPE (DIGITAL READING FOR BOTH OF R&L HAND THREADS) is for tightening bolts/nuts. When reaching preset torque, the wrench makes a click sound as well as a light retroaction. Need to flip the wrench when used for left handed screw.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity Torque Range (N・m)</th>
<th>Increments</th>
<th>Unit</th>
<th>Sq. Drive A (mm)</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
<th>Case Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min. ~ Max.</td>
<td></td>
<td></td>
<td></td>
<td>B   H   T   L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T4MN100R</td>
<td>20 ~ 100</td>
<td>1</td>
<td>N・m</td>
<td>12.7</td>
<td>36.0 49.2 14.0 387</td>
<td>0.83</td>
<td>480 × 78 × 49</td>
</tr>
<tr>
<td>T4MN140R</td>
<td>30 ~ 140</td>
<td>1</td>
<td>N・m</td>
<td>12.7</td>
<td>36.0 49.2 14.0 450</td>
<td>0.88</td>
<td>480 × 78 × 49</td>
</tr>
<tr>
<td>T4MN200R</td>
<td>40 ~ 200</td>
<td>2</td>
<td>N・m</td>
<td>12.7</td>
<td>45.2 52.7 20.5 526</td>
<td>1.42</td>
<td>625 × 78 × 59</td>
</tr>
<tr>
<td>T6MN300R</td>
<td>60 ~ 300</td>
<td>2</td>
<td>N・m</td>
<td>19.0</td>
<td>45.2 65.2 20.5 716</td>
<td>1.96</td>
<td>795 × 105 × 80</td>
</tr>
</tbody>
</table>

*Repeated Accuracy: ± 3%

Accessory
- Calibration Certificate W/H Traceability 1
- Instruction Manual 1
- Plastic Case 1

*Blow case for T4MN100R, T4MN140R and T4MN200R. Metal case for T6MN300R.

Expiry Date of Calibration Certificate

1. Not in Use
   1 year from the date on the Calibration Certificate

2. Start to use less than 1 year from the date on the Calibration Certificate.
   1 year from the first day of use or up to 100,000 tightening.

Repair・Maintenance

- Accuracy might become inaccurate in case that the tools are not in use for a long time or are not use properly. Contact your distributor periodically to keep the accuracy of the tools.

- Contact your distributor for details of handling the torque wrench.
TORQUE WRENCH, PRESET TYPE (FOR BOTH OF R&L HAND THREADS)

TORQUE WRENCH, PRESET TYPE (FOR BOTH OF R&L HAND THREADS) is for tightening bolts/nuts. When reaching preset torque, the wrench makes a click sound as well as a light retroaction. Need to flip the wrench when used for left handed screw.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity Torque Range (N・m)</th>
<th>Increments</th>
<th>Unit</th>
<th>Handle Type</th>
<th>Sq. Drive A (mm)</th>
<th>Dimensions(mm)</th>
<th>Weight (kg)</th>
<th>Case Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>T6L420NR</td>
<td>60 ~ 420</td>
<td>2</td>
<td>N・m</td>
<td>I</td>
<td>19.0</td>
<td>54</td>
<td>69.2</td>
<td>21.0</td>
</tr>
<tr>
<td>T6L700NR</td>
<td>100 ~ 700</td>
<td>5</td>
<td>N・m</td>
<td>II</td>
<td>19.0</td>
<td>68</td>
<td>69.5</td>
<td>27.5</td>
</tr>
<tr>
<td>T6L850NR</td>
<td>100 ~ 850</td>
<td>5</td>
<td>N・m</td>
<td>II</td>
<td>19.0</td>
<td>76</td>
<td>75.0</td>
<td>29.0</td>
</tr>
<tr>
<td>T8L850NR</td>
<td>100 ~ 850</td>
<td>5</td>
<td>N・m</td>
<td>II</td>
<td>25.4</td>
<td>76</td>
<td>85.0</td>
<td>29.0</td>
</tr>
</tbody>
</table>

- Repeated Accuracy: ± 3%

■ Expiry Date of Calibration Certificate
1. Not in Use
   1 year from the date on the Calibration Certificate
2. Start to use less than 1 year from the date on the Calibration Certificate.
   1 year from the first day of use or up to 100,000 tightening.

■ Repair・Maintenance
- Accuracy might become inaccurate in case that the tools are not in use for a long time or are not use properly. Contact your distributor periodically to keep the accuracy of the tools.
- Carry out overhaul in case the wrench doesn’t sound click or shock.
TORQUE WRENCH

TORQUE WRENCH, PRESET TYPE (DIGITAL READING) is for tightening bolts/nuts. Visible indicator helps to reduce wrong torque setting. When reaching preset torque, the wrench makes a click sound as well as a light retroaction. Used best in assembly line where required constant torque value.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity Torque Range (N・m)</th>
<th>Increments</th>
<th>Unit</th>
<th>Sq. Drive A (mm)</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
<th>Case Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min. ~ Max.</td>
<td></td>
<td></td>
<td></td>
<td>B</td>
<td>H</td>
<td>T</td>
</tr>
<tr>
<td>T2M6</td>
<td>1 ~ 6</td>
<td>0.1</td>
<td>N・m</td>
<td>6.35</td>
<td>24.0</td>
<td>18.3</td>
<td>10.4</td>
</tr>
<tr>
<td>T2M13</td>
<td>3 ~ 13</td>
<td>0.2</td>
<td>N・m</td>
<td>6.35</td>
<td>24.0</td>
<td>18.3</td>
<td>10.4</td>
</tr>
<tr>
<td>T3M20</td>
<td>4 ~ 20</td>
<td>0.2</td>
<td>N・m</td>
<td>9.5</td>
<td>24.0</td>
<td>21.6</td>
<td>10.4</td>
</tr>
<tr>
<td>T3M50</td>
<td>10 ~ 50</td>
<td>0.5</td>
<td>N・m</td>
<td>9.5</td>
<td>36.0</td>
<td>26.4</td>
<td>14.0</td>
</tr>
<tr>
<td>T4M50</td>
<td>10 ~ 50</td>
<td>0.5</td>
<td>N・m</td>
<td>12.7</td>
<td>36.0</td>
<td>30.4</td>
<td>14.0</td>
</tr>
<tr>
<td>T3M100</td>
<td>20 ~ 100</td>
<td>1</td>
<td>N・m</td>
<td>9.5</td>
<td>36.0</td>
<td>26.4</td>
<td>14.0</td>
</tr>
<tr>
<td>T4M100</td>
<td>20 ~ 100</td>
<td>1</td>
<td>N・m</td>
<td>12.7</td>
<td>36.0</td>
<td>30.4</td>
<td>14.0</td>
</tr>
<tr>
<td>T4M140</td>
<td>30 ~ 140</td>
<td>1</td>
<td>N・m</td>
<td>12.7</td>
<td>36.0</td>
<td>30.4</td>
<td>14.0</td>
</tr>
<tr>
<td>T4M200</td>
<td>40 ~ 200</td>
<td>2</td>
<td>N・m</td>
<td>12.7</td>
<td>45.2</td>
<td>34.0</td>
<td>17.8</td>
</tr>
<tr>
<td>T6M300</td>
<td>60 ~ 300</td>
<td>2</td>
<td>N・m</td>
<td>19</td>
<td>45.2</td>
<td>40.5</td>
<td>17.8</td>
</tr>
</tbody>
</table>

Accessory

- Tool for torque setting
- Calibration Certificate W/H Traceability
- Instruction Manual
- Plastic Case

Expiry Date of Calibration Certificate
1. Not in Use
   2 year from the date on the Calibration Certificate
2. Start to use less than 2 year from the date on the Calibration Certificate.
   1 year from the first day of use or up to 100,000 tightening.

Repair・Maintenance

- Accuracy might become inaccurate in case that the tools are not in use for a long time or are not use properly. Contact your distributor periodically to keep the accuracy of the tools.
- Carry out overhaul in case the wrench doesn’t sound click or shock.

CAUTION
- If the ball groove of sq.drive of socket of accessory is different from standard, holding mechanism often does not work.
- Strong shock often causes malfunction of holding mechanism.
TORQUE WRENCH, SINGLE PURPOSE TYPE

TORQUE WRENCH, PRESET TYPE (TORQUE WRENCH, SINGLE PURPOSE TYPE) is for tightening bolts/nuts. This torque wrench is setted in requested torque value. When reaching preset torque, the wrench makes a click sound as well as a light retroaction.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity Torque Range (N・m) Min. ~ Max.</th>
<th>Unit</th>
<th>Sq. Drive A (mm)</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
<th>Case Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>T2MP6</td>
<td>1 ~ 6</td>
<td>N ・m</td>
<td>6.35</td>
<td>24.0</td>
<td>18.3</td>
<td>10.4</td>
</tr>
<tr>
<td>T2MP13</td>
<td>3 ~ 13</td>
<td>N ・m</td>
<td>6.35</td>
<td>24.0</td>
<td>18.3</td>
<td>10.4</td>
</tr>
<tr>
<td>T3MP20</td>
<td>4 ~ 20</td>
<td>N ・m</td>
<td>9.5</td>
<td>24.0</td>
<td>21.6</td>
<td>10.4</td>
</tr>
<tr>
<td>T3MP50</td>
<td>10 ~ 50</td>
<td>N ・m</td>
<td>9.5</td>
<td>36.0</td>
<td>26.4</td>
<td>14.0</td>
</tr>
<tr>
<td>T4MP50</td>
<td>10 ~ 50</td>
<td>N ・m</td>
<td>12.7</td>
<td>36.0</td>
<td>30.4</td>
<td>14.0</td>
</tr>
<tr>
<td>T3MP100</td>
<td>20 ~ 100</td>
<td>N ・m</td>
<td>9.5</td>
<td>36.0</td>
<td>26.4</td>
<td>14.0</td>
</tr>
<tr>
<td>T4MP100</td>
<td>20 ~ 100</td>
<td>N ・m</td>
<td>12.7</td>
<td>36.0</td>
<td>30.4</td>
<td>14.0</td>
</tr>
<tr>
<td>T4MP140</td>
<td>30 ~ 140</td>
<td>N ・m</td>
<td>12.7</td>
<td>36.0</td>
<td>30.4</td>
<td>14.0</td>
</tr>
<tr>
<td>T4MP200</td>
<td>40 ~ 200</td>
<td>N ・m</td>
<td>12.7</td>
<td>45.2</td>
<td>34.0</td>
<td>17.8</td>
</tr>
<tr>
<td>T4MP300</td>
<td>60 ~ 300</td>
<td>N ・m</td>
<td>12.7</td>
<td>45.2</td>
<td>34.0</td>
<td>17.8</td>
</tr>
<tr>
<td>T6MP300</td>
<td>60 ~ 300</td>
<td>N ・m</td>
<td>19.0</td>
<td>45.2</td>
<td>40.5</td>
<td>17.8</td>
</tr>
</tbody>
</table>

■ How to Order Toque Setting

Please provide serial number and setting torque when placing your order.

serial number T4MP100 in setting torque 100N・m

CAUTION 1. Be sure to provide torque unit.
2. Note that 3 business days is required to set the torque.
3. Calibration certificate is provided when torque setting is conducted by TONE.

■ Expiry Date of Calibration Certificate

1. Not in Use
   1 year from the date on the Calibration Certificate
2. Start to use less than 1 year from the date on the Calibration Certificate.
   1 year from the first day of use or up to 100,000 tightening.

■ Repair・Maintenance

Be sure to provide the torque value when you require repair and maintenance service, as well as reissuing calibration certificate.
Accuracy might become inaccurate in case that the tools are not in use for a long time or are not use properly.
Contact your distributor periodically to keep the accuracy of the tools.
Carry out overhaul in case the wrench doesn’t sound click or shock.
TORQUE WRENCH, PRESET OPEN END SPANNER

TORQUE WRENCH, PRESET OPEN END SPANNER is specialized for tightening flare joints/nut on air conditioner units. The torque value is set by TONE for flare joints/nuts. (Cannot be changed.) When reaching preset torque, the wrench makes a clicking sound as well as a light retroaction.

Used for new refrigerant device

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity Torque (N·m)</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSP16-17</td>
<td>16</td>
<td>D 36.5 S 17 T 7.6 L 220</td>
<td>0.37</td>
</tr>
<tr>
<td>TSP38-22</td>
<td>38</td>
<td></td>
<td>0.41</td>
</tr>
<tr>
<td>TSP55-26</td>
<td>55</td>
<td></td>
<td>0.54</td>
</tr>
<tr>
<td>TSP75-29</td>
<td>75</td>
<td></td>
<td>0.57</td>
</tr>
</tbody>
</table>

- Repeated Accuracy ± 4%

Accessory
- Calibration Certificate W/H Traceability 1
- Instruction Manual 1

◆ Standard Tightening Torque Value for flare nut

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Flare Size</th>
<th>Standard Tightening Torque Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSP16-17</td>
<td>6.35mm (1/4&quot;)</td>
<td>17mm</td>
<td>16N·m</td>
</tr>
<tr>
<td>TSP38-22</td>
<td>9.5mm (3/8&quot;)</td>
<td>22mm</td>
<td>38N·m</td>
</tr>
<tr>
<td>TSP55-26</td>
<td>12.7mm (1/2&quot;)</td>
<td>26mm</td>
<td>55N·m</td>
</tr>
<tr>
<td>TSP75-29</td>
<td>15.9mm (5/8&quot;)</td>
<td>29mm</td>
<td>75N·m</td>
</tr>
</tbody>
</table>

*Changed according to New Refrigerent

Expire Date of Calibration Certificate
1. Not in Use
   1 year from the date on the Calibration Certificate
2. Start to use less than 1 year from the date on the Calibration Certificate.
   1 year from the first day of use or up to 100,000 tightening.

Repair・Maintenance
- Contact your distributor periodically to keep the accuracy of the tools.
TORQUE WRENCH, ADJUSTABLE WRENCH TYPE (TORQUE WRENCH, PRESET OPEN END SPANNER)

TON has specially developed the adjustable wrenches which maintains the torque accuracy regardless of bolt sizes.

The head of adjustable wrench adopt backrush-less mechanism to fix the bolt/nut firmly. Visible Indicator helps to reduce wrong torque setting.

Multipule uses in various field, such as for plumbing of air conditioner, automobile and motor-bike, communicaion devices or anchor bolt etc.

Regardless of measurement system, these wrenches are adjustable to any type of bolts/nuts.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity Torque Range (N・m)</th>
<th>Increments Unit</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
<th>Case Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMWM15</td>
<td>3 ～ 15</td>
<td>N・m</td>
<td>D: 49.3 S: 10 ～ 27 T: 9.9 L: 289</td>
<td>0.32</td>
<td>355 × 117 × 70</td>
</tr>
<tr>
<td>TMWM25</td>
<td>5 ～ 25</td>
<td>N・m</td>
<td>D: 66.8 S: 17 ～ 38 T: 13.3 L: 346</td>
<td>0.46</td>
<td>355 × 117 × 70</td>
</tr>
<tr>
<td>TMWM100</td>
<td>20 ～ 100</td>
<td>N・m</td>
<td>D: 83.3 S: 27 ～ 48 T: 16.0 L: 438</td>
<td>0.74</td>
<td>545 × 132 × 70</td>
</tr>
<tr>
<td>TMWM150</td>
<td>50 ～ 150</td>
<td>N・m</td>
<td>D: 100.0 S: 17 ～ 38 T: 13.3 L: 438</td>
<td>0.82</td>
<td>545 × 132 × 70</td>
</tr>
</tbody>
</table>

* Model having suffix “W” are wider jaws-opening type.

* Repeated Accuracy ± 4% ± 7% for wider jaws-opening type.

* Need to flip the wrench when using for left handed screw. (Refer to instruction manual)

| Calibration Certificate W/H Traceability | 1 |
| Instruction Manual | 1 |
| Plastic Case | 1 |

● Standard Tightening Torque Value for flare nut

<table>
<thead>
<tr>
<th>Model Size</th>
<th>Flare Size</th>
<th>Standard Tightening Torque Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.35mm (1/4&quot;)</td>
<td>17mm</td>
<td>16N・m</td>
</tr>
<tr>
<td>9.5mm (3/8&quot;)</td>
<td>22mm</td>
<td>38N・m</td>
</tr>
<tr>
<td>12.7mm (1/2&quot;)</td>
<td>26mm</td>
<td>55N・m</td>
</tr>
<tr>
<td>15.9mm (5/8&quot;)</td>
<td>29mm</td>
<td>75N・m</td>
</tr>
<tr>
<td>19.0mm (3/4&quot;)</td>
<td>36mm</td>
<td>110N・m</td>
</tr>
</tbody>
</table>

* Changed according to New Refrigerant

** Expired Date of Calibration Certificate

1. Not in Use
   2 year from the date on the Calibration Certificate

2. Start to use less than 2 year from the date on the Calibration Certificate.
   1 year from the first day of use or up to 100,000 tightening.

** Repair・Maintenance

Accuracy might become inaccurate in case that the tools are not in use for a long time or are not used properly.

Contact your distributor periodically to keep the accuracy of the tools.

■ Carry out overhaul in case the wrench doesn’t sound click or shock.
TORQUE WRENCH CHECKER

Check at anytime the actual torque value before using torque wrench in the field. Visible LED Display prevents mistake in reading the torque value. 3 measurement mode are installed (Peak mode/Track mode/Peak hold mode) Available for various size and head of the wrench by using Adaptors.

<table>
<thead>
<tr>
<th>Model</th>
<th>Torque Range (N.m)</th>
<th>Increments</th>
<th>Sq. Drive (mm)</th>
<th>Dimensions (mm)</th>
<th>Measurement</th>
<th>Accuracy</th>
<th>Weight (Main Body Only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TTC-60</td>
<td>2 ~ 60</td>
<td>0.00 ~</td>
<td>0.01</td>
<td>12.7 x 30.0</td>
<td>CW</td>
<td>± 1% + 1 digit</td>
<td>2.2</td>
</tr>
<tr>
<td>TTC-500</td>
<td>20 ~ 500</td>
<td>0.0 ~</td>
<td>0.1</td>
<td>25.4 x 48.0</td>
<td>CW</td>
<td>± 1% + 1 digit</td>
<td>2.6</td>
</tr>
<tr>
<td>TTC-1000</td>
<td>50 ~ 1000</td>
<td>0.0 ~</td>
<td>0.1</td>
<td>25.4 x 48.0</td>
<td>CW</td>
<td>± 1% + 1 digit</td>
<td>2.8</td>
</tr>
</tbody>
</table>

- Voltage: 100V ~ 240V
- Operating temperature: 5°C ~ 40°C
- Storage temperature: -20°C ~ 70°C
- Measurement Mode: Peak mode/Track mode/Peak hold mode

Accessory:
- Conversion Adaptor (1pc each)
  - TTC-60: φ6.35mm x 0.5, φ9.5mm x 0.5
  - TTC-500, TTC-1000: φ9.5mm x 0.25, φ12.7mm x 0.25, φ19.0mm x 0.25
- Convex Hexagon Adaptor (1pc each)
  - TTC-60: φ19mm x 0.27, φ27mm x 0.27
  - TTC-500, TTC-1000: φ27mm x 0.25, φ38mm x 0.25
- AC adapter 100V ~ 240V/50-60Hz
- Fixing Bolt: M10 x 40 Cap Bolt (with Washer, Nut) 4
- Instruction Manual  ○ Calibration Certificate W/H Traceability

Repair・Maintenance

Accuracy might become inaccurate in case that the tools are not in use for a long time or are not use properly. Contact your distributor periodically to keep the accuracy of the tools.

Carry out overhaul in case the wrench doesn’t sound click or shock.

LED Display
- Visible readout with LED Display.

High Accuracy
- Accuracy: ±1% + 1 digit

Easy Operation
- Easy to operate by power switch and three buttons.

3 modes are available for various torque management.

Track Mode
Displayed torque value changes in accordance with the applying torque. The display indicates "0" when stopped applying torque.

Peak Mode
The tool resets automatically as the seconds settled in advance. (Can be chosen from 1, 2, 4 and 8 sec.)

Peak Hold
Displayed torque value remains until pushed the button.
User-Friendly TORQUE WRENCH TESTING MACHINE available from TONE. Totally simple operations based on JIS B 4652.
*JIS B 4652: Hand torque tools -Requirements and test methods

<table>
<thead>
<tr>
<th>Model</th>
<th>CH</th>
<th>Torque Range Min. ~ Max. (N・m)</th>
<th>Increments (N・m)</th>
<th>Sq. Drive (mm)</th>
<th>Measurement</th>
<th>Accuracy (%)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATT2100</td>
<td>1</td>
<td>1 ~ 50</td>
<td>0.001</td>
<td>12.7</td>
<td>CW</td>
<td>±1</td>
<td>750</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>20 ~ 500</td>
<td>0.01</td>
<td>25.4</td>
<td>CWW</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>200 ~ 2100</td>
<td>0.1</td>
<td>38.1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Voltage**: three-phase 200V, 30A
- **Operating temperature**: 18℃ ~ 28℃
- **Operating humidity**: 50% RH ± 20%

**Accessory**
- Table
- Reaction bar for offset
- Hex socket head cap bolt M12 × 35 (8pcs)
- Computer with connection cable (software is installed)
- Monitor (liquid crystal), mouse, key board
- Cable 9pin (4m)
- Square Drive convert adaptot for measurement channel (each 1 unit)
  - CH1: 9.53 mm×12.7 mm, 9.53 mm×12.7 mm
  - CH2: 9.53 mm×25.4 mm, 12.7 mm×25.4 mm, 19.05 mm×25.4 mm
  - CH3: 19.05 mm×38.1 mm, 25.4 mm×38.1 mm
- Instruction Manual / Calibration Certificate W/H Traceability
  *Printer is not mounted

**Automatic measurement & Judgement function mounting**
- Registration possible (Model, accuracy, loaded location)
- Automatic Judgement according to the model
- Measurement data is conservable
- Calibration Certificate issuable (need a printer)

**High Accuracy and Durability**
- Measurement points are configurable maximam 8 points
- Measurement is enable max. 50 times in one measurement point.
  *Calibration Certificate shows up to 10 times in one measurement point.

**High Accuracy : Wide Range**
- Accuracy : ±1%
- Torque measurement range: 1~2100 N・m

**Customization**
- The machine can be customized the spec. as requested.

**Computer with connection cable**