豪力輝工業股份有限公司
HOLD WELL INDUSTRIAL CO., LTD.

横向銑頭
Angle Head
90°横向銑頭

AHA Type

AHB Type

AHC Type

模組化横向銑頭

Modular Angle Head

AHD Type

萬向銑頭

Universal Angle Head

AHG Type
定制化设定模块可以轻松安装而无需对机器结构进行任何修改。

- 该主体由球墨铸铁制成，具有高抗拉强度。
- 可以自动更换刀具，节省时间，效率高。
- 可以360度旋转调整加工角度，可透过两侧研磨平行面，简单校正加工方向。
- 使用P4级轴承，确保高精度。
- 低温小，防水，防油及防尘。
- 减少翻转工件，提高加工工件精度及生产率。
- 多功能用途，适用于钻孔、攻牙、端铣、面铣...等加工，加工适用范围大。

- 适用于钻孔、攻牙、端面铣削及多种加工应用。
The body is made of Ductile Cast Iron. High strength steel; stable machining.

Wide selections of tool shanks. The design of ER32, ER40, and FA25.4 heads ensures various applications.

Can be automatic tool changed (Taper 50 Angle Head only). Increases productivity.

Suitable for light and middle cutting.

Run-out | 0.002 mm
Material | Ductile Cast Iron
R.P.M. | Max. 6000 RPM
Torque | Max. 27 Nm
Gear Ratio | 1 : 0.81
Spindle Type | BT, NT, SK(ISO), CAT
Standard Accessory | Hook Spanner, ER Wrench, ER Nut
Output Rotation | Reverse to Input Rotation

### Model No. Table

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Unit : mm
The body is made of Ductile Cast Iron. High strength steel; stable machining.
- Wide selections of tool shanks. The design of ER32, ER40, and FA25.4 heads ensures various applications.
- Can be automatic tool changed (Taper 50 Angle Head only). Increases productivity.
- Suitable for light and middle cutting.

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Run-out: 0.002 mm
Material: Ductile Cast Iron
R.P.M.: Max. 6000 RPM
Torque: Max. 27 Nm
Gear Ratio: 1:0.81
Spindle Type: BT, NT, SK(ISO), CAT
Standard Accessory: Open End Wrench
Output Rotation: Reverse to Input Rotation

Unit: mm
AHB Type

90° Angle Head-BT

- The body is made of Ductile Cast Iron. High strength steel; stable machining.
- The output interface of BT30 ensures wide-range application with various BT30 tool holders.
- Can be automatic tool changed (Taper 50 Angle Head only). Increases productivity.

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Run-out 0.002 mm
Material Ductile Cast Iron
R.P.M. Max. 6000 RPM
Torque Max. 47 Nm
Gear Ratio 1 : 1
Spindle Type BT, SK(ISO), CAT
Standard Accessory Hook Spanner, Open End Wrench, BT Nut
Output Rotation Reverse to Input Rotation

Unit : mm
90° 橫向銑頭

- 本體採用球狀石墨鑄鐵，剛性強，加工穩定。
- 自動刀庫換刀加工（僅適用於 50 標準頭可換刀），量化生產必備工具。

### 規格

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- The body is made of Ductile Cast Iron. High strength steel; stable machining.
- Can be automatic tool changed (Taper 50 Angle Head only). Increases productivity.

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### 性能

- Run-out: 0.002 mm
- Material: Ductile Cast Iron
- R.P.M.: Max. 6000 RPM
- Torque: Max. 47 Nm
- Gear Ratio: 1:1
- Spindle Type: BT, SK(ISO), CAT
- Standard Accessory: Hook Spanner, ER Wrench, ER Nut
- Output Rotation: Reverse to Input Rotation
### AHC Type

#### 90° Angle Head-FA

- The body is made of Ductile Cast Iron. High strength steel; stable machining.
- The AHC series is suitable for firm and fast face milling.
- Can be automatic tool changed (Taper 50 Angle Head only). Increases productivity.

#### Specifications

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Unit: mm

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- 本体採用球状石墨鑄鐵，剛性強，加工穩定。
- 面銑刀專用機種，直接連結面銑刀，加工穩定快速。
- 自動刀具換刀加工（僅適用50 橫銑頭可換刀），量化生產必備工具。

---

- The body is made of Ductile Cast Iron. High strength steel; stable machining.
- The AHC series is suitable for firm and fast face milling.
- Can be automatic tool changed (Taper 50 Angle Head only). Increases productivity.
### Modular Angle Head-Longer

- The body is made of Ductile Cast Iron. High strength steel; stable machining.
- The AHC series is suitable for firm and fast face milling.
- Can be automatic tool changed (Taper 50 Angle Head only). Increases productivity.

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* For longer length, Extension is available, whose specification is shown on P31.

#### Technical Specifications

- **Run-out**: 0.002 mm
- **Material**: Ductile Cast Iron
- **R.P.M.**: Max. 4000 RPM
- **Torque**: Max. 15 Nm
- **Gear Ratio**: 1:1
- **Spindle Type**: BT, SK(ISO), CAT
- **Standard Accessory**: Open Wrench, ER Wrench, ER Nut
- **Output Rotation**: Reverse to Input Rotation

---

*此系列銑銑頭可選購延長器，以增加本銑頭之長度，詳細規格請見 P31。*
Modular Angle Head -Compact

- Compact body design is the best tool for internal machining application.
- Can be automatic tool changed. Increases productivity.

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### AHD Type

#### AHD-A2/A4

- Compact body design is the best tool for internal machining application.
- Can be automatic tool changed. Increases productivity.

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* For longer length, Extension is available, whose specification is shown on P31.

※ 此系列柄銑頭可選購延長器，以增加本體長度，詳細規格請見 P31。

※ For longer length, Extension is available, whose specification is shown on P31.
The 45 degree design ensures 45 degree drilling, milling and curved surface processing. Can be automatic tool changed (Taper 50 Angle Head only). Increases productivity.

Run-out: 0.002 mm  
Material: Ductile Cast Iron  
R.P.M.: Max. 4000 RPM  
Torque: Max. 15 Nm  
Gear Ratio: 1:1  
Spindle Type: BT, SK(ISO), CAT  
Standard Accessory: Open Wrench, ER Wrench, ER Nut  
Output Rotation: Reverse to Input Rotation

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* For longer length, Extension is available, whose specification is shown on P31.

Unit: mm

For longer length, Extension is available, whose specification is shown on P31.
Universal Angle Head

- Cutting angle can be set from 0 to ±90 degree for various applications.
- Compact design provides extra strength, oil-proof, dust-proof, and duration.
- Can be automatic tool changed (Taper 50 Angle Head only). Increases productivity.

Run-out: 0.002 mm

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<td>AHG-BT50-A2</td>
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<td>50</td>
<td>76</td>
<td>64.5</td>
<td>17</td>
<td>80/85/110</td>
<td>29.5</td>
<td>3~20 (ER32)</td>
<td>11.5</td>
</tr>
<tr>
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<td>96.5</td>
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<td>50</td>
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<td>64.5</td>
<td>17</td>
<td>65/80/85</td>
<td>29.5</td>
<td>3~20 (ER32)</td>
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<td>96.5</td>
<td>103</td>
<td>87.6</td>
<td>40</td>
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<td>64.5</td>
<td>17</td>
<td>80/85/110</td>
<td>29.5</td>
<td>3~20 (ER32)</td>
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<td>65/80/85</td>
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<td>80/85/110</td>
<td>29.5</td>
<td>3~20 (ER32)</td>
<td>11.5</td>
</tr>
</tbody>
</table>
**Heavy Duty Angle Head**

- The output interface of Taper40 ensures wide-range application with various BT40/SK40/CAT40 tool holders.
- Mount directly on the machine spindle surface. Rugged body construction for heavy duty cutting.
- Interchangeable among same taper machines by changing the mounting plate.
- Hardened precision spiral bevel gears ensure stable performance with long service life.
- Cutting direction can be adjusted from 0 ~ 360 degree.

<table>
<thead>
<tr>
<th>AHK Type</th>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>N.W. (KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHK-BT40-A1G</td>
<td>164 164</td>
<td>46</td>
<td>46</td>
<td>138</td>
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<td>100</td>
<td>100</td>
<td>100</td>
<td>193</td>
<td>88 180 17.3</td>
</tr>
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<td>88 180 17.3</td>
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<td>100</td>
<td>193</td>
<td>88 180 20</td>
</tr>
<tr>
<td>AHK-CAT40-A1G</td>
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<td>46</td>
<td>46</td>
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<td>193</td>
<td>88 180 17.3</td>
</tr>
<tr>
<td>AHK-CAT50-A1G</td>
<td>164 164</td>
<td>46</td>
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<td>126</td>
<td>126</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>193</td>
<td>88 180 20</td>
</tr>
</tbody>
</table>

For installation, this series of heads require Flange Disc shown on P31.

*此系列銑頭須採用法蘭盤定位塊，參見 P31。*
The output interface of Taper40 ensures wide-range application with various BT40/SK40/CAT40 tool holders.

Mount directly on the machine spindle surface.

Rugged body construction for heavy duty cutting.

Interchangeable among same taper machines by changing the mounting plate.

Hardened precision spiral bevel gears ensure stable performance with long service life.

Cutting direction can be adjusted from 0 ~ 360 degree.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>N.W. (KG)</th>
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<td>138</td>
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<td>193</td>
<td>88</td>
<td>180</td>
<td>BT40/SK40/CAT40</td>
<td>30.9</td>
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<td>180</td>
<td>BT40/SK40/CAT40</td>
<td>33.6</td>
</tr>
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<td>AHK-SK40-A2G</td>
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<td>138</td>
<td>280</td>
<td>100</td>
<td>100</td>
<td>193</td>
<td>88</td>
<td>180</td>
<td>BT40/SK40/CAT40</td>
<td>30.9</td>
</tr>
<tr>
<td>AHK-SK50-A2G</td>
<td>318</td>
<td>46</td>
<td>138</td>
<td>280</td>
<td>100</td>
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<td>193</td>
<td>88</td>
<td>180</td>
<td>BT40/SK40/CAT40</td>
<td>33.6</td>
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<tr>
<td>AHK-CAT40-A2G</td>
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<td>280</td>
<td>100</td>
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<td>193</td>
<td>88</td>
<td>180</td>
<td>BT40/SK40/CAT40</td>
<td>30.9</td>
</tr>
<tr>
<td>AHK-CAT50-A2G</td>
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<td>100</td>
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<td>88</td>
<td>180</td>
<td>BT40/SK40/CAT40</td>
<td>33.6</td>
</tr>
</tbody>
</table>

* For installation, this series of heads require Flange Disc shown on P31.
The output interface of Taper 50 ensures wide-range application with various BT50/SK50/CAT50 tool holders.

Mount directly on the machine spindle surface. Rugged body construction for heavy duty cutting.

Cutting direction can be adjusted from 0 ~ 360 degree.

<table>
<thead>
<tr>
<th>Run-out</th>
<th>0.002 mm</th>
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</thead>
<tbody>
<tr>
<td>Material</td>
<td>Ductile Cast Iron</td>
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<tr>
<td>R.P.M.</td>
<td>Max. 4000 RPM</td>
</tr>
<tr>
<td>Torque</td>
<td>Max. 250 Nm</td>
</tr>
<tr>
<td>Gear Ratio</td>
<td>1 : 1</td>
</tr>
<tr>
<td>Spindle Type</td>
<td>BT, NT, SK(IS0), CAT</td>
</tr>
<tr>
<td>Standard Accessory</td>
<td>Open End Wrench, L Type Wrench</td>
</tr>
<tr>
<td>Output Rotation</td>
<td>Same as Input Rotation</td>
</tr>
</tbody>
</table>

- For installation, this series of heads require Flange Disc shown on P31.

Model NO. | A | B | C | D | E | F | G | I | J | N.W.(KG) |
---|---|---|---|---|---|---|---|---|---|---------|
AHK-50-A3 | 217 | 80 | 232 | 202 | 160 | 155 | 279 | 280 | BT50/SK50/CAT50 | 61.5 |

* For installation, this series of heads require Flange Disc shown on P31.
**Multi - block Angle Head-BT**

- The output interface of Taper40 ensures wide-range application with various BT40/SK40/CAT40 tool holder.
- Hardened precision spiral bevel gears ensure stable performance with long service life.
- Cutting direction can be adjusted from 0 ~ 360 degree.
- Multi-block support system improves working rigidity and stability.
- The automatic disengagement and engagement of Angle Head can be easily operated on the base of table and improve efficiency.
- Rugged Alloy Steel body construction with compact design.

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
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<td>150</td>
<td>148</td>
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<td>239</td>
<td>BT40/SK40/CAT40</td>
<td>18</td>
<td>110</td>
<td>22.5</td>
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<td>AHK-SK50-B1</td>
<td>202.5</td>
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<td>150</td>
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<td>100</td>
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<td>88</td>
<td>239</td>
<td>BT40/SK40/CAT40</td>
<td>18</td>
<td>110</td>
<td>22.5</td>
</tr>
<tr>
<td>AHK-CAT50-B1</td>
<td>202.5</td>
<td>46</td>
<td>150</td>
<td>148</td>
<td>100</td>
<td>100</td>
<td>193</td>
<td>88</td>
<td>239</td>
<td>BT40/SK40/CAT40</td>
<td>18</td>
<td>110</td>
<td>22.5</td>
</tr>
</tbody>
</table>

**Run-out** 0.002 mm  
**Material** Alloy Steel  
**R.P.M.** Max. 4000 RPM  
**Torque** Max. 60 Nm  
**Gear Ratio** 1 : 1  
**Spindle Type** BT, SK(ISO), CAT  
**Standard Accessory** Open End Wrench, L Type Wrench  
**Output Rotation** Reverse to Input Rotation

- 齒數 40 刀具接合介面，提供各種 BT40/SK40/CAT40 刀具之彈性應用，涵蓋大部分加工應用。  
- 採用高硬度精密螺旋傘齒輪，運轉穩定，壽命長。  
- 可 360 度旋轉調整加工角度。  
- 多點支撐設計，可增加加工剛性及穩定性。  
- 可於工作台上自動換刀，增加工作效率。  
- 本體設計簡約，合金鋼本體結構堅固。  

<table>
<thead>
<tr>
<th>内孔偏擺量</th>
<th>0.002 mm</th>
<th>材質</th>
<th>合金鋼</th>
<th>轉速</th>
<th>最高 4000 RPM</th>
<th>扭力</th>
<th>最大 60 Nm</th>
<th>齒輪比</th>
<th>1 : 1</th>
<th>適用主軸</th>
<th>BT, SK(ISO), CAT</th>
<th>標準配件</th>
<th>開口扳手、L 型扳手</th>
<th>出力軸轉向</th>
<th>反轉</th>
</tr>
</thead>
</table>
AHK-B2

抓刀式横向銑頭

- HSK63 刀具結合介面，提供各種 HSK63 刀具之彈性
  應用，涵蓋大部分加工應用。
- 本體設計簡約，合金銥本體結構堅固。
- 採用高硬度高精密螺旋齒齒，運轉穩定，壽命長。
- 可 360 度旋轉調整加工角度。
- 多點支撐設計，可增加加工剛性及穩定性。
- 可於工作台上自動換刀，增加工作效率。

| 内孔偏擺度 | 0.002 mm |
| 材質       | 合金銥 |
| 轉速       | 最高 4000 RPM |
| 扭力       | 最大 60 Nm |
| 齒輪比     | 1 : 1 |
| 適用主軸   | BT, SK(ISO), CAT |
| 標準配件   | 開口扳手、L 型扳手 |
| 出力軸轉向 | 反轉 |

<table>
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<tbody>
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<td>150</td>
<td>148</td>
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<td>115</td>
<td>208</td>
<td>87</td>
<td>239</td>
<td>HSK63</td>
<td>18</td>
<td>110</td>
<td>23.4</td>
</tr>
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<td>AHK-SK50-B2</td>
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<td>46</td>
<td>150</td>
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<td>100</td>
<td>115</td>
<td>208</td>
<td>87</td>
<td>239</td>
<td>HSK63</td>
<td>18</td>
<td>110</td>
<td>23.4</td>
</tr>
<tr>
<td>AHK-CAT50-B2</td>
<td>202.5</td>
<td>46</td>
<td>150</td>
<td>148</td>
<td>100</td>
<td>115</td>
<td>208</td>
<td>87</td>
<td>239</td>
<td>HSK63</td>
<td>18</td>
<td>110</td>
<td>23.4</td>
</tr>
</tbody>
</table>

Multi-block Angle Head-HSK

- The output interface of HSK63 ensures wide-range application with various HSK63 tool holders.
- Rugged Alloy Steel body construction with compact design.
- Hardened precision spiral bevel gears ensure stable performance with long service life.
- Cutting direction can be adjusted from 0 ~ 360 degree.
- Multi-block support system improves working rigidity and stability.
- The automatic disengagement and engagement of Angle Head can be easily operated on the base of table and improve efficiency.

| Run-out | 0.002 mm |
| Material | Alloy Steel |
| R.P.M. | Max. 4000 RPM |
| Torque | Max. 60 Nm |
| Gear Ratio | 1 : 1 |
| Spindle Type | BT, SK(ISO), CAT |
| Standard Accessory | Open End Wrench L Type Wrench |
| Output Rotation | Reverse to Input Rotation |

Unit : mm
AHK Type

抓刀式横向銑頭 (中心出水)

- HSK63 刀具結合介面，提供各種 HSK63 刀具之彈性應用，涵蓋大部分加工應用。
- 本體設計簡約，合金鋼本體結構堅固。
- 採用高精度高精密螺旋齒齒輪，運轉穩定，壽命長。
- 可 360 度旋轉調整加工角度。
- 多點支撐設計，可增加加工剛性及穩定性。
- 可於工作台上自動換刀，增加工作效率。

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<td>87</td>
<td>239</td>
<td>HSK63</td>
<td>18</td>
<td>110</td>
<td>23.4</td>
</tr>
</tbody>
</table>

The output interface of HSK63 ensures wide-range application with various HSK63 tool holders.

- Hardened precision spiral bevel gears ensure stable performance with long service life.
- Cutting direction can be adjusted from 0 ~ 360 degree.
- Multi-block support system ensures working rigidity and stability.
- The automatic disengagement and engagement of Angle Head can be easily operated on the base of table and improve efficiency.
- Rugged Alloy Steel body construction with compact design.

| Run-out | 0.002 mm |
| Material | Alloy Steel |
| R.P.M. | Max. 4000 RPM |
| Torque | Max. 60 Nm |
| Gear Ratio | 1 : 1 |
| Spindle Type | BT, SK(ISO), CAT |
| Standard Accessory | Open End Wrench, L Type Wrench |
| Output Rotation | Reverse to Input Rotation |
| Max. Coolant Bar | 30 bar |

Unit : mm

* Int.: 中心出水 Internal Coolant
AHK-C1

AHK Type

法蘭型自動換刀橫向銑頭 (立車)

Heavy Duty Angle Head (VTC)

- Can be applied on Vertical Turning Center, Plano Milling Machine and various machines with Adapter Plate.
- Built-in spindle positioning system. The flexible design of connection part which is suitable for various magazines makes the ATC application possible.
- Can be connected to tooth-shaped Flange Disc or any shape of Machine Spindle surface to reach Max. rigidity.
- Hardened precision spiral bevel gears ensure stable performance with long service life.
- Cutting direction can be adjusted from 0 ~ 360 degree.

<table>
<thead>
<tr>
<th>Run-out</th>
<th>0.002 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Alloy Steel</td>
</tr>
<tr>
<td>R.P.M.</td>
<td>Max. 4000 RPM</td>
</tr>
<tr>
<td>Torque</td>
<td>Max. 60 Nm</td>
</tr>
<tr>
<td>Gear Ratio</td>
<td>1 : 1</td>
</tr>
<tr>
<td>Spindle Type</td>
<td>BT, SK(ISO), CAT</td>
</tr>
<tr>
<td>Standard Accessory</td>
<td>Open End Wrench</td>
</tr>
<tr>
<td>L Type Wrench</td>
<td></td>
</tr>
<tr>
<td>Output Rotation</td>
<td>Reverse to Input Rotation</td>
</tr>
</tbody>
</table>

Unit : mm

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>N.W.(KG)</th>
</tr>
</thead>
<tbody>
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<td>180</td>
<td>100</td>
<td>193</td>
<td>100</td>
<td>205</td>
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<tr>
<td>AHK-SK50-C1</td>
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<td>180</td>
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<td>193</td>
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<td>205</td>
<td>88</td>
<td>BT40/SK40/CAT40</td>
<td>25.7</td>
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<tr>
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<td>185</td>
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</table>
AHK-D1

Aluminum Offset Heavy Duty Angle Head

- The output interface of Taper40 ensures wider-angle application with various BT40/SK40/CAT40 tool holders.
- Mount directly on the machine spindle surface. Rugged body construction for heavy duty cutting.
- Cutting Direction can be adjusted from 0~360 degrees. It allows higher clamping torque and cutting direction could remain during the machining.
- Offset design ensures compact body and largely eliminates interference.
- Offset design eliminates the protrusion of tools and enhances working rigidity.
- Special tool-locking design ensures easier tool engagement and release.

内孔偏擺度 0.002 mm

Material
Aerospace Alu. Alloy & Ductile Cast Iron

R.P.M. Max. 4000 RPM

Torque Max. 50 Nm

Gear Ratio 1 : 1

Spindle Type BT, SK(ISO), CAT

Standard Accessory Tool-Locking Plate L Type Wrench

Output Rotation Same as Input Rotation

<table>
<thead>
<tr>
<th>Model NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<th>G</th>
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<th>I</th>
<th>J</th>
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<th>M</th>
<th>N.W.(KG)</th>
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<tr>
<td>AHK-BT40-D1</td>
<td>225</td>
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* For installation, this series of heads require Flange Disc shown on P31.
AHL Type

Light Angle Head

- Compact and lighter body design is suitable for drilling, milling, and tapping application.
- Can be automatic tool changed. Increases productivity.
- Enclosed Positioning Pin: Cutting Direction can be adjusted from 0~360 degrees. It allows higher clamping torque and cutting direction could remain during the machining.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
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</table>

Unit: mm

*另有6000 RPM可供選擇** Further option: 6000 RPM
AHL Type

90° Angle Head

- Compact and lighter body design is suitable for drilling, milling, and tapping application.
- Can be automatic tool changed. Increases productivity.
- Enclosed Positioning Pin: Cutting Direction can be adjusted from 0~360 degrees. It allows higher clamping torque and cutting direction could remain during the machining.

<table>
<thead>
<tr>
<th>Material</th>
<th>Aerospace Alu. Alloy / Ductile Cast Iron / Alloy Steel</th>
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<td>R.P.M.</td>
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<td>Standard Accessory</td>
<td>Open End Wrench, ER Wrench, ER Nut</td>
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<td>Output Rotation</td>
<td>Reverse to Input Rotation</td>
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| Run-out | 0.002 mm |

### Model Specifications

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Unit: mm
AHL Type

Mini Angle Head

- Compact and lighter body design is suitable for drilling, milling, and tapping application.
- Can be automatic tool changed. Increases productivity.
- Enclosed Positioning Pin: Cutting Direction can be adjusted from 0~360 degrees. It allows higher clamping torque and cutting direction could remain during the machining.

<table>
<thead>
<tr>
<th>Model NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>N.W.(KG)</th>
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</table>

Unit : mm
Light Angle Head-Universal

- Cutting angle can be set from $0^\circ$ to $120^\circ$ for various applications.
- Compact design provides extra strength, oil-proof, dust-proof, and duration.
- Can be automatic tool changed. Increases productivity.
- Enclosed Positioning Pin: Cutting Direction can be adjusted from 0~360 degrees. It allows higher clamping torque and cutting direction could remain during the machining.

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<td>Open End Wrench, ER Wrench, ER Nut</td>
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<tr>
<td>Output Rotation</td>
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<th>D</th>
<th>E</th>
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<td>65</td>
<td>36</td>
<td>1~13 (ER20)</td>
<td>4.5</td>
</tr>
</tbody>
</table>

Unit : mm
Mini Angle Head - Universal

- Cutting angle can be set from 0° ~ ±120° for various application.
- Compact and lighter body design provide extra strength, oil-proof, dust-proof, and duration.
- Can be automatic tool changed. Increases productivity.
- Enclosed Positioning Pin: Cutting Direction can be adjusted from 0°~360 degrees. It allows higher clamping torque and cutting direction could remain during the machining.

<table>
<thead>
<tr>
<th>Run-out</th>
<th>0.002 mm</th>
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</thead>
<tbody>
<tr>
<td>Material</td>
<td>Aerospace Alu. Alloy &amp; Alloy Steel</td>
</tr>
<tr>
<td>R.P.M.</td>
<td>Max. 6000 RPM</td>
</tr>
<tr>
<td>Torque</td>
<td>Max. 8 Nm</td>
</tr>
<tr>
<td>Drilling</td>
<td>Max 10 mm</td>
</tr>
<tr>
<td>Tapping</td>
<td>Max M6</td>
</tr>
<tr>
<td>Gear Ratio</td>
<td>1 : 0.66</td>
</tr>
<tr>
<td>Spindle Type</td>
<td>BT, SK(ISO)</td>
</tr>
<tr>
<td>Standard Accessory</td>
<td>M Type Wrench, Pin Wrench</td>
</tr>
<tr>
<td>Output Rotation</td>
<td>Same as Input Rotation</td>
</tr>
</tbody>
</table>

AHL Type

微型萬向銑頭

- D° ~ ±120°加工角度多樣化，適用於各種加工應用。
- 輕量化設計，剛性高、防油、防塵佳、使用壽命長。
- 自動刀具換刀加工，量化生產必備工具。
- 環抱型定位塊設計，可360度旋轉調整加工角度，並加強鎖固力道及加工角度精確性。

内孔擴開度 0.002 mm
材质 航太用铝合金 & 合金鋼
轉速 最高 6000 RPM
扭力 最大 8 Nm
頸孔 最大 10 mm
攻牙 最大 M6
齒輪比 1 : 0.66
適用主軸 BT, SK(ISO)
標準配件 M型扳手、插銷扳手
出力輪轉向 正轉

Unit : mm

<table>
<thead>
<tr>
<th>Model NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>P</th>
<th>Q</th>
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<td>4/14</td>
<td>1~7 (ER11)</td>
<td>1.8</td>
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<td>16</td>
<td>4/14</td>
<td>1~7 (ER11)</td>
<td>1.8</td>
</tr>
</tbody>
</table>
Angle Head-Ultra Slim

- Compact and longer body design is suitable for machining the deep-hole and deep-slot.
- Can be automatic tool changed. Increases productivity.
- Enclosed Positioning Pin: Cutting Direction can be adjusted from 0~360 degrees. It allows higher clamping torque and cutting direction could remain during the machining.

### Specifications

- **Run-out**: 0.002mm
- **Material**: Alloy Steel
- **R.P.M.**: Max. 6000 RPM
- ** Torque**: Max. 6 Nm
- **Drilling**: Max. 6 mm
- **Tapping**: Max. M4
- **Gear Ratio**: 1 : 1
- **Spindle Type**: BT, SK(ISO), CAT
- **Standard Accessory**: T Handle Hex. Wrench
- **Output Rotation**: Reverse to Input Rotation

### Model No.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
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</tbody>
</table>

*This Angle Head requires the adoption of special ADC collet offered by Hold Well. The specification is listed on Page 31.*
Compact and lighter body design is suitable for drilling, milling, and tapping application.
Can be automatic tool changed. Increases productivity.
Enclosed Positioning Pin: Cutting Direction can be adjusted from 0~360 degrees. It allows higher clamping torque and cutting direction could remain during the machining.

<table>
<thead>
<tr>
<th>Run-out</th>
<th>0.002mm</th>
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<tbody>
<tr>
<td>Material</td>
<td>Aerospace Alu. Alloy &amp; Alloy Steel</td>
</tr>
<tr>
<td>R.P.M.</td>
<td>Max. 6000 RPM</td>
</tr>
<tr>
<td>Torque</td>
<td>Max. 25 Nm</td>
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<tr>
<td>Drilling</td>
<td>Max. 16 mm</td>
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<td>Tapping</td>
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<td>Gear Ratio</td>
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<tr>
<td>Spindle Type</td>
<td>BT, SK(ISO), CAT</td>
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<tr>
<td>Standard Accessory</td>
<td>Open End Wrench, ER I.N. Wrench</td>
</tr>
<tr>
<td>Output Rotation</td>
<td>Same as / Reverse to Input Rotation</td>
</tr>
</tbody>
</table>

Unit: mm

<table>
<thead>
<tr>
<th>Model NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N.W.(KG)</th>
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<td>80/110</td>
<td>20</td>
<td>143</td>
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</tr>
</tbody>
</table>

* I.N. : 内牙 Internal Nut
AHM Type

Aluminum Angle Head

- 6000 PRM high speed processing. Increases machining efficiency.
- Compact and lighter body design is suitable for machines with light-load magazine and high speed ATC system.
- Can be automatic tool changed. Increases productivity.
- Enclosed Positioning Pin: Cutting Direction can be adjusted from 0~360 degrees. It allows higher clamping torque and cutting direction could remain during the machining.

<table>
<thead>
<tr>
<th>Material</th>
<th>Aerospace Aluminum Alloy</th>
</tr>
</thead>
<tbody>
<tr>
<td>R.P.M.</td>
<td>Max. 6000 RPM</td>
</tr>
<tr>
<td>Torque</td>
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</tr>
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<td>Gear Ratio</td>
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<tr>
<td>Standard Accessory</td>
<td>Open End Wrench, ER I.N. Wrench, ER Nut</td>
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<tr>
<td>Output Rotation</td>
<td>Reverse to Input Rotation</td>
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</table>

<table>
<thead>
<tr>
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</tbody>
</table>

* I.N.: Internal Nut

Unit: mm
AHM-I

6000 PRM 高轉速加工，提高加工效率。

● 輕量化設計，適用於輕型及高速自動換刀之機台。

● 自動刨端換刀加工，提升生產效率及工具。

● 刨端型定位塊設計，可 360°旋轉調整加工角度，並增加鎖固力及加工角度精確性。

内孔偏擺度 0.002 mm
材質 航空級鋁合金
轉速 最高 6000 RPM
扭力 最大 15 Nm
齒輪比 1：1
適用主軸 BT, SK(ISO), CAT
標準配件 附口扳手、ER 板手、ER 螺帽
出力軸轉向 反轉
中心出水 30 bar

6000 rpm high speed processing. Increases machining efficiency.

● Compact and lighter body design is suitable for machines with light-load magazine and high speed ATC system.

● Can be automatic tool changed. Increases productivity.

● Enclosed Positioning Pin: Cutting Direction can be adjusted from 0~360 degrees. It allows higher clamping torque and cutting direction could remain during the machining.

Run-out 0.002 mm
Material Aerospace Aluminum Alloy
R.P.M. Max. 6000 RPM
Torque Max. 15 Nm
Gear Ratio 1 : 1
Spindle Type BT, SK(ISO), CAT
Standard Accessory Open End Wrench, ER Wrench, ER Nut
Output Rotation Reverse to Input Rotation
Max. Coolant Bar 30 bar

AHM Type

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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* Int.：中心出水 Internal Coolant
● The output interface of Taper40 ensures wide-range application with various BT40/SK40/CAT40 Tool Holder.
● Offset design ensures compact body and largely eliminates interference.
● Offset design eliminates the protrusion of tools and enhances working rigidity.
● Special tool-locking design ensures easier tool engagement and release.
● Can be automatic tool changed. Increases productivity.
● Enclosed Positioning Pin: Cutting Direction can be adjusted from 0–360 degrees. It allows higher clamping torque and cutting direction could remain during the machining.

### AHM Type

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<tr>
<th>Model No.</th>
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<th>B</th>
<th>C</th>
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Unit: mm
Optional Accessory

Setting Block / Stopper

- 標準錐度 - 40
  Standard - Taper 40
  Order No.: 1AH-00288

- 標準錐度 - 50
  Standard - Taper 50
  Order No.: 1AH-00289

Customized Setting Block / Stopper

Order No.: BT-1

※ 圖面僅供參考。實際的定位塊規格視客戶機台主軸尺寸不同而定。
※ For reference only. The real specification would vary from different machine spindle dimensions.
Optional Accessory

Customized Flange Disc

AHK-A1G/A2G/A3/D1 series only

Extension

AHK-A1G/A2G/A3/D1 series only

ADC Collet

AHL-C1 series only