

# 2. CONVENTIONAL TOOLS

## SCREWDRIVERS



**WARNING**

**Screwdrivers**

- Do not use if there is a live electric current. The plastic on the grip does not provide insulation against electrical current.



**CAUTION**

- Use screwdrivers that conform to the size of the screws.
- Do not use the screwdriver as a lever, scraper, punch, or chisel.
- Do not use this tool as a hammer.
- Do not apply strong impact on this tool by hitting it with a hammer, etc.
- The use of protective goggles is recommended.
- Do not use screwdrivers with chipped, worn, or cracked heads.
- Do not hold materials in one hand and the screwdriver in the other as it is unsafe. Carry out maintenance in a safe, stable position.



Through type



Magnet type

■ Screwdriver line up



■ New plastic grip screwdriver (21<sup>st</sup> Century Version Tools) ▶ P.122

The square shaft allows for easy delivery of high torque while being effective in the direction it is being pushed in. A double format consisting of environmentally friendly polypropylene and elastomer, which provides a soft, comfortable grip. A hexagonal bolster is attached when extra power is needed. (Excluding stubby screwdrivers)

■ Palm screwdriver ▶ P.123

A soft grip that reduces fatigue. A hexagonal bolster is attached when high torque for larger sizes is needed.

■ Plastic grip screwdriver ▶ P.124

Acetyloid plastic grip with high durability. A powerful piercing type screwdriver with a black finish using special steel in the shaft.

■ Deluxe screwdriver ▶ P.123,124

A plastic grip with an hexagonal shaped handle. The square shaft allows for the use of the adjustable wrench when high torque is required.

■ Soft grip screwdriver ▶ P.129-131

The screwdriver employs a handle that is easy to grip and turn while applying force in pursuit of user-friendliness. Careful consideration has been provided in selecting grip material by using environmentally-friendly wood and plastic.

■ Wooden grip screwdriver ▶ P.132

Conventional screwdriver using natural timber for a soft, gentle grip. Wide grooves have been designed in 4 sections for the purpose of improved grip, concentrating the application of strength by the thumb and little finger, facilitating gripping and greater power for use.

■ Other screwdrivers

Insulated screwdriver ▶ P.128

Heavy duty handled screwdriver ▶ P.124

Anti-slip screwdriver ▶ P.125

Flat ratchet screwdriver ▶ P.126

Short stubby screwdriver ▶ P.125



\*Please check the merchandise inventory for a product that is marked by before placing an order.

\*Except special screwdrivers

Chart of KTC screwdrivers

● = with magnetic type

| Grip    |         | Shaft        |                           | Through type  |            |               |                             | Non-through type |  |                            |
|---------|---------|--------------|---------------------------|---------------|------------|---------------|-----------------------------|------------------|--|----------------------------|
|         |         |              |                           | Rounded shaft |            | Square shaft  |                             | Rounded shaft    |  | Thin shaft (Rounded shaft) |
|         |         | Material     | Shape                     | Bolster       |            | Bolster       |                             | Bolster          |  |                            |
|         |         | Yes          | No                        | Yes           | No         | Yes           | No                          | No               |  |                            |
| Plastic | Square  |              | ●D10P2 / D10M2            |               |            |               | PDDZ / MDDZ<br>●D10P / D10M | ●D10SP / D10SM   |  |                            |
|         | Hexagon |              |                           |               | ●DPD / DMD |               |                             |                  |  |                            |
|         | Rounded |              | ●PDD1 / MDD1              |               |            |               |                             |                  |  |                            |
| Soft    | Round   |              | ●D8P2 / D8M2              |               |            |               | ●D8P / D8M                  |                  |  |                            |
|         | Square  |              | ●D7P2 / D7M2              | ●D1P2 / D1M2  |            | ●ND2P / ND2M  | ●D7P / D7M                  | ●D7SP / D7SM     |  |                            |
|         | Rounded |              |                           |               |            | ●PDEA / MDEA* | ●D6P / D6M                  | MDEA1            |  |                            |
| Wooden  | Hexagon | ●ND3P / ND3M |                           |               |            |               |                             |                  |  |                            |
|         | Rounded |              | ●D12P2 / D12M2<br>PD / MD |               |            |               |                             |                  |  |                            |

\*Only PDEA-2, 3, MDEA-100, 150

Selecting screwdrivers

●As there is a great variety of screwdriver makes available, how do you select the appropriate type?

Here, we will show you ways of selecting screwdrivers more suited to your purpose while showing you screwdriver types and functions.

1 Select the grip

Firstly, the grip is a very important factor when selecting a screwdriver. Select the material that it is best suited to your project. Every effort has been carried out to improve the grip but as users all have differently shaped hands, it is important that you try gripping the tool before purchase. Try this in the store in front of the sales staff.

① Material

a. Plastic (hard)



Mainly made from hard durable materials that do not get dirty easily, such as Acetyloid.

b. Plastic (Soft)



The elasticity of the surface provides a soft grip.

c. Wooden



A conventional, familiar screwdriver that uses wooden materials. The screwdriver provides good grip even for greasy hands.

② Shape

a. Round type



The round grip that allows for the hand to firmly grasp the tool is shaped for easier use when pushing and turning action is required. The ratio of pushing and turning for a basic screwdriver is said to be 7:3. This shape is often used for wooden screws that especially require the pushing and turning action. It is also suitable for women and when the application of strength by the user is difficult.

b. Square - hexagonal - rounded type



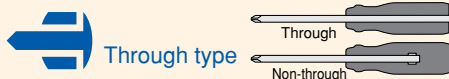
A standard shape held using the basic side-grip method allows for easy use when turning rapidly or hitting the washer.

2 Select the shaft

The shaft is an important component as well as the grip. Select the correct shaft from the 5 points provided below.

① Through and non-through

The through type shaft can also be used as a shock screwdriver for hitting washers. (However, the tool will quickly deteriorate.) The piercing type shaft is identified in the catalog by this symbol.



② Shape

a. Rounded shaft



A common shape that is easy to use when turning while supporting the shaft with the hand.

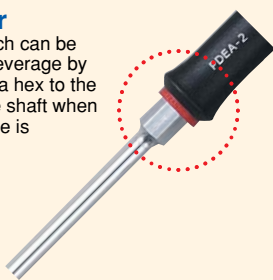
b. Square shaft



Open end wrenches can be used for leverage when high turning torque is needed.

③ Bolster

The wrench can be used for leverage by attaching a hex to the root of the shaft when high torque is needed.



④ Material

a. Cr-V (Chrome vanadium copper)

A special steel that has anti-wear properties that are desired in screwdrivers. The steel is often used in high-grade models.

b. SWRH62A (Hard drawn steel wired material)

A common steel material used for screwdrivers regulated by JIS standards.

c. S55C, S45C (Carbon steel)

A common steel material used for screwdrivers regulated by JIS standards.

⑤ Magnetic tip

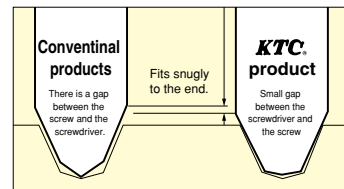
These tools have magnetized tips. The magnetic type is identified in the catalog by this symbol.



\*Please check the merchandise inventory for a product that is marked by before placing an order.

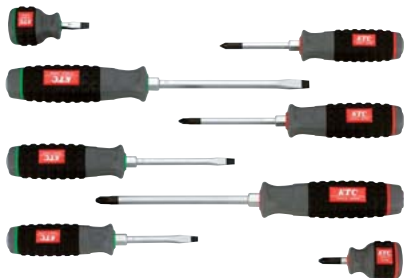
## New plastic grip screwdriver A new design that embodies a new concept.

- The design of the edges of the screwdriver has been modified in order to produce a new type of screwdriver.
- The square form (shape) allows for easy delivery of high torque while being effective in the direction it is being pushed in.
- A triple format consisting of environmentally friendly polypropylene and elastomer which provides a soft, comfortable grip.
- The grip end is color coded with red ⊕ (Cross head) and green ⊖ (Flat head) for easy distinction.
- Improved ease of use due to the tip shape that snugly fits the screw.
- The axle is of a hexagon design. The attached bolster is effective when high torque is needed.  
(Excluding stubby screwdrivers)
- The cross screwdriver reduces the gap with the screw and prevents cam out (the applied force from being forced outwards).



**\*Cam out**  
This refers to the force of the screwdriver that escapes when turning the screw.

### NEW PLASTIC GRIP SCREWDRIVER SET (8pcs.) D.PAT.



#### NEW PLASTIC GRIP SCREWDRIVER SET (8pcs.)

| No.   | TPMD18 | ▼kg          | 1.2 | 📦 | 1 |
|---|--------|--------------|-----|---|---|
| Plastic grip screwdriver piercing type (cross)  |        | D1P2-1, 2, 3 |     |   |   |
| Plastic grip screwdriver piercing type (flat)   |        | D1M2-5, 6, 8 |     |   |   |
| Plastic grip stubby screwdriver (cross)   |        | D1PS-2       |     |   |   |
| Plastic grip stubby screwdriver (flat)  |        | D1MS-6       |     |   |   |
| <ul style="list-style-type: none"> <li>• With hexagonal bolster. (Excluding stubby screwdrivers)</li> <li>• The tip is magnetized.</li> <li>• Cr-V is used for shaft material.</li> </ul> |        |              |     |   |   |

\*The stubby screwdriver is a non-through type shaft.

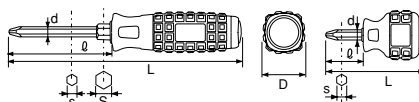
### NEW PLASTIC GRIP SCREWDRIVER · STUBBY SCREWDRIVER D.PAT.



#### NEW PLASTIC GRIP SCREWDRIVER · STUBBY SCREWDRIVER

| No.    | Type | d   | D    | S  | s   | L   | ℓ   | ▼g  | 📦  |
|--------|------|-----|------|----|-----|-----|-----|-----|----|
| D1P2-1 | No.1 | 7.1 | 29.6 | 10 | 6.3 | 170 | 75  | 120 | 10 |
| -2     | No.2 | 7.1 | 32   | 10 | 6.3 | 210 | 100 | 150 | 10 |
| -3     | No.3 | 8.9 | 33.8 | 12 | 7.9 | 280 | 150 | 250 | 5  |
| D1PS-2 | No.2 | 7.1 | 35.5 | —  | 6.3 | 75  | 25  | 70  | 10 |

- The tip is magnetized.
- Cr-V is used for shaft material.



\*The stubby screwdriver is a non-through type shaft.

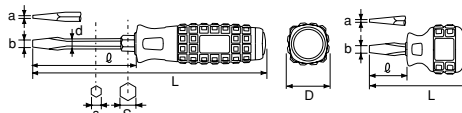
### NEW PLASTIC GRIP SCREWDRIVER · STUBBY SCREWDRIVER D.PAT.



#### NEW PLASTIC GRIP SCREWDRIVER · STUBBY SCREWDRIVER

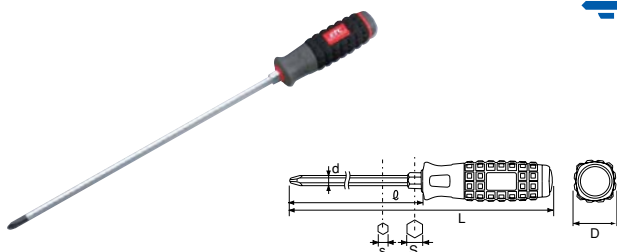
| No.    | a   | b   | d   | D    | S  | s   | L   | ℓ   | ▼g  | 📦  |
|--------|-----|-----|-----|------|----|-----|-----|-----|-----|----|
| D1M2-5 | 0.8 | 5.5 | 7.1 | 29.6 | 10 | 6.3 | 170 | 75  | 120 | 10 |
| -6     | 1.0 | 6.3 | 7.1 | 32   | 10 | 6.3 | 210 | 100 | 150 | 10 |
| -8     | 1.2 | 8   | 8.9 | 33.8 | 12 | 7.9 | 280 | 150 | 250 | 5  |
| D1MS-6 | 1.0 | 6.3 | 7.1 | 35.5 | —  | —   | 75  | 25  | 70  | 10 |

- The tip is magnetized.
- Cr-V is used for shaft material.



\*The stubby screwdriver is a non-through type shaft.

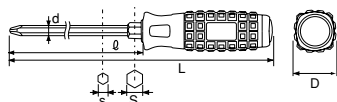
### NEW PLASTIC GRIP LONG SCREWDRIVER D.PAT.



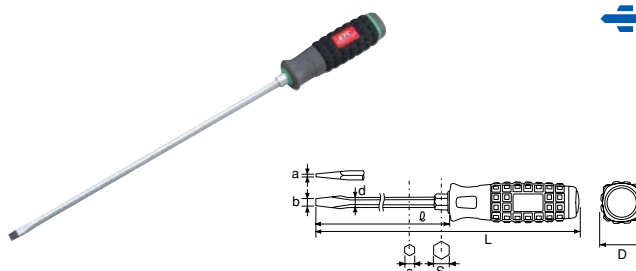
#### NEW PLASTIC GRIP LONG SCREWDRIVER

| No.      | Type | d   | D    | S  | s   | L   | ℓ   | ▼g  | 📦 |
|----------|------|-----|------|----|-----|-----|-----|-----|---|
| D1P2-130 | No.1 | 7.1 | 29.6 | 10 | 6.3 | 400 | 300 | 180 | 5 |
| -230     | No.2 | 7.1 | 32   | 10 | 6.3 | 410 | 300 | 200 | 5 |
| -330     | No.3 | 8.9 | 33.8 | 12 | 7.9 | 430 | 300 | 310 | 5 |

- With a long neck (length 300mm), the six sided type is useful in hard to reach areas around engines.
- With hexagonal bolster.
- Cr-V is used for shaft material.
- The tip is magnetized.



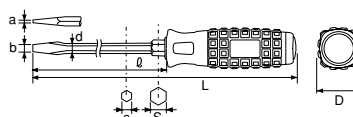
### NEW PLASTIC GRIP LONG SCREWDRIVER D.PAT.



#### NEW PLASTIC GRIP LONG SCREWDRIVER

| No.      | a   | b   | d   | D    | S  | s   | L   | ℓ   | ▼g  | 📦 |
|----------|-----|-----|-----|------|----|-----|-----|-----|-----|---|
| D1M2-530 | 0.8 | 5.5 | 7.1 | 29.6 | 10 | 6.3 | 400 | 300 | 180 | 5 |
| -630     | 1.0 | 6.3 | 7.1 | 32   | 10 | 6.3 | 410 | 300 | 200 | 5 |
| -830     | 1.2 | 8.0 | 8.9 | 33.8 | 12 | 7.9 | 430 | 300 | 310 | 5 |

- With a long neck (length 300mm), the six sided type is useful in hard to reach areas around engines.
- With hexagonal bolster.
- Cr-V is used for shaft material.
- The tip is magnetized.



\*Please check the merchandise inventory for a product that is marked by ⚡ before placing an order.

**PALM SCREWDRIVER SET (8pcs.)**

| No. PMDEA8               |  |         |          | ▼g | 740 | ☒ | 1 |
|--------------------------|--|---------|----------|----|-----|---|---|
| Palm screwdriver cross   |  | No.1    | PDEA-1   |    |     |   |   |
|                          |  | No.2    | PDEA-2   |    |     |   |   |
|                          |  | No.3    | PDEA-3   |    |     |   |   |
| Palm screwdriver flat    |  | 5.5×100 | MDEA-75  |    |     |   |   |
|                          |  | 6.5×125 | MDEA-100 |    |     |   |   |
|                          |  | 8 ×150  | MDEA-150 |    |     |   |   |
| Stubby screwdriver cross |  | No.2    | PDEA-P   |    |     |   |   |
| Stubby screwdriver flat  |  | 6 × 30  | MDEA-M   |    |     |   |   |

**MODEL CHANGE** This model succeeds the PMDE8.

**●PALM SCREWDRIVER SET (8pcs.)**

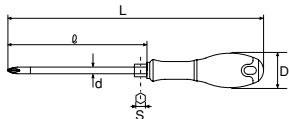


**PALM SCREWDRIVER**

| No.     | Type  | d | D  | S  | L   | ℓ   | ▼g  | ☒ |
|---------|-------|---|----|----|-----|-----|-----|---|
| PDEA-00 | No.00 | 3 | 20 | —  | 148 | 50  | 20  | 5 |
| -0      | No. 0 | 4 | 27 | —  | 177 | 75  | 40  | 5 |
| -1      | No. 1 | 5 | 32 | —  | 205 | 100 | 70  | 5 |
| -2      | No. 2 | 6 | 32 | 10 | 230 | 125 | 95  | 5 |
| -3      | No. 3 | 8 | 40 | 12 | 266 | 150 | 165 | 5 |
| -P      | No. 2 | 6 | 32 | —  | 89  | 30  | 40  | 5 |

- The large size comes attached with a hexagonal bolster. (Only PDEA-2, 3)
- The tip is magnetized.

**MODEL CHANGE** This model succeeds the PDE-.



**● PALM SCREWDRIVER**

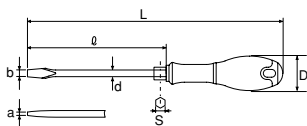


**PALM SCREWDRIVER**

| No.     | a   | b   | d | D  | S  | L   | ℓ   | ▼g  | ☒ |
|---------|-----|-----|---|----|----|-----|-----|-----|---|
| MDEA-75 | 0.8 | 5.5 | 5 | 32 | —  | 205 | 100 | 70  | 5 |
| -100    | 0.9 | 6.5 | 6 | 32 | 10 | 230 | 125 | 95  | 5 |
| -150    | 1.1 | 8   | 8 | 40 | 12 | 266 | 150 | 165 | 5 |
| MDEA-M  | 0.9 | 6   | 6 | 32 | —  | 89  | 30  | 40  | 5 |

- The large size comes attached with a hexagonal bolster. (Only MDEA-100, 150)
- The tip is magnetized.

**MODEL CHANGE** This model succeeds the MDE.



**● PALM SCREWDRIVER**

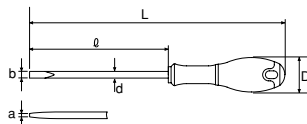


**PALM THIN BLADE SCREWDRIVER**

| No.      | a    | b | d | D  | L   | ℓ   | ▼g  | ☒ |
|----------|------|---|---|----|-----|-----|-----|---|
| MDE1A-50 | 0.4  | 3 | 3 | 20 | 148 | 50  | 20  | 5 |
| -75      | 0.45 | 4 | 4 | 27 | 177 | 75  | 40  | 5 |
| -150     | 0.9  | 5 | 5 | 32 | 255 | 150 | 75  | 5 |
| -200     | 0.9  | 6 | 6 | 32 | 305 | 200 | 100 | 5 |

- This screwdriver is especially useful for operating on meters/gauges and electrical systems.

**MODEL CHANGE** This model succeeds the MDE1-.



**●PALM THIN BLADE SCREWDRIVER**

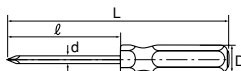


**DELUXE SCREWDRIVER**

| No.    | Type | d   | D  | L   | ℓ   | ▼g  | ☒  |
|--------|------|-----|----|-----|-----|-----|----|
| DPD -1 | No.1 | 4.5 | 21 | 173 | 75  | 75  | 10 |
| -2     | No.2 | 6   | 23 | 208 | 100 | 130 | 10 |
| -3     | No.3 | 8   | 27 | 272 | 150 | 210 | 5  |
| DSD -P | No.2 | 6   | 29 | 73  | 25  | 40  | 10 |

- Durable square shank can be used with wrenches for higher torque.
- Hexagonal grip for applying torque easily.
- The tip is magnetized.
- Cr-V is used for shaft material.

\*The stubby screwdriver is a non-through type shaft.



**●DELUX SCREWDRIVER (DPD)**

