RELATED EQUIPMENT SERIES
BT / QL-MH

Hex. Bit Socket / Torque Wrench

### Hex. Bit Socket

![Hex. Bit Socket Diagram]

#### Chuck size

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>S</th>
<th>D</th>
<th>L</th>
<th>B</th>
<th>Torque wrench</th>
</tr>
</thead>
<tbody>
<tr>
<td>8912 00353000</td>
<td>BT2-04</td>
<td>4</td>
<td>16</td>
<td>54.5</td>
<td>32</td>
<td>6.3 sq.</td>
</tr>
<tr>
<td></td>
<td>PHC·A</td>
<td>06-08</td>
<td>0250-0312</td>
<td>11 – 12</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHC·A</td>
<td>09-20</td>
<td>0375-0750</td>
<td>7 – 8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHC·S</td>
<td>06-12, 16</td>
<td>0250-0500</td>
<td>9 – 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8912 00354000</td>
<td>BT3-06</td>
<td>6</td>
<td>17</td>
<td>66</td>
<td>37</td>
<td>9.5 sq.</td>
</tr>
<tr>
<td></td>
<td>PHC·A</td>
<td>25, 32</td>
<td>1000, 1250</td>
<td>29 – 30</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHC·S</td>
<td>20-25</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
</tbody>
</table>

### Torque wrench

#### Chuck model

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>Torque range</th>
<th>a</th>
<th>L</th>
<th>Hex. Bit Socket</th>
</tr>
</thead>
<tbody>
<tr>
<td>8912 00351000</td>
<td>QL15N-ML</td>
<td>3–15Nm</td>
<td>6.3</td>
<td>195</td>
<td>BT2-04</td>
</tr>
<tr>
<td>8912 00352000</td>
<td>QL50N-ML</td>
<td>10–50Nm</td>
<td>9.5</td>
<td>260</td>
<td>BT3-06</td>
</tr>
</tbody>
</table>

---

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937
**SH / CL**

Spanner Head / Torque Wrench

### HDC-A, SDM, GDC-A, HDZ, GDZ

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>Type</th>
<th>W</th>
<th>D</th>
<th>L1</th>
<th>Nut</th>
<th>Spanner</th>
<th>Tightening torque (Nm)</th>
<th>Torque wrench</th>
</tr>
</thead>
<tbody>
<tr>
<td>3150 00000115</td>
<td>SH -1A-15</td>
<td>1 24</td>
<td>4.5</td>
<td>15 78</td>
<td>HDP-09,KDP-1916</td>
<td>S-1L</td>
<td>30 ~ 35</td>
<td>CL50N × 15D</td>
<td></td>
</tr>
<tr>
<td>3150 00000315</td>
<td>SH -3A-15</td>
<td>1 30</td>
<td>4.5</td>
<td>15 83</td>
<td>HDP-12,KDP-2422</td>
<td>S-3L</td>
<td>35 ~ 40</td>
<td>CL100N × 15D</td>
<td></td>
</tr>
<tr>
<td>3150 00000415</td>
<td>SH -4A-15</td>
<td>1 33</td>
<td>4.5</td>
<td>15 84</td>
<td>HDP-16,KDP-2825</td>
<td>S-4L</td>
<td>40 ~ 45</td>
<td>CL100N × 15D</td>
<td></td>
</tr>
<tr>
<td>3150 00000515</td>
<td>SH -5A-15</td>
<td>1 42</td>
<td>5.5</td>
<td>15 89</td>
<td>HDP-22,KDP-3632</td>
<td>S-5L</td>
<td>55 ~ 60</td>
<td>CL100N × 15D</td>
<td></td>
</tr>
<tr>
<td>3150 00002310</td>
<td>SH -23-10</td>
<td>2 23</td>
<td>10 60</td>
<td>HDP-07A</td>
<td>S-0</td>
<td>10 ~ 15</td>
<td>CL25N × 10D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3150 00002515</td>
<td>SH -25-15</td>
<td>2 29</td>
<td>15 77</td>
<td>GDP-09</td>
<td>FK-0025</td>
<td>30 ~ 35</td>
<td>CL50N × 15D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3150 00003415</td>
<td>SH -34-15</td>
<td>2 38</td>
<td>15 82</td>
<td>GDP-12</td>
<td>FK-0034</td>
<td>35 ~ 40</td>
<td>CL100N × 15D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3150 00004515</td>
<td>SH -45-15</td>
<td>2 49</td>
<td>15 86</td>
<td>GDP-16</td>
<td>FK-0034</td>
<td>40 ~ 45</td>
<td>CL100N × 15D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3150 00000619</td>
<td>SH -6A-19</td>
<td>2 66</td>
<td>19 118</td>
<td>GDP-22</td>
<td>FK-0045</td>
<td>55 ~ 60</td>
<td>CL100N × 15D</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Please contact NT USA for spanner head other than listed above.

### ERC, ERC-T, ERZ

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>Type</th>
<th>W</th>
<th>D</th>
<th>L1</th>
<th>Nut</th>
<th>Spanner</th>
<th>Tightening torque (Nm)</th>
<th>Torque wrench</th>
</tr>
</thead>
<tbody>
<tr>
<td>3150 00002310</td>
<td>SH -23-10</td>
<td>2 23</td>
<td>10 60</td>
<td>ERP-11</td>
<td>S-0</td>
<td>10 ~ 15</td>
<td>CL25N × 10D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3150 00003415</td>
<td>SH -34-15</td>
<td>2 32</td>
<td>15 82</td>
<td>ERP-16</td>
<td>FK-0034</td>
<td>35 ~ 40</td>
<td>CL100N × 15D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3150 00000619</td>
<td>SH -6A-19</td>
<td>2 66</td>
<td>19 118</td>
<td>ERP-50</td>
<td>HS4-42</td>
<td>130 ~ 140</td>
<td>—</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Please contact NT USA for spanner head other than listed above.

### Torque wrench

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>Torque range</th>
<th>D2</th>
<th>L2</th>
<th>Spanner head</th>
</tr>
</thead>
<tbody>
<tr>
<td>3154 000010000</td>
<td>CL 25N × 10D</td>
<td>5 ~ 25Nm</td>
<td>10</td>
<td>189</td>
<td>SH-23-10</td>
</tr>
<tr>
<td>3154 000020000</td>
<td>CL 50N × 15D</td>
<td>10 ~ 50Nm</td>
<td>15</td>
<td>219</td>
<td>SH-1A-15, SH-25-15</td>
</tr>
<tr>
<td>3154 000040000</td>
<td>CL 200N × 19D</td>
<td>40 ~ 200Nm</td>
<td>19</td>
<td>435</td>
<td>SH-6A-19</td>
</tr>
</tbody>
</table>

Please use spanner head with correct torque in accordance with manual.

---

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937

Special / Custom Sizes on request

Related Equipment
- BT
- CAT
- AHO
- AHK·E/C
- HSK·T
- UTS
- Specialized Machine

Digital measuring equipment
- Tool Presetter
- Tool Presetter HSK Clamper “R”
- Simple Setter

Please use spanner head with correct torque in accordance with manual.
**ISG3400**

**Magnetic Induction Heating Device**

- Quick cutting tool change by induction heating.
- Both carbide and high-speed steel cutting tools can be used.

### Heating Device

- **Induction coil**
- **SAP No.**: 6726141
- **Model**: ISGS3200-1
- **Specifications**:
  1. For the chucks whose O.D. is 53.0mm and less. (SRD32 can be heated. SRK32 cannot be heated.) Special induction coil is needed for SRK32A and SRE \( L1 \leq 60 \text{mm (2.362")} \). Please contact NT TOOL for details.
  2. By exchanging a changing disk, it can be used in the edged tool size of \( 3 \sim 32 \text{mm} \).

- **Pole Disc One-Piece**
  - **SAP No.**
    - 6726157: ISGS3201-0 (\( 3 \sim 5.9 \text{mm} \))
    - 6726143: ISGS3201-1 (\( 6 \sim 12 \text{mm} \))
    - 6726144: ISGS3201-2 (\( 12.1 \sim 22 \text{mm} \))
    - 6726145: ISGS3201-3 (\( 22.1 \sim 32 \text{mm} \))
  - **Specifications**:
    - For optimal shielding of the magnetic field between coil and tool shank.

- **Clamping Ring**
  - **SAP No.**: 6950431
  - **Model**: ISGS309
  - **Specifications**:
    - For secure holding of the pole disc inside the coil.

- **Protective Gloves**
  - **SAP No.**: 6947666
  - **Model**: VA662-10
  - **Specifications**:
    - For protection against possible burns and cutting injuries.

### Related Equipment

- BT
- CAT
- AHO
- HSK·A/E/F/C
- HSK·T
- UTS

### Inch to Metric (mm) Conversion

- \( \text{Inch} \times 25.4 \)
- \( \text{Metric (mm)} \div 25.4 \) or \( \text{Metric} \times 0.03937 \)
Heating Device Options (sold separately)

Induction coil

Special induction coil is needed for SRK32A and SRE [L1 ≤ 60mm (2.362\text{"})]. Please contact NT TOOL for details.

<table>
<thead>
<tr>
<th>SAP No.</th>
<th>Model</th>
<th>Size (Tool shank diameter)</th>
<th>For use when the cutting diameter is bigger than the shrinking diameter.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9074540</td>
<td>ISGS3201GT-0</td>
<td>ø 3 ~ 5.9mm</td>
<td></td>
</tr>
<tr>
<td>9074541</td>
<td>ISGS3201GT-1</td>
<td>ø 6 ~ 12mm</td>
<td></td>
</tr>
<tr>
<td>9074542</td>
<td>ISGS3201GT-2</td>
<td>ø 12.1 ~ 20mm</td>
<td></td>
</tr>
<tr>
<td>9074543</td>
<td>ISGS3201GT-3</td>
<td>ø 20.1 ~ 32mm</td>
<td></td>
</tr>
</tbody>
</table>

Holder support Air Cooled

1. For holding and correct positioning of the shrink chuck on the shrink unit.
2. Other than listed above, Please contact NT TOOL for details.

<table>
<thead>
<tr>
<th>SAP No.</th>
<th>Model, shank size</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6725939</td>
<td>T3-W/HSK32</td>
<td></td>
</tr>
<tr>
<td>6725940</td>
<td>T3-W/HSK40</td>
<td></td>
</tr>
<tr>
<td>6725941</td>
<td>T3-W/HSK50 (Capable for UTS5040 use.)</td>
<td></td>
</tr>
<tr>
<td>6725942</td>
<td>T3-W/HSK63 (Capable for UTS6530 use.)</td>
<td></td>
</tr>
<tr>
<td>6725943</td>
<td>T3-W/HSK80 (Capable for UTS10080 use.)</td>
<td></td>
</tr>
<tr>
<td>6725938</td>
<td>T3-W/HSK100</td>
<td></td>
</tr>
<tr>
<td>6725958</td>
<td>T3-W/UK30, CAT, BT</td>
<td></td>
</tr>
<tr>
<td>6725944</td>
<td>T3-W/UK40, CAT, BT</td>
<td></td>
</tr>
<tr>
<td>6725945</td>
<td>T3-W/UK50, CAT, BT</td>
<td></td>
</tr>
<tr>
<td>6725933</td>
<td>T3-W/25, ABS25</td>
<td></td>
</tr>
<tr>
<td>6725934</td>
<td>T3-W/32, ABS32, CAPTO C3</td>
<td></td>
</tr>
<tr>
<td>6725935</td>
<td>T3-W/40, ABS40, CAPTO C4</td>
<td></td>
</tr>
<tr>
<td>6725936</td>
<td>T3-W/50, ABS50, CAPTO C5</td>
<td></td>
</tr>
<tr>
<td>6725937</td>
<td>T3-W/63, ABS63, CAPTO C6</td>
<td></td>
</tr>
<tr>
<td>6726048</td>
<td>T3-W/SCA1</td>
<td></td>
</tr>
<tr>
<td>6726050</td>
<td>T3-W/SCA2</td>
<td></td>
</tr>
<tr>
<td>6725948</td>
<td>T3-W/WE1</td>
<td></td>
</tr>
<tr>
<td>6725949</td>
<td>T3-W/WE2</td>
<td></td>
</tr>
</tbody>
</table>

Cooling Plate

<table>
<thead>
<tr>
<th>SAP No.</th>
<th>Model</th>
<th>For depositing of shrunk out tools.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6726004</td>
<td>T3-Z/WZ</td>
<td></td>
</tr>
</tbody>
</table>
FKS Liquid Cooler (Sold Separately)

<table>
<thead>
<tr>
<th>SAP No.</th>
<th>Model</th>
<th>Dimension WxLxH (mm)</th>
<th>Air Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>5050874</td>
<td>FKS3400</td>
<td>W424 x L516 x H700</td>
<td>4 bar/58 psi</td>
</tr>
</tbody>
</table>

1. The liquid cooler is a separate unit for cooling chucks which have been heated up during the shrinking process. With the start-button the cycle cooling and drying runs automatically.

2. Please always use zetasol120/5 coolant.
   (1ℓ of of Zetasol Emulsion liquid concentrate which needs to be diluted to 1:4 ratio is included.)

Liquid Cooler Options (sold separately)

<table>
<thead>
<tr>
<th>FKS3400 Tool Holders</th>
<th>SAP No.</th>
<th>Model</th>
<th>Shank size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6773725</td>
<td>FKS03-HSK25/32</td>
<td>HSK-25 / 32</td>
</tr>
<tr>
<td></td>
<td>6773726</td>
<td>FKS03-HSK40/50</td>
<td>HSK-40 /50 / F63 / UTS5040</td>
</tr>
<tr>
<td></td>
<td>6773728</td>
<td>FKS03-SK30/40</td>
<td>SK 30 / 40, CAT 30 / 40, BT 30 / 40</td>
</tr>
</tbody>
</table>

1. For holding and correct positioning of the shrink chuck on the liquid cooler.
2. Other than listed above, Please contact NT TOOL for details.
SRK-HA1, SRK-HB2

Economy Type Heater

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>L</th>
<th>B</th>
<th>H</th>
<th>LT</th>
<th>Voltage</th>
<th>Watt</th>
<th>Ampere</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>3064 00000111</td>
<td>SRK-HA1</td>
<td>275</td>
<td>190</td>
<td>660</td>
<td>380</td>
<td>100V (Single phase)</td>
<td>1200W</td>
<td>12A</td>
<td>7.5</td>
</tr>
<tr>
<td>3064 00000121</td>
<td>SRK-HB2-200</td>
<td>275</td>
<td>190</td>
<td>660</td>
<td>416</td>
<td>200V (Single phase)</td>
<td>3000W</td>
<td>6A</td>
<td>7.5</td>
</tr>
<tr>
<td>3064 00000124</td>
<td>SRK-HB2-220</td>
<td>275</td>
<td>190</td>
<td>660</td>
<td>416</td>
<td>200V (Single phase)</td>
<td>3000W</td>
<td>6A</td>
<td>7.5</td>
</tr>
<tr>
<td>3064 00000125</td>
<td>SRK-HB2-230</td>
<td>275</td>
<td>190</td>
<td>660</td>
<td>416</td>
<td>230V (Single phase)</td>
<td>3000W</td>
<td>6A</td>
<td>7.5</td>
</tr>
</tbody>
</table>

Accessories

Power cord (3m), countdown timer and a pair of heat-resistant gloves are included. (Hot air distributor and holder support are sold separately.)

Not applicable for SR ※ 6A, SR ※ 8A and SRE.

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric × 0.03937
**SPN2-SRK-PS1**

Presetting gauge

---

**Metric measurement only.**

---

**Presetting bushing**

- **Model**: SPN2-SRK3-B1
  - d: 3
  - L: 10
  - H: 10 ~ 55

- **Model**: SPN2-SRK4-B1
  - d: 4
  - L: 12
  - H: 12 ~ 57

- **Model**: SPN2-SRK5-B1
  - d: 5
  - L: 15
  - H: 15 ~ 60

- **Model**: SPN2-SRK6-B1
  - d: 6
  - L: 26
  - H: 26 ~ 71

- **Model**: SPN2-SRK8-B1
  - d: 8
  - L: 26
  - H: 26 ~ 71

- **Model**: SPN2-SRK10-B1
  - d: 10
  - L: 32
  - H: 32 ~ 77

- **Model**: SPN2-SRK12-B1
  - d: 12
  - L: 37
  - H: 37 ~ 82

- **Model**: SPN2-SRK14-B1
  - d: 14
  - L: 37
  - H: 37 ~ 82

- **Model**: SPN2-SRK16-B1
  - d: 16
  - L: 40
  - H: 40 ~ 85

- **Model**: SPN2-SRK18-B1
  - d: 18
  - L: 40
  - H: 40 ~ 85

- **Model**: SPN2-SRK20-B1
  - d: 20
  - L: 42
  - H: 42 ~ 87

- **Model**: SPN2-SRK20-B2
  - d: 20
  - L: 55
  - H: 55 ~ 100

- **Model**: SPN2-SRK25-B1
  - d: 25
  - L: 48
  - H: 48 ~ 93

- **Model**: SPN2-SRK25-B2
  - d: 25
  - L: 65
  - H: 65 ~ 110

- **Model**: SPN2-SRK32-B1
  - d: 32
  - L: 51
  - H: 51 ~ 96

- **Model**: SPN2-SRK32-B2
  - d: 32
  - L: 75
  - H: 75 ~ 120

---

**Presetting ring**

- **Model**: SPN2-SRK-PR- φ d
  - φ d: 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 25, 32

Choose both presetting bushing and presetting ring according to shank dia.

---

**Related Equipment**

- BT
- CAT
- AHO
- HSK
- EEC
- HSK·T
- UTS
- Specialized
- Nut
- Bush & Clamping
- Did
- Blank
- Machining
- Tolerance
- Wrench

**Special / Custom Sizes on request**

---

**Inch to Metric (mm) → Inch × 25.4**

**Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937**
# ZM-1 / ZM-2

Zero Master / 3D Master (Digital Measuring Equipment Of Reference Position)

<table>
<thead>
<tr>
<th>Name</th>
<th>ZERO MASTER</th>
<th>3D MASTER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>ZM-1</td>
<td>ZM-2</td>
</tr>
<tr>
<td><strong>Probe</strong></td>
<td>With Short probe</td>
<td>With Long probe</td>
</tr>
<tr>
<td><strong>Code</strong></td>
<td>3900 10000001</td>
<td>3900 10000002</td>
</tr>
<tr>
<td><strong>L</strong></td>
<td>102mm</td>
<td>143mm</td>
</tr>
<tr>
<td><strong>Ls</strong></td>
<td>24.8mm</td>
<td>50mm</td>
</tr>
<tr>
<td><strong>B</strong></td>
<td>52mm</td>
<td>65mm</td>
</tr>
<tr>
<td><strong>φ d</strong></td>
<td>4mm</td>
<td>8mm</td>
</tr>
<tr>
<td><strong>Measurement accuracy</strong></td>
<td>Radial direction</td>
<td>±0.01mm</td>
</tr>
<tr>
<td></td>
<td>Axial direction</td>
<td>±0.01mm</td>
</tr>
<tr>
<td><strong>T/hable dimension of probe</strong></td>
<td>About 25mm</td>
<td>About 65mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>250g</td>
<td>660g</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>CR2032</td>
<td>CR2032</td>
</tr>
</tbody>
</table>

Long probe is sold separately. Metric measurement only.

## Application

- **Height measurement**
- **Width measurement**
- **Hole and spindle center measurement**
- **Diameter measurement**
- **Parallelism measurement**

### Ordering Example

ZERO MASTER with short probe 25 mm

**ZM-1**

### Accessories

<table>
<thead>
<tr>
<th>Model</th>
<th>Code</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZM-P25</td>
<td>3900 20000025</td>
<td>Short probe(25mm)</td>
</tr>
<tr>
<td>ZM-P65</td>
<td>3900 20000065</td>
<td>Long probe(65mm)</td>
</tr>
</tbody>
</table>

Inch to Metric (mm) → Inch × 25.4

Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937

Special / Custom Sizes on request
**OTP400, OTP600**

Contactless Tool Presetter

**Feature**

- Protect cutting edge by contactless measuring.
- Various cutting edge shapes can be measured.

**IC1**

![Diagram of OTP400, OTP600]

**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>OTP400-IC1</th>
<th>OTP600-IC1</th>
</tr>
</thead>
<tbody>
<tr>
<td>External dimensions</td>
<td>1420 × 450 × 1760 (D × W × H)</td>
<td>1420 × 450 × 1960 (D × W × H)</td>
</tr>
<tr>
<td>Weight</td>
<td>110kg</td>
<td>115kg</td>
</tr>
<tr>
<td>Power supply</td>
<td>85 ~ 265V AC, 50/60Hz</td>
<td>85 ~ 265V AC, 50/60Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>100VA and below</td>
<td>100VA and below</td>
</tr>
<tr>
<td>Air pressure</td>
<td>0.4 ~ 0.6MPa</td>
<td>0.4 ~ 0.6MPa</td>
</tr>
<tr>
<td>Measurement</td>
<td>X-axis: φ0 ~ 400mm</td>
<td>X-axis: φ0 ~ 400mm</td>
</tr>
<tr>
<td></td>
<td>Z-axis: 0 ~ 400mm</td>
<td>Z-axis: 0 ~ 600mm</td>
</tr>
<tr>
<td>Min. readable unit</td>
<td>X-axis: 0.001mm</td>
<td>X-axis: 0.001mm</td>
</tr>
<tr>
<td></td>
<td>Z-axis: 0.001mm</td>
<td>Z-axis: 0.001mm</td>
</tr>
<tr>
<td>Spindle size</td>
<td>Please use an adapter when using a holder other than NT50.</td>
<td>Please use an adapter when using a holder other than NT50.</td>
</tr>
<tr>
<td>Clamp method</td>
<td>Vacuum clamp</td>
<td>Vacuum clamp</td>
</tr>
<tr>
<td>Specifications of camera</td>
<td>488 × 468 pixel</td>
<td>488 × 468 pixel</td>
</tr>
<tr>
<td>Screen magnification ratio</td>
<td>12-fold</td>
<td>12-fold</td>
</tr>
<tr>
<td>Display size</td>
<td>6.5&quot;</td>
<td>6.5&quot;</td>
</tr>
<tr>
<td>Cutting edge measurement range</td>
<td>6.5mm × 6mm</td>
<td>6.5mm × 6mm</td>
</tr>
<tr>
<td>Menu manipulation method</td>
<td>Jog dial (knob button)</td>
<td>Jog dial (knob button)</td>
</tr>
<tr>
<td>Language selection</td>
<td>Japanese, English, German</td>
<td>Japanese, English, German</td>
</tr>
<tr>
<td>Accessories</td>
<td>Label printer, Label for printer, Adapter tray, Tool tray</td>
<td>Label printer, Label for printer, Adapter tray, Tool tray</td>
</tr>
</tbody>
</table>

Switchable between Inch and Metric display.

**Ordering Example**

**OTP400 - IC1**

IC1type

**Inch to Metric (mm) → Inch × 25.4**

**Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937**

Special / Custom Sizes on request

**Related Equipment**

- BT CAT
- AHD KBA E C
- HSK T
- UTS
- Specialized Tools
- Turnstone Wrench
- Shrink-Fit Systems
- Digital tool positioning systems
- Tool Presetter
- HSK Clamps
- 5C - Zero Setter
- Simplex Sizer
Select an adapter from the following types when using shanks other than NT50. The measuring range of the Z-axis is narrowed by adapters' thickness.

### Ordering Example

**OTP-NT50-NT30**

### For National taper shank

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>BT size</th>
<th>Loss in Z in mm *1</th>
</tr>
</thead>
<tbody>
<tr>
<td>4994 00500030</td>
<td>OTP-NT50-NT30</td>
<td>BT30</td>
<td>20</td>
</tr>
<tr>
<td>4994 00500040</td>
<td>OTP-NT50-NT40</td>
<td>BT40</td>
<td>20</td>
</tr>
</tbody>
</table>

- ● Built-in calibration edge.
- ※ Tool presetter with vacuum mechanism draws in a holder with drawing force in proportion to the area of the holder.

### For HSK shank

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>HSK size</th>
<th>Loss in Z in mm *1</th>
</tr>
</thead>
<tbody>
<tr>
<td>4994 00502032</td>
<td>OTP-NT50-HSK32A</td>
<td>HSK32A(C, E), HSK40F(B, D)</td>
<td>50</td>
</tr>
<tr>
<td>4994 00502040</td>
<td>OTP-NT50-HSK40A</td>
<td>HSK40A(C, E), HSK50F(B, D)</td>
<td>50</td>
</tr>
<tr>
<td>4994 00502050</td>
<td>OTP-NT50-HSK50A</td>
<td>HSK50A(C, E), HSK63F(B, D)</td>
<td>50</td>
</tr>
<tr>
<td>4994 00502063</td>
<td>OTP-NT50-HSK63A</td>
<td>HSK63A(C, E), HSK80F(B, D)</td>
<td>50</td>
</tr>
<tr>
<td>4994 00502080</td>
<td>OTP-NT50-HSK80A</td>
<td>HSK80A(C, E), HSK100F(B, D)</td>
<td>60</td>
</tr>
<tr>
<td>4994 00502100</td>
<td>OTP-NT50-HSK100A</td>
<td>HSK100A(C, E), HSK125F(B, D)</td>
<td>100</td>
</tr>
</tbody>
</table>

- ● Built-in calibration edge.
- ※ Measuring the tools without clamp function.

### For HSK shank with drawing-in mechanism

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>HSK size</th>
<th>Loss in Z in mm *1</th>
</tr>
</thead>
<tbody>
<tr>
<td>4994 00506032</td>
<td>OTP-NT50-HSK32A-M</td>
<td>HSK32A(C, E), HSK40F(B, D)</td>
<td>75</td>
</tr>
<tr>
<td>4994 00506040</td>
<td>OTP-NT50-HSK40A-M</td>
<td>HSK40A(C, E), HSK50F(B, D)</td>
<td>75</td>
</tr>
<tr>
<td>4994 00506050</td>
<td>OTP-NT50-HSK50A-M</td>
<td>HSK50A(C, E), HSK63F(B, D)</td>
<td>75</td>
</tr>
<tr>
<td>4994 00506063</td>
<td>OTP-NT50-HSK63A-M</td>
<td>HSK63A(C, E), HSK80F(B, D)</td>
<td>75</td>
</tr>
<tr>
<td>4994 00506080</td>
<td>OTP-NT50-HSK80A-M</td>
<td>HSK80A(C, E), HSK100F(B, D)</td>
<td>105</td>
</tr>
<tr>
<td>4994 00506100</td>
<td>OTP-NT50-HSK100A-M</td>
<td>HSK100A(C, E), HSK125F(B, D)</td>
<td>105</td>
</tr>
</tbody>
</table>

- ● Built-in calibration edge.
- ● Drawing-in mechanism for HSK shanks (Wrench-operated)
- ● Adapter may conveniently remain attached to the presetter spindle when clamping tools that hold cutters with/without drive key.

### For UTS shank

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>UTS size</th>
<th>Loss in Z in mm *1</th>
</tr>
</thead>
<tbody>
<tr>
<td>4994 00505040</td>
<td>OTP-NT50-CA-KM40</td>
<td>UTS 5040</td>
<td>60</td>
</tr>
<tr>
<td>4994 00505050</td>
<td>OTP-NT50-CA-KM50</td>
<td>UTS 6350</td>
<td>60</td>
</tr>
<tr>
<td>4994 00505080</td>
<td>OTP-NT50-CA-KM80</td>
<td>UTS 10080</td>
<td>60</td>
</tr>
</tbody>
</table>

- ● Drawing-in mechanism for HSK shanks (Wrench-operated)
- ● No calibration edge.
- ● Adapter may conveniently remain attached to the presetter spindle when clamping tools that hold cutters.

※ When installing a holder to an adapter, wrench operation is hard. Please make sure end face of the holder is contacting to the adapter.

*1: Z-axis meas. range reduced value (mm)
For Capto shank

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>Capto size</th>
<th>Loss in Z in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OTP-NT50-ADC3</td>
<td>Capto C3</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>OTP-NT50-ADC4</td>
<td>Capto C4</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>OTP-NT50-ADC5</td>
<td>Capto C5</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>OTP-NT50-ADC6</td>
<td>Capto C6</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>OTP-NT50-ADC8</td>
<td>Capto C8</td>
<td>70</td>
</tr>
</tbody>
</table>

- Manual tool clamping with clamping screw.
- With axial tool clamping.
- Without calibration edges.

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>Capto size</th>
<th>Loss in Z in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OTP-NT50-ADC3-E</td>
<td>Capto C3</td>
<td>130</td>
</tr>
<tr>
<td></td>
<td>OTP-NT50-ADC4-E</td>
<td>Capto C4</td>
<td>140</td>
</tr>
<tr>
<td></td>
<td>OTP-NT50-ADC5-E</td>
<td>Capto C5</td>
<td>95</td>
</tr>
<tr>
<td></td>
<td>OTP-NT50-ADC6-E</td>
<td>Capto C6</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>OTP-NT50-ADC8-E</td>
<td>Capto C8</td>
<td>140</td>
</tr>
</tbody>
</table>

- Integrated calibration edges for size C3, C4.
- Manual tool clamping about ¾ turn.
- Comfortable usage since adapter must not be taken out of spindle in order to clamp tool.

Label printer (IC1 standard acc.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>4994 00510005</td>
<td>OTP-PRINT-DY</td>
</tr>
</tbody>
</table>

Cartidge-free thermal printer for printing out measured values, annotated with tool numbers, cutter numbers, adapters applied, and other information.

Label roll

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>4994 00510006</td>
<td>OTP-LABEL-DY</td>
</tr>
</tbody>
</table>

260 Labels (size 89 x 36mm) per roll.

Cleaning paste

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>4994 00510008</td>
<td>OTP-PUTTY</td>
</tr>
</tbody>
</table>

Cleanses the cutting edge for precise measurement.

Dust cover

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>4994 00510007</td>
<td>OTP-PROTECTION</td>
</tr>
</tbody>
</table>

Dust cover for IC1 of OTP400/OTP600 series PVC-made, clear & colorless.

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937

Special / Custom Sizes on request
AOTP
Contactless Tool Presetter

Specifications of AOTP

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>Retention Stud</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BT</td>
</tr>
<tr>
<td>4940 00050011</td>
<td>AOTP-500-1A</td>
<td>PSB-7, PSB-8, PSB-14 PSB-19, PSB-7-OH PSB-8-OH</td>
</tr>
<tr>
<td>4940 00050012</td>
<td>AOTP-500-1B</td>
<td>PSB-20</td>
</tr>
<tr>
<td>4940 00050013</td>
<td>AOTP-500-1C</td>
<td>PSB-17</td>
</tr>
<tr>
<td>4940 00050024</td>
<td>AOTP-500-2D</td>
<td>PSB-24</td>
</tr>
<tr>
<td>4940 00050025</td>
<td>AOTP-500-2E</td>
<td>PSB-50P</td>
</tr>
</tbody>
</table>

1. Please select a model based on the retention stud type.
2. Retention stud not shown in the above chart can be also used.
   Please contact NT Tool Corporation for details.

External dimensions: 1730mm x 600mm x 1780mm (DxWxH)
Weight: 280kg
Power supply: 100 ~ 240V AC, 50/60Hz
Power consumption: 300W
Air pressure: 0.4 ~ 0.6Mpa
Measurement:
- X-axis ø400mm
- Z-axis 500mm
Minimum reading: 0.001mm

Spindle Size:
1. When using an adapter, Z-axis measurement area will be narrower due to the height of the adapter.
2. Manual spindle rotation. Motor drive can be added as an option.

Clamp method: Mechanical clamp
Specifications of camera: 1.3 million pixel CCD monochrome
Screen magnification ratio: 30× Magnification
Display size: 23.6"
Cutting edge measurement range: 9.0 x 6.5mm
Menu manipulation method: Touch panel, mouse, keyboard
Language selection: English, Japanese, Korean
Accessories: Adapter tray

1. Switchable between Inch and Metric display.
2. Label printer is sold separately.
3. Specifications and design of the product are subject to change without notice.

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937

Special / Custom Sizes on request
**Unit Option**

<table>
<thead>
<tr>
<th></th>
<th>Standard</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spindle rotation</td>
<td>Manual</td>
<td>Automatic (Motor driven)</td>
</tr>
<tr>
<td>Cutting edge height adjustment</td>
<td>—</td>
<td>Height adjustment handle can be added to the front.</td>
</tr>
</tbody>
</table>

In addition to those options, customization of software and body is possible upon request. Please contact NT TOOL for details.

**Adapter (Sold Separately)**

To measure tool holders other than BT50 shank size, adapters are necessary. Please contact NT TOOL for details.

**For BT, CAT and SK**

For BT 30 and CAT 30
For BT40, CAT40 and SK40
※ Please designate the type of retention stud in use.

**For HSK**

HSK32, HSK40, HSK50, HSK63, HSK100

**For UTS**

UTS6350, UTS10080

**Accessories**

- **Label printer**
  - Model: AOTP-PRINT-KG
  - Sold Separately.
  - Thermal printer. No need for cartridges.
  - Measured value can be printed.
  - Tool name, model, comment registered beforehand can be printed together.

- **Label for printer**
  - Model: AOTP-PRINT-LA
  - Sold Separately.
  - Approx. 70 labels.
  - Label size: 100 X 24mm

- **Cleaning putty**
  - Model: AOTP-DUST-C
  - Included with AOTP.
  - To clean the cutting edge for accurate measurement.

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937

Special / Custom Sizes on request
**Basic Function**

1. **Camera (Captured Image)**
   - Actual field of view: 9.0mm × 6.5mm
   - 30x Magnification
   - 35x Digital Zoom

2. **Coordinates**
   - X=Radius/Diameter, Z=Height, C=Rotational Position.
   - *X and Z value indicates position of the camera center when not measuring.

3. **Magic Eye**
   - Cutting edge detection

4. **Break**
   - Spindle can be stopped at any location.

5. **Index Break**
   - Spindle can be pin-locked at 90 degrees.

6. **Clamp / Unclamp**

7. **Spindle Control**
   - Forward / reverse to the next / previous cutting edge.
   - : Free the motor.

8. **Operation Order Tab**

9. **Operation Field**

10. **Message Field**

The software can be customized upon request. Please contact NT Tool Corporation.

---

"Magic Eye" shows the positions of cutting edges. Target cutting edge is always clear even with endmills and facemill cutters.

**Beginning of measurement**

The ring turns green in accordance with cutting tool rotation. Numbers are assigned on the detected cutting edges.

**Actual cutting edges**

**Magic eye**

**Detection of cutting edges completed.**

Shows position of cutting edges in real-time.

---

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937
Measurement function

Runout measurement of the cutting edge
Capture the area where you want to measure. Then, turn the spindle 360 degrees. The measurement result against target value can be shown in ○× along with sound effects. The result can be also shown as a graph.

Target Bar
Easy diameter adjustment for boring bars with presetting target shown on the screen.

Measuring Afterimage
The cutting tool's profile is plotted by rotating the spindle 360 degrees.

Measuring Step Drill
Each step can be measured separately.

Measuring Radius
Nose-radius can be measured by based on contour of cutting edge.

Real image of cutting edge
Wearing and chipping on cutting edge can be inspected.
NTP-300A, NTP-400

Tool Presetter

- One presetter can measure various kinds of shanks with taper reduction parts.

**NTP - 300A**

- Metric only

**NTP - 400**

- Metric only

---

**Inch to Metric (mm) → Inch × 25.4**

**Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937**
## Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>NTP-300A</th>
<th>NTP-400</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measurement range</strong></td>
<td>X axis (Tool diameter) / Z axis (Tool length)</td>
<td>D=0 ~ φ300mm / L=50 ~ 500mm</td>
</tr>
<tr>
<td><strong>Min. readable unit</strong></td>
<td>X-axis</td>
<td>Digital display φ0.002mm (Diameter) 0.001mm (Radius)</td>
</tr>
<tr>
<td></td>
<td>Z-axis</td>
<td>Digital display 0.005mm</td>
</tr>
<tr>
<td><strong>Dial gauge</strong></td>
<td></td>
<td>X-axis 0.001mm / Z-axis 0.01mm</td>
</tr>
<tr>
<td><strong>Spindle shank</strong></td>
<td></td>
<td>BT30 ~ BT50 / HSK32 ~ HSK100 / UTS5040 ~ UTS10080 (Special)</td>
</tr>
<tr>
<td><strong>Master gauge</strong></td>
<td></td>
<td>Including 150mm as standard.</td>
</tr>
<tr>
<td><strong>Column movement method</strong></td>
<td>Handel (Manual)</td>
<td>Lever (Moter drive)</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td></td>
<td>AC100V±10% 50/60Hz (If voltage exceeds AC 100V, please advise when ordering.)</td>
</tr>
<tr>
<td><strong>Pneumatic supply</strong></td>
<td>For auto tool lock</td>
<td>0.4 ~ 0.7MPa</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td></td>
<td>350kg / 400kg</td>
</tr>
<tr>
<td><strong>Standard accessories</strong></td>
<td>Wrench set, Taper cleaner, Cover set, Lamp, Operating manual, Pedestal, Precision table, Spanner</td>
<td></td>
</tr>
</tbody>
</table>

- **Digital display**
  - A : Standard
  - B : with RS232C

- **Retention stud**
  - MASI
  - MASII
  - Others

When ordering others, please specify.

### NTP-300A

**Ordering Example**

**NTP-300A - A - BT40 - 2**

- Digital display A type
- Holder Support
- Retention stud MAS II

### NTP-400

**Ordering Example**

**NTP-400 - B - BT50 - 1**

- Digital display B type
- Holder Support
- Retention stud MAS I

---

**Inch to Metric (mm) → Inch × 25.4**  
**Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937**
**SPN1-HSK**

HSK Clamper

<table>
<thead>
<tr>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Easy to clamp holder as just insert HSK (A, C, or T) shank and rotate knob 90 degrees.</td>
</tr>
<tr>
<td>2. Tool length measurement is possible.</td>
</tr>
</tbody>
</table>

### Set

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>5580 00001040</td>
<td>SPN1 - HSK40A</td>
</tr>
<tr>
<td>5580 00001050</td>
<td>SPN1 - HSK50A</td>
</tr>
<tr>
<td>5580 00001063</td>
<td>SPN1 - HSK63A</td>
</tr>
<tr>
<td>5580 00001100</td>
<td>SPN1 - HSK100A</td>
</tr>
</tbody>
</table>

### Holder support only

<table>
<thead>
<tr>
<th>Model</th>
<th>Code</th>
<th>D1</th>
<th>D2</th>
<th>D3</th>
<th>H1</th>
<th>A1</th>
<th>A2</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH - HSK40A</td>
<td>5584 00000040</td>
<td>80</td>
<td>47</td>
<td>54</td>
<td>127</td>
<td>65</td>
<td>3-M6</td>
</tr>
<tr>
<td>PH - HSK50A</td>
<td>5584 00000050</td>
<td>80</td>
<td>47</td>
<td>54</td>
<td>127</td>
<td>65</td>
<td>3-M6</td>
</tr>
<tr>
<td>PH - HSK63A</td>
<td>5584 00000063</td>
<td>118</td>
<td>60</td>
<td>85</td>
<td>125</td>
<td>102</td>
<td>3-M8</td>
</tr>
<tr>
<td>PH - HSK100A</td>
<td>5584 00000100</td>
<td>118</td>
<td>60</td>
<td>85</td>
<td>145</td>
<td>102</td>
<td>3-M8</td>
</tr>
</tbody>
</table>

**Ordering Example**

**SPN1 - HSK63A**

Base PBN-1  Shank size

**Ordering Example**

**PH - HSK63A**

Shank size
HCL

HSK Clamper

Application / Feature
1. Best suited for tightening milling chucks or collet chucks.
2. All types of HSK(A-F, and T and UTS) can be clamped.
3. With ADS adaptors, various different shanks can be clamped.
4. Tool holder can be clamped by turning the clamp lever only. The clamp lever can be turned in either direction.
5. ABS resins will prevent damages to taper or flange face of HSK/UTS shank.

Body

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>Shank size</th>
<th>D1</th>
<th>H</th>
<th>D2</th>
<th>D3</th>
<th>W</th>
<th>M</th>
<th>kg</th>
<th>Adapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>5590 06300000</td>
<td>HCL -63</td>
<td>HSK63, UTS6350</td>
<td>98</td>
<td>162</td>
<td>131</td>
<td>115</td>
<td>10</td>
<td>9 (For M8)</td>
<td>4.6</td>
<td>ADS-63 **</td>
</tr>
<tr>
<td>5590 10000000</td>
<td>HCL -100</td>
<td>HSK100, UTS10080</td>
<td>135</td>
<td>162</td>
<td>168</td>
<td>152</td>
<td>10</td>
<td>9 (For M8)</td>
<td>7.0</td>
<td>ADS-100 **</td>
</tr>
</tbody>
</table>

※ Do not use for measuring tool presetting length.
※ Fixing bolts (4pcs) for installing to surface plate or work table are NOT inclued.

Adapter

<table>
<thead>
<tr>
<th>Model</th>
<th>Code</th>
<th>Shank size</th>
<th>D4</th>
<th>L</th>
<th>kg</th>
<th>Body</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADS -6325</td>
<td>5590 06325000</td>
<td>HSK25</td>
<td>63</td>
<td>24.2</td>
<td>0.5</td>
<td>HCL-63</td>
</tr>
<tr>
<td>ADS -6332</td>
<td>5590 06332000</td>
<td>HSK32</td>
<td>63</td>
<td>24.2</td>
<td>0.4</td>
<td>HCL-63</td>
</tr>
<tr>
<td>ADS -6340</td>
<td>5590 06340000</td>
<td>HSK40</td>
<td>63</td>
<td>24.2</td>
<td>0.3</td>
<td>HCL-63</td>
</tr>
<tr>
<td>ADS -6350</td>
<td>5590 06350000</td>
<td>HSK50, UTS5040</td>
<td>63</td>
<td>24.2</td>
<td>0.2</td>
<td>HCL-63</td>
</tr>
<tr>
<td>ADS -10063</td>
<td>5590 10063000</td>
<td>HSK63, UTS6350</td>
<td>100</td>
<td>24.2</td>
<td>0.9</td>
<td>HCL-100</td>
</tr>
<tr>
<td>ADS -10080</td>
<td>5590 10080000</td>
<td>HSK80</td>
<td>100</td>
<td>24.2</td>
<td>0.6</td>
<td>HCL-100</td>
</tr>
</tbody>
</table>

Ordering Example

**HCL - 63**

Shank size

Ordering Example

**ADS - 63 50**

Body size  Shank size

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937
SPZ-2
"R" Zero Setter

Feature
1. Less than 3 μm runout accuracy at 200mm (HSK, UTS)
2. Rotary holder support for BT, HSK, UTS.
3. Holder pull-in mechanism.

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>Holder support</th>
<th>D</th>
<th>H</th>
<th>H1</th>
<th>H2</th>
<th>kg</th>
<th>Retention stud</th>
</tr>
</thead>
<tbody>
<tr>
<td>3030 0003011</td>
<td>SPZ-2 - NT30-1</td>
<td>NT30</td>
<td>118</td>
<td>660</td>
<td>450</td>
<td>90</td>
<td>39</td>
<td>BT:MAS I, MAS II</td>
</tr>
<tr>
<td>3030 0004011</td>
<td>SPZ-2 - NT40-1</td>
<td>NT40</td>
<td>118</td>
<td>660</td>
<td>450</td>
<td>90</td>
<td>39</td>
<td>BT:MAS I, MAS II</td>
</tr>
<tr>
<td>3030 0005011</td>
<td>SPZ-2 - NT50-1</td>
<td>NT50</td>
<td>158</td>
<td>710</td>
<td>500</td>
<td>120</td>
<td>46</td>
<td>BT:MAS I, MAS II</td>
</tr>
<tr>
<td>3030 0003012</td>
<td>SPZ-2 - NT30-2</td>
<td>NT30</td>
<td>118</td>
<td>660</td>
<td>450</td>
<td>90</td>
<td>39</td>
<td>BT:JIS SK:DIN</td>
</tr>
<tr>
<td>3030 0004012</td>
<td>SPZ-2 - NT40-2</td>
<td>NT40</td>
<td>118</td>
<td>660</td>
<td>450</td>
<td>90</td>
<td>39</td>
<td>BT:JIS SK:DIN</td>
</tr>
<tr>
<td>3030 0005012</td>
<td>SPZ-2 - NT50-2</td>
<td>NT50</td>
<td>158</td>
<td>710</td>
<td>500</td>
<td>120</td>
<td>46</td>
<td>BT:JIS SK:DIN</td>
</tr>
<tr>
<td>3030 1000410</td>
<td>SPZ-2 - HSK40</td>
<td>HSK40A, HSK40C</td>
<td>118</td>
<td>660</td>
<td>450</td>
<td>90</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>3030 1000510</td>
<td>SPZ-2 - HSK50</td>
<td>HSK50A, HSK50C</td>
<td>118</td>
<td>660</td>
<td>450</td>
<td>90</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>3030 10006310</td>
<td>SPZ-2 - HSK63</td>
<td>HSK63A, HSK63C</td>
<td>118</td>
<td>660</td>
<td>450</td>
<td>90</td>
<td>39</td>
<td></td>
</tr>
<tr>
<td>3030 10010010</td>
<td>SPZ-2 - HSK100</td>
<td>HSK100A, HSK100C</td>
<td>158</td>
<td>710</td>
<td>500</td>
<td>120</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>3030 20635010</td>
<td>SPZ-2 - UTS6350</td>
<td>UTS6350, (HS63)</td>
<td>118</td>
<td>660</td>
<td>450</td>
<td>90</td>
<td>39</td>
<td></td>
</tr>
<tr>
<td>3030 21008010</td>
<td>SPZ-2 - UTS10080</td>
<td>UTS10080, (HS100)</td>
<td>158</td>
<td>710</td>
<td>500</td>
<td>120</td>
<td>48</td>
<td></td>
</tr>
</tbody>
</table>

※ Master shank is sold separately.
※ Retention stud with 90 degree pull-in angle (the angle of the part hooked by jaw) is not capable.
※ Metric measurement only.

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937

Ordering Example
SPZ-2 - NT30 - 1

Holder Support
SPHV-3
Simple Setter


※ A suitable master arbor (GL=150) is included.
※ A longer master arbor (GL=300) is sold separately.
※ Holder support can be exchanged.
※ Holder support can not rotate.
※ Metric measurement only.

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>Taper size</th>
<th>Measuring range</th>
<th>Min readable unit</th>
<th>Applicable holder support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2600 30000030</td>
<td>SPHV-3 -30</td>
<td>NT30</td>
<td>X-axis Φ0 ~ 240 Z-axis 75 ~ 445 Z height measurement 95 ~ 465 Z diameter measurement</td>
<td>0.01</td>
<td>NTSP-30</td>
</tr>
<tr>
<td>2600 30000040</td>
<td>SPHV-3 -40</td>
<td>NT40</td>
<td>X-axis Φ0 ~ 240 Z-axis 75 ~ 445 Z height measurement 95 ~ 465 Z diameter measurement</td>
<td>0.01</td>
<td>NTSP-40</td>
</tr>
<tr>
<td>2600 30000050</td>
<td>SPHV-3 -50</td>
<td>NT50</td>
<td>X-axis Φ0 ~ 240 Z-axis 75 ~ 445 Z height measurement 95 ~ 465 Z diameter measurement</td>
<td>0.01</td>
<td>NTSP-50</td>
</tr>
</tbody>
</table>

Ordering Example

SPHV-3 - 30
Support size

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937

Special / Custom Sizes on request
Expensive all purpose tool presetters are widely available in the market. However, customers have been spending a lot of time and money to make presetters for projection length of cutting tool.

NT’s simple setter provides preset gauge suitable for customers needs.

**Application**
- Tool presetting for the use on machining centers and dedicated machines.

**Feature**
- Wide variety of types and sizes
- Quick-to-built-up preset gauge
<table>
<thead>
<tr>
<th>For NC Toolings</th>
<th>For NT stub holders</th>
<th>For tap adapters</th>
<th>For Tr. shank</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gauge</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height gauge</td>
<td>PG-1</td>
<td>PG-1</td>
<td></td>
</tr>
<tr>
<td>conventional</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **Gauge stand** |                     |                 |               |
| PS-H4           | PS-○                |                 |               |

| **Holder support** |                     |                 |               |
| PH-NT○           |                     | PH-○K          | PH-KH○○A      |
| PH-WE○           |                     |                 | PH-Tr○        |

| **Base**         |                     |                 |               |
| PBN-1○           | PBN-2○              | PBK-1○          | PBK-2○        |
| PBT-1○           | PBT-2○              |                 |               |

| **Set-up**       |                     |                 |               |
| SPN1-NT○         |                     | SPK1○          | SPW1-WE○      |
| SPN2-NT○ +       | Existing Height    |                 |               |
| Break-down       | PG-1                | PG-1            | PG-1          |
| Break-down       | PS-NNT             | PS-○           | PS-○          |
| PBN-1○           | 1pc each            | 1pc each        | 1pc each      |

| SPK2-K○          |                     | SPW2-WE○       | SPT2-Tr○      |
| SPN2-NT○         |                     |                 |               |
| Break-down       | PS-H4               | PG-1            | PG-1          |
| Break-down       | PH-NT               | PS-○           | PS-○          |
| PBN-2○           | 1pc each            | 3pcs each       | 3pcs each     |

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937
Simple Setter For NC Tooling

Product code for each holder support is as follows. NT 30=1, NT 35=2, NT 40=4, NT 45=5 and NT 50=6.

Ordering Example

**SPN1** - NT40 - 227
Base PBN-1  Holder Support  Gauge stand height L1

Code
0090 01 1 0 4 227
Base PBN-1  Holder Support

**SPN2** - NT40 + PS-H4
Base PBN-2  Holder Support  Gauge stand

Code
0090 01 2 0 4 00 0
Base PBN-2  Holder Support

Product code for each holder support is as follows. NT 30=1, NT 35=2, NT 40=4, NT 45=5 and NT 50=6.

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937
1. When ordering special gauge stand, please let us know base dimensions $A \times B \times C$.

2. PS-H4 is used for Mitutoyo height gauge HD-30AX (192-613-10) or HW-30 (192-130).

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>L</th>
<th>L1</th>
<th>SMAX</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>0091 06000001</td>
<td>PG-1</td>
<td>128</td>
<td>113</td>
<td>50</td>
<td>0.4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>L</th>
<th>L1</th>
</tr>
</thead>
<tbody>
<tr>
<td>0091 01000001</td>
<td>PS -1</td>
<td>100</td>
<td>77</td>
</tr>
<tr>
<td>0091 01000002</td>
<td>PS -2</td>
<td>150</td>
<td>127</td>
</tr>
<tr>
<td>0091 01000003</td>
<td>PS -3</td>
<td>200</td>
<td>177</td>
</tr>
<tr>
<td>0091 01000004</td>
<td>PS -4</td>
<td>250</td>
<td>227</td>
</tr>
<tr>
<td>0091 01000005</td>
<td>PS -5</td>
<td>300</td>
<td>277</td>
</tr>
</tbody>
</table>

Inch to Metric (mm) $\rightarrow$ Inch $\times$ 25.4
Metric (mm) to Inch $\rightarrow$ Metric $\div$ 25.4 or Metric $\times$ 0.03937

1. When ordering special gauge stand, please let us know base dimensions $A \times B \times C$.

2. PS-H4 is used for Mitutoyo height gauge HD-30AX (192-613-10) or HW-30 (192-130).
## Holder support  PH-NT

To set CAT or SK shank holder, remove one of the stopper keys on the holder support PH-NT.

### Table: Shank sizes and dimensions

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>Shank size</th>
<th>D</th>
<th>D1</th>
<th>D2</th>
<th>L</th>
<th>L1</th>
<th>L2</th>
<th>F</th>
<th>b</th>
<th>d1</th>
<th>d2</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>0091 02000030</td>
<td>PH -NT30</td>
<td>BT30</td>
<td>CAT30</td>
<td>SK30</td>
<td>31.75</td>
<td>48</td>
<td>74</td>
<td>45</td>
<td>20</td>
<td>52</td>
<td>59</td>
<td>15.7</td>
<td>7</td>
</tr>
<tr>
<td>0091 02000035</td>
<td>PH -NT35</td>
<td>BT35</td>
<td>—</td>
<td>—</td>
<td>38.1</td>
<td>48</td>
<td>74</td>
<td>50</td>
<td>20</td>
<td>57</td>
<td>59</td>
<td>13.8</td>
<td>7</td>
</tr>
<tr>
<td>0091 02000040</td>
<td>PH -NT40</td>
<td>BT40</td>
<td>CAT40</td>
<td>SK40</td>
<td>44.45</td>
<td>54</td>
<td>80</td>
<td>55</td>
<td>20</td>
<td>62</td>
<td>65</td>
<td>15.7</td>
<td>7</td>
</tr>
<tr>
<td>0091 02000045</td>
<td>PH -NT45</td>
<td>BT45</td>
<td>—</td>
<td>SK45</td>
<td>57.15</td>
<td>68</td>
<td>100</td>
<td>75</td>
<td>20</td>
<td>85</td>
<td>81</td>
<td>18.9</td>
<td>9</td>
</tr>
<tr>
<td>0091 02000050</td>
<td>PH -NT50</td>
<td>BT50</td>
<td>CAT50</td>
<td>SK50</td>
<td>69.85</td>
<td>78</td>
<td>110</td>
<td>90</td>
<td>20</td>
<td>100</td>
<td>92</td>
<td>25.3</td>
<td>9</td>
</tr>
</tbody>
</table>

### Diagram:

- 7/24 taper
- Setting datum plane
- 3-d1, d2 counter boring

---

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937

---

Special / Custom Sizes on request

---

Related Equipment:
- BT
- CAT
- AHO
- HSK·A/E/F/C
- HSK·T
- UTS
- Specialized Machine

Bush & Chamfering Drill

Spanner Head
Torque Wrench

Special / Custom Sizes on request

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937
Base PBN

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>Type</th>
<th>φF</th>
<th>φD/0.2</th>
<th>G</th>
<th>Holder support</th>
<th>Gauge stand</th>
</tr>
</thead>
<tbody>
<tr>
<td>0091 07000130</td>
<td>PBN -1-30</td>
<td>1</td>
<td>59</td>
<td>48</td>
<td>M6</td>
<td>PH-NT30</td>
<td>PS-1 ~ PS-5</td>
</tr>
<tr>
<td>0091 07000230</td>
<td>PBN -2-30</td>
<td>2</td>
<td>59</td>
<td>48</td>
<td>M6</td>
<td>PH-NT30</td>
<td>PS-1 ~ PS-5</td>
</tr>
<tr>
<td>0091 07000135</td>
<td>PBN -1-35</td>
<td>1</td>
<td>59</td>
<td>48</td>
<td>M6</td>
<td>PH-NT35</td>
<td>PS-1 ~ PS-5</td>
</tr>
<tr>
<td>0091 07000235</td>
<td>PBN -2-35</td>
<td>2</td>
<td>59</td>
<td>48</td>
<td>M6</td>
<td>PH-NT35</td>
<td>PS-1 ~ PS-5</td>
</tr>
<tr>
<td>0091 07000140</td>
<td>PBN -1-40</td>
<td>1</td>
<td>65</td>
<td>54</td>
<td>M6</td>
<td>PH-NT40</td>
<td>PS-1 ~ PS-5</td>
</tr>
<tr>
<td>0091 07000240</td>
<td>PBN -2-40</td>
<td>2</td>
<td>65</td>
<td>54</td>
<td>M6</td>
<td>PH-NT40</td>
<td>PS-1 ~ PS-5</td>
</tr>
<tr>
<td>0091 07000145</td>
<td>PBN -1-45</td>
<td>1</td>
<td>81</td>
<td>68</td>
<td>M8</td>
<td>PH-NT45</td>
<td>PS-1 ~ PS-5</td>
</tr>
<tr>
<td>0091 07000245</td>
<td>PBN -2-45</td>
<td>2</td>
<td>81</td>
<td>68</td>
<td>M8</td>
<td>PH-NT45</td>
<td>PS-1 ~ PS-5</td>
</tr>
<tr>
<td>0091 07000150</td>
<td>PBN -1-50</td>
<td>1</td>
<td>92</td>
<td>78</td>
<td>M8</td>
<td>PH-NT50</td>
<td>PS-1 ~ PS-5</td>
</tr>
<tr>
<td>0091 07000250</td>
<td>PBN -2-50</td>
<td>2</td>
<td>92</td>
<td>78</td>
<td>M8</td>
<td>PH-NT50</td>
<td>PS-1 ~ PS-5</td>
</tr>
</tbody>
</table>

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937
**SPK-K**

Simple Setter For Kd

<table>
<thead>
<tr>
<th>Gauge</th>
<th>Gauge stand</th>
<th>Holder support</th>
<th>Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG-1</td>
<td>PS-○</td>
<td>PH-○ K</td>
<td>PBK-1○</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>PBK-2○</td>
</tr>
</tbody>
</table>

**Ordering Example**

**SPK1** - K16 - 77

- Base PBK-1
- Holder Support
- Gauge stand height L1

**Code**

0090 02 1 16 077

- Gauge stand height L1
- Base PBK-1
- Holder Support

---

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937

Special / Custom Sizes on request
**PH-K Holder support**

- **Code**: 0091 06000001
- **Model**: PH-K14R2
- **D**: 14
- **D1**: 23
- **D2**: 55
- **D3**: 24
- **D4**: 25
- **L**: 79.5
- **L1**: 30
- **F**: 45
- **S**: 45
- **kg**: 1.2

- **Code**: 0091 06000016
- **Model**: PH-K16
- **D**: 16
- **D1**: 25
- **D2**: 55
- **D3**: 24
- **D4**: 25
- **L**: 88
- **L1**: 30
- **F**: 45
- **S**: 45
- **kg**: 1.3

- **Code**: 0091 06000019
- **Model**: PH-K19
- **D**: 19
- **D1**: 28
- **D2**: 55
- **D3**: 24
- **D4**: 25
- **L**: 98
- **L1**: 30
- **F**: 45
- **S**: 45
- **kg**: 1.5

- **Code**: 0091 06000020
- **Model**: PH-K20
- **D**: 20
- **D1**: 28
- **D2**: 55
- **D3**: 24
- **D4**: 25
- **L**: 98
- **L1**: 30
- **F**: 45
- **S**: 45
- **kg**: 1.5

- **Code**: 0091 06000022
- **Model**: PH-K22
- **D**: 22
- **D1**: 32
- **D2**: 55
- **D3**: 24
- **D4**: 25
- **L**: 104
- **L1**: 30
- **F**: 45
- **S**: 45
- **kg**: 1.6

- **Code**: 0091 06000024
- **Model**: PH-K24
- **D**: 24
- **D1**: 32
- **D2**: 55
- **D3**: 24
- **D4**: 25
- **L**: 104
- **L1**: 30
- **F**: 45
- **S**: 45
- **kg**: 1.6

- **Code**: 0091 06000025
- **Model**: PH-K25
- **D**: 25
- **D1**: 35
- **D2**: 55
- **D3**: 24
- **D4**: 25
- **L**: 118
- **L1**: 30
- **F**: 45
- **S**: 45
- **kg**: 1.8

- **Code**: 0091 06000026
- **Model**: PH-K26
- **D**: 26
- **D1**: 35
- **D2**: 55
- **D3**: 24
- **D4**: 25
- **L**: 118
- **L1**: 30
- **F**: 45
- **S**: 45
- **kg**: 1.8

- **Code**: 0091 06000028
- **Model**: PH-K28
- **D**: 28
- **D1**: 38
- **D2**: 55
- **D3**: 24
- **D4**: 25
- **L**: 118
- **L1**: 30
- **F**: 45
- **S**: 45
- **kg**: 1.8

- **Code**: 0091 06000030
- **Model**: PH-K30
- **D**: 30
- **D1**: 40
- **D2**: 55
- **D3**: 24
- **D4**: 25
- **L**: 118
- **L1**: 30
- **F**: 45
- **S**: 45
- **kg**: 1.9

- **Code**: 0091 06000032
- **Model**: PH-K32
- **D**: 32
- **D1**: 42
- **D2**: 55
- **D3**: 24
- **D4**: 25
- **L**: 137
- **L1**: 30
- **F**: 45
- **S**: 45
- **kg**: 1.9

- **Code**: 0091 06000035
- **Model**: PH-K35
- **D**: 35
- **D1**: 45
- **D2**: 55
- **D3**: 24
- **D4**: 25
- **L**: 137
- **L1**: 30
- **F**: 45
- **S**: 45
- **kg**: 1.9

- **Code**: 0091 06000036
- **Model**: PH-K36
- **D**: 36
- **D1**: 45
- **D2**: 55
- **D3**: 24
- **D4**: 25
- **L**: 137
- **L1**: 30
- **F**: 45
- **S**: 45
- **kg**: 1.8

- **Code**: 0091 06000048
- **Model**: PH-K48
- **D**: 48
- **D1**: 63
- **D2**: 65
- **D3**: 24
- **D4**: 25
- **L**: 158.5
- **L1**: 30
- **F**: 261
- **S**: 45
- **kg**: 45

---

**Related Equipment**

- BT
- CAT
- AHO
- HSK·A/E/F/C
- HSK·T
- UTS
- Specialized Equip.
- Bush & Chamfering
- Drill
- Spanner Head
- Torque Wrench
- Shrink Fit System
- Digital measuring equipment
- Tool Presetter
- HSK Clamper
- "R" Zero Setter
- Simple Setter

---

**Special / Custom Sizes on request**

**Inch to Metric (mm) → Inch × 25.4**

**Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937**

---

**PH-Guage**

![PH-Guage](image1.png)

**PS-Guage stand**

![PS-Guage stand](image2.png)
<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>Type</th>
<th>Holder support</th>
<th>Gauge stand</th>
</tr>
</thead>
<tbody>
<tr>
<td>0091 07100145</td>
<td>PBK -1-45</td>
<td>1</td>
<td>PH-K14R2 ~ PH-K48</td>
<td>PS-1 ~ PS-5</td>
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<tr>
<td>0091 07100245</td>
<td>PBK -2-45</td>
<td>2</td>
<td>PH-K14R2 ~ PH-K48</td>
<td>PS-1 ~ PS-5</td>
</tr>
</tbody>
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Related Equipment:
- BT
- CAT
- AHO
- HSK·A/E/F/C
- HSK·T
- UTS
- Specialized Machine
- Tool Presetter
- Digital Measuring Equipment
- Shrink Fit System
- Bush & Chamfering Drill
- Drill Spanner Head
- Torque Wrench
- Shrink Fit System
- Simple Setter
- Related Equipment

Reference Position:
- Inch to Metric (mm) → Inch × 25.4
- Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937

Special / Custom Sizes on request
SPK-KHA
Simple Setter For KH-A, KH-E

Ordering Example

SPK1 - KH16A - 77
Base PBK-1 Holder Support Gauge stand height L1

Code
0090 12 1 16 077
Base PBK-1 Holder Support

Special / Custom Sizes on request

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937
### PH-KHA
Holder support

**Code** | **Model** | **D** | **D1** | **D2** | **D3** | **D4** | **D5** | **D6** | **L** | **L1** | **L2** | **F** | **S** | **kg**
---|---|---|---|---|---|---|---|---|---|---|---|---|---|---
0091 13000012 | PH-KH12AR | 12 | 16.5 | 18 | 20 | 55 | 25 | 24 | 79.5 | 30 | 182 | 45 | 45 | 1.2
0091 13000014 | PH-KH14AR | 14 | 20 | 22 | 24 | 55 | 25 | 24 | 79.5 | 30 | 182 | 45 | 45 | 1.2
0091 13000016 | PH-KH16A | 16 | 24 | 26.4 | 29 | 55 | 25 | 24 | 88 | 30 | 190.5 | 45 | 45 | 1.4
0091 13000019 | PH-KH19A | 19 | 27 | 29.4 | 32 | 55 | 25 | 24 | 98 | 30 | 200.5 | 45 | 45 | 1.5
0091 13000020 | PH-KH20A | 20 | 27 | 29.4 | 32 | 55 | 25 | 24 | 98 | 30 | 200.5 | 45 | 45 | 1.5
0091 13000022 | PH-KH22A | 22 | 30 | 32.4 | 35 | 55 | 25 | 24 | 104 | 30 | 206.5 | 45 | 45 | 1.6
0091 13000024 | PH-KH24A | 24 | 32 | 34.4 | 37 | 55 | 25 | 24 | 104 | 30 | 206.5 | 45 | 45 | 1.6
0091 13000025 | PH-KH25A | 25 | 35 | 37.4 | 41 | 55 | 25 | 24 | 118 | 30 | 220.5 | 45 | 45 | 1.9
0091 13000026 | PH-KH26A | 26 | 35 | 37.4 | 41 | 55 | 25 | 24 | 118 | 30 | 220.5 | 45 | 45 | 1.9
0091 13000028 | PH-KH28A | 28 | 38 | 40.4 | 44 | 55 | 25 | 24 | 118 | 30 | 220.5 | 45 | 45 | 1.8
0091 13000030 | PH-KH30A | 30 | 38 | 40.4 | 44 | 55 | 25 | 24 | 118 | 30 | 220.5 | 45 | 45 | 1.8
0091 13000032 | PH-KH32A | 32 | 41 | 43.8 | 47 | 55 | 25 | 24 | 137 | 30 | 239.5 | 45 | 45 | 2.0
0091 13000035 | PH-KH35A | 35 | 45 | 47.8 | 52 | 55 | 25 | 24 | 137 | 30 | 239.5 | 45 | 45 | 1.9
0091 13000036 | PH-KH36A | 36 | 45 | 47.8 | 52 | 55 | 25 | 24 | 137 | 30 | 239.5 | 45 | 45 | 1.9
0091 13000048 | PH-KH48A | 48 | 62 | 65.4 | 68 | 70 | 25 | 24 | 158.5 | 30 | 261 | 45 | 45 | 3.1

---

**Related Equipment**

- BT
- CAT
- AHO
- HSK·A/E/F/C
- HSK·T
- UTS

**Specialized Machine Related Equipment**

- Bush & Chamfering
- Drill
- Spanner Head
- Torque Wrench
- Shrink Fit System

**Digital Measuring Equipment**

- Tool Presetter
- HSK Clamper
- “R” Zero Setter
- Simple Setter

Special / Custom Sizes on request

Conversions:

- Inch to Metric (mm) → Inch × 25.4
- Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937
PBK Base

<table>
<thead>
<tr>
<th>Code</th>
<th>Model</th>
<th>Type</th>
<th>Holder support</th>
<th>Gauge stand</th>
</tr>
</thead>
<tbody>
<tr>
<td>0091 07100145</td>
<td>PBK -1-45</td>
<td>1</td>
<td>PH-KH12AR ~ PH-KH48A</td>
<td>PS-1 ~ PS-5</td>
</tr>
<tr>
<td>0091 07100245</td>
<td>PBK -2-45</td>
<td>2</td>
<td>PH-KH12AR ~ PH-KH48A</td>
<td>PS-1 ~ PS-5</td>
</tr>
</tbody>
</table>

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937
SPW
Simple Setter For Tap Adapter

Gauge stand height L1

Ordering Example

SPW1 - WE1 - 127
Base PBT-1  Holder Support  Gauge stand height L1

Code
0090 03 1 0 1 127
Base PBT-1  Gauge stand height L1  Tap adapter size

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937

Special / Custom Sizes on request

532
## Holder support  PH-WE

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<th>kg</th>
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<tbody>
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<td>PG-1</td>
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## Guage PG

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<th>L1</th>
<th>SMAX</th>
<th>kg</th>
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<tbody>
<tr>
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<td>PS-1</td>
<td>100</td>
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<td>0091 01000002</td>
<td>PS-2</td>
<td>150</td>
<td>127</td>
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<td>0091 01000003</td>
<td>PS-3</td>
<td>200</td>
<td>177</td>
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<td></td>
</tr>
<tr>
<td>0091 01000004</td>
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<td>250</td>
<td>227</td>
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</tr>
<tr>
<td>0091 01000005</td>
<td>PS-5</td>
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<td>277</td>
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<td></td>
</tr>
</tbody>
</table>

## Guage stand PS

<table>
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<tr>
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<tbody>
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<td>PH-WE4</td>
<td>26.5</td>
<td>65</td>
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</table>

### Inch to Metric (mm) → Inch × 25.4

### Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937
SPK-STC
Simple Setter For STC

Ordering Example
SPK1 - STC1 - 77
Base PBK-1 Holder Support Gauge stand height L1

Code
0090 13 1 01 077
Gauge stand height L1

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937

Special / Custom Sizes on request
### PG Guage

<table>
<thead>
<tr>
<th>Code</th>
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<th>L</th>
<th>L1</th>
<th>SMAX</th>
<th>kg</th>
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<tr>
<td>0091 06000001</td>
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<td>113</td>
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</table>

### PS Guage stand

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</tr>
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<tbody>
<tr>
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<td><strong>PS -1</strong></td>
<td>100</td>
<td>77</td>
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<td><strong>PS -2</strong></td>
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<td>0091 01000003</td>
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<td>0091 01000005</td>
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</table>

### Holder support PH-STC

<table>
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<th>Code</th>
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<th>D1</th>
<th>D2</th>
<th>D3</th>
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<tbody>
<tr>
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<td><strong>PH -STC1</strong></td>
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</tbody>
</table>

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**Inch to Metric (mm) → Inch × 25.4**

**Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937**

---

**Related Equipment**

- BT
- CAT
- AHO
- HSK·A/E/F/C
- HSK·T
- UTS
- Specialized Machine
- Bush & Chamfering
- Drill
- Spanner Head
- Torque Wrench
- Shrink Fit System
- Digital measuring equipment
- Tool Presetter
- HSK·C
- HSK·A/E/F/C
- HSK·T
- UTS
- Specialized Machine

---

**Special / Custom Sizes on request**
SPT
Simple Setter For Tr Shank

Ordering Example

SPT1 - Tr16X5 - 77
Base PBT-1 Holder Support Gauge stand height L1

Code

0090 4 1 16 5 077
Tr-16 Gauge stand height L1
Base PBT-1 Key width 5

Inch to Metric (mm) → Inch × 25.4
Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937
### Guage PG

![Guage PG Diagram](image)

<table>
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<th>Code</th>
<th>Model</th>
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<th>kg</th>
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### Guage stand PS

![Guage stand PS Diagram](image)

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<td>009101000002</td>
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</table>

### Holder support PH-Tr

![Holder support PH-Tr Diagram](image)

<table>
<thead>
<tr>
<th>Code</th>
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<th>D1</th>
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<th>D3</th>
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※ PH-Tr22x5 have Tr nut type and SSMA nut type respectively. Please specify when you place an order.

### Special / Custom Sizes on request

- Inch to Metric (mm) → Inch × 25.4
- Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937

---

**Related Equipment**

- BT
- CAT
- AHD
- HAARFC
- HSK-T
- UTS
- Specialized

**Taper Shank**:

- BT
- CAT
- AHD
- HSK·A/E/F/C
- HSK·T

**Digital measuring equipment**

- Simple Setter
- Tool Presetter
- HSK·C"R"
- Zero Setter

**Inch to Metric (mm) → Inch × 25.4**

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**Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937**

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**NT**

Special / Custom Sizes on request
### Code Model Type

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<th>( \phi D )</th>
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**Inch to Metric (mm) → Inch × 25.4**  
**Metric (mm) to Inch → Metric ÷ 25.4 or Metric × 0.03937**  

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Special / Custom Sizes on request