



# 豪力輝工業股份有限公司

HOLD WELL INDUSTRIAL CO., LTD.



橫向銑頭  
Angle Head




ISO 9001:2015  
ID 9105040234




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90° 橫向銑頭	90° Angle Head
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模組化橫向銑頭	Modular Angle Head
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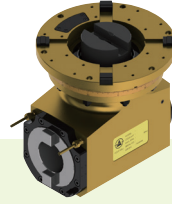
**AHK**  
Type



**A1G**



**A2G**

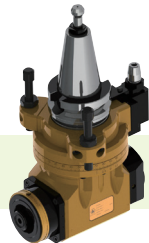


**A3**

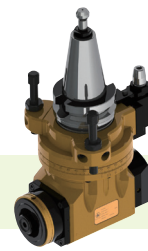
**11**



**B1**

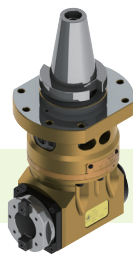


**B2**

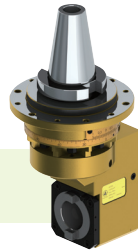


**B2-I**

**14**



**C1**



**D1**

**17**

輕量化橫向銑頭

*Light / Mini Angle Head*

**AHL**  
Type



**A1G**

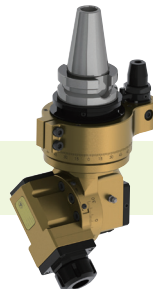


**A2/A3**

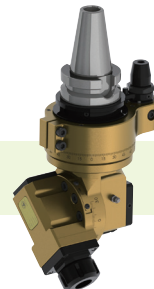


**A4G**

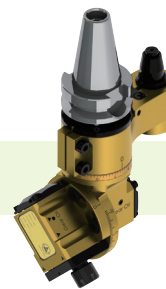
**19**



**B1G**



**B2G**



**B3G**

**22**



**C4/C8**



**H1**

**25**



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鋁合金橫向銑頭

Aluminum Angle Head

AHM  
Type



ER



Int.



BT40

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鎖固式橫向銑頭

Flange-Mounted Angle Head

AHK  
Type



A4/A9



A5/A7



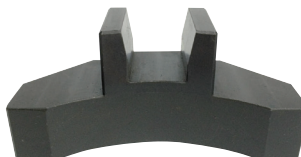
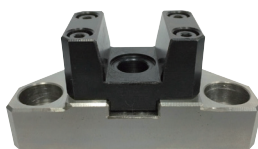
A6/A8

30

選購配件

Optional Accessory

BT-1  
BT-2

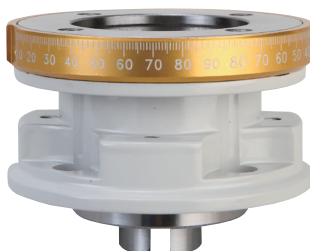


定位塊 / Setting Block



法蘭盤 / Flange Disc

AHD-  
E1/E2



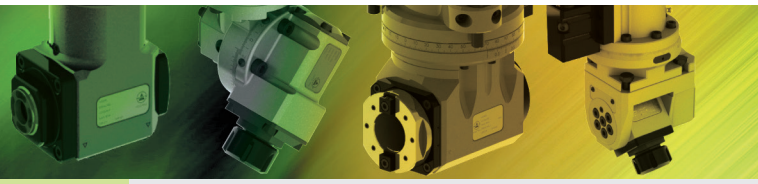
延長器 / Extension

ADC6  
Type



ADC 筒夾 / ADC Collet

# AHA Type

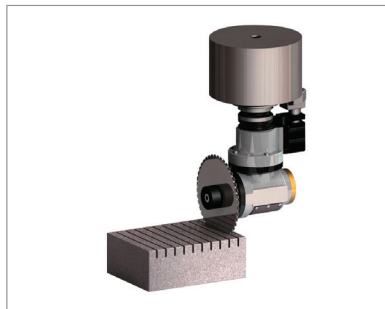


- 定位塊安裝簡易，無需更改機台結構。
  - 本體材質為球狀石墨鑄鐵，抗拉强度高。
  - 可於刀庫自動換刀，節省時間，效率高。
  - 可 360 度旋轉調整加工角度，可透過兩側研磨平行面，簡單校正加工方向。
  - 使用 P4 級軸承，確保高精度。
  - 溫升小、防水、防油及防塵。
  - 減少翻動工件，提高加工工件精度及生產力。
  - 多功能用途，適用鑽孔、攻牙、端銑、面銑 ... 等加工，加工適用範圍大。
- 
- Customized setting blocks can be easily installed without any modification of machine construction.
  - The body is made of Ductile Cast Iron with high tensile strength.
  - Can be automatic tool changed. Save time; increase efficiency.
  - Cutting direction can be adjusted from 0 to 360 degree. Can easily be set by indicating the datum face.
  - Precision P4 class bearing provides accurate concentricity.
  - Low temperature rising, waterproof, oil-proof, and dust-proof.
  - Avoids turning workpiece around to increase accuracy and productivity.
  - Ideal for drilling, tapping, end milling, face milling, and various machining applications.

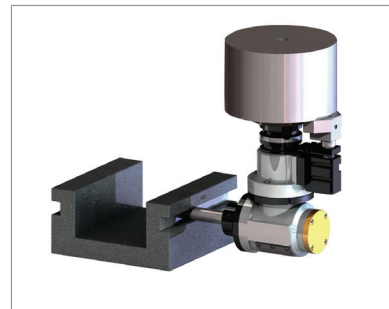
## 加工範例 Application



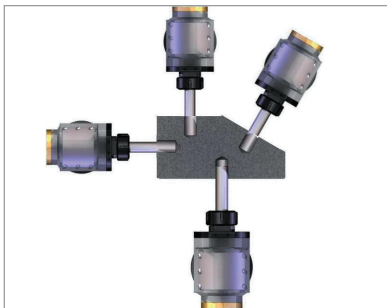
● 內面加工  
Internal Machining



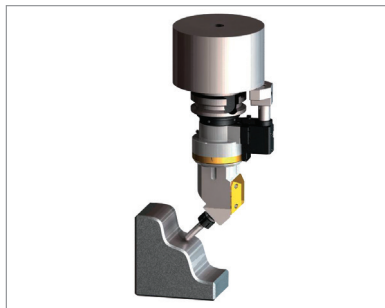
● 鋸切加工  
Saw and Cutting



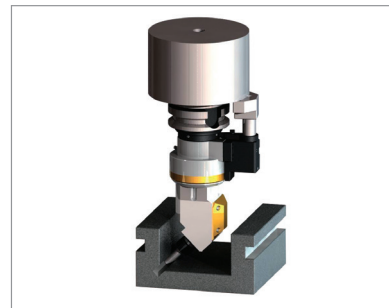
● 側面加工  
Side Machining



● 任意角度加工  
Any Angle Machining



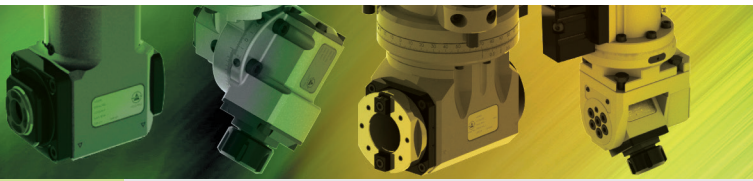
● 曲面加工  
Curved Surface Machining



● 45°角加工  
45 Degree Machining

- ※ 本公司保有變動規格與顏色的權益，請聯絡當地代理或業務人員已獲得最新資訊。
- ※ All specification are subject to change without further notice. Please consult your local dealer or agent for latest information.

# AHA Type



## 90° 橫向銑頭

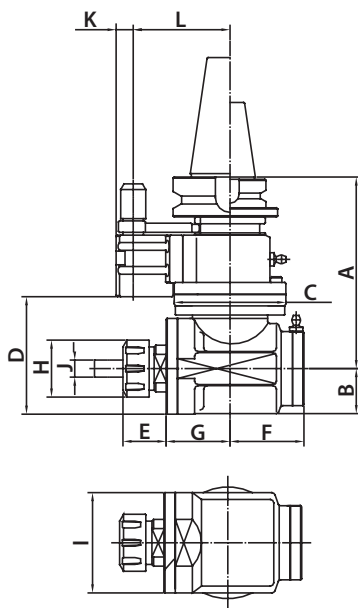
## 90° Angle Head-ER

- 本體採用球狀石墨鑄鐵，剛性強，加工穩定。
- 適用主軸種類多樣化。夾持刀具種類、尺寸多樣化，ER32、ER40、FA25.4 型式，可涵蓋大部分加工應用。
- 自動刀庫換刀加工（僅銼度 50 橫銑頭可換刀），量化生產必備工具。
- 適用中、輕切削。

- 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.

內孔偏擺度	0.002 mm
材質	球狀石墨鑄鐵
轉速	最高 6000 RPM
扭力	最大 50 Nm
鑽孔	最大 18mm
攻牙	最大 M14
齒輪比	1 : 0.81
適用主軸	BT, NT, SK(ISO), CAT, HSK
標準配件	鉤形扳手、ER 扳手、ER 螺帽
出力軸轉向	反轉

Run-out	0.002 mm
Material	Ductile Cast Iron
R.P.M.	Max. 6000 RPM
Torque	Max. 50 Nm
Drilling	Max. 18mm
Tapping	Max. M14
Gear Ratio	1 : 0.81
Spindle Type	BT, NT, SK(ISO), CAT, HSK
Standard Accessory	Hook Spanner ER Wrench, ER Nut
Output Rotation	Reverse to Input Rotation



Unit : mm

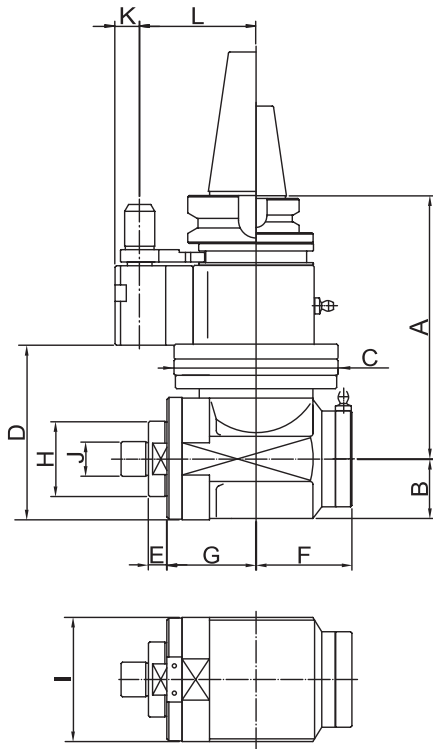
Model No.	A	B	C	D	E max	F	G	H	I	J	K	L	N.W. (KG)
AHA-BT40-ER32	160	40	98	104	39	65	56	50	88	3~20	15	65/80/85	7.8
AHA-BT50-ER32	171	40	98	104	39	65	56	50	88	3~20	15	80/85/110	9.5
AHA-BT40-ER40	160	40	98	104	43	65	56	63	88	4~26	15	65/80/85	7.8
AHA-BT50-ER40	171	40	98	104	43	65	56	63	88	4~26	15	80/85/110	9.5
AHA-NT50-ER32	171	40	98	104	39	65	56	50	88	3~20	15	80/85/110	9.5
AHA-NT50-ER40	171	40	98	104	43	65	56	63	88	4~26	15	80/85/110	9.5
AHA-SK40-ER32	170	40	98	104	39	65	56	50	88	3~20	15	65/80/85	7.8
AHA-SK50-ER32	171	40	98	104	39	65	56	50	88	3~20	15	80/85/110	9.5
AHA-SK40-ER40	170	40	98	104	43	65	56	63	88	4~26	15	65/80/85	7.8
AHA-SK50-ER40	171	40	98	104	43	65	56	63	88	4~26	15	80/85/110	9.5
AHA-CAT40-ER32	170	40	98	104	39	65	56	50	88	3~20	15	65/80/85	7.8
AHA-CAT50-ER32	171	40	98	104	39	65	56	50	88	3~20	15	80/85/110	9.5
AHA-CAT40-ER40	170	40	98	104	43	65	56	63	88	4~26	15	65/80/85	7.8
AHA-CAT50-ER40	171	40	98	104	43	65	56	63	88	4~26	15	80/85/110	9.5
AHA-HSK63-ER32	175.7	40	98	104	39	65	56	50	88	3~20	15	65/80/85	7.8
AHA-HSK63-ER40	175.7	40	98	104	43	65	56	63	88	4~26	15	65/80/85	7.8

# AHA Type

## 90° 橫向銑頭

- 本體採用球狀石墨鑄鐵，剛性強，加工穩定。
- 適用主軸種類多樣化。夾持刀具種類、尺寸多樣化，ER32、ER40、FA25.4 型式，可涵蓋大部分加工應用。
- 自動刀庫換刀加工（僅錐度 50 橫銑頭可換刀），量化生產必備工具。
- 適用中、輕切削。

內孔偏擺度	0.002 mm
材質	球狀石墨鑄鐵
轉速	最高 6000 RPM
扭力	最大 50 Nm
齒輪比	1 : 0.81
適用主軸	BT, NT, SK(ISO), CAT, HSK
標準配件	開口扳手
出力軸轉向	反轉



## 90° Angle Head-FA

- 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. 50 Nm
Gear Ratio	1 : 0.81
Spindle Type	BT, NT, SK(ISO), CAT, HSK
Standard Accessory	Open End Wrench
Output Rotation	Reverse to Input Rotation



Unit : mm

Model No.	A	B	C	D	E max	F	G	H	I	J	K	L	N.W. (KG)
AHA-BT40-FA25.4	160	40	98	104	12	65	56	50	88	25.4	15	65/80/85	7.8
AHA-BT50-FA25.4	171	40	98	104	12	65	56	50	88	25.4	15	80/85/110	9.5
AHA-NT50-FA25.4	171	40	98	104	12	65	56	50	88	25.4	15	80/85/110	9.5
AHA-SK40-FA25.4	160	40	98	104	12	65	56	50	88	25.4	15	65/80/85	7.8
AHA-SK50-FA25.4	171	40	98	104	12	65	56	50	88	25.4	15	80/85/110	9.5
AHA-CAT40-FA25.4	160	40	98	104	12	65	56	50	88	25.4	15	65/80/85	7.8
AHA-CAT50-FA25.4	171	40	98	104	12	65	56	50	88	25.4	15	80/85/110	9.5
AHA-HSK63-FA25.4	175.7	40	98	104	12	65	56	50	88	25.4	15	65/80/85	7.8

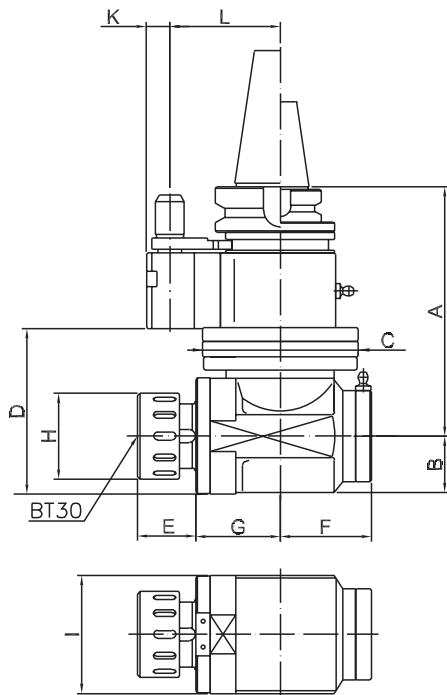
AHA-FA

# AHB Type

## 90° 橫向銑頭

- 本體採用球狀石墨鑄鐵，剛性強，加工穩定。
- BT30 刀具接合介面，提供各種 BT30 刀具之彈性應用，涵蓋大部份加工應用。
- 自動刀庫換刀加工（僅錐度 50 橫銑頭可換刀），量化生產必備工具。

內孔偏擺度	0.002 mm
材質	球狀石墨鑄鐵
轉速	最高 6000 RPM
扭力	最大 70 Nm
鑽孔	最大 20mm
攻牙	最大 M16
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT
標準配件	鉤形扳手、開口扳手、BT 螺帽
出力軸轉向	反轉



## 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.

Run-out	0.002 mm
Material	Ductile Cast Iron
R.P.M.	Max. 6000 RPM
Torque	Max. 70 Nm
Drilling	Max. 20mm
Tapping	Max. M16
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

Model No.	A	B	C	D	E max	F	G	H	I	K	L	N.W. (KG)
AHB-BT40-BT30	192	44.5	120	128	45	70	65	66	90	17	70/80/85	12.1
AHB-BT50-BT30	195	44.5	120	128	45	70	65	66	90	17	80/85/110	14.7
AHB-SK40-BT30	192	44.5	120	128	45	70	65	66	90	17	70/80/85	12.1
AHB-SK50-BT30	195	44.5	120	128	45	70	65	66	90	17	80/85/110	14.7
AHB-CAT40-BT30	192	44.5	120	128	45	70	65	66	90	17	70/80/85	12.1
AHB-CAT50-BT30	195	44.5	120	128	45	70	65	66	90	17	80/85/110	14.7

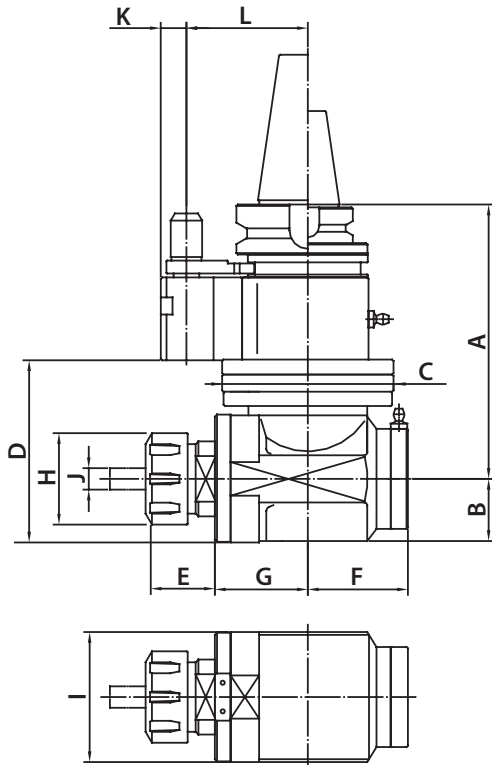


# AHB Type

## 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（僅錐度 50 橫銑頭可換刀），量化生產必備工具。

內孔偏擺度	0.002 mm
材質	球狀石墨鑄鐵
轉速	最高 6000 RPM
扭力	最大 70 Nm
鑽孔	最大 20mm
攻牙	最大 M16
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT
標準配件	鉤形扳手、ER 扳手、ER 螺帽
出力軸轉向	反轉



## 90° Angle Head-ER

- 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.

Run-out	0.002 mm
Material	Ductile Cast Iron
R.P.M.	Max. 6000 RPM
Torque	Max. 70 Nm
Drilling	Max. 20mm
Tapping	Max. M16
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT
Standard Accessory	Hook Spanner ER Wrench, ER Nut
Output Rotation	Reverse to Input Rotation



Unit : mm

Model No.	A	B	C	D	E max	F	G	H	I	J	K	L	N.W. (KG)
AHB-BT40-ER40	192	44.5	120	128	43	70	65	63	90	4~26	17	70/80/85	12.1
AHB-BT50-ER40	195	44.5	120	128	43	70	65	63	90	4~26	17	80/85/110	14.7
AHB-SK40-ER40	192	44.5	120	128	43	70	65	63	90	4~26	17	70/80/85	12.1
AHB-SK50-ER40	195	44.5	120	128	43	70	65	63	90	4~26	17	80/85/110	14.7
AHB-CAT40-ER40	192	44.5	120	128	43	70	65	63	90	4~26	17	70/80/85	12.1
AHB-CAT50-ER40	195	44.5	120	128	43	70	65	63	90	4~26	17	80/85/110	14.7

AHB-ER

# AHC Type

## 90° 橫向銑頭

- 本體採用球狀石墨鑄鐵，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。
- 自動刀庫換刀加工（僅錐度 50 橫銑頭可換刀），量化生產必備工具。

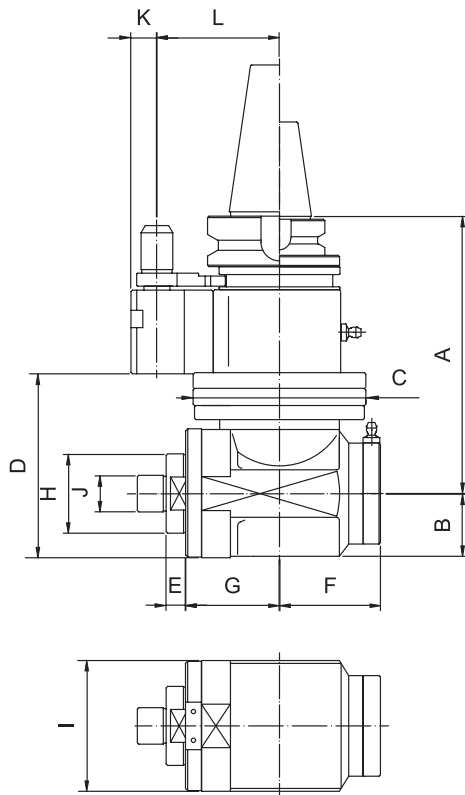
內孔偏擺度	0.002 mm
材質	球狀石墨鑄鐵
轉速	最高 6000 RPM
扭力	最大 70 Nm
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT
標準配件	開口扳手
出力軸轉向	反轉

## 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.

Run-out	0.002 mm
Material	Ductile Cast Iron
R.P.M.	Max. 6000 RPM
Torque	Max. 70 Nm
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT
Standard Accessory	Open End Wrench
Output Rotation	Reverse to Input Rotation

AHC-FA



Unit : mm

Model No.	A	B	C	D	E	F	G	H	I	J	K	L	N.W. (KG)
AHC-BT40-FA25.4	192	44.5	120	128	13.5	70	65	55	90	25.4	17	70/80/85	12.1
AHC-BT50-FA25.4	195	44.5	120	128	13.5	70	65	55	90	25.4	17	80/85/110	14.7
AHC-SK40-FA25.4	192	44.5	120	128	13.5	70	65	55	90	25.4	17	70/80/85	12.1
AHC-SK50-FA25.4	195	44.5	120	128	13.5	70	65	55	90	25.4	17	80/85/110	14.7
AHC-CAT40-FA25.4	192	44.5	120	128	13.5	70	65	55	90	25.4	17	70/80/85	12.1
AHC-CAT50-FA25.4	195	44.5	120	128	13.5	70	65	55	90	25.4	17	80/85/110	14.7

# AHD Type

## 加長型橫向銑頭

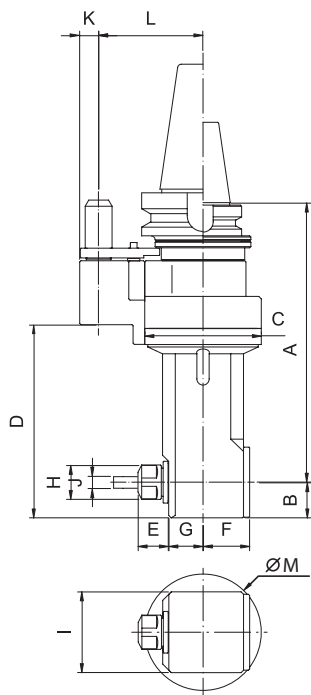
## Modular Angle Head-Longer

- 小型化設計、加長型下座，適用於深槽與深孔之內面加工。
- 自動刀庫換刀加工（僅錐度 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.

內孔偏擺度	0.002 mm
材質	球狀石墨鑄鐵
轉速	最高 4000 RPM
扭力	最大 25 Nm
鑽孔	最大 12mm
攻牙	最大 M10
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT, HSK
標準配件	鉤形扳手、ER 扳手、ER 螺帽
出力軸轉向	反轉

Run-out	0.002 mm
Material	Ductile Cast Iron
R.P.M.	Max. 4000 RPM
Torque	Max. 25 Nm
Drilling	Max. 12mm
Tapping	Max. M10
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT, HSK
Standard Accessory	Hook Spanner, ER Wrench, ER Nut
Output Rotation	Reverse to Input Rotation



Unit : mm

Model No.	A	B	C	D	E max	F	G	H	I	J	K	L	M	N.W. (KG)
AHD-BT40-A1	227.5	29	95	157	35	38	28	34	66	1~13(ER20)	14.5	65/80/85	116	8.4
AHD-BT50-A1	238.5	29	95	157	35	38	28	34	66	1~13(ER20)	14.5	80/85/110	116	11
AHD-SK40-A1	227.5	29	95	157	35	38	28	34	66	1~13(ER20)	14.5	65/80/85	116	8.1
AHD-SK50-A1	238.5	29	95	157	35	38	28	34	66	1~13(ER20)	14.5	80/85/110	116	10.8
AHD-CAT40-A1	227.5	29	95	157	35	38	28	34	66	1~13(ER20)	14.5	65/80/85	116	8.1
AHD-CAT50-A1	238.5	29	95	157	35	38	28	34	66	1~13(ER20)	14.5	80/85/110	116	10.8
AHD-HSK63-A1	238.9	29	95	157	35	38	28	34	66	1~13(ER20)	14.5	65/80/85	116	8.4
AHD-BT40-A3	227.5	29	95	157	47	38	28	43	66	2~16(ER25)	14.5	65/80/85	125	8.4
AHD-BT50-A3	238.5	29	95	157	47	38	28	43	66	2~16(ER25)	14.5	80/85/110	125	11
AHD-SK40-A3	227.5	29	95	157	47	38	28	43	66	2~16(ER25)	14.5	65/80/85	125	8.1
AHD-SK50-A3	238.5	29	95	157	47	38	28	43	66	2~16(ER25)	14.5	80/85/110	125	10.8
AHD-CAT40-A3	227.5	29	95	157	47	38	28	43	66	2~16(ER25)	14.5	65/80/85	125	8.1
AHD-CAT50-A3	238.5	29	95	157	47	38	28	43	66	2~16(ER25)	14.5	80/85/110	125	10.8
AHD-HSK63-A3	238.9	29	95	157	47	38	28	43	66	2~16(ER25)	14.5	65/80/85	125	8.4

※ 此系列橫銑頭可選購延長器，以增加本體長度，詳細規格請見 P34。

※ For longer length, Extension is available, whose specification is shown on P34.

AHD-A1/A3

# AHD Type

## 小型橫向銑頭

## Modular Angle Head - Compact

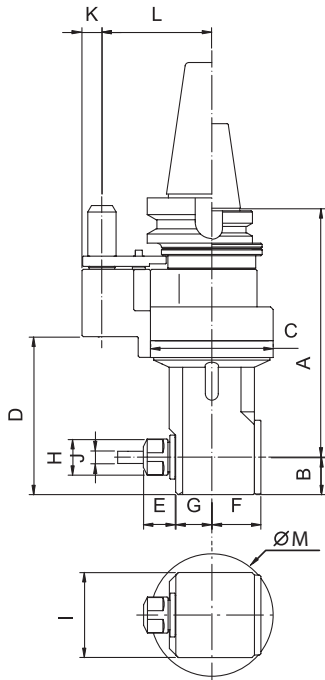
- 小型化外部設計，內面加工的最佳選擇。
- 自動刀庫換刀加工，量化生產必備工具。

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

內孔偏擺度	0.002 mm
材質	球狀石墨鑄鐵
轉速	最高 4000 RPM
扭力	最大 25 Nm
鑽孔	最大 12mm
攻牙	最大 M10
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT, HSK
標準配件	鉤形扳手、ER 扳手、ER 螺帽
出力軸轉向	反轉

Run-out	0.002 mm
Material	Ductile Cast Iron
R.P.M.	Max. 4000 RPM
Torque	Max. 25 Nm
Drilling	Max. 12mm
Tapping	Max. M10
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT, HSK
Standard Accessory	Hook Spanner, ER Wrench, ER Nut
Output Rotation	Reverse to Input Rotation

AHD-A2/A4



Unit : mm

Model No.	A	B	C	D	E max	F	G	H	I	J	K	L	M	N.W. (KG)
AHD-BT40-A2	192.5	29	95	122	35	38	28	34	66	1~13(ER20)	14.5	65/80/85	116	7.2
AHD-BT50-A2	203.5	29	95	122	35	38	28	34	66	1~13(ER20)	14.5	80/85/110	116	10
AHD-SK40-A2	192.5	29	95	122	35	38	28	34	66	1~13(ER20)	14.5	65/80/85	116	6.9
AHD-SK50-A2	203.5	29	95	122	35	38	28	34	66	1~13(ER20)	14.5	80/85/110	116	9.8
AHD-CAT40-A2	192.5	29	95	122	35	38	28	34	66	1~13(ER20)	14.5	65/80/85	116	6.9
AHD-CAT50-A2	203.5	29	95	122	35	38	28	34	66	1~13(ER20)	14.5	80/85/110	116	9.8
AHD-HSK63-A2	203.9	29	95	122	35	38	28	34	66	1~13(ER20)	14.5	65/80/85	116	7.2
AHD-BT40-A4	192.5	29	95	122	47	38	28	43	66	2~16(ER25)	14.5	65/80/85	125	7.2
AHD-BT50-A4	203.5	29	95	122	47	38	28	43	66	2~16(ER25)	14.5	80/85/110	125	10
AHD-SK40-A4	192.5	29	95	122	47	38	28	43	66	2~16(ER25)	14.5	65/80/85	125	6.9
AHD-SK50-A4	203.5	29	95	122	47	38	28	43	66	2~16(ER25)	14.5	80/85/110	125	9.8
AHD-CAT40-A4	192.5	29	95	122	47	38	28	43	66	2~16(ER25)	14.5	65/80/85	125	6.9
AHD-CAT50-A4	203.5	29	95	122	47	38	28	43	66	2~16(ER25)	14.5	80/85/110	125	9.8
AHD-HSK63-A4	203.9	29	95	122	47	38	28	43	66	2~16(ER25)	14.5	65/80/85	125	7.2

※ 此系列橫銑頭可選購延長器，以增加本體長度，詳細規格請見 P34。

※ For longer length, Extension is available, whose specification is shown on P34.

# AHD Type

## 45° 橫向銑頭

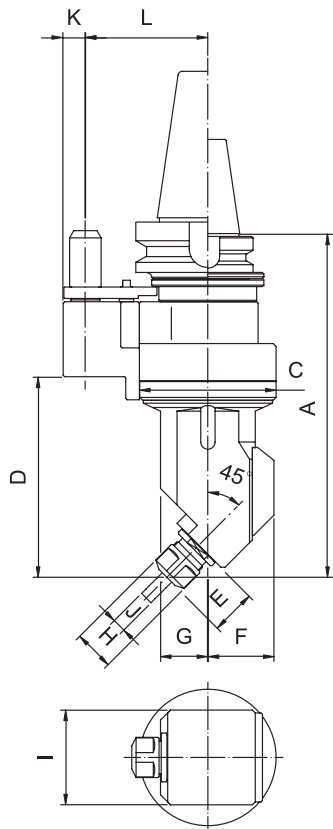
## Modular Angle Head-45°

- 45° 設計，適用於 45° 鑽銑加工與曲面加工等。
- 自動刀庫換刀加工（僅錐度 50 橫銑頭可換刀），量化生產必備工具。

- 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.

內孔偏擺度	0.002 mm
材質	球狀石墨鑄鐵
轉速	最高 4000 RPM
扭力	最大 15 Nm
鑽孔	最大 10mm
攻牙	最大 M8
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT, HSK
標準配件	鉤形扳手、ER 扳手、ER 螺帽
出力軸轉向	反轉

Run-out	0.002 mm
Material	Ductile Cast Iron
R.P.M.	Max. 4000 RPM
Torque	Max. 15 Nm
Drilling	Max. 10mm
Tapping	Max. M8
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT, HSK
Standard Accessory	Hook Spanner, ER Wrench, ER Nut
Output Rotation	Reverse to Input Rotation



Unit : mm

Model No.	A	C	D	E max	F	G	H	I	J	K	L	N.W. (KG)
AHD-BT40-B1	241	95	141	35	45.5	33	34	66	1~13(ER20)	14.5	65/80/85	7.4
AHD-BT50-B1	251	95	141	35	45.5	33	34	66	1~13(ER20)	14.5	80/85/110	10.2
AHD-SK40-B1	241	95	141	35	45.5	33	34	66	1~13(ER20)	14.5	65/80/85	7.1
AHD-SK50-B1	251	95	141	35	45.5	33	34	66	1~13(ER20)	14.5	80/85/110	10
AHD-CAT40-B1	241	95	141	35	45.5	33	34	66	1~13(ER20)	14.5	65/80/85	7.1
AHD-CAT50-B1	251	95	141	35	45.5	33	34	66	1~13(ER20)	14.5	80/85/110	10
AHD-HSK63-B1	249.9	95	141	35	45.5	33	34	66	1~13(ER20)	14.5	65/80/85	7.4

※ 此系列橫銑頭可選購延長器，以增加本體長度，詳細規格請見 P34。

※ For longer length, Extension is available, whose specification is shown on P34.

AHD-B1

# AHG Type

## 萬向銑頭

## Universal Angle Head

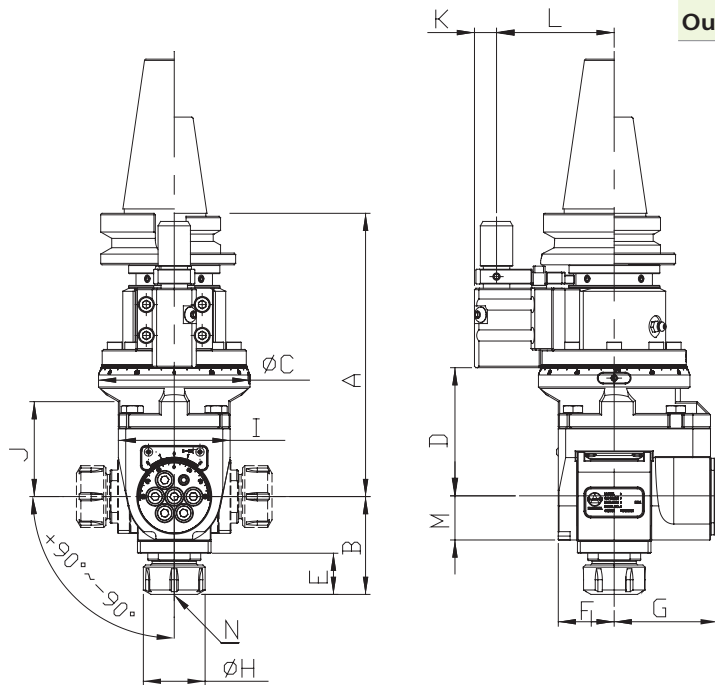
- 0°~±90°加工角度多樣化，適用於各種加工應用。
- 小型化設計、剛性高、防油、防塵佳、使用壽命長。
- 自動刀庫換刀加工（僅錐度 50 橫銑頭可換刀），量化生產必備工具。

- 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.

內孔偏擺度	0.002 mm
材質	合金鋼 & 球狀石墨鑄鐵
轉速	最高 4000 RPM
扭力	最大 20 Nm
鑽孔	最大 14mm
攻牙	最大 M10
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT
標準配件	開口扳手、ER 扳手、ER 螺帽
出力軸轉向	反轉

Run-out	0.002 mm
Material	Alloy Steel & Ductile Cast Iron
R.P.M.	Max. 4000 RPM
Torque	Max. 20 Nm
Drilling	Max. 14mm
Tapping	Max. M10
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

AHG-A1/A2



Unit : mm

Model NO.	A	B max	C	D	E max	F	G	H	I	J	K	L	M	N	N.W.(KG)
AHG-BT40-A1	184.5	88.5	103	87.6	33	38	70.7	43	76	64.5	15	65/80/85	29.5	2~16 (ER25)	9
AHG-BT50-A1	195.5	88.5	103	87.6	33	38	70.7	43	76	64.5	15	80/85/110	29.5	2~16 (ER25)	11.5
AHG-SK40-A1	184.5	88.5	103	87.6	33	38	70.7	43	76	64.5	15	65/80/85	29.5	2~16 (ER25)	9
AHG-SK50-A1	195.5	88.5	103	87.6	33	38	70.7	43	76	64.5	15	80/85/110	29.5	2~16 (ER25)	11.5
AHG-CAT40-A1	184.5	88.5	103	87.6	33	38	70.7	43	76	64.5	15	65/80/85	29.5	2~16 (ER25)	9
AHG-CAT50-A1	195.5	88.5	103	87.6	33	38	70.7	43	76	64.5	15	80/85/110	29.5	2~16 (ER25)	11.5
AHG-BT40-A2	184.5	96.5	103	87.6	40	38	70.7	50	76	64.5	15	65/80/85	29.5	3~20 (ER32)	9
AHG-BT50-A2	195.5	96.5	103	87.6	40	38	70.7	50	76	64.5	15	80/85/110	29.5	3~20 (ER32)	11.5
AHG-SK40-A2	184.5	96.5	103	87.6	40	38	70.7	50	76	64.5	15	65/80/85	29.5	3~20 (ER32)	9
AHG-SK50-A2	195.5	96.5	103	87.6	40	38	70.7	50	76	64.5	15	80/85/110	29.5	3~20 (ER32)	11.5
AHG-CAT40-A2	184.5	96.5	103	87.6	40	38	70.7	50	76	64.5	15	65/80/85	29.5	3~20 (ER32)	9
AHG-CAT50-A2	195.5	96.5	103	87.6	40	38	70.7	50	76	64.5	15	80/85/110	29.5	3~20 (ER32)	11.5

# AHK Type

## 鎖固式橫向銑頭

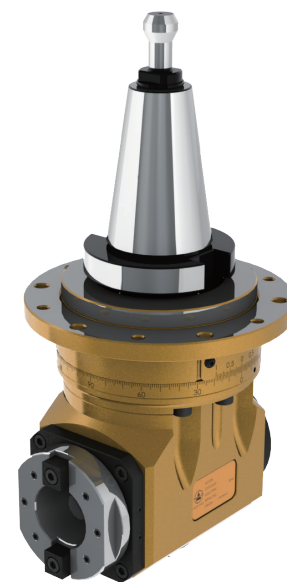
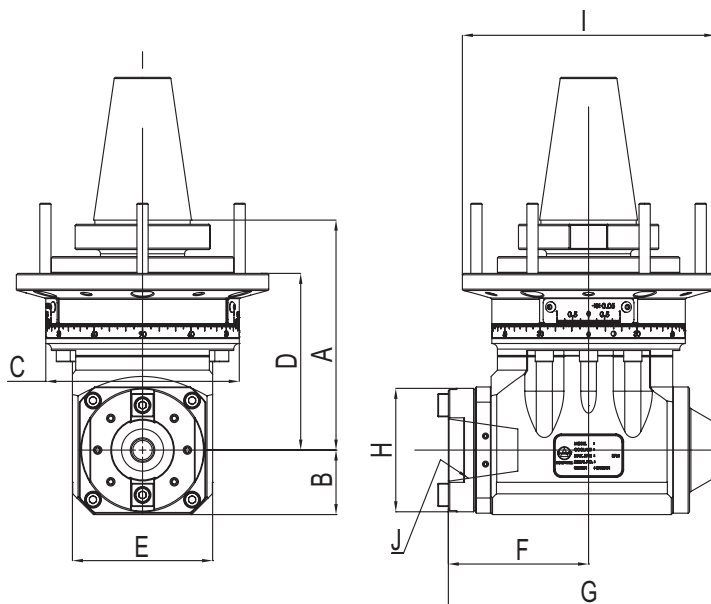
## Flange-Mounted Angle Head

- 錐度 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。
- 直接安裝於機台法蘭面。本體設計簡約，結構堅固。
- 藉由更換法蘭盤，可於相同錐度之各式機台上交替使用。
- 採用高硬度高精密螺旋傘齒輪，運轉穩定，壽命長。
- 可 360 度旋轉調整加工角度。

- 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.

內孔偏擺度	0.002 mm
材質	球狀石墨鑄鐵
轉速	最高 4000 RPM
扭力	最大 100 Nm
鑽孔	最大 24mm
攻牙	最大 M18
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

Run-out	0.002 mm
Material	Ductile Cast Iron
R.P.M.	Max. 4000 RPM
Torque	Max. 100 Nm
Drilling	Max. 24mm
Tapping	Max. M18
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

Model No.	A	B	C	D	E	F	G	H	I	J	N.W. (KG)
AHK-BT40-A1G	164	46	138	126	100	100	193	88	180	BT40	17.3
AHK-BT50-A1G	164	46	138	126	100	100	193	88	180	BT40	20
AHK-SK40-A1G	164	46	138	126	100	100	193	88	180	SK40	17.3
AHK-SK50-A1G	164	46	138	126	100	100	193	88	180	SK40	20
AHK-CAT40-A1G	164	46	138	126	100	100	193	88	180	CAT40	17.3
AHK-CAT50-A1G	164	46	138	126	100	100	193	88	180	CAT40	20

※ 此系列橫銑頭須採用法蘭盤定位塊，參見 P34。

※ For installation, this series of heads require Flange Disc shown on P34.

AHK-A1G

# AHK Type

## 鎖固式橫向銑頭

## Flange-Mounted Angle Head-Longer

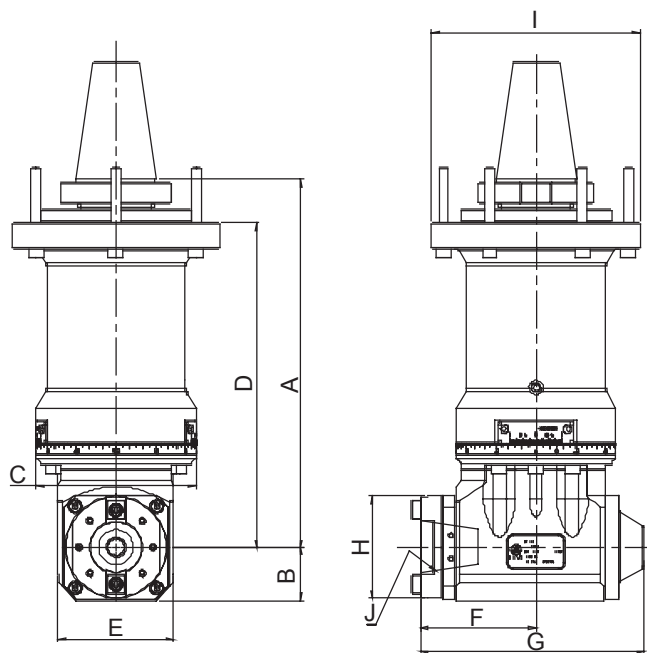
- 錐度 40 刀具接合介面，提供各種 BT40/SK40/CAT40 刀具之彈性應用，涵蓋大部分加工應用。
- 直接安裝於機台法蘭面。本體設計簡約，結構堅固。
- 藉由更換法蘭盤，可於相同錐度之各式機台上交替使用。
- 採用高硬度高精密螺旋傘齒輪，運轉穩定，壽命長。
- 可 360 度旋轉調整加工角度。

- 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.

AHK-A2G

內孔偏擺度	0.002 mm
材質	球狀石墨鑄鐵
轉速	最高 4000 RPM
扭力	最大 100 Nm
鑽孔	最大 24mm
攻牙	最大 M18
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

Run-out	0.002 mm
Material	Ductile Cast Iron
R.P.M.	Max. 4000 RPM
Torque	Max. 100 Nm
Drilling	Max. 24mm
Tapping	Max. M18
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

Model No.	A	B	C	D	E	F	G	H	I	J	N.W. (KG)
AHK-BT40-A2G	318	46	138	280	100	100	193	88	180	BT40	30.9
AHK-BT50-A2G	318	46	138	280	100	100	193	88	180	BT40	33.6
AHK-SK40-A2G	318	46	138	280	100	100	193	88	180	SK40	30.9
AHK-SK50-A2G	318	46	138	280	100	100	193	88	180	SK40	33.6
AHK-CAT40-A2G	318	46	138	280	100	100	193	88	180	CAT40	30.9
AHK-CAT50-A2G	318	46	138	280	100	100	193	88	180	CAT40	33.6

※ 此系列橫銑頭須採用法蘭盤定位塊，參見 P34。

※ For installation, this series of heads require Flange Disc shown on P34.



# AHK Type

## 鎖固式橫向銑頭

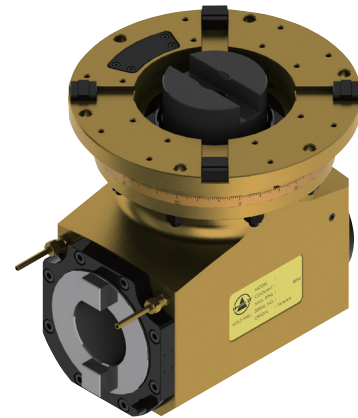
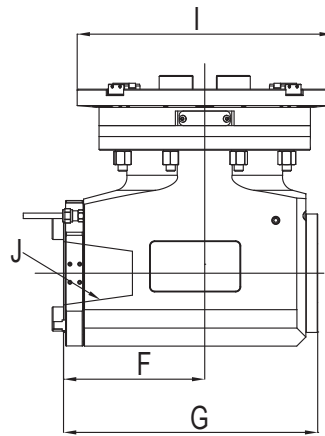
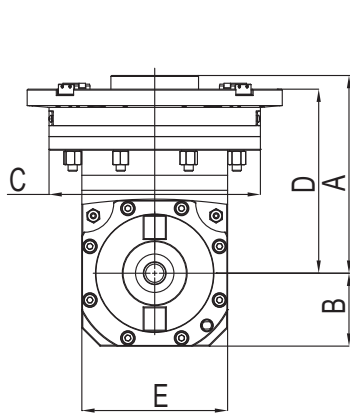
## Heavy Duty Angle Head

- 錐度 50 刀具接合介面，提供各種 BT50/SK50/CAT50 刀具之彈性應用，涵蓋大部分加工應用。
- 直接安裝於機台法蘭面。本體設計簡約，結構堅固。
- 可 360 度旋轉調整加工角度。

- The output interface of Taper50 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.

內孔偏擺度	0.002 mm
材質	球狀石墨鑄鐵
轉速	最高 4000 RPM
扭力	最大 300 Nm
鑽孔	最大 40mm
攻牙	最大 M30
齒輪比	1 : 1
適用主軸	BT, NT, SK(ISO), CAT
標準配件	開口扳手、L 型扳手
出力軸轉向	正轉

Run-out	0.002 mm
Material	Ductile Cast Iron
R.P.M.	Max. 4000 RPM
Torque	Max. 300 Nm
Drilling	Max. 40mm
Tapping	Max. M30
Gear Ratio	1 : 1
Spindle Type	BT, NT, SK(ISO), CAT
Standard Accessory	Open End Wrench, L Type Wrench
Output Rotation	Same as Input Rotation



Unit : mm

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

※ 此系列橫銑頭須採用法蘭盤定位塊，參見 P34。

※ For installation, this series of heads require Flange Disc shown on P34.

AHK-A3

# AHK Type

## 抓刀式橫向銑頭

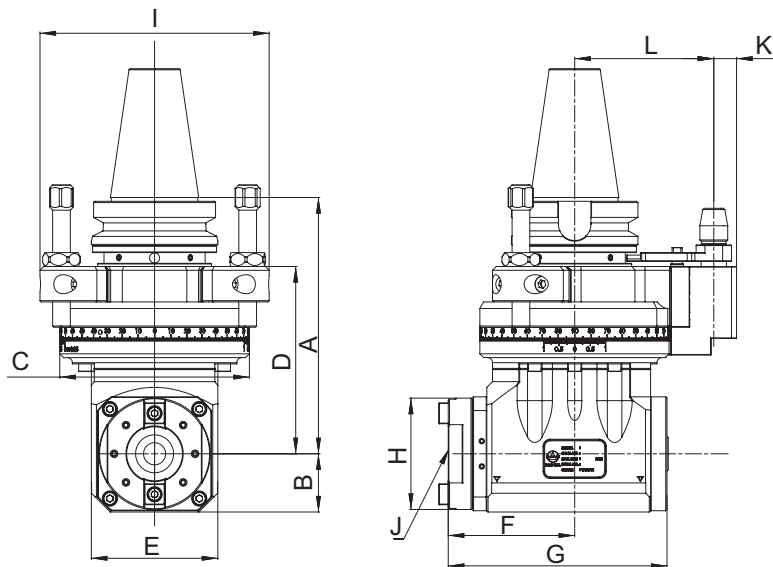
## Multi - Block Angle Head-BT

- 錐度 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。
- 採用高硬度高精密螺旋傘齒輪，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。

- 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.

內孔偏擺度	0.002 mm
材質	合金鋼
轉速	最高 4000 RPM
扭力	最大 100 Nm
鑽孔	最大 24mm
攻牙	最大 M18
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

Run-out	0.002 mm
Material	Alloy Steel
R.P.M.	Max. 4000 RPM
Torque	Max. 100 Nm
Drilling	Max. 24mm
Tapping	Max. M18
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

Model No.	A	B	C	D	E	F	G	H	I	J	K	L	N.W. (KG)
AHK-BT50-B1	202.5	46	150	148	100	100	193	88	239	BT40	18	110	22.5
AHK-SK50-B1	202.5	46	150	148	100	100	193	88	239	SK40	18	110	22.5
AHK-CAT50-B1	202.5	46	150	148	100	100	193	88	239	CAT40	18	110	22.5

# AHK Type

## 抓刀式橫向銑頭

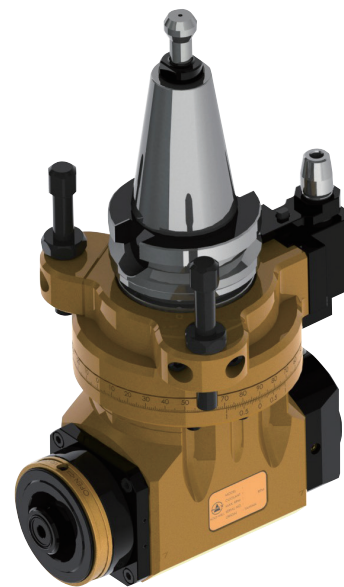
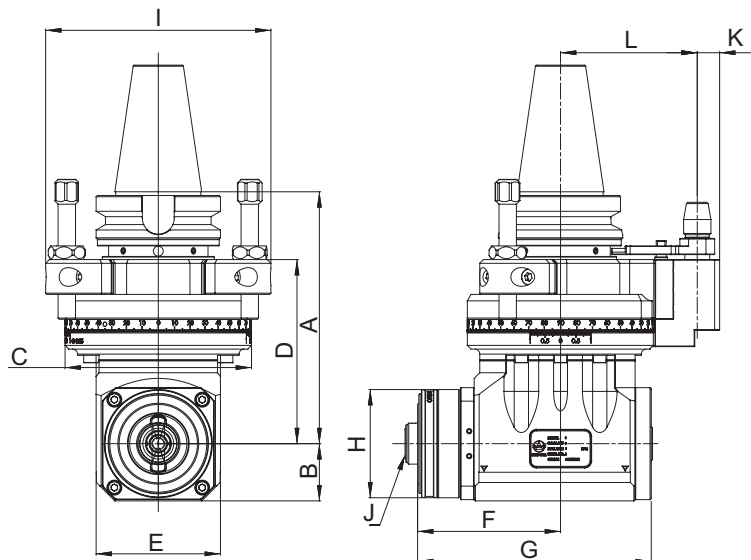
## Multi - Block Angle Head-HSK

- 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。
- 採用高硬度高精密螺旋傘齒輪，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。

- 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.

內孔偏擺度	0.002 mm
材質	合金鋼
轉速	最高 4000 RPM
扭力	最大 100 Nm
鑽孔	最大 24mm
攻牙	最大 M18
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

Run-out	0.002 mm
Material	Alloy Steel
R.P.M.	Max. 4000 RPM
Torque	Max. 100 Nm
Drilling	Max. 24mm
Tapping	Max. M18
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

Model No.	A	B	C	D	E	F	G	H	I	J	K	L	N.W. (KG)
AHK-BT50-B2	202.5	46	150	148	100	115	208	87	239	HSK63	18	110	23.4
AHK-SK50-B2	202.5	46	150	148	100	115	208	87	239	HSK63	18	110	23.4
AHK-CAT50-B2	202.5	46	150	148	100	115	208	87	239	HSK63	18	110	23.4

AHK-B2

# AHK Type

## 抓刀式橫向銑頭 (中心出水)



## Multi - Block Angle Head -HSK (Int.)

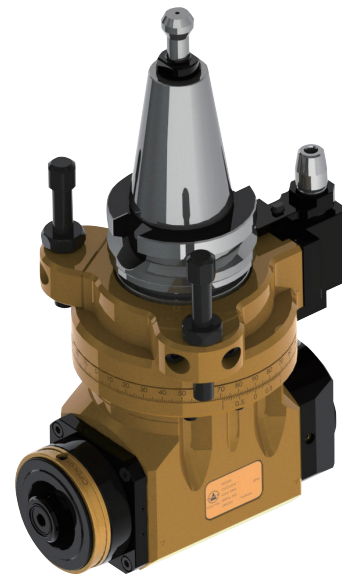
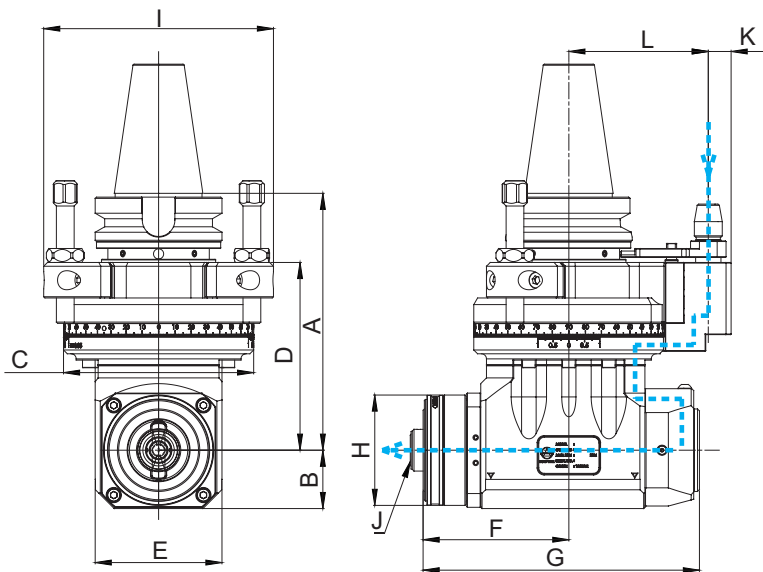
AHK-B2-1

- 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。
- 採用高硬度高精度螺旋傘齒輪，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。

- 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.

內孔偏擺度	0.002 mm
材質	合金鋼
轉速	最高 4000 RPM
扭力	最大 100 Nm
鑽孔	最大 24mm
攻牙	最大 M18
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
中心出水	30 bar

Run-out	0.002 mm
Material	Alloy Steel
R.P.M.	Max. 4000 RPM
Torque	Max. 100 Nm
Drilling	Max. 24mm
Tapping	Max. M18
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

Model No.	A	B	C	D	E	F	G	H	I	J	K	L	N.W. (KG)
AHK-BT50-B2-1	202.5	46	150	148	100	115	218	87	239	HSK63	18	110	23.4
AHK-SK50-B2-1	202.5	46	150	148	100	115	218	87	239	HSK63	18	110	23.4
AHK-CAT50-B2-1	202.5	46	150	148	100	115	218	87	239	HSK63	18	110	23.4

※ Int. : 中心出水 Internal Coolant

# AHK Type

## 法蘭型自動換刀橫向銑頭 (立車)

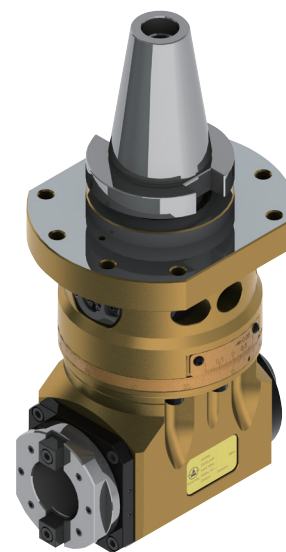
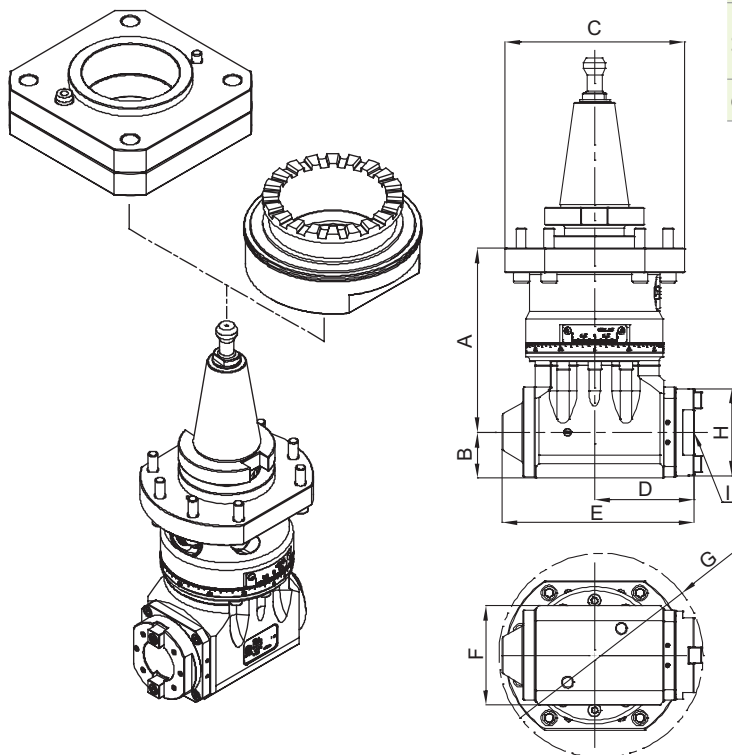
## Flange - Mounted Angle Head (VTC)

- 搭配轉接盤，可於立式車床、龍門銑床等各種不同機台上使用。
- 主軸定位結構，可配合刀庫規格設計，自動換刀入刀庫。
- 可與齒型連結盤或機台主軸端面形狀連結，達到最佳化剛性。
- 採用高硬度高精密螺旋傘齒輪，運轉穩定，壽命長。
- 可 360 度旋轉調整加工角度。

- 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.

內孔偏擺度	0.002 mm
材質	合金鋼
轉速	最高 4000 RPM
扭力	最大 100 Nm
鑽孔	最大 24mm
攻牙	最大 M18
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

Run-out	0.002 mm
Material	Alloy Steel
R.P.M.	Max. 4000 RPM
Torque	Max. 100 Nm
Drilling	Max. 24mm
Tapping	Max. M18
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

Model No.	A	B	C	D	E	F	G	H	I	N.W.(KG)
AHK-BT50-C1	185	46	180	100	193	100	205	88	BT40	25.7
AHK-SK50-C1	185	46	180	100	193	100	205	88	SK40	25.7
AHK-CAT50-C1	185	46	180	100	193	100	205	88	CAT40	25.7

AHK-C1

# AHK Type

## 鋁合金後縮鎖固式橫向銑頭

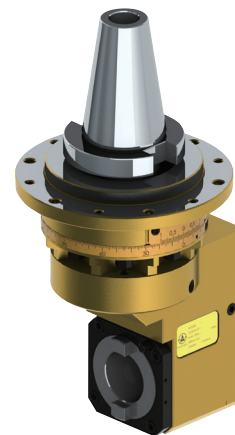
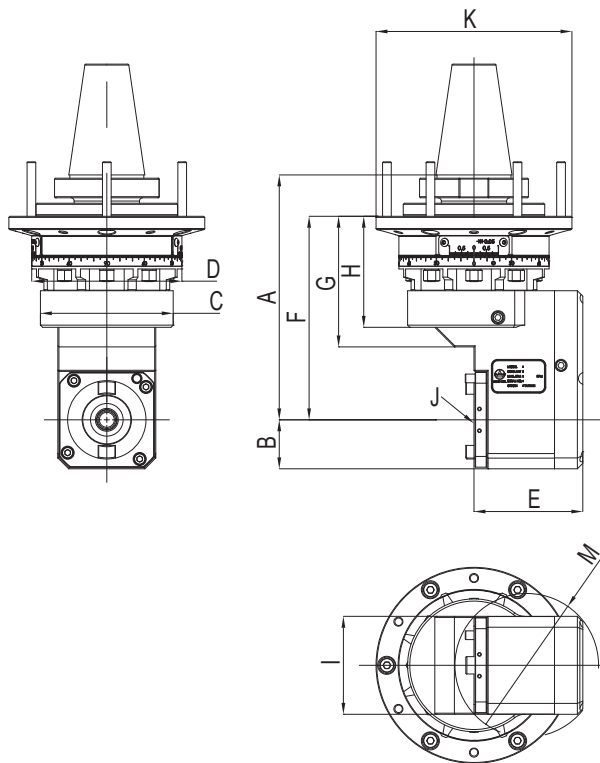
## Aluminum Offset Flange - Mounted Angle Head

- 錐度 40 刀具接合介面，提供各種 T40/SK40/CAT40 刀具之彈性應用，涵蓋大部分加工應用。
- 直接安裝於機台法蘭面。本體設計簡約，結構堅固。
- 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。
- 採用後縮設計，減少本體長度，降低工件干涉。
- 刀具加工支點靠近橫銑頭中心增加加工剛性。
- 拆刀、鎖刀扳手設計，方便拆鎖刀時固定橫向軸與施力。

- 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.

內孔偏擺度	0.002 mm
材質	航太用鋁合金 & 球狀石墨鑄鐵
轉速	最高 4000 RPM
扭力	最大 60 Nm
鑽孔	最大 20mm
攻牙	最大 M16
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT
標準配件	鎖刀板、L 型扳手
出力軸轉向	正轉

Run-out	0.002 mm
Material	Aerospace Alu. Alloy & Ductile Cast Iron
R.P.M.	Max. 4000 RPM
Torque	Max. 60 Nm
Drilling	Max. 20mm
Tapping	Max. M16
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT
Standard Accessory	Tool-Locking Plate L Type Wrench
Output Rotation	Same as Input Rotation



Unit : mm

Model NO.	A	B	C	D	E	F	G	H	I	J	K	M	N.W.(KG)
AHK-BT40-D1	225	45	122	138	100	187	120	102	90	BT40	180	132	17.6
AHK-BT50-D1	225	45	122	138	100	187	120	102	90	BT40	180	132	20.3
AHK-SK40-D1	225	45	122	138	100	187	120	102	90	SK40	180	132	17.6
AHK-SK50-D1	225	45	122	138	100	187	120	102	90	SK40	180	132	20.3
AHK-CAT40-D1	225	45	122	138	100	187	120	102	90	CAT40	180	132	17.6
AHK-CAT50-D1	225	45	122	138	100	187	120	102	90	CAT40	180	132	20.3

※ 此系列橫銑頭須採用法蘭盤定位塊，參見 P34。

※ For installation, this series of heads require Flange Disc shown on P34.

# AHL Type

## 輕量化橫向銑頭

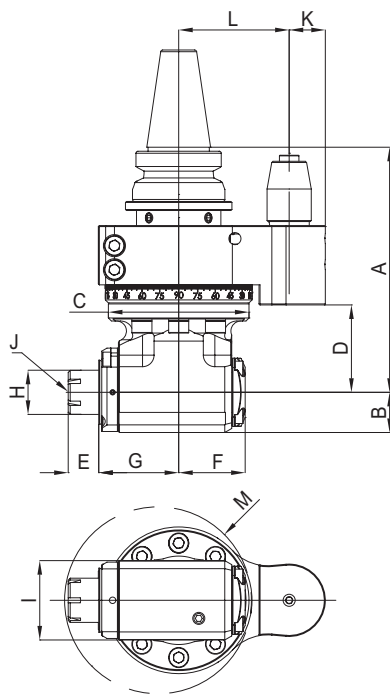
## Light Angle Head

- 輕量化設計，適用於鑽銑加工及攻牙加工。
- 自動刀庫換刀加工，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。

- 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.

內孔偏擺度	0.002 mm
材質	合金鋼
轉速	最高 8000 RPM
扭力	最大 12 Nm
鑽孔	最大 10mm
攻牙	最大 M8
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT, HSK
標準配件	M 型扳手、L 型扳手、ER 螺帽
出力軸轉向	反轉

Run-out	0.002 mm
Material	Alloy Steel
R.P.M.	Max. 8000 RPM
Torque	Max. 12 Nm
Drilling	Max. 10mm
Tapping	Max. M8
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT, HSK
Standard Accessory	M Type Wrench L Type Wrench, ER Nut
Output Rotation	Reverse to Input Rotation



Unit : mm

Model No.	A	B	C	D	E max	F	G	H	I	J	K	L	M	N.W. (KG)
AHL-BT30-A1.55G	122	20	70	43.5	19	33.1	39.8	22	39.5	1~10 ( ER16 )	18	55	93	3
AHL-BT30-A1.65G	122	20	70	43.5	19	33.1	39.8	22	39.5	1~10 ( ER16 )	18	65	93	3
AHL-BT40-A1.55G	122	20	70	43.5	19	33.1	39.8	22	39.5	1~10 ( ER16 )	18	55	93	3.3
AHL-BT40-A1.65G	122	20	70	43.5	19	33.1	39.8	22	39.5	1~10 ( ER16 )	18	65	93	3.3
AHL-SK30-A1.55G	131.5	20	70	43.5	19	33.1	39.8	22	39.5	1~10 ( ER16 )	18	55	93	3
AHL-SK30-A1.65G	131.5	20	70	43.5	19	33.1	39.8	22	39.5	1~10 ( ER16 )	18	65	93	3
AHL-SK40-A1.55G	131.5	20	70	43.5	19	33.1	39.8	22	39.5	1~10 ( ER16 )	18	55	93	3.3
AHL-SK40-A1.65G	131.5	20	70	43.5	19	33.1	39.8	22	39.5	1~10 ( ER16 )	18	65	93	3.3
AHL-CAT40-A1.55G	131.5	20	70	43.5	19	33.1	39.8	22	39.5	1~10 ( ER16 )	18	55	93	3.3
AHL-CAT40-A1.65G	131.5	20	70	43.5	19	33.1	39.8	22	39.5	1~10 ( ER16 )	18	65	93	3.3
AHL-HSK63-A1.55G	137.5	20	70	43.5	19	33.1	39.8	22	39.5	1~10 ( ER16 )	18	55	93	3.3
AHL-HSK63-A1.65G	137.5	20	70	43.5	19	33.1	39.8	22	39.5	1~10 ( ER16 )	18	65	93	3.3

AHL-A1G

# AHL Type

## 90° 橫向銑頭

## 90° Angle Head

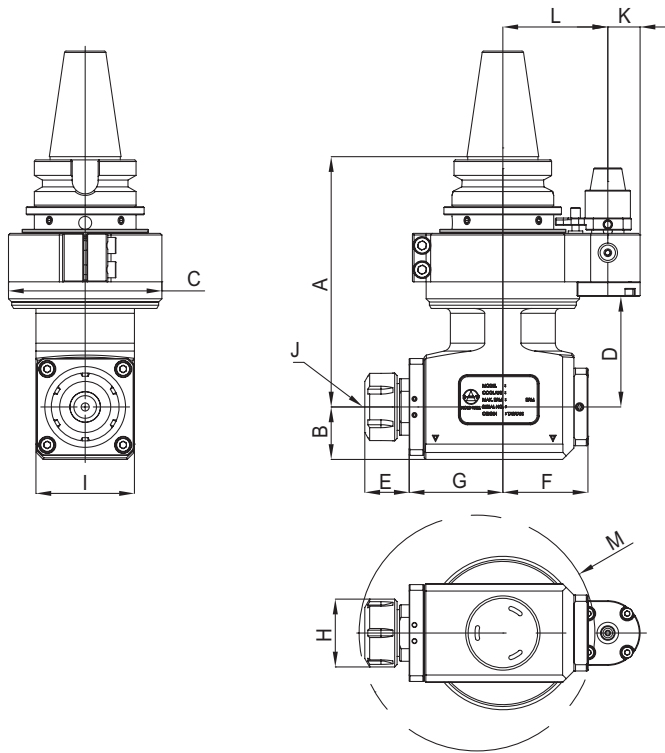
- 輕量化設計，適用於鑽銑加工及攻牙加工。
- 自動刀庫換刀加工，量化生產必備工具。
- 環抱型定位塊設計，可 360 度旋轉調整加工角度，並加強鎖固力道及加工角度精確性。

- 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.

AHL-A2/A3

內孔偏擺度	0.002 mm
材質	航太用鋁合金 / 球狀石墨鑄鐵 / 合金鋼
轉速	最高 6000 RPM
扭力	最大 30 Nm
鑽孔	最大 16mm
攻牙	最大 M12
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT
標準配件	開口扳手、ER 扳手、ER 螺帽
出力軸轉向	反轉

Run-out	0.002 mm
Material	Aerospace Alu. Alloy / Ductile Cast Iron / Alloy Steel
R.P.M.	Max. 6000 RPM
Torque	Max. 30 Nm
Drilling	Max. 16mm
Tapping	Max. M12
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



Unit : mm

Model NO.	A	B	C	D	E max	F	G	H	I	J	K	L	M	N.W.(KG)
AHL-BT40-A2.65	155	32.5	95	68.5	32	52.7	58	43	61	1~16 (ER25)	20	65	146	6.7
AHL-BT50-A2.80/110	162	32.5	95	68.5	32	52.7	58	43	61	1~16 (ER25)	20	80/110	146	9.1
AHL-SK40-A2.65	160.5	32.5	95	68.5	32	52.7	58	43	61	1~16 (ER25)	20	65	146	6.7
AHL-SK50-A2.80/110	162	32.5	95	68.5	32	52.7	58	43	61	1~16 (ER25)	20	80/110	146	9.1
AHL-CAT40-A2.65	160.5	32.5	95	68.5	32	52.7	58	43	61	1~16 (ER25)	20	65	146	6.7
AHL-CAT50-A2.80/110	162	32.5	95	68.5	32	52.7	58	43	61	1~16 (ER25)	20	80/110	146	9.1
AHL-BT40-A3.65	155	32.5	95	68.5	34	52.7	58	50	61	3~20 (ER32)	20	65	152	6.7
AHL-BT50-A3.80/110	162	32.5	95	68.5	34	52.7	58	50	61	3~20 (ER32)	20	80/110	152	9.1
AHL-SK40-A3.65	160.5	32.5	95	68.5	34	52.7	58	50	61	3~20 (ER32)	20	65	152	6.7
AHL-SK50-A3.80/110	162	32.5	95	68.5	34	52.7	58	50	61	3~20 (ER32)	20	80/110	152	9.1
AHL-CAT40-A3.65	160.5	32.5	95	68.5	34	52.7	58	50	61	3~20 (ER32)	20	65	152	6.7
AHL-CAT50-A3.80/110	162	32.5	95	68.5	34	52.7	58	50	61	3~20 (ER32)	20	80/110	152	9.1



# AHL Type

## 微型橫向銑頭

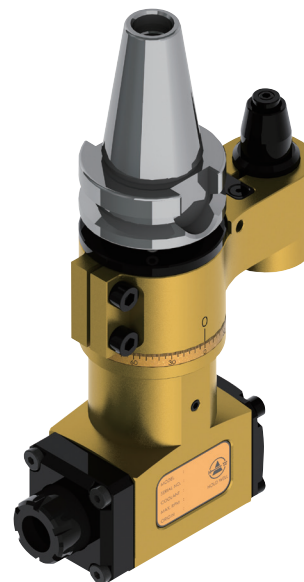
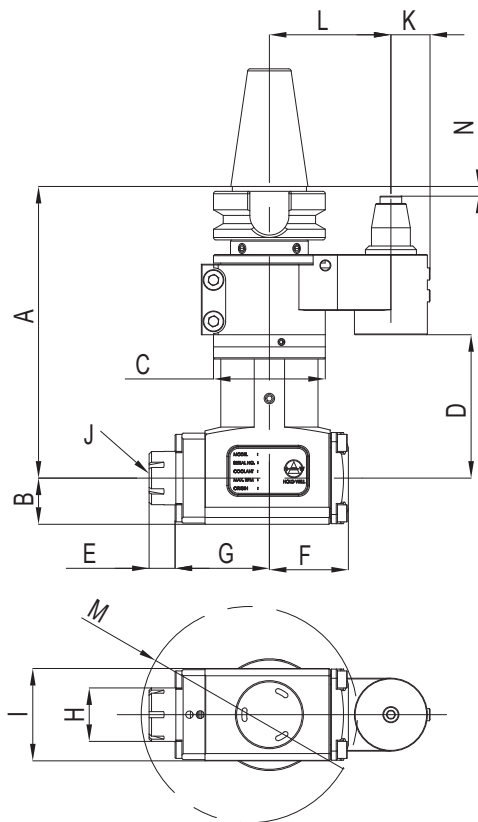
## Mini Angle Head

- 輕量化設計，適用於鑽銑加工及攻牙加工。
- 自動刀庫換刀加工，量產生產必備工具。
- 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。

- 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.

內孔偏擺度	0.002 mm
材質	航太用鋁合金 & 合金鋼
轉速	最高 8000 RPM
扭力	最大 8 Nm
鑽孔	最大 10 mm
攻牙	最大 M6
齒輪比	1 : 1
適用主軸	BT
標準配件	開口扳手、ER 扳手、ER 螺帽
出力軸轉向	反轉

Run-out	0.002 mm
Material	Aerospace Alu. Alloy & Alloy Steel
R.P.M.	Max. 8000 RPM
Torque	Max. 8 Nm
Drilling	Max 10 mm
Tapping	Max M6
Gear Ratio	1 : 1
Spindle Type	BT
Standard Accessory	Open End Wrench, ER Wrench, ER Nut
Output Rotation	Reverse to Input Rotation



Unit : mm

Model NO.	A	B	C	D	E max	F	G	H	I	J	K	L	M	N	N.W.(KG)
AHL-BT30-A4.50G	120	19	46	59	16	32.5	38.8	22	38	1~10 (ER16)	16	50	89	14	1.8
AHL-BT30-A4.50SG	120	19	46	59	16	32.5	38.8	22	38	1~10 (ER16)	16	50	89	4	1.8
AHL-BT30-A4.65G	120	19	46	59	16	32.5	38.8	22	38	1~10 (ER16)	16	65	89	14	1.8
AHL-BT30-A4.65SG	120	19	46	59	16	32.5	38.8	22	38	1~10 (ER16)	16	65	89	4	1.8

AHL-A4G

# AHL Type

## 輕量化萬向銑頭

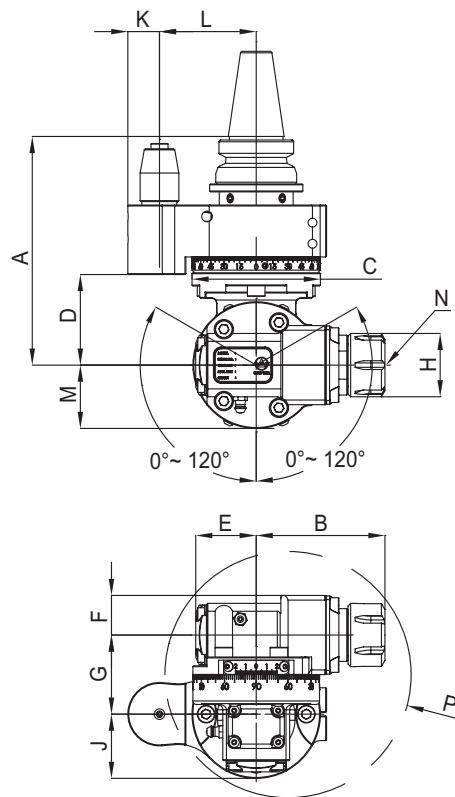
## Light Angle Head-Universal

- 0° ~ ±120°加工角度多樣化，適用於各種加工應用。
- 小型化設計、剛性高、防油、防塵佳、使用壽命長。
- 自動刀庫換刀加工，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。

- Cutting angle can be set from 0° ~ ±120° 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.

內孔偏擺度	0.002 mm
材質	合金鋼
轉速	最高 6000 RPM
扭力	最大 9 Nm
鑽孔	最大 10 mm
攻牙	最大 M6
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT
標準配件	開口扳手、ER 扳手、ER 螺帽
出力軸轉向	正轉

Run-out	0.002 mm
Material	Alloy Steel
R.P.M.	Max. 6000 RPM
Torque	Max. 9 Nm
Drilling	Max 10 mm
Tapping	Max M6
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT
Standard Accessory	Open End Wrench, ER Wrench, ER Nut
Output Rotation	Same as Input Rotation



Unit : mm

Model No.	A	B max	C	D	E	F	G	H	J	K	L	M	N	P	N.W (KG)
AHL-BT30-B1.55G	130	76	73	51.5	34.4	22.5	45	36	36.5	18	55	36	1~13 (ER20)	140	4
AHL-BT30-B1.65G	130	76	73	51.5	34.4	22.5	45	36	36.5	18	65	36	1~13 (ER20)	140	4
AHL-BT40-B1.65G	130	76	73	51.5	34.4	22.5	45	36	36.5	18	65	36	1~13 (ER20)	140	4.5
AHL-SK30-B1.55G	139.5	76	73	51.5	34.4	22.5	45	36	36.5	18	55	36	1~13 (ER20)	140	4
AHL-SK30-B1.65G	139.5	76	73	51.5	34.4	22.5	45	36	36.5	18	65	36	1~13 (ER20)	140	4
AHL-SK40-B1.65G	139.5	76	73	51.5	34.4	22.5	45	36	36.5	18	65	36	1~13 (ER20)	140	4.5
AHL-CAT40-B1.65G	139.5	76	73	51.5	34.4	22.5	45	36	36.5	18	65	36	1~13 (ER20)	140	4.5

# AHL Type

## 萬向銑頭

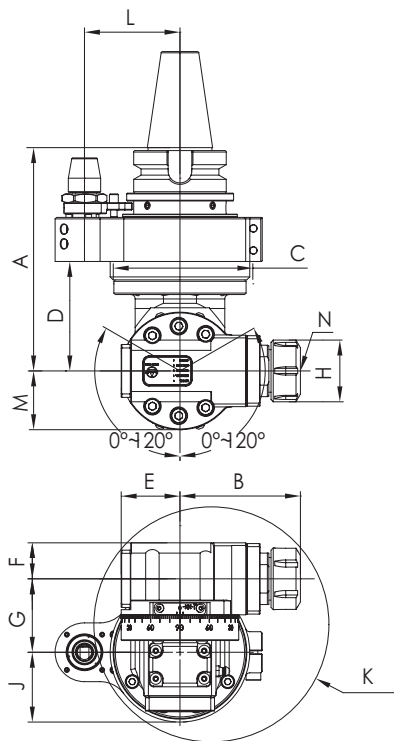
## Universal Angle Head

- 0°~±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。
- 自動刀庫換刀加工，量產生產必備工具。
- 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。

- 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.

內孔偏擺度	0.002 mm
材質	航太用鋁合金 / 球狀石墨鑄鐵 / 合金鋼
轉速	最高 5000 RPM
扭力	最大 20 Nm
鑽孔	最大 14 mm
攻牙	最大 M10
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT
標準配件	開口扳手、ER 扳手、ER 螺帽
出力軸轉向	正轉

Run-out	0.002 mm
Material	Aerospace Alu. Alloy / Ductile Cast Iron / Alloy Steel
R.P.M.	Max. 5000 RPM
Torque	Max. 20 Nm
Drilling	Max 14 mm
Tapping	Max M10
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT
Standard Accessory	Open End Wrench, ER Wrench, ER Nut
Output Rotation	Same as Input Rotation



Unit : mm

Model NO.	A	B Max	C	D	E	F	G	H	J	K	L	M	N	N.W.(KG)
AHL-BT40-B2.65G	155	86	95	74.5	40	24.5	50	42	40.5	160	65/80/110	40	1~16 (ER25)	6.9
AHL-SK40-B2.65G	157.5	86	95	74.5	40	24.5	50	42	40.5	160	65/80/110	40	1~16 (ER25)	6.9
AHL-CAT40-B2.65G	157.5	86	95	74.5	40	24.5	50	42	40.5	160	65/80/110	40	1~16 (ER25)	6.9
AHL-BT50-B2.65G	159	86	95	74.5	40	24.5	50	42	40.5	160	80/110	40	1~16 (ER25)	9.9
AHL-SK50-B2.65G	159	86	95	74.5	40	24.5	50	42	40.5	160	80/110	40	1~16 (ER25)	9.9
AHL-CAT50-B2.65G	159	86	95	74.5	40	24.5	50	42	40.5	160	80/110	40	1~16 (ER25)	9.9

AHL-B2G

# AHL Type

## 微型萬向銑頭

## Mini Angle Head - Universal

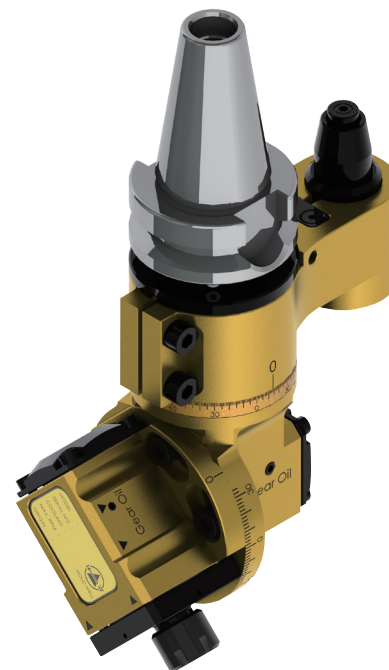
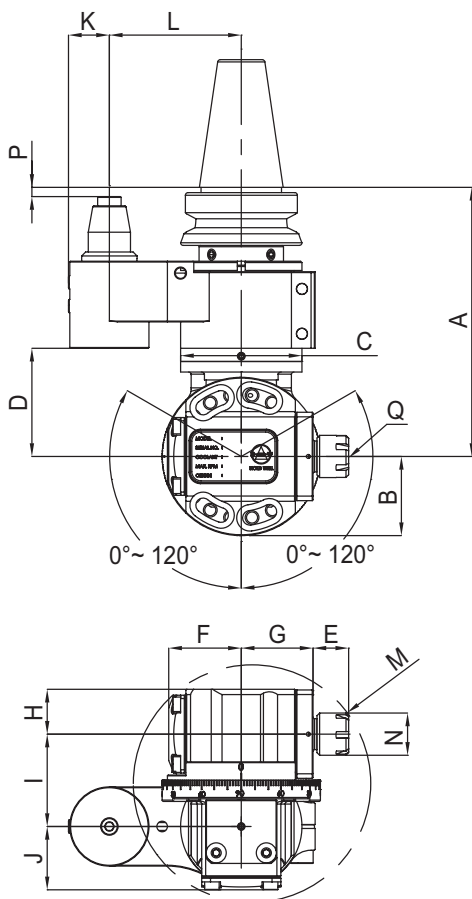
- 0°~±120°加工角度多樣化，適用於各種加工應用。
- 輕量化設計、剛性高、防油、防塵佳、使用壽命長。
- 自動刀庫換刀加工，量化生產必備工具。
- 環抱型定位塊設計，可 360 度旋轉調整加工角度，並加強鎖固力道及加工角度精確性。

- 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.

AHL-B3G

內孔偏擺度	0.002 mm
材質	航太用鋁合金 & 合金鋼
轉速	最高 6000 RPM
扭力	最大 8 Nm
鑽孔	最大 7 mm
攻牙	最大 M6
齒輪比	1 : 0.66
適用主軸	BT
標準配件	M 型扳手、插銷扳手
出力軸轉向	正轉

Run-out	0.002 mm
Material	Aerospace Alu. Alloy & Alloy Steel
R.P.M.	Max. 6000 RPM
Torque	Max. 8 Nm
Drilling	Max 7 mm
Tapping	Max M6
Gear Ratio	1 : 0.66
Spindle Type	BT
Standard Accessory	M Type Wrench, Pin Wrench
Output Rotation	Same as Input Rotation



Unit : mm

Model NO.	A	B	C	D	E max	F	G	H	I	J	K	L	M	N	P	Q	N.W.(KG)
AHL-BT30-B3.50G	102	30	46	41	15	27.5	27.2	17	35	24	15.5	50	90	16	14	1~7 (ER11)	1.8
AHL-BT30-B3.50SG	102	30	46	41	15	27.5	27.2	17	35	24	15.5	50	90	16	3.5	1~7 (ER11)	1.8
AHL-BT30-B3.65G	102	30	46	41	15	27.5	27.2	17	35	24	15.5	50	90	16	14	1~7 (ER11)	1.8
AHL-BT30-B3.65SG	102	30	46	41	15	27.5	27.2	17	35	24	15.5	50	90	16	3.5	1~7 (ER11)	1.8

# AHL Type

## 細長型橫向銑頭

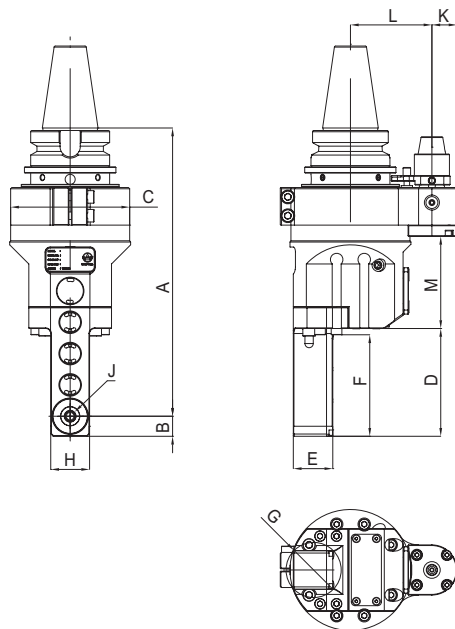
## Angle Head-Ultra Slim

- 小型化設計、加長型下座，適用於深槽與深孔之內面加工。
- 自動刀庫換刀加工，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。

- 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.

內孔偏擺	0.002mm
材質	合金鋼
轉速	最高 5000 RPM
扭力	最大 8 Nm
鑽孔	最大 6 mm
攻牙	最大 M5
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT
標準配件	T 型扳手
出力軸轉向	反轉

Run-out	0.002mm
Material	Alloy Steel
R.P.M.	Max. 5000 RPM
Torque	Max. 8 Nm
Drilling	Max. 6 mm
Tapping	Max. M5
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT
Standard Accessory	T Handle Hex. Wrench
Output Rotation	Reverse to Input Rotation



Unit : mm

Model No.	A	B	C	D	E	F	G	H	J	K	L	M	N.W. (KG)
AHL-BT40-C4.65	230	16	95	86	31.5	81	44	31	2~6 (ADC6)	20	65	73.5	6.6
AHL-BT50.C4.80/110	237	16	95	86	31.5	81	44	31	2~6 (ADC6)	20	80/110	73.5	9
AHL-SK40-C4.65	230	16	95	86	31.5	81	44	31	2~6 (ADC6)	20	65	73.5	6.6
AHL-SK50.C4.80/110	237	16	95	86	31.5	81	44	31	2~6 (ADC6)	20	80/110	73.5	9
AHL-CAT40-C4.65	230	16	95	86	31.5	81	44	31	2~6 (ADC6)	20	65	73.5	6.6
AHL-CAT50.C4.80/110	237	16	95	86	31.5	81	44	31	2~6 (ADC6)	20	80/110	73.5	9
AHL-BT40-C8.65	278	16	96.5	136	31.5	130	44	31	2~6 (ADC6)	20	65	73.5	6.6
AHL-BT50-C8.80	284	16	96.5	136	31.5	130	44	31	2~6 (ADC6)	20	80	73.5	9
AHL-SK40-C8.65	278	16	96.5	136	31.5	130	44	31	2~6 (ADC6)	20	65	73.5	6.6
AHL-SK50-C8.80	284	16	96.5	136	31.5	130	44	31	2~6 (ADC6)	20	80	73.5	9
AHL-CAT40-C8.65	278	16	96.5	136	31.5	130	44	31	2~6 (ADC6)	20	65	73.5	6.6
AHL-CAT50-C8.65	284	16	96.5	136	31.5	130	44	31	2~6 (ADC6)	20	80	73.5	9

※ 此橫銑頭須採用我司特製 ADC 筒夾，詳細規格請見 P34。

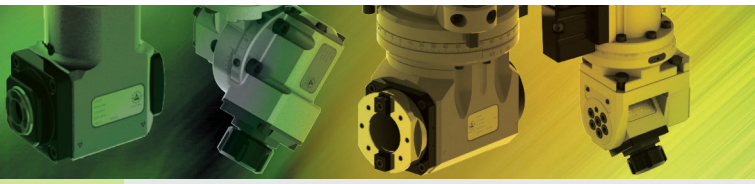
※ This Angle Head requires the adoption of special ADC collet offered by Hold Well. The specification is listed on Page 34.

※ 此為深孔防水設計：不可乾跑。

※ Deep Hole design : Do Not Dry run.

AHL-C4/C8

# AHL Type



## 90° 雙頭橫向銑頭

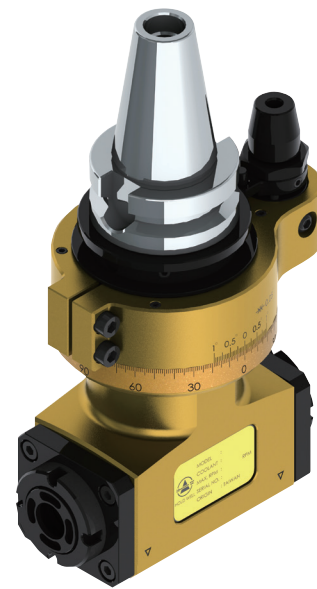
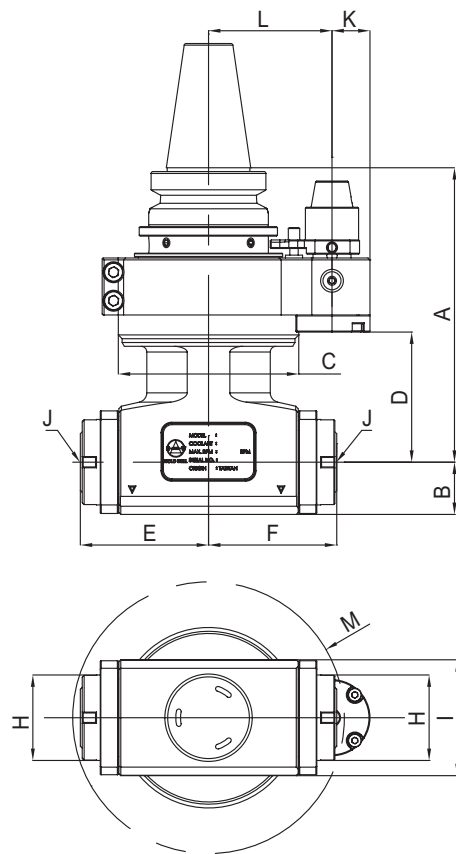
## 90° Double Head Angle Head

- 輕量化設計，適用於鑽銑加工及攻牙加工。
- 自動刀庫換刀加工，量化生產必備工具。
- 環抱型定位塊設計，可 360° 旋轉調整加工角度，並加強鎖固力道及加工角度精確性。

- 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.

內孔偏擺	0.002mm
材質	航太用鋁合金 & 合金鋼
轉速	最高 6000 RPM
扭力	最大 25 Nm
鑽孔	最大 14 mm
攻牙	最大 M10
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT
標準配件	開口扳手、ER 內牙扳手
出力軸轉向	正轉 / 反轉

Run-out	0.002mm
Material	Aerospace Alu. Alloy & Alloy Steel
R.P.M.	Max. 6000 RPM
Torque	Max. 25 Nm
Drilling	Max. 14 mm
Tapping	Max. M10
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT
Standard Accessory	Open End Wrench, ER I.N. Wrench
Output Rotation	Same as / Reverse to Input Rotation



Unit: mm

Model NO.	A	B	C	D	E	F	H	I	J	K	L	M	N.W.(KG)
AHL-BT40-H1.65	155	27.5	95	68.5	67.5	67.5	45	61	1~16 (ER25 I.N)	20	65	143	6.6
AHL-BT50-H1.80/110	162	27.5	95	68.5	67.5	67.5	45	61	1~16 (ER25 I.N)	20	80/110	143	9.1
AHL-SK40-H1.65	160.5	27.5	95	68.5	67.5	67.5	45	61	1~16 (ER25 I.N)	20	65	143	6.6
AHL-SK50-H1.80/110	162	27.5	95	68.5	67.5	67.5	45	61	1~16 (ER25 I.N)	20	80/110	143	9.1
AHL-CAT40-H1.65	160.5	27.5	95	68.5	67.5	67.5	45	61	1~16 (ER25 I.N)	20	65	143	6.6
AHL-CAT50-H1.80/110	162	27.5	95	68.5	67.5	67.5	45	61	1~16 (ER25 I.N)	20	80/110	143	9.1

※ I.N. : 內牙 Internal Nut

# AHM Type

## 鋁合金橫向銑頭

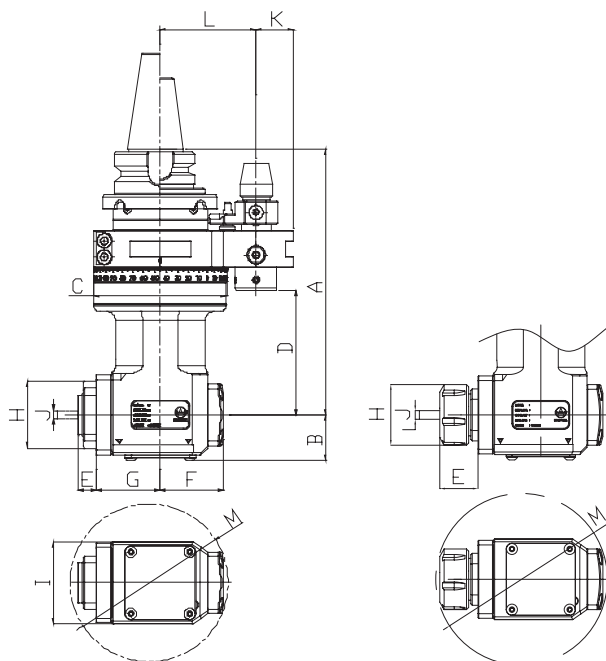
## Aluminum Angle Head

- 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。
- 自動刀庫換刀加工，量產生產必備工具。
- 環抱型定位塊設計，可 360° 旋轉調整加工角度，並加強鎖固力道及加工角度精確性。

內孔偏擺度	0.002 mm
材質	航太用鋁合金
轉速	最高 6000 RPM
扭力	最大 15 Nm
鑽孔	最大 12 mm
攻牙	最大 M8
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT, HSK
標準配件	開口扳手、ER 內牙扳手、ER 螺帽
出力軸轉向	反轉

- 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
Drilling	Max. 12 mm
Tapping	Max. M8
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT, HSK
Standard Accessory	Open End Wrench, ER I.N. Wrench, ER Nut
Output Rotation	Reverse to Input Rotation



ER 內牙螺帽  
ER Internal Nut

ER 螺帽  
ER Nut



Unit : mm

Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N.W. (KG)
AHM-BT30-A04.180G	180	31.2	90	84.5	26.5	43	43.5	43	60	1~16 (ER25)	25	65	120	4.5
AHM-BT40-A04.180G	180	31.2	90	84.5	26.5	43	43.5	43	60	1~16 (ER25)	25	65	120	5
AHM-SK30-A04.180G	180	31.2	90	84.5	26.5	43	43.5	43	60	1~16 (ER25)	25	65	120	4.5
AHM-SK40-A04.180G	180	31.2	90	84.5	26.5	43	43.5	43	60	1~16 (ER25)	25	65	120	5
AHM-CAT40-A04.180G	180	31.2	90	84.5	26.5	43	43.5	43	60	1~16 (ER25)	25	65	120	5
AHM-HSK63-A04.180G	191.5	31.2	90	84.5	26.5	43	43.5	43	60	1~16 (ER25)	25	65	120	5
AHM-BT30-A10.180G	180	31.2	90	84.5	12	43	43.5	45	60	1~13 (ER20 I.N)	25	65	105	4.5
AHM-BT40-A10.180G	180	31.2	90	84.5	12	43	43.5	45	60	1~13 (ER20 I.N)	25	65	105	5
AHM-SK30-A10.180G	180	31.2	90	84.5	12	43	43.5	45	60	1~13 (ER20 I.N)	25	65	105	4.5
AHM-SK40-A10.180G	180	31.2	90	84.5	12	43	43.5	45	60	1~13 (ER20 I.N)	25	65	105	5
AHM-CAT40-A10.180G	180	31.2	90	84.5	12	43	43.5	45	60	1~13 (ER20 I.N)	25	65	105	5
AHM-HSK63-A10.180G	191.5	31.2	90	84.5	12	43	43.5	45	60	1~13 (ER20 I.N)	25	65	105	5

※ I.N. : 內牙螺帽 Internal Nut

# AHM Type

## 鋁合金橫向銑頭 (中心出水)



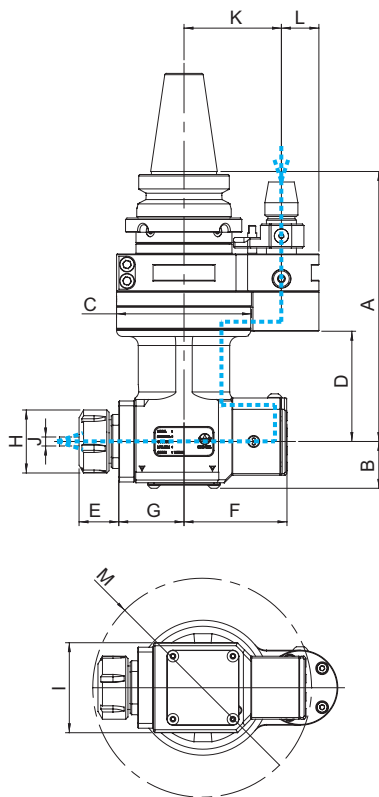
## Aluminum Angle Head (Int.)

- 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。
- 自動刀庫換刀加工，量化生產必備工具。
- 環抱型定位塊設計，可 360° 旋轉調整加工角度，並加強鎖固力道及加工角度精確性。

- 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.

內孔偏擺度	0.002 mm
材質	航太用鋁合金
轉速	最高 6000 RPM
扭力	最大 15 Nm
鑽孔	最大 12 mm
攻牙	最大 M8
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT, HSK
標準配件	開口扳手、ER 扳手、ER 螺帽
出力軸轉向	反轉
中心出水	30 bar

Run-out	0.002 mm
Material	Aerospace Aluminum Alloy
R.P.M.	Max. 6000 RPM
Torque	Max. 15 Nm
Drilling	Max. 12 mm
Tapping	Max. M8
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT, HSK
Standard Accessory	Open End Wrench, ER Wrench, ER Nut
Output Rotation	Reverse to Input Rotation
Max. Coolant Bar	30 bar



Unit : mm

Model No.	A	B	C	D	E max	F	G	H	I	J	K	L	M	N.W. (KG)
AHM-BT30-A04.180G-I	180	31.2	90	84.5	31	68.7	43.5	43	60	1~16 (ER25)	65	25	120	5.3
AHM-BT40-A04.180G-I	180	31.2	90	84.5	31	68.7	43.5	43	60	1~16 (ER25)	65	25	120	5.8
AHM-SK30-A04.180G-I	180	31.2	90	84.5	31	68.7	43.5	43	60	1~16 (ER25)	65	25	120	5.3
AHM-SK40-A04.180G-I	180	31.2	90	84.5	31	68.7	43.5	43	60	1~16 (ER25)	65	25	120	5.8
AHM-CAT40-A04.180G-I	180	31.2	90	84.5	31	68.7	43.5	43	60	1~16 (ER25)	65	25	120	5.8
AHM-HSK63-A04.180G-I	191.5	31.2	90	84.5	31	68.7	43.5	43	60	1~16 (ER25)	65	25	120	5.8

※ Int. : 中心出水 Internal Coolant



# AHM Type

## 鋁合金後縮橫向銑頭

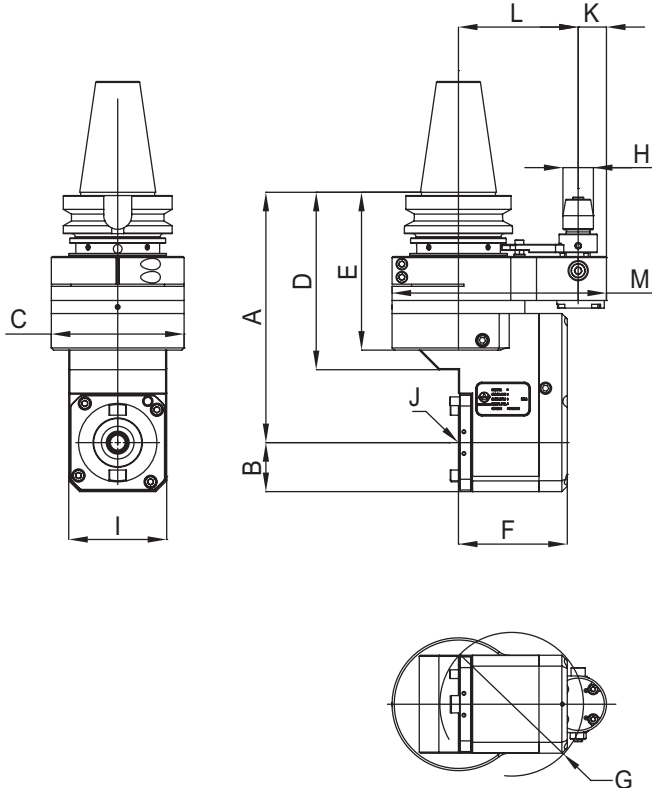
## Aluminum Offset Angle Head

- 錐度 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。
- 採用後縮設計，減少本體長度，降低工件干涉。
- 刀具加工支點靠近橫銑頭中心增加加工剛性。
- 拆刀、鎖刀板手設計，方便拆鎖刀時固定橫向軸與施力。
- 自動刀庫換刀加工，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。

- 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.

內孔偏擺度	0.002 mm
材質	航太用鋁合金 / 合金鋼
轉速	最高 4000 RPM
扭力	最大 60 Nm
鑽孔	最大 20 mm
攻牙	最大 M16
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT
標準配件	鎖刀板、L 型板手
出力軸轉向	正轉

Run-out	0.002 mm
Material	Aerospace Alu. Alloy / Alloy Steel
R.P.M.	Max. 4000 RPM
Torque	Max. 60 Nm
Drilling	Max. 20 mm
Tapping	Max. M16
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT
Standard Accessory	Tool-Locking Plate, L Type Wrench
Output Rotation	Same as Input Rotation



Unit : mm

Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N.W. (KG)
AHM-BT50-D42.80/110	230	45	122	163	145	100	132	28	90	BT40	24/26	80/110	165/197	14.8
AHM-SK50-D42.80/110	230	45	122	163	145	100	132	28	90	SK40	24/26	80/110	165/197	14.8
AHM-CAT50-D42.80/110	230	45	122	163	145	100	132	28	90	CAT40	24/26	80/110	165/197	14.8

AHM

# AHK Type

## 鎖固式橫向銑頭

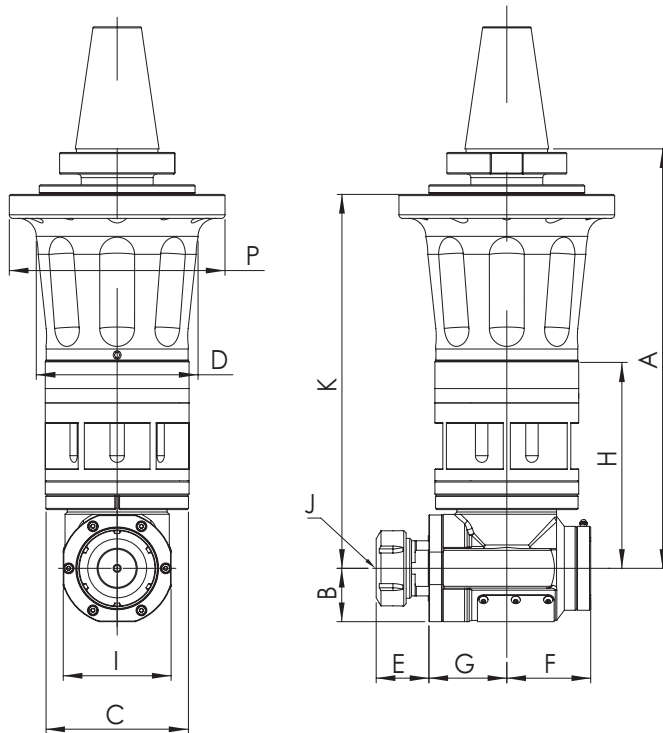
## Flange - Mounted Angle Head

- 直接安裝於機台法蘭面。本體設計簡約，結構堅固。
- 藉由更換法蘭盤，可於相同錐度之各式機台上交替使用。
- 可 360 度旋轉調整加工角度。

- Mount directly on the machine spindle surface. Rugged body construction for heavy duty cutting.
- Interchangeable among same taper machines by changing the mounting plate.
- Cutting direction can be adjusted from 0 ~ 360 degree.

內孔偏擺度	0.002 mm
材質	合金鋼 & 球狀石墨鑄鐵
轉速	最高 4000 RPM
扭力	最大 70 Nm
鑽孔	最大 20 mm
攻牙	最大 M16
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT
標準配件	鉤型扳手、ER 扳手、ER 螺帽
出力軸轉向	反轉

Run-out	0.002 mm
Material	Alloy Steel & Ductile Cast Iron
R.P.M.	Max. 4000 RPM
Torque	Max. 70 Nm
Drilling	Max. 20 mm
Tapping	Max. M16
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT
Standard Accessory	Hook Spanner, ER Wrench, ER Nut
Output Rotation	Reverse to Input Rotation



Unit : mm

Model NO.	A	B	C	D	E max	F	G	H	I	J	K	P	N.W.(KG)
AHK-BT50-A4	350	44.5	120	135	43	70	65	172.3	90	4~26(ER40)	312	180	29.5
AHK-SK50-A4	350	44.5	120	135	43	70	65	172.3	90	4~26(ER40)	312	180	29.5
AHK-CAT50-A4	350	44.5	120	135	43	70	65	172.3	90	4~26(ER40)	312	180	29.5
AHK-BT50-A9	350	44.5	120	135	45	70	65	172.3	90	BT30	312	180	29.5
AHK-CAT50-A9	350	44.5	120	135	45	70	65	172.3	90	BT30	312	180	29.5
AHK-SK50-A9	350	44.5	120	135	45	70	65	172.3	90	BT30	312	180	29.5

※ 此系列橫銑頭須採用法蘭盤定位塊，參見 P34。

※ For installation, this series of heads require Flange Disc shown on p34.

# AHK Type

## 鎖固式橫向銑頭

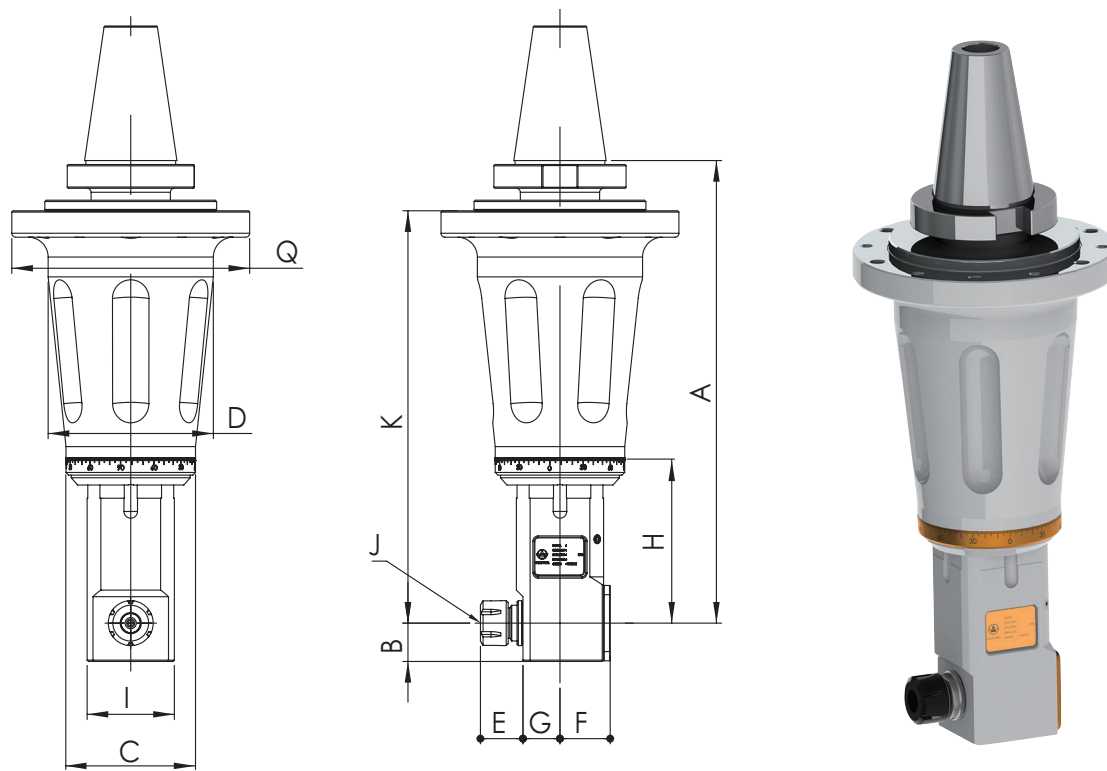
## Flange - Mounted Angle Head

- 直接安裝於機台法蘭面。本體設計簡約，結構堅固。
- 藉由更換法蘭盤，可於相同錐度之各式機台上交替使用。
- 可 360 度旋轉調整加工角度。

- Mount directly on the machine spindle surface. Rugged body construction for heavy duty cutting.
- Interchangeable among same taper machines by changing the mounting plate.
- Cutting direction can be adjusted from 0 ~ 360 degree.

內孔偏擺度	0.002 mm
材質	合金鋼 & 球狀石墨鑄鐵
轉速	最高 4000 RPM
扭力	最大 25 Nm
鑽孔	最大 12 mm
攻牙	最大 M10
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT
標準配件	鉤型扳手、ER 扳手、ER 螺帽
出力軸轉向	反轉

Run-out	0.002 mm
Material	Alloy Steel & Ductile Cast Iron
R.P.M.	Max. 4000 RPM
Torque	Max. 25 Nm
Drilling	Max. 12 mm
Tapping	Max. M10
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT
Standard Accessory	Hook Spanner, ER Wrench, ER Nut
Output Rotation	Reverse to Input Rotation



Unit : mm

Model NO.	A	B	C	D	E max	F	G	H	I	J	K	Q	N.W.(KG)
AHK-BT50-A5	350	29	98	125	35	38	28	133.56	66	1~13(ER20)	312	180	23
AHK-SK50-A5	350	29	98	125	35	38	28	133.56	66	1~13(ER20)	312	180	23
AHK-CAT50-A5	350	29	98	125	35	38	28	133.56	66	1~13(ER20)	312	180	23
AHK-BT50-A7	250	29	98	125	35	38	28	133.56	66	1~13(ER20)	212	180	16
AHK-SK50-A7	250	29	98	125	35	38	28	133.56	66	1~13(ER20)	212	180	16
AHK-CAT50-A7	250	29	98	125	35	38	28	133.56	66	1~13(ER20)	212	180	16

※ 此系列橫銑頭須採用法蘭盤定位塊，參見 P34。

※ For installation, this series of heads require Flange Disc shown on p34.

AHK-A5/A7

# AHK Type

## 鎖固式橫向銑頭

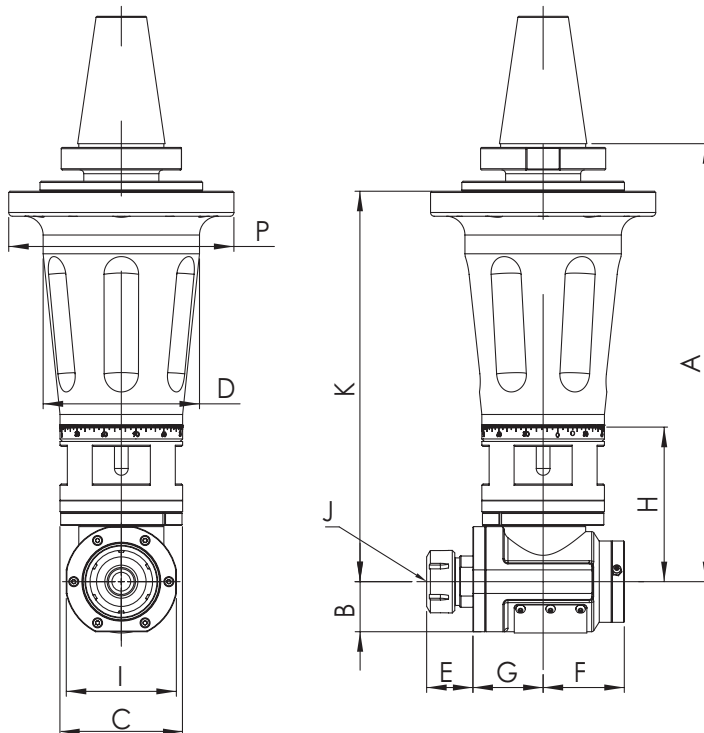
## Flange - Mounted Angle Head

- 直接安裝於機台法蘭面。本體設計簡約，結構堅固。
- 藉由更換法蘭盤，可於相同錐度之各式機台上交替使用。
- 可 360 度旋轉調整加工角度。

- Mount directly on the machine spindle surface. Rugged body construction for heavy duty cutting.
- Interchangeable among same taper machines by changing the mounting plate.
- Cutting direction can be adjusted from 0 ~ 360 degree.

內孔偏擺度	0.002 mm
材質	合金鋼 & 球狀石墨鑄鐵
轉速	最高 4000 RPM
扭力	最大 50 Nm
鑽孔	最大 18 mm
攻牙	最大 M14
齒輪比	1 : 1
適用主軸	BT, SK(ISO), CAT
標準配件	鉤型扳手、ER 扳手、ER 螺帽
出力軸轉向	反轉

Run-out	0.002 mm
Material	Alloy Steel & Ductile Cast Iron
R.P.M.	Max. 4000 RPM
Torque	Max. 50 Nm
Drilling	Max. 18 mm
Tapping	Max. M14
Gear Ratio	1 : 1
Spindle Type	BT, SK(ISO), CAT
Standard Accessory	Hook Spanner, ER Wrench, ER Nut
Output Rotation	Reverse to Input Rotation



Unit : mm

Model NO.	A	B	C	D	E max	F	G	H	I	J	K	P	N.W.(KG)
AHK-BT50-A6	350	40	98	125	39	65	56	133.63	88	3~20(ER32)	312	180	25.2
AHK-SK50-A6	350	40	98	125	39	65	56	133.63	88	3~20(ER32)	312	180	25.2
AHK-CAT50-A6	350	40	98	125	39	65	56	133.63	88	3~20(ER32)	312	180	25.2
AHK-BT50-A8	250	40	98	125	39	65	56	133.63	88	3~20(ER32)	212	180	18.2
AHL-SK50-A8	250	40	98	125	39	65	56	133.63	88	3~20(ER32)	212	180	18.2
AHL-CAT50-A8	250	40	98	125	39	65	56	133.63	88	3~20(ER32)	212	180	18.2

※ 此系列橫銑頭須採用法蘭盤定位塊，參見 P34。

※ For installation, this series of heads require Flange Disc shown on p34.

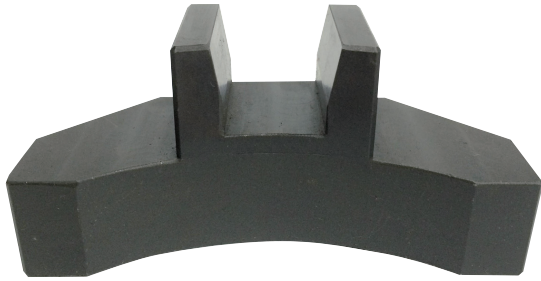


選購配件

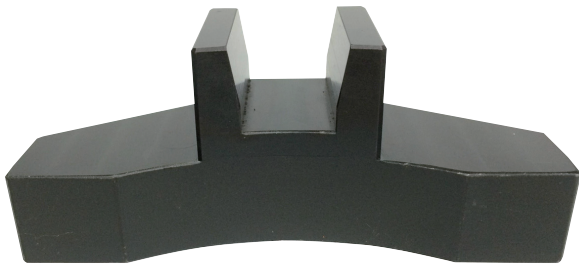
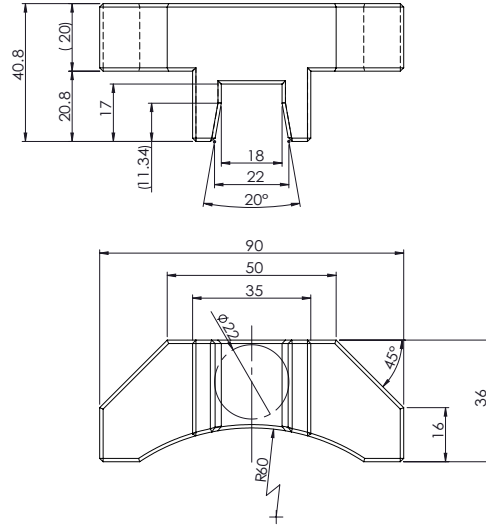
Optional Accessory

定位塊

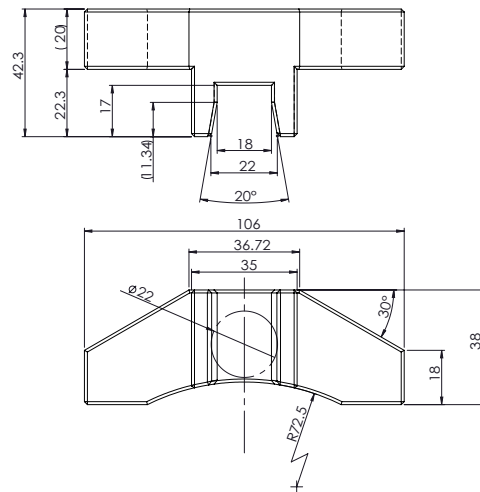
Setting Block / Stopper



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



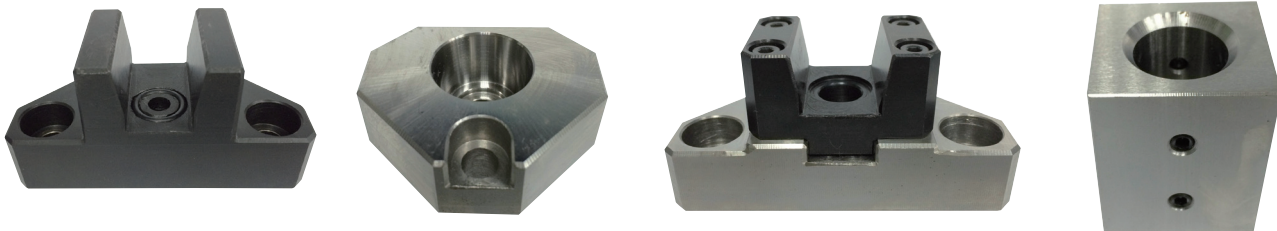
標準錐度 -50  
Standard - Taper 50  
Order No. : 1AH-00289



客製化定位塊

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.



選購配件

Optional Accessory

客製化法蘭盤

Customized Flange Disc



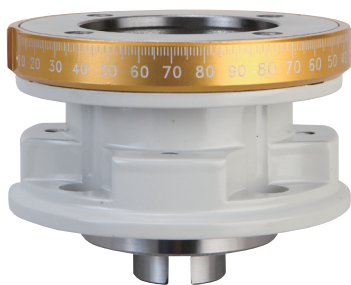
Order No. : BT-2

AHK-A1G/A2G/A3/A4/A5/A6/  
A7/A8/A9/D1 系列專用

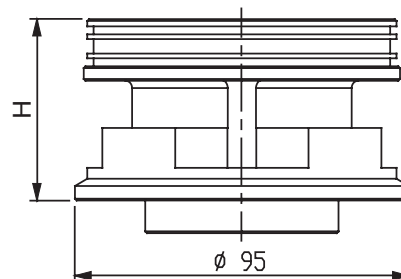
AHK-A1G/A2G/A3/A4/A5/A6/  
A7/A8/A9/D1 series only

延長器

Extension



AHD 系列專用  
AHD series only



Model No.	H
AHD-E1	50
AHD-E2	100

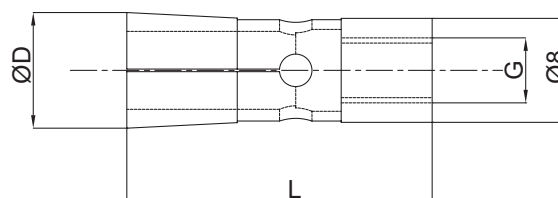
Unit : mm

ADC 筒夾

ADC Collet



AHL-C4/C8 系列專用  
AHL-C4/C8 series only



Model No.	Metric Size	D	L	G	N.W. (KG)
ADC6	2/3/4/5/6	8.9	23.5	M5*P0.8	0.005

Unit : mm



# ***HOLD WELL***

***Machine Tool Accessories***





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