

# ***GENERAL CATALOG***

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**We keep providing high performance and  
high quality products trusted by our customer.**

**Calibration certificates, Inspection certificates, Traceability system chart**

All torque measuring instruments come with a calibration certificate, inspection certificate, and traceability system chart free of charge.

### **Calibration service**

Periodic calibration inspections are necessary to maintain the accuracy of torque measuring instruments. Since we are a specialized manufacturer that designs and manufactures torque measuring instruments as well as provides after-sales service, high calibration accuracy is guaranteed.

### **After service**

If the torque measuring instrument malfunctioned, we will repair it. For discontinued products, we will repair them if the date of discontinuation is within 5 years. However, there are cases in which repair may not be possible due to the production status of parts at our suppliers. Please understand this in advance. We also offer periodic inspections of our measuring instruments. Please contact the dealer where you purchased your instrument.

## Torque testers are available for a variety of tightening tools.

For managing electric screwdriver



For managing click type torque driver



For managing click type torque wrench



For managing impact tool and torque wrench



# Index (For managing the tightening tools)

| Electric screwdriver | Torque driver | Torque wrench | Impact tool | 0.01           | 0.1 | 1 | 10 | 100 | 1000 |
|----------------------|---------------|---------------|-------------|----------------|-----|---|----|-----|------|
|                      |               |               |             |                |     |   |    |     |      |
| ○                    | ○             | ○             |             | 0.002~25 N·m   |     |   |    |     |      |
| ○                    | ○             |               |             | 0.002~8 N·m    |     |   |    |     |      |
| ○                    |               |               |             | 0.01~10 N·m    |     |   |    |     |      |
| ○                    | ○             |               |             | 0.002~8 N·m    |     |   |    |     |      |
| ○                    |               |               | ○           | 0.3~25 N·m     |     |   |    |     |      |
|                      |               | ○             |             | 7~200 N·m      |     |   |    |     |      |
|                      | ○             | ○             |             | 0.002~1500 N·m |     |   |    |     |      |
| ○                    | ○             |               |             | 0.002~20 N·m   |     |   |    |     |      |
|                      |               | ○             | ○           | 0.3~200 N·m    |     |   |    |     |      |

|                                                                                     |                  |      | Power source |                  |                  | COM type |        |
|-------------------------------------------------------------------------------------|------------------|------|--------------|------------------|------------------|----------|--------|
|                                                                                     | Model            | Page | AC adapter   | Internal battery | Dry cell battery | USB      | RS232C |
|    | WDI series       | 5    |              | ○                |                  | ○        | ○      |
|    | DI-9M series     | 7    |              | ○                |                  | ○        | △      |
|    | CD series        | 9    |              | ○                |                  | ○        | △      |
|    | NDI series       | 11   | ○            |                  | ○                | ○        | ○      |
|    | DI-4B-25         | 13   |              | ○                |                  | ○        | △      |
|   | DWT-200          | 15   |              |                  | ○                |          |        |
|  | WDIS-IP series   | 17   | ○            |                  | ○                | ○        | ○      |
|                                                                                     | WDISR-IP series  |      |              | ○                |                  |          |        |
|  | WDIS-IPS series  | 19   | ○            |                  | ○                | ○        | ○      |
|                                                                                     | WDISR-IPS series |      |              | ○                |                  |          |        |
|  | DI-1M-IP series  | 21   |              | ○                |                  | ○        | △      |

# For managing the tightening tools (integrated type)

## Torque Tester *WDI series*



Electric screwdriver

Torque driver

Torque wrench



**This series are available for various tightening tools.**

WDI-10HR / 100HR allows selection of measurement joints from SJ joint or OW joint.

### Features

- Easy-to-read color LCD display
- Various communication commands are available
- High resolution mode (only for WDI-10HR/100HR)
- Equipped with RS232C and USB port

### Ordering number

Model

Measurement  
joint

Pack  
age

Destina  
tion

| Model             | WDI-10HR                                | WDI-100HR       | WDI-250        |
|-------------------|-----------------------------------------|-----------------|----------------|
| Measurement Range |                                         |                 |                |
| Normal            | 0.020~1.000 N·m                         | 0.20~10.00 N·m  | 0.20~25.00 N·m |
| High resolution   | 2.0~999.9 mN·m                          | 0.020~9.999 N·m | —              |
| Accuracy          | ±0.5% (If 499 digit or less, ±3 digit.) |                 |                |
| Power             | Internal battery (Ni-MH)                |                 |                |
| Dimensions        | 160(W) × 145(D) × 58(H)                 |                 |                |
| Accessories       | AC adapter <b>6A-061WP12</b>            |                 |                |

|                   |                                 |                                |
|-------------------|---------------------------------|--------------------------------|
| If order OW joint | Measurement joint <b>OW-025</b> | Measurement joint <b>OW-20</b> |
|                   | Measurement joint <b>OW-10</b>  | Measurement joint <b>OW-60</b> |
|                   | Cube joint <b>SC-1</b>          | Cube joint <b>SC-2</b>         |

\* Each measurement joint comes with 2 spare screws.

|                   |                                   |                                   |                                   |
|-------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| If order SJ joint | Measurement joint <b>SJ-10K</b>   | Measurement joint <b>SJ-50</b>    | Measurement joint <b>SJ-200</b>   |
|                   | HEX attachment <b>HS6-M3</b> (X3) | HEX attachment <b>HS6-M3</b> (X3) | HEX attachment <b>HS6-M4</b> (X3) |
|                   | Joint cap <b>W-CAP-13</b>         | HEX attachment <b>HS6-M4</b> (X3) | Joint cap <b>W-CAP-13</b>         |
|                   | Grease <b>JT-GREASE</b>           | Joint cap <b>W-CAP-13</b> (X2)    | Grease <b>JT-GREASE</b>           |
|                   | Bit(4-pack) <b>H6BIT-SET</b>      | Grease <b>JT-GREASE</b>           | Socket bit <b>H17SCKTBIT-A20</b>  |
|                   | Cube joint <b>SC-1</b>            | Bit(4-pack) <b>H6BIT-SET</b>      | Bit(4-pack) <b>H6BIT-SET</b>      |
|                   |                                   | Cube joint <b>SC-2</b>            | Cube joint <b>SC-3</b>            |

## Product specification detail

### Measurement joint

| Code     | OW                                                                                 | SJ                                                                                  |
|----------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|          | OW joint                                                                           | SJ joint                                                                            |
| Contents |  |  |

### Package

| Code     | A                                                                                 | C                                                                                   |
|----------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|          | Attache case                                                                      | Cardboard case                                                                      |
| Contents |  |  |

### Destination

| Code                        | Jx                                    | Ox                                                                                              |
|-----------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|
| Contents & measurement unit | (Used in Japan only)<br>SI unit (N·m) | (Used in outside of Japan)<br>SI unit (N·m)<br>Weight unit (kgf·cm)<br>Yard-pound unit (lbf·in) |

\* x specifies the AC adapter plug.

| Code      | 1      | 2              | 3      | 4      | 5      |
|-----------|--------|----------------|--------|--------|--------|
| Plug type | A type | A type (China) | C type | F type | G type |

### Accessories (OW joint type)



### Accessories (SJ joint type)



# Torque Tester *DI-9M series*

Electric screwdriver

Torque driver



Come with OW joint that do not require rewinding

DI-9M-08 / 8 is a torque tester which is ideal for daily inspections of electric drivers and torque drivers.

## Features

- Equipped with pass/fail function
- Displays average, maximum and minimum value
- Selectable measurement units
- Memory size is 800 data
- Equipped with USB port

## Ordering number

| Model | Destination |
|-------|-------------|
|-------|-------------|

| Model             | DI-9M-08                                               | DI-9M-8                        |
|-------------------|--------------------------------------------------------|--------------------------------|
| Measurement Range | 2.0~800.0 mN·m                                         | 0.020~8.000 N·m                |
| Accuracy          | ±0.5% (If 499 digit or less, ±3 digit.)                |                                |
| Power             | Internal battery (Ni-MH)                               |                                |
| Dimensions        | 160(W) × 125(D) × 55(H)                                |                                |
| Accessories       | Measurement joint <b>OW-025</b>                        | Measurement joint <b>OW-20</b> |
|                   | Measurement joint <b>OW-10</b>                         | Measurement joint <b>OW-60</b> |
|                   | Cube joint <b>SC-2</b><br>AC adapter <b>6A-061WP12</b> |                                |

\* Each measurement joint comes with 2 spare screws.

## Product specification detail

### Destination

| Code                                 | Jx                                    | Ox                                                                                              |
|--------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|
| Contents<br>&<br>measurement<br>unit | (Used in Japan only)<br>SI unit (N·m) | (Used in outside of Japan)<br>SI unit (N·m)<br>Weight unit (kgf·cm)<br>Yard-pound unit (lbf·in) |

\* x specifies the AC adapter plug.

| Code         | 1      | 2                 | 3      | 4      | 5      |
|--------------|--------|-------------------|--------|--------|--------|
| Plug<br>type | A type | A type<br>(China) | C type | F type | G type |

### Accessories

#### OW joint



[p.40]

#### Cube joint



[p.41]

#### AC adapter



[p.39]

# Torque Tester *CD series*

Electric screwdriver



## Come with SJ joints for conventional measurement methods

CD-10M / 100M is a torque tester which is ideal for daily inspections of electric drivers.

### Features

- Equipped with pass/fail function
- Displays average, maximum and minimum value
- Selectable measurement units
- Memory size is 800 data
- Equipped with USB port

### Ordering number

Model

Destination

| Model             | CD-10M                                                                                                                                                      | CD-100M                                                                                                                                                                                                                                  |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measurement Range | 0.010~1.000 N·m                                                                                                                                             | 0.10~10.00 N·m                                                                                                                                                                                                                           |
| Accuracy          | ±0.5% (If 199 digit or less, ±2 digit.)                                                                                                                     |                                                                                                                                                                                                                                          |
| Power             | Internal battery (Ni-MH)                                                                                                                                    |                                                                                                                                                                                                                                          |
| Dimensions        | 160(W) × 125(D) × 55(H)                                                                                                                                     |                                                                                                                                                                                                                                          |
| Accessories       | Measurement joint <b>SJ-10</b><br>HEX attachment <b>HS5-M3</b> (X3)<br>Joint cap <b>W-CAP-13</b><br>Grease <b>JT-GREASE</b><br>Bit(4-pack) <b>H5BIT-SET</b> | Measurement joint <b>SJ-50</b><br>Measurement joint <b>SJ-10K</b><br>HEX attachment <b>HS6-M3</b> (X3)<br>HEX attachment <b>HS6-M4</b> (X3)<br>Joint cap <b>W-CAP-13</b> (X2)<br>Grease <b>JT-GREASE</b><br>Bit(4-pack) <b>H6BIT-SET</b> |
|                   | AC adapter <b>6A-061WP12</b>                                                                                                                                |                                                                                                                                                                                                                                          |

## Product specification detail

### Destination

| Code                                 | Jx                                    | Ox                                                                                              |
|--------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|
| Contents<br>&<br>measurement<br>unit | (Used in Japan only)<br>SI unit (N·m) | (Used in outside of Japan)<br>SI unit (N·m)<br>Weight unit (kgf·cm)<br>Yard-pound unit (lbf·in) |

\* x specifies the AC adapter plug.

| Code         | 1      | 2                 | 3      | 4      | 5      |
|--------------|--------|-------------------|--------|--------|--------|
| Plug<br>type | A type | A type<br>(China) | C type | F type | G type |

### Accessories

#### SJ joint



[p.40]

#### HEX attachment



[p.41]

#### Joint cap



\* Attached to SJ joint

[p.41]

#### Grease



[p.41]

#### Bit (4-pack)



[p.42]

#### AC adapter



[p.39]

# Torque Tester *NDI series*

Electric screwdriver

Torque driver



## Integrate a clock function ideal for traceability

NDI-80CN / 800CN is a torque tester which is ideal for daily inspections of electric drivers and torque drivers.

### Features

- Easy-to-read color LCD display
- Record “measurement date” and “measurement time” together
- Advanced external control functions  
(Published the communication I/F as well)
- Powered by AC adapter (or dry cell battery)
- Equipped with RS232C and USB port

### Ordering number

Model - OW - A - Destination

| Model             | NDI-80CN                                                                                    | NDI-800CN                                                                                  |
|-------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Measurement Range | 2.0~800.0 mN·m                                                                              | 0.020~8.000 N·m                                                                            |
| Accuracy          | ±0.5% (If 499 digit or less, ±3 digit.)                                                     |                                                                                            |
| Power             | AC adapter (or dry cell battery)                                                            |                                                                                            |
| Dimensions        | 160(W) × 145(D) × 58(H)                                                                     |                                                                                            |
| Accessories       | Measurement joint <b>OW-025</b><br>Measurement joint <b>OW-10</b><br>Cube joint <b>SC-1</b> | Measurement joint <b>OW-20</b><br>Measurement joint <b>OW-60</b><br>Cube joint <b>SC-2</b> |
|                   | USB CABLE <b>USB-ECOM510</b><br>AC adapter <b>6A-061WP12</b><br>Dry cell battery (4 pieces) |                                                                                            |

\* Each measurement joint comes with 2 spare screws.

## Product specification detail

### Destination

| Code                                 | Jx                                    | Ox                                                                                              |
|--------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|
| Contents<br>&<br>measurement<br>unit | (Used in Japan only)<br>SI unit (N·m) | (Used in outside of Japan)<br>SI unit (N·m)<br>Weight unit (kgf·cm)<br>Yard-pound unit (lbf·in) |

\* x specifies the AC adapter plug.

| Code         | 1      | 2                 | 3      | 4      | 5      |
|--------------|--------|-------------------|--------|--------|--------|
| Plug<br>type | A type | A type<br>(China) | C type | F type | G type |

### Accessories

#### OW joint



[p.40]

#### Cube joint



[p.41]

#### USB cable



[p.46]

#### AC adapter



[p.39]

#### Dry cell battery



# Torque Tester *DI-4B-25*

Electric impact tool

Oil pulse tool

Air impact tool

Electric screwdriver



## Manage the blow force and number that affect tightening

DI-4B-25 is a torque tester ideal for daily inspections of impact tool and electric driver.

### Features

- Easy-to-see high brightness LED
- Simultaneously measure the blow force and blow number
- Come with the soft and hard joint
- Equipped with USB port

### Ordering number

Model - Destination

|                    |                                                                                                                                                                                                                |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model              | DI-4B-25                                                                                                                                                                                                       |
| Measurement range  |                                                                                                                                                                                                                |
| Except impact tool | 0.3~25.00 N·m                                                                                                                                                                                                  |
| Impact tool        | 0.3~15.00 N·m (Note)                                                                                                                                                                                           |
| Accuracy           | ±0.5% (If 499 digit or less, ±3 digit.)                                                                                                                                                                        |
| Power              | Internal battery (Ni-MH)                                                                                                                                                                                       |
| Dimensions         | 150(W) × 220(D) × 74(H)                                                                                                                                                                                        |
| Accessories        | Measurement joint <b>HEX14-H250</b><br>Measurement joint <b>HEX14-S250</b><br>Grease <b>JT-GREASE</b><br>Socket bit <b>H17SCKTBIT-A20</b><br>HEX socket <b>H17SOCKET-SQ9.5</b><br>AC adapter <b>6A-061WP12</b> |

(Note) When using an impact tool, please make sure that the tightening torque value of used tool does not exceed the measurement range of the tester.

## Product specification detail

### Destination

| Code                                 | Jx                                    | Ox                                                                                              |
|--------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|
| Contents<br>&<br>measurement<br>unit | (Used in Japan only)<br>SI unit (N·m) | (Used in outside of Japan)<br>SI unit (N·m)<br>Weight unit (kgf·cm)<br>Yard-pound unit (lbf·in) |

\* x specifies the AC adapter plug.

| Code         | 1      | 2                 | 3      | 4      | 5      |
|--------------|--------|-------------------|--------|--------|--------|
| Plug<br>type | A type | A type<br>(China) | C type | F type | G type |

### Accessories

#### HEX14 joint



[p.40]

#### Grease



[p.41]

#### Socket bit



[p.43]

#### HEX socket



[p.43]

#### AC adapter



[p.39]

# Torque Tester *DWT-200*

Torque wrench



## Simple model for torque wrench management

DWT-200 is a torque tester which is ideal for daily inspections of torque wrench.

### Features

- Easy-to-see high brightness LED
- Ideal for work training

|         |                                      |
|---------|--------------------------------------|
| PP Mode | Measure the maximum torque           |
| PD Mode | Measure the torque when feel a click |

- Powered by dry cell battery

### Ordering number

Model - Destination

|                   |                                                                 |
|-------------------|-----------------------------------------------------------------|
| Model             | <b>DWT-200</b>                                                  |
| Measurement Range | 7.0~200.0 N·m                                                   |
| Accuracy          | ±0.5% (If 499 digit or less, ±3 digit.)                         |
| Power             | Dry cell battery                                                |
| Dimensions        | 200(W) × 120(D) × 96(H)                                         |
| Accessories       | Conversion adapter <b>BAE-34</b><br>Dry cell battery (4 pieces) |

## Product specification detail

### Destination

| Code                                 | Jx                                    | Ox                                                                                              |
|--------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|
| Contents<br>&<br>measurement<br>unit | (Used in Japan only)<br>SI unit (N·m) | (Used in outside of Japan)<br>SI unit (N·m)<br>Weight unit (kgf·cm)<br>Yard-pound unit (lbf·in) |

### Accessories

Conversion adapter



[p.43]

Dry cell battery



# For managing the tightening tools (separated type)

## Torque Tester *WDIS/WDISR-IP series*



Torque wrench

Nut runner

Torque driver



Prepare the “wide measurement range”, “5 kinds of socket size”

Enable to choose the indicator to suit the usage scene

Power source can be selected from either AC adapter (WDIS) or internal battery (WDISR)

### Features

- Easy-to-read color LCD display
- Compact type not required a lot of space
- Various communication commands are available
- Choice of power source and detector cable length
- Equipped with RS232C and USB port

### Ordering number

Model

Detector  
cable

Pack  
age

Destina  
tion

| Model             | WDIS-IP05                                                                                      | WDIS-IP5           | WDIS-IP50         | WDIS-IP200       | WDIS-IP500       | WDIS-IP1500    |
|-------------------|------------------------------------------------------------------------------------------------|--------------------|-------------------|------------------|------------------|----------------|
| Measurement Range | 2.0~500.0<br>mN·m                                                                              | 0.020~5.000<br>N·m | 0.20~50.00<br>N·m | 2.0~200.0<br>N·m | 2.0~500.0<br>N·m | 20~1500<br>N·m |
| Accuracy          | ±0.5% (If 499 digit or less, ±3 digit.)                                                        |                    |                   |                  |                  |                |
| Power             | AC adapter (or dry cell battery) * Tester power will be interlocked with external power source |                    |                   |                  |                  |                |

| Model             | WDISR-IP05                              | WDISR-IP5          | WDISR-IP50        | WDISR-IP200      | WDISR-IP500      | WDISR-IP1500   |
|-------------------|-----------------------------------------|--------------------|-------------------|------------------|------------------|----------------|
| Measurement Range | 2.0~500.0<br>mN·m                       | 0.020~5.000<br>N·m | 0.20~50.00<br>N·m | 2.0~200.0<br>N·m | 2.0~500.0<br>N·m | 20~1500<br>N·m |
| Accuracy          | ±0.5% (If 499 digit or less, ±3 digit.) |                    |                   |                  |                  |                |
| Power             | Internal battery (Ni-MH)                |                    |                   |                  |                  |                |

|             |                                                                           |                                 |
|-------------|---------------------------------------------------------------------------|---------------------------------|
| Dimensions  | Indicator : 103(W) X 108(D) X 38(H) , Detector : See to p.53              |                                 |
| Accessories | Detector cable<br>Rubber foot <b>B8-4</b><br>AC adapter <b>6A-061WP12</b> | Handle<br><b>CPH-P-TB8 (X2)</b> |

## Product specification detail

### Detector cable

| Code     | L1                                                                                 | L2             | L4             |
|----------|------------------------------------------------------------------------------------|----------------|----------------|
|          | 0.9m (10P-1MF)                                                                     | 1.9m (10P-2MF) | 3.9m (10P-4MF) |
| Contents |  |                |                |

### Package

| Code     | A                                                                                 | C                                                                                   |
|----------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|          | Attache case                                                                      | Cardboard case                                                                      |
| Contents |  |  |

\* For IP200 / 500 / 1500, only cardboard is available

### Destination

| Code                                 | Jx                                    | Ox                                                                                              |
|--------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|
| Contents<br>&<br>measurement<br>unit | (Used in Japan only)<br>SI unit (N·m) | (Used in outside of Japan)<br>SI unit (N·m)<br>Weight unit (kgf·cm)<br>Yard-pound unit (lbf·in) |

\* x specifies the AC adapter plug.

| Code         | 1      | 2                 | 3      | 4      | 5      |
|--------------|--------|-------------------|--------|--------|--------|
| Plug<br>type | A type | A type<br>(China) | C type | F type | G type |

## Accessories

### Detector cable



[p.45]

### Rubber foot



[p.46]

### Handle (IP1500)



[p.46]

### AC adapter



[p.39]

# Torque Tester *WDIS/WDISR-IPS series*



Automatic or semi automatic screw driver



**Detector which is down sized for automation facility**

**Enable to choose the indicator to suit the usage scene**

Power source can be selected from either AC adapter (WDIS) or internal battery (WDISR)

## Features

- Easy-to-read color LCD display
- Prepare various measurement range
- Various communication commands are available
- Choice of power source and detector cable length
- Equipped with RS232C and USB port

## Ordering number

Model

Detector  
cable

Pack  
age

Destina  
tion

| Model             | WDIS-IPS05C                                                                                       | WDIS-IPS5C      | WDIS-IPS20CL   |
|-------------------|---------------------------------------------------------------------------------------------------|-----------------|----------------|
| Measurement Range | 2.0~500.0 mN·m                                                                                    | 0.020~5.000 N·m | 0.20~20.00 N·m |
| Accuracy          | ±0.5% (If 499 digit or less, ±3 digit.)                                                           |                 |                |
| Power             | AC adapter (or dry cell battery)<br>* Tester power will be interlocked with external power source |                 |                |

| Model             | WDISR-IPS05C                            | WDISR-IPS5C     | WDISR-IPS20CL  |
|-------------------|-----------------------------------------|-----------------|----------------|
| Measurement Range | 2.0~500.0 mN·m                          | 0.020~5.000 N·m | 0.20~20.00 N·m |
| Accuracy          | ±0.5% (If 499 digit or less, ±3 digit.) |                 |                |
| Power             | Internal battery (Ni-MH)                |                 |                |

|             |                                                                           |                                                          |                                                          |
|-------------|---------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| Dimensions  | Indicator : 103(W) X 108(D) X 38(H) , Detector : See to p.53              |                                                          |                                                          |
| Accessories | Measurement joint <b>OW-025</b><br>Cube joint <b>SC-1</b>                 | Measurement joint <b>OW-10</b><br>Cube joint <b>SC-2</b> | Measurement joint <b>OW-20</b><br>Cube joint <b>SC-3</b> |
|             | Detector cable<br>Rubber foot <b>B8-4</b><br>AC adapter <b>6A-061WP12</b> |                                                          |                                                          |

\* Each measurement joint comes with 2 spare screws.

## Product specification detail

### Detector cable

| Code     | L1                                                                                 | L2           | L4           |
|----------|------------------------------------------------------------------------------------|--------------|--------------|
|          | 1m (10P-1MF)                                                                       | 2m (10P-2MF) | 4m (10P-4MF) |
| Contents |  |              |              |

### Package

| Code     | A                                                                                 | C                                                                                   |
|----------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|          | Attache case                                                                      | Cardboard case                                                                      |
| Contents |  |  |

### Destination

| Code                                 | Jx                                    | Ox                                                                                              |
|--------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|
| Contents<br>&<br>measurement<br>unit | (Used in Japan only)<br>SI unit (N·m) | (Used in outside of Japan)<br>SI unit (N·m)<br>Weight unit (kgf·cm)<br>Yard-pound unit (lbf·in) |

\* x specifies the AC adapter plug.

| Code         | 1      | 2                 | 3      | 4      | 5      |
|--------------|--------|-------------------|--------|--------|--------|
| Plug<br>type | A type | A type<br>(China) | C type | F type | G type |

## Accessories

### OW joint



[p.40]

### Cube joint



[p.41]

### Detector cable



[p.45]

### Rubber foot



[p.46]

### AC adapter



[p.39]

# Torque Tester *DI-1M-IP series*

- Electric impact tool
- Oil pulse tool
- Air impact tool
- Torque wrench



## Manage the blow force and number that affect tightening

DI-1M-IP series is a torque tester ideal for daily inspections of impact tool and torque wrench.

### Features

- Easy-to-see high brightness LED
- Simultaneously measure the blow force and blow number
- Equipped with USB port

### Ordering number

Model

-

Detector cable

-

Destination

| Mode               | DI-1M-IP50                                                    | DI-1M-IP200     |
|--------------------|---------------------------------------------------------------|-----------------|
| Measurement range  |                                                               |                 |
| Except impact tool | 0.30~50.00 N·m                                                | 3.0~200.0 N·m   |
| Impact tool        | 0.30~30.00 N·m ※                                              | 3.0~120.0 N·m ※ |
| Accuracy           | ±0.5% (If 499 digit or less, ±3 digit.)                       |                 |
| Power              | Internal battery (Ni-MH)                                      |                 |
| Dimensions         | Indicator : 150(W) X 115(D) X 48(H)<br>Detector : See to p.53 |                 |
| Accessories        | Detector cable<br>AC adapter <b>6A-061WP12</b>                |                 |

(Note) When using an impact tool, please make sure that the tightening torque value of used tool does not exceed the measurement range of the tester.

## Product specification detail

### Detector cable

| Code     | L1                                                                                 | L2          | L4          |
|----------|------------------------------------------------------------------------------------|-------------|-------------|
|          | 1m (10P-1M)                                                                        | 2m (10P-2M) | 4m (10P-4M) |
| Contents |  |             |             |

### Destination

| Code                                 | Jx                                    | Ox                                                                                              |
|--------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|
| Contents<br>&<br>measurement<br>unit | (Used in Japan only)<br>SI unit (N·m) | (Used in outside of Japan)<br>SI unit (N·m)<br>Weight unit (kgf·cm)<br>Yard-pound unit (lbf·in) |

\* x specifies the AC adapter plug.

| Code         | 1      | 2                 | 3      | 4      | 5      |
|--------------|--------|-------------------|--------|--------|--------|
| Plug<br>type | A type | A type<br>(China) | C type | F type | G type |

## Accessories

### Detector cable



[p.45]

### AC adapter



[p.39]

# Index (Tightening tools, other)

| Tightening (Wrench type) | Tightening (Driver type) | Slip torque inspection | Friction torque inspection | 0.001      0.01      0.1      1      10      100 |  |  |  |               |  |
|--------------------------|--------------------------|------------------------|----------------------------|--------------------------------------------------|--|--|--|---------------|--|
|                          |                          |                        |                            |                                                  |  |  |  |               |  |
| ○                        |                          |                        |                            |                                                  |  |  |  | 0.2~120 N·m   |  |
|                          | ○                        |                        |                            |                                                  |  |  |  | 0.002~4 N·m   |  |
|                          | ○                        |                        |                            |                                                  |  |  |  | 0.02~1.5 N·m  |  |
|                          | ○                        |                        |                            |                                                  |  |  |  | 0.0002~10 N·m |  |
|                          |                          | ○                      |                            |                                                  |  |  |  | 0.0015~15 N·m |  |
|                          | ○                        |                        | ○                          |                                                  |  |  |  | 0.002~2 N·m   |  |



|                                                                                     |                 |      | Power source |            |                  |                  | COM type |        |
|-------------------------------------------------------------------------------------|-----------------|------|--------------|------------|------------------|------------------|----------|--------|
|                                                                                     | Model           | Page | AC power     | AC adapter | Internal battery | Dry cell battery | USB      | RS232C |
|    | DIW series      | 25   |              |            | ○                |                  | ○        | △      |
|    | DID series      | 27   |              |            | ○                |                  | ○        | △      |
|    | NDID-150CN      | 29   |              |            | ○                |                  |          | △      |
|    | WDIS-RL series  | 31   |              | ○          |                  | ○                | ○        | ○      |
|                                                                                     | WDISR-RL series |      |              |            | ○                |                  |          |        |
|   | DI-12 series    | 33   | ○            |            |                  |                  | ○        |        |
|  | NTS7series      | 35   |              | ○          |                  |                  | ○        | ○      |

# Tightening tools (integrated type)

## Torque Wrench *DIW series*

Bolt tightening



No hand force points for stable tightening operations

High operability to check tightening torque

DIW series is a digital torque wrench which is ideal for the bolt tightening .

### Features

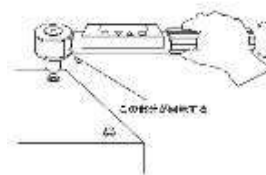
- No hand force point
- Square drive parts is rotatable
- Equipped with pass/fail function
- Equipped with the tightening counter function
- Memory size is 800 data
- Equipped with USB port

### Ordering number

Model - Destination

### Original mechanism

Easy to work due to check tightening torque by the rotating mechanism



| Model             | DIW-15                                  | DIW-20                                     | DIW-75                      | DIW-120                                 |
|-------------------|-----------------------------------------|--------------------------------------------|-----------------------------|-----------------------------------------|
| Measurement range | 0.20~15.00 N·m                          | 0.20~20.00 N·m                             | 0.20~75.00 N·m              | 2.0~120.0 N·m                           |
| Accuracy          | ±0.5% (If 199 digit or less, ±1 digit.) | ±0.5%<br>(If 499 digit or less, ±3 digit.) |                             | ±0.5% (If 199 digit or less, ±1 digit.) |
| Power             | Internal battery (Ni-MH)                |                                            |                             |                                         |
| Dimensions        | See to p.52                             |                                            |                             |                                         |
| Square drive      | 6.35 sq.                                | 9.5 sq.                                    | 9.5 sq.                     | 12.7 sq.                                |
| Accessories       | One way drive <b>OWD-15</b>             | One way drive <b>OWD-20</b>                | One way drive <b>OWD-75</b> | Ratchet adapter <b>4755</b>             |
|                   | AC adapter <b>6A-061WP12</b>            |                                            |                             |                                         |

## Product specification detail

### Destination

| Code                                 | Jx                                    | Ox                                                                                              |
|--------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|
| Contents<br>&<br>measurement<br>unit | (Used in Japan only)<br>SI unit (N·m) | (Used in outside of Japan)<br>SI unit (N·m)<br>Weight unit (kgf·cm)<br>Yard-pound unit (lbf·in) |

\* x specifies the AC adapter plug.

| Code         | 1      | 2                 | 3      | 4      | 5      |
|--------------|--------|-------------------|--------|--------|--------|
| Plug<br>type | A type | A type<br>(China) | C type | F type | G type |

### Accessories

#### One way drive



[p.44]

#### Ratchet adapter



[p.44]

#### AC adapter



[p.39]

# Torque Driver *DID series*

## Screw tightening



## Light and sound notification, ideal for screw tightening management

DID-05 has a built-in one way function / DID-4 comes with a one way bit holder

### Features

- Equipped with pass/fail function
- Selectable measurement units
- Equipped with the tightening counter function
- Memory size is 800 data
- Equipped with USB port

### Ordering number

Model - Destination

| Model             | DID-05                                                   | DID-4                                                                                                                     |
|-------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Measurement range | 2.0~500.0 mN·m                                           | 0.020~4.000 N·m                                                                                                           |
| Accuracy          | ±0.5% (If 499 digit or less, ±3 digit.)                  |                                                                                                                           |
| Power             | Internal battery (Ni-MH)                                 |                                                                                                                           |
| Dimensions        | See to p.52                                              |                                                                                                                           |
| Socket            | Φ4 (HIOS shank)                                          | HEX 6.35 (using bit holder)                                                                                               |
| Accessories       | Bit (#1) <b>V05+1X4X44</b><br>Bit (#1) <b>D73+1X4X40</b> | Bit (#1) <b>B35+1X50H</b><br>Bit (#2) <b>B35+2X50G</b><br>Bit holder <b>10-4141</b><br>One way bit holder <b>OWB-4141</b> |
|                   | AC adapter <b>6A-061WP12</b>                             |                                                                                                                           |

## Product specification detail

### Destination

| Code                                 | Jx                                    | Ox                                                                                              |
|--------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|
| Contents<br>&<br>measurement<br>unit | (Used in Japan only)<br>SI unit (N·m) | (Used in outside of Japan)<br>SI unit (N·m)<br>Weight unit (kgf·cm)<br>Yard-pound unit (lbf·in) |

\* x specifies the AC adapter plug.

| Code         | 1      | 2                 | 3      | 4      | 5      |
|--------------|--------|-------------------|--------|--------|--------|
| Plug<br>type | A type | A type<br>(China) | C type | F type | G type |

### Accessories

#### Bit (DID-05)



[p.42,43]

#### Bit (DID-4)



[p.42]

#### Bit holder



[p.44]

#### One way bit holder



[p.44]

#### AC adapter



[p.39]

# Torque Driver *NDID-150CN*

Screw tightening



## Digital torque driver which is equipped the click mechanism

NDID-150CN is rotary-slip at a specified torque and displays the tightening torque by digital.

### Features

- Grip rotates the specified torque
- Record “measurement date” and “measurement time” together
- Equipped with the tightening counter function
- Record to USB flash drive (400 records to the body)
- Light and sound notification

### Ordering number

Model

Destination

|                   |                                                                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model             | <b>NDID-150CN</b>                                                                                                                                          |
| Measurement range | 0.020~1.500 N·m                                                                                                                                            |
| Accuracy          | ±(1.0%+1digit)<br>* Guaranteed in the range of 0.300 to 1.500 N·m                                                                                          |
| Power             | Internal battery (Ni-MH)                                                                                                                                   |
| Length overall    | 205 mm                                                                                                                                                     |
| Socket            | HEX 6.35                                                                                                                                                   |
| Accessories       | Bit (#1) <b>B33+1X25.4H</b><br>Bit (#2) <b>B33+2X25.4H</b><br>HEX wrench <b>TWH-16</b><br>USB flash drive <b>UFD-P4GBK</b><br>AC adapter <b>6A-061WP12</b> |

## Product specification detail

### Destination

| Code                                 | Jx                                    | Ox                                                                                              |
|--------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|
| Contents<br>&<br>measurement<br>unit | (Used in Japan only)<br>SI unit (N·m) | (Used in outside of Japan)<br>SI unit (N·m)<br>Weight unit (kgf·cm)<br>Yard-pound unit (lbf·in) |

\* x specifies the AC adapter plug.

| Code      | 1      | 2                 | 3      | 4      |
|-----------|--------|-------------------|--------|--------|
| Plug type | A type | A type<br>(China) | C type | F type |

### Accessories

#### Bit



[p.42]

#### HEX wrench



[p.43]

#### USB flash drive



[p.46]

#### AC adapter



[p.39]

# Tightening tools (separated type)

## Torque Tester *WDIS/WDISR-RL series*



Screw tightening



**Ideal for tightening management of M1 ~ M6 screw**

Power source can be selected from either AC adapter (WDIS) or internal battery (WDISR)

### Features

- Easy-to-read color LCD display
- Various communication commands are available
- Choice of power source and detector cable length
- Equipped with RS232C and USB port

### Ordering number

Model

Detector  
cable

Pack  
age

Destina  
tion

| Model             | WDIS-RL005                                                                                     | WDIS-RL05                               | WDIS-RL6        | WDIS-RL10      |
|-------------------|------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------|----------------|
| Measurement Range | 0.20~50.00 mN·m<br>*0.05mN·m incremeent                                                        | 2.0~500.0 mN·m                          | 0.020~6.000 N·m | 0.20~10.00 N·m |
| Accuracy          | ±2.0% or 0.3mN·m                                                                               | ±0.5% (If 499 digit or less, ±3 digit.) |                 |                |
| Power             | AC adapter (or dry cell battery) * Tester power will be interlocked with external power source |                                         |                 |                |

| Model             | WDISR-RL005                             | WDISR-RL05                              | WDISR-RL6       | WDISR-RL10     |
|-------------------|-----------------------------------------|-----------------------------------------|-----------------|----------------|
| Measurement Range | 0.20~50.00 mN・m<br>*0.05mN・m incremeent | 2.0~500.0 mN・m                          | 0.020~6.000 N・m | 0.20~10.00 N・m |
| Accuracy          | ±2.0% or 0.3mN・m                        | ±0.5% (If 499 digit or less, ±3 digit.) |                 |                |
| Power             | Internal battery (Ni-MH)                |                                         |                 |                |

|             |                                                                           |  |                                                                                                                           |
|-------------|---------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|
| Dimensions  | Indicator : 103(W) X 108(D) X 38(H) , Detector : See to p.54              |  |                                                                                                                           |
| Socket      | Φ4 (HIOS shank)                                                           |  | HEX 6.35 (using bit holder)                                                                                               |
| Accessories | Bit (#0) <b>D73+0X2.5X40</b><br>Bit (#1) <b>D73+1X4X40</b>                |  | Bit (#1) <b>B35+1X50H</b><br>Bit (#2) <b>B35+2X50G</b><br>Bit holder <b>10-4141</b><br>One way bit holder <b>OWB-4141</b> |
|             |                                                                           |  | Auxiliary handle<br><b>PSAGN13-100 (X2)</b>                                                                               |
|             | Detector cable<br>Rubber foot <b>B8-4</b><br>AC adapter <b>6A-061WP12</b> |  |                                                                                                                           |

## Product specification detail

### Detector cable

| Code     | L1                                                                                 | L2             | L4             |
|----------|------------------------------------------------------------------------------------|----------------|----------------|
|          | 0.9m (10P-1MF)                                                                     | 1.9m (10P-2MF) | 3.9m (10P-4MF) |
| Contents |  |                |                |

### Package

| Code     | A                                                                                 | C                                                                                   |
|----------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|          | Attache case                                                                      | Cardboard case                                                                      |
| Contents |  |  |

### Destination

| Code                        | Jx                                    | Ox                                                                                              |
|-----------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|
| Contents & measurement unit | (Used in Japan only)<br>SI unit (N·m) | (Used in outside of Japan)<br>SI unit (N·m)<br>Weight unit (kgf·cm)<br>Yard-pound unit (lbf·in) |

\* x specifies the AC adapter plug.

| Code      | 1      | 2              | 3      | 4      | 5      |
|-----------|--------|----------------|--------|--------|--------|
| Plug type | A type | A type (China) | C type | F type | G type |

## Accessories

### Bit (RL005/05)



[p.42]

### Bit (RL6/10)



[p.42]

### Bit holder



[p.44]

### One way bit holder



[p.44]

### Auxiliary handle (RL10)



[p.44]

### Detector cable



[p.45]

### Rubber foot



[p.46]

### AC adapter



[p.39]

# Slip Torque Inspection

## Slip torque tester *DI-12 series*

Screw, bolt inspection



### Ideal for inspection of tightened screws

DI-12 series inspect the tightening torque of screw based on the retightening torque method.

#### Features

- Can estimate tightening torque value
- Stable inspection due to motorized drive
- Automatically stops when slip is detected
- Equipped with USB port

#### Ordering number

Model

Detector  
cable

Destina  
tion

| Model             | DI-12-SL02                               | DI-12-SL4                                              | DI-12-SL15                              |
|-------------------|------------------------------------------|--------------------------------------------------------|-----------------------------------------|
| Measurement range | 1.5~200.0 mN·m                           | 0.030~4.000 N·m                                        | 0.30~15.00 N·m                          |
| Accuracy          | ±0.5% (If 199 digit or less, ±1 digit.)  | ±1.0% (If 499 digit or less, ±5 digit.)                | ±0.5% (If 199 digit or less, ±1 digit.) |
| Power             | AC power                                 |                                                        |                                         |
| Length overall    | Indicator : 166(W) X 142(D) X 48(H)      |                                                        |                                         |
| Socket            | Φ4                                       | HEX 6.35                                               | Square drive 6.35                       |
| Accessories       | Bit (#0) <b>V05+0X4X44</b>               | Bit (#1) <b>B35+1X50H</b><br>Bit (#2) <b>B35+2X50G</b> | —                                       |
|                   | Detector cable<br>Power cable <b>PWC</b> |                                                        |                                         |

## Product specification detail

### Detector cable

| Code     |             | L1                                                                                  | L2            | L4            |
|----------|-------------|-------------------------------------------------------------------------------------|---------------|---------------|
| Contents | SL02<br>SL4 | 1m (10P-1M)                                                                         | 2m (10P-2M)   | 4m (10P-4M)   |
|          |             |   |               |               |
|          | SL15        | 1m (SL-7P-1M)                                                                       | 2m (SL-7P-2M) | 4m (SL-7P-4M) |
|          |             |  |               |               |

### Destination

| Code                                 | Jx                                    | Ox                                                                                              |
|--------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|
| Contents<br>&<br>measurement<br>unit | (Used in Japan only)<br>SI unit (N·m) | (Used in outside of Japan)<br>SI unit (N·m)<br>Weight unit (kgf·cm)<br>Yard-pound unit (lbf·in) |

\* x specifies the AC adapter plug.

| Code      | 1                                                                                             | 3                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Plug type | A type<br> | C type<br> |

### Accessories

Bit  
(SL02)



[p.43]

Bit  
(SL4)



[p.42]

Detector cable  
(SL02/SL4)



[p.45]

Detector cable  
(SL15)



[p.45]

Power cable



[p.39]

# Friction Torque Inspection

## Rotation friction torque tester *NTS7 series*

Friction torque

Opening torque

screw tightening



### Inspectable with friction torque or rotation angle

NTS7 series is ideal for managing frictional torque of various rotating objects.

#### Features

- Easy-to-read color LCD display
- Various communication commands are available
- Changeable rotation speed  
(5 to 50 RPM, 5 RPM step)
- Can be tightened at constant torque
- Tester power will be interlocked with external power source
- Equipped with RS232C and USB port

#### Ordering number

Model - L2 - A -

Destina  
tion

| Model             | NTS7-RT05                                                                                                                        | NTS-RT2                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Measurement range | 2.0~500.0 mN·m                                                                                                                   | 0.020~2.000 N·m                                        |
| Accuracy          | ±1.0% (If 499 digit or less, ±5 digit.)                                                                                          |                                                        |
| Power             | AC adapter                                                                                                                       |                                                        |
| Length overall    | Indicator : 103(W) X 108(D) X 38(H)<br>Detector : See to p.54.                                                                   |                                                        |
| Socket            | Φ4 (HIOS shank)                                                                                                                  | HEX 6.35                                               |
| Accessories       | Bit (#0) <b>D73+0X2.5X40</b><br>Bit (#1) <b>D73+1X4X40</b>                                                                       | Bit (#1) <b>B35+1X50H</b><br>Bit (#2) <b>B35+2X50G</b> |
|                   | Detector cable <b>RT-12P-2M</b><br>External port cable <b>EXT-5P-1M</b><br>Rubber foot <b>B8-4</b><br>AC adapter <b>SMI36-24</b> |                                                        |

## Product specification detail

### Destination

| Code                                 | Jx                                    | Ox                                                                                              |
|--------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|
| Contents<br>&<br>measurement<br>unit | (Used in Japan only)<br>SI unit (N·m) | (Used in outside of Japan)<br>SI unit (N·m)<br>Weight unit (kgf·cm)<br>Yard-pound unit (lbf·in) |

\* x specifies the AC adapter plug.

| Code      | 1      | 2                 | 3      | 5      |
|-----------|--------|-------------------|--------|--------|
| Plug type | A type | A type<br>(China) | C type | G type |

### Accessories

#### Bit (RT05)



[p.42]

#### Bit (RT2)



[p.42]

#### Detector cable



[p.45]

#### External port cable



[p.46]

#### Rubber foot



[p.46]

#### AC adapter



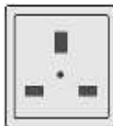
[p.39]

# Memo



## Accessories

### AC adapter **6A-061WP12**

| Model            | 6A-061WP12-1                                                                                                                                                                                  | 6A-061WP12-2                                                                                        | 6A-061WP12-3                                                                                     | 6A-061WP12-4                                                                                         | 6A-061WP12-5                                                                                  |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Plug             | A type<br>                                                                                                   | A type (China)<br> | C type (Φ4)<br> | F type (Φ4.8)<br> | G type<br> |
| Rated input      | AC 100~240V (50~60Hz)<br>0.3A or less                                                                                                                                                         |                                                                                                     |                                                                                                  |                                                                                                      |                                                                                               |
| Output           | DC 12V<br>0.5A or less                                                                                                                                                                        |                                                                                                     |                                                                                                  |                                                                                                      |                                                                                               |
| Certification    | PSE, FCC, CCC, BSMI, CE                                                                                                                                                                       |                                                                                                     |                                                                                                  | PSE, CE, UKCA, KC                                                                                    |                                                                                               |
| Compliant models | WDI series, DI-9M series, CD series, NDI series, DI-4B-25<br>WDIS／WDISR - IP series<br>WDIS／WDISR - IPS series<br>WDIS／WDISR - RL series<br>DIW series, DID series, NDID-150CN, WM2.4-DSUB-9S |                                                                                                     |                                                                                                  |                                                                                                      |                                                                                               |

\* As for the G plug, some models are not compatible.

### AC adapter **SMI36-24**

| Model            | SMI36-24-1                                                                                    | SMI36-24-2                                                                                            | SMI36-24-3                                                                                          | SMI36-24-5                                                                                      |
|------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Plug             | A type<br> | A type (China)<br> | C type (Φ4)<br> | G type<br> |
| Rated input      | AC 100~240V (50~60Hz)<br>1.0A or less                                                         |                                                                                                       |                                                                                                     |                                                                                                 |
| Output           | DC 24V<br>1.5A or less                                                                        |                                                                                                       |                                                                                                     |                                                                                                 |
| Certification    | PSE, FCC, CCC, CE, UKCA                                                                       |                                                                                                       |                                                                                                     |                                                                                                 |
| Compliant models | NTS7 series                                                                                   |                                                                                                       |                                                                                                     |                                                                                                 |

### Power cable **PWC**

| Model            | PWC-1                                                                                         | PWC-3                                                                                                |
|------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Plug             | A type<br> | C type (Φ4)<br> |
| Compliant models | DI-12 series                                                                                  |                                                                                                      |

## Measurement joint *OW* series

|                   |                                                                                                    |                                                                                                   |                                                                                                    |                                                                                                     |
|-------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Model             | <b>OW-025</b><br> | <b>OW-10</b><br> | <b>OW-20</b><br> | <b>OW-60</b><br> |
| Measurement range | MAX 0.25 N·m                                                                                       | MAX 1 N·m                                                                                         | MAX 2 N·m                                                                                          | MAX 6 N·m                                                                                           |
| Joint shape       | ⊕ M2.6                                                                                             | ⊕ M3                                                                                              | ⊕ M4                                                                                               | ⊕ M6                                                                                                |
| Accessory         | PAN, M2.6X5 (x2)                                                                                   | UPSET, M3X5 (X2)                                                                                  | UPSET, M4X5 (X2)                                                                                   | UPSET, M6X6 (X2)                                                                                    |
| Compliant models  | WDI series<br>DI-9M series<br>NDI series<br>WDIS/WDISR – IPS series                                |                                                                                                   |                                                                                                    |                                                                                                     |

\* OW joint comes with 2 spare screws.

## Measurement joint *SJ* series

|                   |                                                                                                      |                                                                                                    |                                                                                                     |                                                                                                      |                                                                                                       |                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Model             | <b>SJ-1.5</b><br> | <b>SJ-3</b><br> | <b>SJ-10</b><br> | <b>SJ-10K</b><br> | <b>SJ-50</b><br> | <b>SJ-200</b><br> |
| Measurement range | MAX 0.15 N·m                                                                                         | MAX 0.3 N·m                                                                                        | MAX 1 N·m                                                                                           | MAX 1 N·m                                                                                            | MAX 5 N·m                                                                                             | MAX 20 N·m                                                                                             |
| Joint shape       | ⊕ M2.5                                                                                               | HEX socket (5mm)                                                                                   | HEX socket (5mm)                                                                                    | HEX socket (6mm)                                                                                     | HEX socket (6mm)                                                                                      | Hexagonal (17mm)                                                                                       |
| Accessory         | –                                                                                                    | HEX attachment<br><b>HS5-M2.6</b> (X3)<br>Joint cap<br><b>W-CAP-10</b>                             | HEX attachment<br><b>HS5-M3</b> (x3)<br>Joint cap<br><b>W-CAP-10</b>                                | HEX attachment<br><b>HS6-M3</b> (x3)<br>Joint cap<br><b>W-CAP-13</b>                                 | HEX attachment<br><b>HS6-M4</b> (x3)<br>Joint cap<br><b>W-CAP-13</b>                                  | –                                                                                                      |
| Compliant models  | WDI series<br>CD series                                                                              |                                                                                                    |                                                                                                     |                                                                                                      |                                                                                                       |                                                                                                        |

## Measurement joint *HEX14* series

|                   |                                                                                                          |                                                                                                            |
|-------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Model             | <b>HEX14-H250</b><br> | <b>HEX14-S250</b><br> |
| Measurement range | MAX 25 N·m                                                                                               | MAX 25 N·m                                                                                                 |
| Joint shape       | Hexagonal (17mm)                                                                                         | Hexagonal (17mm)                                                                                           |
| Compliant models  | DI-4B-25                                                                                                 |                                                                                                            |

## Cube joint *SC series*

|                  |                                                                                                  |                                                                                                  |                                                                                                    |
|------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Model            | <b>SC-1</b><br> | <b>SC-2</b><br> | <b>SC-3</b><br> |
| Tapped hole      | M1/1.2/1.4/2/3                                                                                   | M2.6/3/4/5/6                                                                                     | M4/5/6/8/10                                                                                        |
| Compliant models | WDI series<br>DI-9M series<br>CD series<br>NDI series<br>WDIS/WDISR - IPS series                 |                                                                                                  |                                                                                                    |

## HEX attachment *HS series*

|                             |                                                                                                      |                                                                                                    |                                                                                                      |                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Model                       | <b>HS5-M2.6</b><br> | <b>HS5-M3</b><br> | <b>HS6-M3</b><br> | <b>HS6-M4</b><br> |
| Joint shape                 | ⊕ M2.6                                                                                               | ⊕ M3                                                                                               | ⊕ M3                                                                                                 | ⊕ M4                                                                                                 |
| Compliant measurement joint | SJ-3, SJ-10                                                                                          |                                                                                                    | SJ-10K, SJ-50                                                                                        |                                                                                                      |

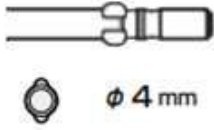
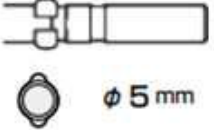
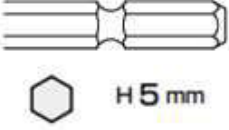
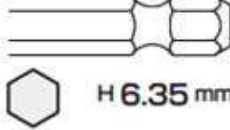
## Joint cap *W-CAP-10/13*

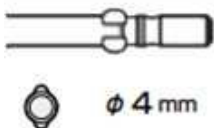
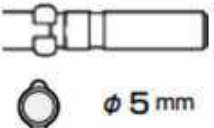
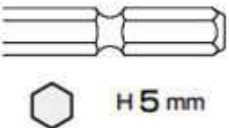
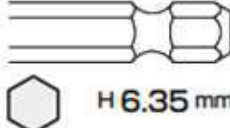
|                             |                                                                                                        |                                                                                                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Model                       | <b>W-CAP-10</b><br> | <b>W-CAP-13</b><br> |
| Compliant measurement joint | SJ-3, SJ-10                                                                                            | SJ-10K, SJ-50                                                                                          |

## Grease *JT-GREASE*

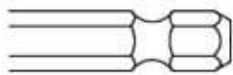
|                             |                                                                                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------|
| Model                       | <b>JT-GREASE</b><br> |
| Compliant measurement joint | SJ-1.5/3/10/10K/50/200<br>HEX14-H250/S250                                                               |

## Bit H5BIT/H6BIT series

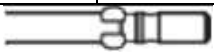
| Model                       | H5BIT-D73                                                                                                                                                                          | H5BIT-D76                                                                                                                                                                          | H5BIT-B34                                                                                                                                                                       | H5BIT-B35                                                                                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model (4-pack)              | H5BIT-SET                                                                                                                                                                          |                                                                                                                                                                                    |                                                                                                                                                                                 |                                                                                                                                                                                      |
| Bit point                   |  H 5 mm                                                                                           |                                                                                                                                                                                    |                                                                                                                                                                                 |                                                                                                                                                                                      |
| Insertion part              | <br> $\phi$ 4 mm | <br> $\phi$ 5 mm | <br> H 5 mm | <br> H 6.35 mm |
| Compliant measurement joint | SJ-3, SJ-10                                                                                                                                                                        |                                                                                                                                                                                    |                                                                                                                                                                                 |                                                                                                                                                                                      |

| Model                       | H6BIT-D73                                                                                                                                                                            | H6BIT-D76                                                                                                                                                                            | H6BIT-B34                                                                                                                                                                         | H6BIT-B35                                                                                                                                                                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model (4-pack)              | H6BIT-SET                                                                                                                                                                            |                                                                                                                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                        |
| Bit point                   |  H 6 mm                                                                                             |                                                                                                                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                        |
| Insertion part              | <br> $\phi$ 4 mm | <br> $\phi$ 5 mm | <br> H 5 mm | <br> H 6.35 mm |
| Compliant measurement joint | SJ-10K, SJ-50                                                                                                                                                                        |                                                                                                                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                        |

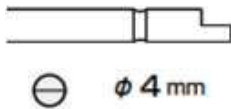
## Bit B33/B35 series

| Model            | B33+1X2.54H                                                                                                                                                                          | B33+2X2.54H   | B35+1X50H                                                                                                                                                                                | B35+2X50G     |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Bit point        | $\oplus$ No.1                                                                                                                                                                        | $\oplus$ No.2 | $\oplus$ No.1                                                                                                                                                                            | $\oplus$ No.2 |
| Insertion part   | <br> H 6.35 mm |               | <br> H 6.35 mm |               |
| Compliant models | NDID-150CN                                                                                                                                                                           |               | DID-4, WDIS-RL6/RL10, WDISR-RL6/RL10, DI-12-SL4, NTS7-RT2                                                                                                                                |               |

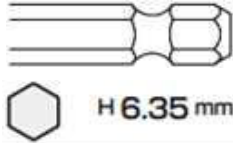
## Bit D73 series

| Model            | D73+0X2.5X40                                                                                                                                                                           | D73+1X4X40    |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Bit point        | $\oplus$ No.0                                                                                                                                                                          | $\oplus$ No.1 |
| Insertion part   | <br> $\phi$ 4 mm |               |
| Compliant models | WDIS-RL005/RL05, WDISR-RL005/RL05, DID-05, NTS7-RT05                                                                                                                                   |               |

## Bit V05 series

|                  |                                                                                   |                   |
|------------------|-----------------------------------------------------------------------------------|-------------------|
| Model            | <b>V05+0X4X44</b>                                                                 | <b>V05+1X4X44</b> |
| Bit point        | ⊕ No.0                                                                            | ⊕ No.1            |
| Insertion part   |  |                   |
| Compliant models | DID-05, DI-12-SL02                                                                |                   |

## Socket bit H17SCKTBIT-A20

|                             |                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------|
| Model                       | <b>H17SCKTBIT-A20</b>                                                             |
| Socket size                 | Hexagonal (17mm)                                                                  |
| Insertion part              |  |
| Compliant measurement joint | SJ-200, HEX14-H250, HEX14-S250                                                    |

## HEX socket H17SOCKET-SQ9.5

|                             |                                |
|-----------------------------|--------------------------------|
| Model                       | <b>H17SOCKET-SQ9.5</b>         |
| Socket size                 | Hexagonal (17mm)               |
| Inlet size                  | 9.5 sq.                        |
| Compliant measurement joint | SJ-200, HEX14-H250, HEX14-S250 |

## Conversion adapter BAE-34

|              |               |
|--------------|---------------|
| Model        | <b>BAE-34</b> |
| Square drive | 12.7 sq.      |
| Inlet size   | 9.5 sq.       |

## HEX wrench TWH-16

|                   |               |
|-------------------|---------------|
| Model             | <b>TWH-16</b> |
| Size              | 80 x 28 mm    |
| Width across flat | 5 mm          |

## One way drive **OWD series**

|                  |                                                                                                    |                                                                                                    |                                                                                                     |
|------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Model            | <b>OWD-15</b><br> | <b>OWD-20</b><br> | <b>OWD-75</b><br> |
| Square drive     | 6.35 sq.                                                                                           | 9.5 sq.                                                                                            | 9.5 sq.                                                                                             |
| Inlet size       |                                                                                                    |                                                                                                    |                                                                                                     |
| Compliant models | DIW-15, DID-4                                                                                      | DIW-20                                                                                             | DIW-75                                                                                              |

## Ratchet adapter **4755**

|                  |                                                                                                  |
|------------------|--------------------------------------------------------------------------------------------------|
| Model            | <b>4755</b><br> |
| Square drive     | 12.7 sq.                                                                                         |
| Inlet size       | 12.7 sq.                                                                                         |
| Compliant models | DIW-120                                                                                          |

## Bit holder **10-4141**/One way bit holder **OWB-4141**

|                  |                                                                                                       |                                                                                                        |
|------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Model            | <b>10-4141</b><br> | <b>OWB-4141</b><br> |
| Bit holder       | Hexagonal (6.35mm)                                                                                    |                                                                                                        |
| Inlet size       | 6.35 sq.                                                                                              |                                                                                                        |
| Compliant models | DIW-15, DID-4, WDIS-RL6/RL10<br>WDISR-RL6/RL10                                                        |                                                                                                        |

## Auxiliary handle **PSAGN13-100**

|                  |                       |
|------------------|-----------------------|
| Model            | <b>PSAGN13-100</b>    |
| Handle length    | 100 mm                |
| Compliant models | WDIS-RL10, WDISR-RL10 |

## Detector cable **10P-XMF series**

| Model            |                | 10P-1MF                                                                            | 10P-2MF | 10P-4MF |
|------------------|----------------|------------------------------------------------------------------------------------|---------|---------|
|                  |                |  |         |         |
| Cable length     |                | 0.9 m                                                                              | 1.9 m   | 3.9 m   |
| Connector shape  | Indicator side | Square type (10pin) *with ferrite core                                             |         |         |
|                  | Detector side  | Round type (10pin)                                                                 |         |         |
| Compliant models |                | WDIS-IP/IPS/RL series, WDISR-IP/IPS/RL series                                      |         |         |

## Detector cable **10P-XM series**

| Model            |                | 10P-1M                                                                             | 10P-2M | 10P-4M |
|------------------|----------------|------------------------------------------------------------------------------------|--------|--------|
|                  |                |  |        |        |
| Cable length     |                | 1 m                                                                                | 2 m    | 4 m    |
| Connector shape  | Indicator side | Square type (10pin)                                                                |        |        |
|                  | Detector side  | Round type (10pin)                                                                 |        |        |
| Compliant models |                | DI-1M-IP series, DI-12-SL02/SL4                                                    |        |        |

## Detector cable **SL-7P-XM series**

| Model            |                | SL-7P-1M                                                                             | SL-7P-2M | SL-7P-4M |
|------------------|----------------|--------------------------------------------------------------------------------------|----------|----------|
|                  |                |  |          |          |
| Cable length     |                | 1 m                                                                                  | 2 m      | 4 m      |
| Connector shape  | Indicator side | Round type (7pin)                                                                    |          |          |
|                  | Detector side  |                                                                                      |          |          |
| Compliant models |                | DI-12-SL15                                                                           |          |          |

## Detector cable **RT-12P-2M**

| Model            |                | RT-12P-2M                                                                           |
|------------------|----------------|-------------------------------------------------------------------------------------|
|                  |                |  |
| Cable length     |                | 2 m                                                                                 |
| Connector shape  | Indicator side | Square type (10pin)                                                                 |
|                  | Detector side  | Round type (12pin)                                                                  |
| Compliant models |                | NTS7 series                                                                         |

## External port cable **EXT-5P-1M**

|                  |                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------|
| Model            | <b>EXT-5P-1M</b><br> |
| Cable length     | 1 m                                                                                                   |
| Connector shape  | Square type (5pin)                                                                                    |
| Compliant models | NTS7 series                                                                                           |

## Handle **CPH-P-TB8**

|                  |                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------|
| Model            | <b>CPH-P-TB8</b><br> |
| Size             | 40(W) X 48(H)                                                                                         |
| Compliant models | WDIS-IP1500、WDISR-IP1500                                                                              |

## Rubber foot **B8-4**

|                  |                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------|
| Model            | <b>B8-4</b><br> |
| size             | Φ8 X 3.5                                                                                           |
| Compliant models | WDIS-IP/IPS/RL シリーズ、<br>WDISR-IP/IPS/RL シリーズ<br>NTS7 シリーズ                                          |

## USB cable **USB-ECOM510**

|                  |                                                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------------|
| Model            | <b>USB-ECOM510</b><br> |
| Connector        | A type – Mini B                                                                                           |
| Cable length     | 1 m                                                                                                       |
| Compliant models | NDI series                                                                                                |

## USB flash drive **UFD-P4GBK**

|                  |                    |
|------------------|--------------------|
| Model            | <b>UFD-P4GBK</b>   |
| Interface        | USB 2.0 Compatible |
| Compliant models | NDID-150CN         |

# Options

## Fixed stand **BH-STD**



|                  |                                               |
|------------------|-----------------------------------------------|
| Model            | <b>BH-STD</b>                                 |
| Compliant models | WDI シリーズ<br>DI-9M シリーズ<br>CD シリーズ<br>NDI シリーズ |
| Dimensions       | 160(W) x 116(H) x 55(D)                       |
| Weight           | Around 1.2kg                                  |

## Fixed stand **LV-STD**



|                  |                                                               |
|------------------|---------------------------------------------------------------|
| Model            | <b>LV-STD</b>                                                 |
| Compliant models | WDIS-IP50/IP200/IP500/IP1500<br>WDISR-IP50/IP200/IP500/IP1500 |
| Dimensions       | 200(W) x 200(H) x 200(D)                                      |
| Weight           | Around 9kg                                                    |

## Measurement attachment **SA series**



|                   |                    |              |              |               |
|-------------------|--------------------|--------------|--------------|---------------|
| Model             | <b>SA2-5.5</b>     | <b>SA2-7</b> | <b>SA2-9</b> | <b>SA2-10</b> |
| Width across flat | 5.5 mm             | 7 mm         | 9 mm         | 10 mm         |
| Square drive      | 6.35 sq.           |              |              |               |
| Compliant models  | WDIS-IP5/WDISR-IP5 |              |              |               |



|                   |                      |               |               |               |               |
|-------------------|----------------------|---------------|---------------|---------------|---------------|
| Model             | <b>SA3-12</b>        | <b>SA3-13</b> | <b>SA3-14</b> | <b>SA3-17</b> | <b>SA3-19</b> |
| Width across flat | 12 mm                | 13 mm         | 14 mm         | 17 mm         | 19 mm         |
| Square drive      | 9.5 sq.              |               |               |               |               |
| Compliant models  | WDIS-IP50/WDISR-IP50 |               |               |               |               |



|                   |                                 |               |               |               |
|-------------------|---------------------------------|---------------|---------------|---------------|
| Model             | <b>SA4-22</b>                   | <b>SA4-24</b> | <b>SA4-27</b> | <b>SA4-30</b> |
| Width across flat | 22 mm                           | 24 mm         | 27 mm         | 30 mm         |
| Square drive      | 12.7 sq.                        |               |               |               |
| Compliant models  | WDIS-IP200/WDISR-IP200, DWT-200 |               |               |               |



|                   |                        |               |               |
|-------------------|------------------------|---------------|---------------|
| Model             | <b>SA6-32</b>          | <b>SA6-36</b> | <b>SA6-41</b> |
| Width across flat | 32 mm                  | 36 mm         | 41 mm         |
| Square drive      | 19 sq.                 |               |               |
| Compliant models  | WDIS-IP500/WDISR-IP500 |               |               |

## Socket adapter **A20BSQ series**



| Model            | A20BSQ2                                                                                      | A20BSQ3                 | A20BSQ4                   |
|------------------|----------------------------------------------------------------------------------------------|-------------------------|---------------------------|
| Insertion part   |  H 6.35 mm |                         |                           |
| Square drive     | 6.35 sq.                                                                                     | 9.5 sq.                 | 12.7 sq.                  |
| Compliant models | WDIS-IP05/IP5<br>WDISR-IP05/IP5                                                              | WDIS-IP50<br>WDISR-IP50 | WDIS-IP200<br>WDISR-IP200 |

## RS232C cable **KR-LK2**



|                  |                                                                              |
|------------------|------------------------------------------------------------------------------|
| Model            | <b>KR-LK2</b>                                                                |
| Type             | Cross                                                                        |
| Cable length     | 2 m                                                                          |
| Compliant models | WDI series<br>WDIS-IP/IP5/RL series<br>WDISR-IP/IP5/RL series<br>NTS7 series |

## RS232C cable **KR-M1**



|                  |              |
|------------------|--------------|
| Model            | <b>KR-M1</b> |
| Type             | Straight     |
| Cable length     | 1 m          |
| Compliant models | NDI series   |

## USB cable **KU-SLAMB520BK**



|                  |                                                                                                                  |
|------------------|------------------------------------------------------------------------------------------------------------------|
| Model            | <b>KU-SLAMB520BK</b>                                                                                             |
| Connector        | A type – Mini B                                                                                                  |
| Cable length     | 2 m                                                                                                              |
| Compliant models | WDI series, NDI series<br>WDIS-IP/IP5/RL series<br>WDISR-IP/IP5/RL series<br>DIW series, DID series, NTS7 series |

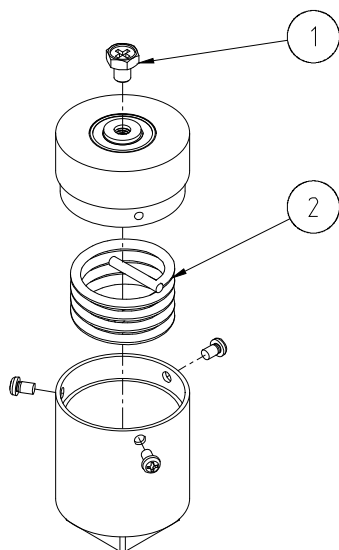
## USB cable **KU20-2K**



|                  |                                                          |
|------------------|----------------------------------------------------------|
| Model            | <b>KU20-2K</b>                                           |
| Connector        | A type – B type                                          |
| Cable length     | 2 m                                                      |
| Compliant models | CD series, DI-9M series<br>DI-1M-IP series, DI-12 series |

# Repair parts

## Measurement joint *OW* series



| No | Compliant models    | OW-025                                                                                                | OW-10                                                                                                  | OW-20                                                                                                   | OW-60                                                                                                   |
|----|---------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 1  | Screw for OW joint  | <b>PAN+2.6X5</b><br> | <b>UPSET+3X5</b><br> | <b>UPSET+4X5</b><br> | <b>UPSET+6X6</b><br> |
| 2  | Spring for OW joint | <b>OW-SPG025</b><br> | <b>OW-SPG10</b><br>  | <b>OW-SPG20</b><br>  | <b>OW-SPG60</b><br>  |

## Measurement joint *SJ* series

| Compliant models    | SJ-1.5                                                                                                    | SJ-3                                                                                                    | SJ-10                                                                                                    | SJ-10K                                                                                                     | SJ-50                                                                                                    | SJ-200                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Shaft for SJ joint  | <b>SJ-SHAFT1.5</b><br> | <b>SJ-SHAFT3</b><br> | <b>SJ-SHAFT10</b><br> | <b>SJ-SHAFT50</b><br> |                                                                                                          | <b>SJ-SHAFT200</b><br>            |
| Spring for SJ joint | <b>SJ-SPG1.5</b><br>   | <b>SJ-SPG3</b><br>   | <b>SJ-SPG10</b><br>   |                                                                                                            | <b>SJ-SPG50</b><br> | <b>SJ-SPG200</b><br>(5 discs)<br> |

# Battery *MH series / 2HR series*



|                  |                                                                                                      |
|------------------|------------------------------------------------------------------------------------------------------|
| Model            | MH1100AA5BN.0                                                                                        |
| Compliant models | WDI series<br>DI-9M series<br>CD series<br>DI-4B-25<br>WDISR-IP / IPS / RL series<br>DI-1M-IP series |



|                  |                     |
|------------------|---------------------|
| Model            | MH800AAA4GN.0       |
| Compliant models | DID-4<br>DIW series |



|                  |               |
|------------------|---------------|
| Model            | MH600AAK4BN.0 |
| Compliant models | DID-05        |



|                  |            |
|------------------|------------|
| Model            | 2HR-AAAUC  |
| Compliant models | NDID-150CN |

# Thumb screw *TS-B-M10X15*



|                  |                                                       |
|------------------|-------------------------------------------------------|
| Model            | TS-B-M10X15                                           |
| Compliant models | WDI series<br>DI-9M series<br>CD series<br>NDI series |

# Customization

## ***RS232C output***

|                    |                                                                                               |
|--------------------|-----------------------------------------------------------------------------------------------|
| Customization code | (Torque tester's ordering number) + <b>RS</b>                                                 |
| Compliant models   | DI-9M series<br>CD series<br>DI-4B-25<br>DI-1M-IP series<br>DIW series<br>DID-4<br>NDID-150CN |

Note. USB port is changed to RS232C port.

## ***RS232C output (Baudrate 9600bps)***

|                    |                                                   |
|--------------------|---------------------------------------------------|
| Customization code | (Torque tester's ordering number) + <b>RS9600</b> |
| Compliant models   | DI-1M-IP series                                   |

Note. USB port is changed to RS232C port.

## ***OW joint Screw diameter***

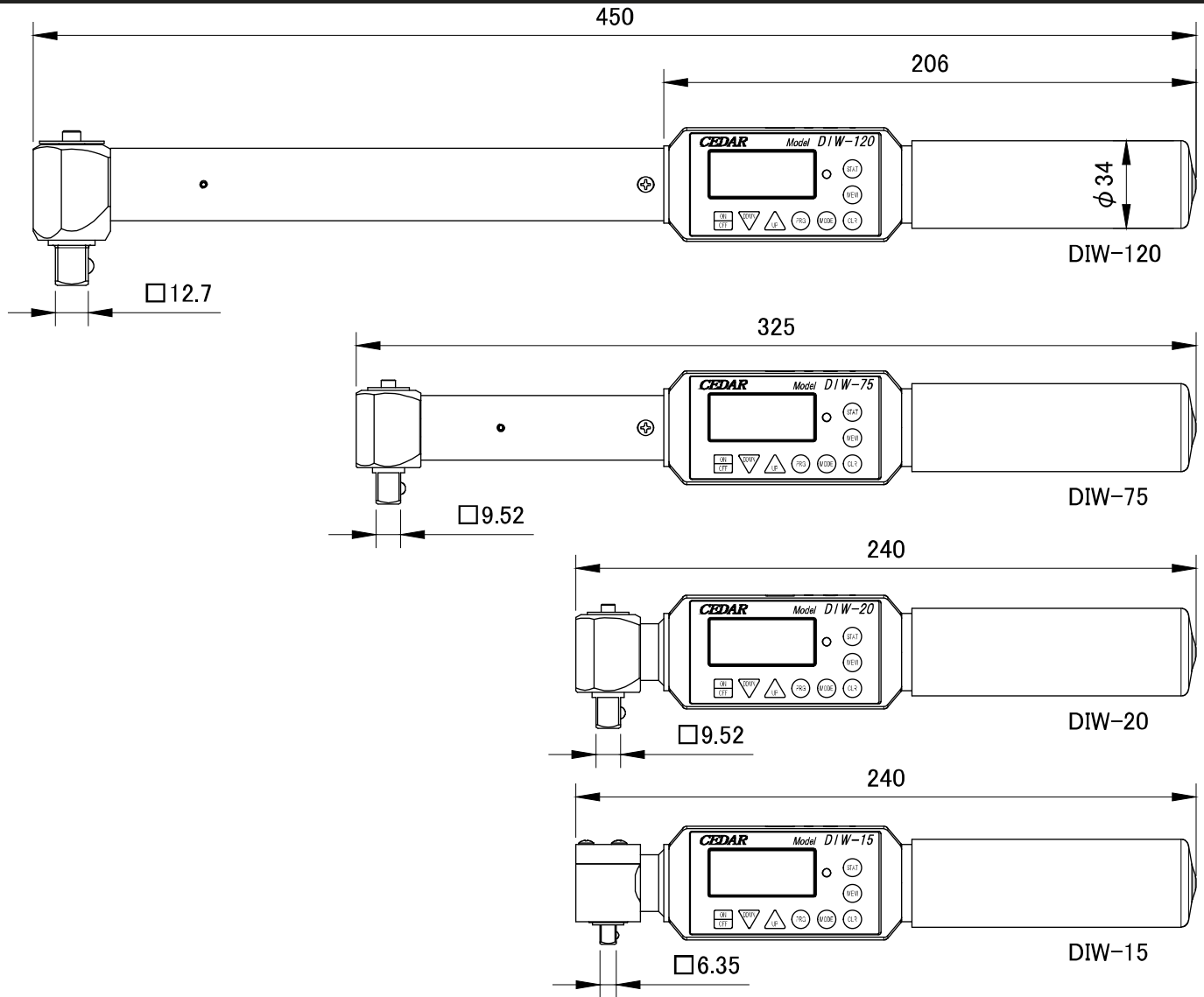
|                                               |                                                           |                           |
|-----------------------------------------------|-----------------------------------------------------------|---------------------------|
| Customization code                            | (OW joint's model) + <b>Mx</b><br><b>(Screw diameter)</b> |                           |
| Screw diameter                                | OW joint's model                                          | Changeable screw diameter |
|                                               | OW-025                                                    | M2, 2.5, 3, 4             |
|                                               | OW-10                                                     | M2, 2.5(2.6), 3, 4, 5     |
|                                               | OW-20                                                     | M2, 2.5(2.6), 3, 4, 5     |
|                                               | OW-60                                                     | M3, 4, 5                  |
| * Tapped hole is metric coarse screw threads. |                                                           |                           |

Note. Specifications of the product accessories cannot be changed.

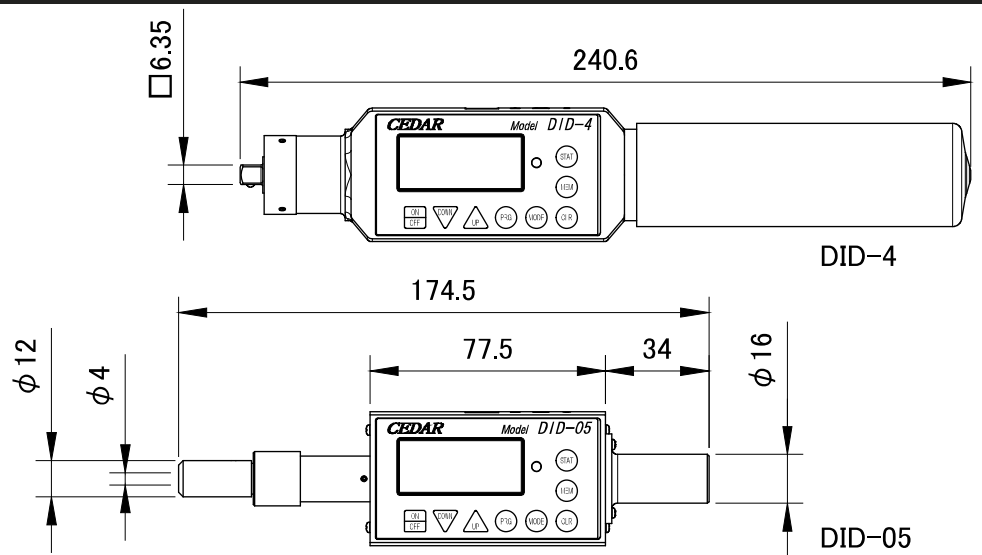
Screws are not included with custom products.

# Dimensions

## DIW series



## DID series



## IP detector

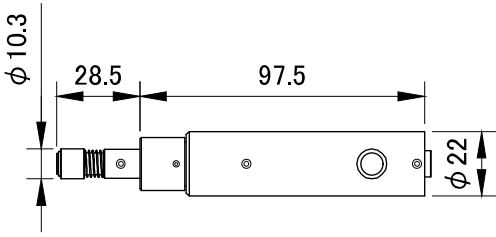
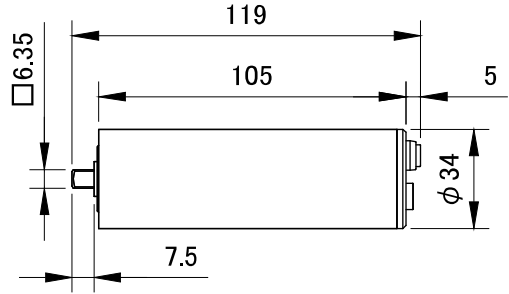
| Model                   | IP05 / 5               | IP50                   | IP200                        | IP500                   | IP1500               |
|-------------------------|------------------------|------------------------|------------------------------|-------------------------|----------------------|
| Shapes                  |                        |                        |                              |                         |                      |
| A Detector size         | Φ40mm                  | Φ50mm                  | Φ60mm                        | Φ80mm                   | Φ100mm               |
| B Height                | 41.2mm                 | 63mm                   | 79mm                         | 98mm                    | 102.5mm              |
| C Thickness             | 5mm                    | 10mm                   | 15mm                         | 15.5mm                  | 33mm                 |
| D Flange size           | Φ60mm                  | Φ90mm                  | Φ108mm                       | Φ140mm                  | Φ170mm               |
| E Hole position         | Φ50mm                  | Φ74mm                  | Φ90mm                        | Φ116mm                  | Φ140mm               |
| F Hole size             | Φ4.2mm<br>(Every 120°) | Φ6.3mm<br>(Every 120°) | Φ8.3mm<br>(Every 120°)       | Φ10.5mm<br>(Every 120°) | Φ13mm<br>(Every 60°) |
| G Socket                | 6.35sq                 | 9.5sq                  | 12.7sq                       | 19sq                    | 25.4sq               |
| Weight<br>(DI-1M-IP200) | Around 200g            | Around 600g            | Around 1kg<br>(Around 1.6kg) | Around 2.5kg            | Around 7.2kg         |

(Note) In the case of DI-1M-IP200, the phase of the fixing holes is 180 degrees out of phase with the above figure.

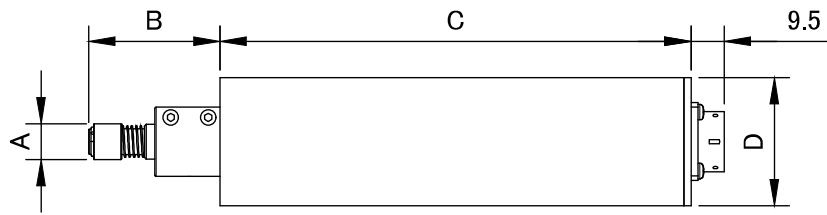
## IPS detector

| Model                  | IPS05C / 5C | IPS20CL |
|------------------------|-------------|---------|
| Shapes<br>(units : mm) |             |         |

## RL detector

| Model                  | RL005 / 05                                                                        | RL6 / 10                                                                           |
|------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Shapes<br>(units : mm) |  |  |

## RT detector

| Model               | RT05                                                                               | RT2       |
|---------------------|------------------------------------------------------------------------------------|-----------|
| Shapes              |  |           |
| A Tip               | Φ 10.3 mm                                                                          | Φ 12.0 mm |
| B Tip's length      | 38.0 mm                                                                            | 55.5 mm   |
| C Detector's length | 135.5 mm                                                                           | 168.5mm   |
| D Outer diameter    | Φ 37.0 mm                                                                          | Φ 42.0 mm |

FOR MORE INFORMATION PLEASE CONTACT:



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