

# HEC

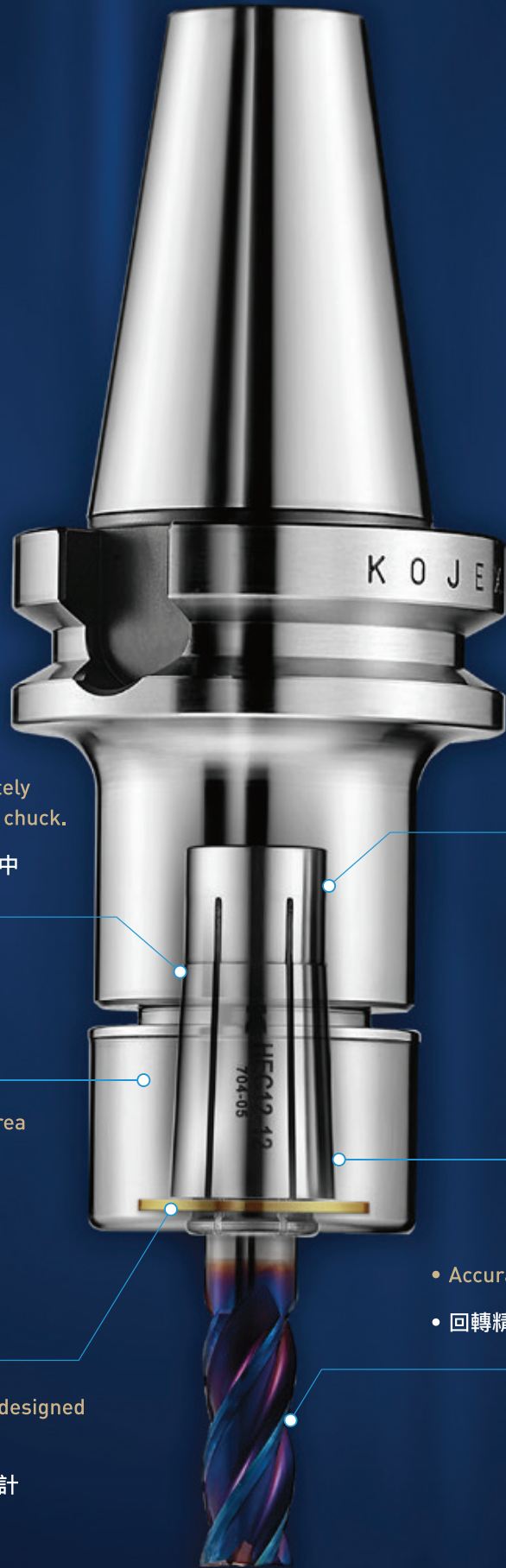
INCREASING TOOL  
EFFICIENCY STARTS FROM  
THE CHUCK

提升刀具效率從夾頭開始









- The collet is completely covered in the collet chuck.

- 筒夾完全包覆在本體中

- Maximum locking area of screw teeth.

- 螺牙鎖固面積極大化

- The clamping nut is designed with flat bearing.

- 螺帽有軸承墊片的設計

- The end of collet has positioning support in the collet chuck.

- 筒夾後端在本體內有定位支撐

- The collet is designed with the small angle (Designed specifically for milling).

- 小角度的後拉式筒夾設計 (專門為銑刀設計)

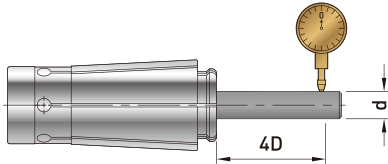
- Accuracy < 0.005mm (4XD)

- 回轉精度在0.005mm以下 (4XD)



## RUN OUT

Accuracy within 0.005mm at 4 times length of cutter edge to ensure uniform an even cutting action, increasing cutting speed and tool life.



## 回轉精度

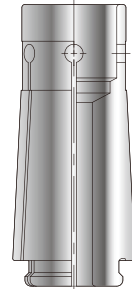
4倍刃長精度在0.005mm以內，確保切削時每刃刀口的均勻切削，可使切削速度提高及刀具壽命增加。

## COLLETS SPECIALLY DESIGNED FOR MILLING

The design of the small angle collet can increase the clamping force of the tool and milling is more stable during the processing.

### 專門為銑刀設計的筒夾

小角度筒夾的設計，可增加刀具的夾持力，銑刀在加工時，更為安定。

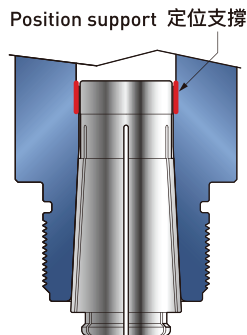


## THE END OF COLLET HAS POSITIONING SUPPORT IN THE COLLET CHUCK.

Kojex's well-designed to reduce vibration during the milling cutter processing.

### 筒夾後端在本體 內有定位支撐

這是KOJEX的精心設計，可以減少銑刀加工時的震動。



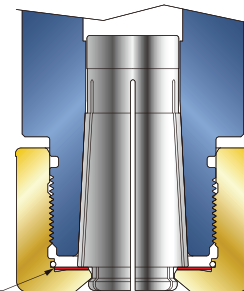
## THE CLAMPING NUT IS DESIGNED WITH FLAT BEARING

The bearing nut can increase the clamping force more than 30% and avoid the distortion and deformation of the collet.

### 螺帽有軸承墊片 的設計

可以增加30%以上的鎖固力量及避免筒夾的扭曲變形。

Flat bearing 軸承墊片

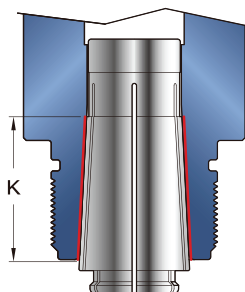


## THE COLLET IS COMPLETELY COVERED IN THE COLLET CHUCK

95% taper area of the collet [K] is covered the collet chuck during the milling processing to arrive excellent vibration damping of performance.

### 筒夾可完全包覆 在本體內

筒夾的斜面95%面積 [K]可與本體貼合，銑刀加工時，具有極佳的阻尼減震的效果。

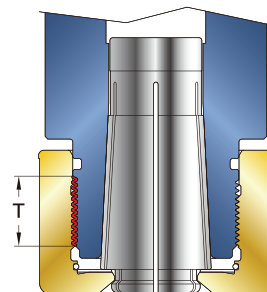


## MAXIMUM LOCKING AREA OF SCREW TEETH [T]

The maximum locking area of the screw teeth can increase stability and avoid cutting vibration caused by the nut loosening.

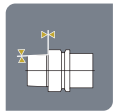
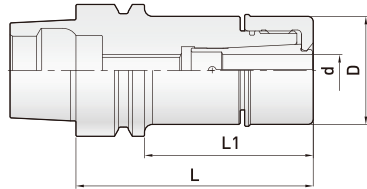
### 螺牙鎖固面積 [T] 極大化

可使刀具的鎖固更為安定，避免因切削震動而產生螺帽鬆動。



# HEC MILLING CHUCK (AM TYPE)

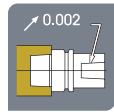
HEC 精銑夾頭刀柄 (AM型)



Dual face contact  
兩面接觸



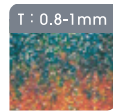
Surface roughness  
表面粗度



Run out accuracy  
內孔偏擺度



Surface hardness  
表面硬度



Carbonized depth  
滲碳深度

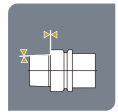
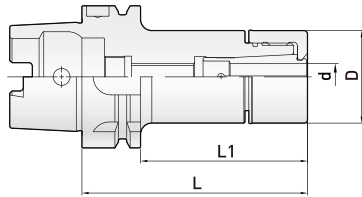
Order Code 訂購編號	Range(d) 夾持範圍	L	L1	D	Min <sup>+</sup> G2.5 動態平衡	Nut 螺帽	Spanner 扳手
HSK40E-HEC8-70AM	3-8	70	50	30	42,000	CN-HEC8AM	30194-830
HEC12-75AM	4-12	75	55	42	42,000	CN-HEC12AM	30194-842
HSK50E-HEC8-70AM	3-8	70	44	30	36,000	CN-HEC8AM	30194-830
HEC12-70AM	4-12	70	44	42	36,000	CN-HEC12AM	30194-842

- The circular nuts can be replaced with the hexagonal nuts.
- Clamping nut design by circular cylinder. Bearing spanner must be used.
- End mill chuck specially designed for hard cutting material.
- Superior surface finish for mold tools and 3-D work.
- Bearing spanner and stop screw must be ordered separately.
- 全圓螺帽可以換成六角螺帽。
- 全圓螺帽，必須使用軸承扳手。
- 專門為難切削材設計的銑刀夾頭。
- 在模具加工時，表面光滑度極佳。
- 軸承扳手及止動螺絲必須另外訂購。



# HEC MILLING CHUCK (AM TYPE)

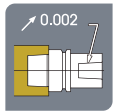
HEC 精銑夾頭刀柄 (AM型)



Dual face contact  
兩面接觸



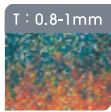
Surface roughness  
表面粗度



Run out accuracy  
內孔偏擺度



Surface hardness  
表面硬度



Carbonized depth  
滲碳深度

Order Code 訂購編號	Range(d) 夾持範圍	L	L1	D	Min <sup>-1</sup> G2.5 動態平衡	Nut 螺帽	Spanner 扳手
HSK63A-HEC8-100AM	3-8	100	74	30	30,000	CN-HEC8AM	30194-830
HEC12-100AM	4-12	100	74	42	30,000	CN-HEC12AM	30194-842

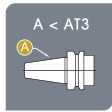
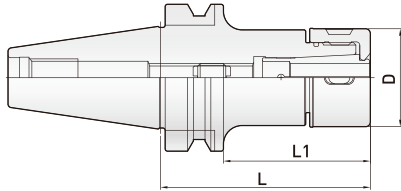
- The circular nuts can be replaced with the hexagonal nuts.
- Clamping nut design by circular cylinder. Bearing spanner must be used.
- End mill chuck specially designed for hard cutting material.
- Superior surface finish for mold tools and 3-D work.
- Bearing spanner and stop screw must be ordered separately.

- 全圓螺帽可以換成六角螺帽。
- 全圓螺帽，必須使用軸承扳手。
- 專門為難切削材設計的銑刀夾頭。
- 在模具加工時，表面光滑度極佳。
- 軸承扳手及止動螺絲必須另外訂購。



# HEC MILLING CHUCK ( AC TYPE )

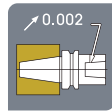
HEC 精銑夾頭刀柄 (AC型)



Taper tolerance  
錐度公差



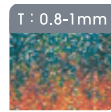
Surface roughness  
表面粗度



Run out accuracy  
內孔偏擺度



Surface hardness  
表面硬度



Carbonized depth  
滲碳深度

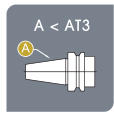
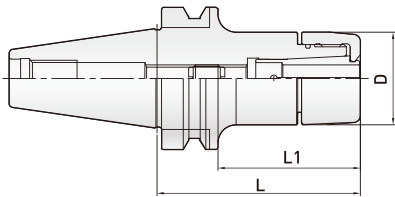
Order Code 訂購編號	L	L1	D	Min <sup>1</sup> G6.3 動態平衡	Nut 螺帽	Spanner 扳手	Collet 筒夾
BT30-HEC8-75	75	53	30	30,000	CN-HEC8AC	30194-724	HEC8
HEC12-75	75	53	42	30,000	CN-HEC12AC	30194-702	HEC12
BT40-HEC8-90	90	63	30	30,000	CN-HEC8AC	30194-724	HEC8
HEC12-90	90	63	42	30,000	CN-HEC12AC	30194-702	HEC12
BT50-HEC12-100	100	62	42	10,000	CN-HEC12AC	30194-702	HEC12

- End mill chuck specially designed for hard cutting material.
- Superior surface finish for mold tools and 3-D work.
- Spanner and stop screw must be ordered separately.
- 專門為難切削材設計的銑刀夾頭。
- 在模具加工時，表面光滑度極佳。
- 扳手及止動螺絲必須另外訂購。



# HEC MILLING CHUCK ( AM TYPE )

HEC 精銑夾頭刀柄 (AM型)



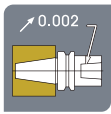
A < AT3

Taper tolerance  
錐度公差



Ra ≤ 0.15

Surface roughness  
表面粗度



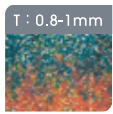
0.002

Run out accuracy  
內孔擺度



HRc 58±2

Surface hardness  
表面硬度



T : 0.8-1mm

Carbonized depth  
滲碳深度

Order Code 訂購編號	L	L1	D	Min <sup>-1</sup> G2.5 動態平衡	Nut 螺帽	Spanner 扳手	Collet 筒夾
BT30-HEC8-75AM	75	53	30	30,000	CN-HEC8AM	30194-830	HEC8
HEC12-75AM	75	53	42	30,000	CN-HEC12AM	30194-842	HEC12
BT40-HEC8-90AM	90	63	30	30,000	CN-HEC8AM	30194-830	HEC8
HEC12-90AM	90	63	42	30,000	CN-HEC12AM	30194-842	HEC12

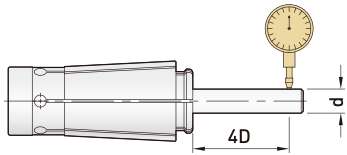
- Clamping nut design by circular cylinder. Bearing spanner must be used.
- End mill chuck specially designed for hard cutting material.
- Superior surface finish for mold tools and 3-D work.
- Bearing spanner and stop screw must be ordered separately.
- 全圓螺帽，必須使用軸承扳手。
- 專門為難切削材設計的銑刀夾頭。
- 在模具加工時，表面光滑度極佳。
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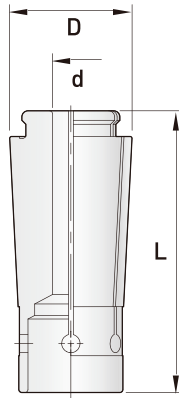


# HEC COLLET

HEC 筒夾



- Runout <math>< 5\mu\text{m}</math> [ 4×D ]
- 跳動精度 <math>< 5\mu\text{m}</math> [ 4×D ]



Order Code 訂購編號	d	(d) 持夾徑	L	D
HEC8-3	3	3	35	16
4	4	4		
5	5	5		
6	6	6		
8	8	8		
HEC12-4	4	4	46	20
6	6	6		
8	8	8		
10	10	10		
12	12	12		

## HEC NUT (AC TYPE)

HEC 螺帽 (AC型)



Order Code 訂購編號	Outside Dia 外徑	Collet 筒夾規格
CN-HEC8AC	30	HEC8
HEC12AC	42	HEC12

## HEC NUT (AM TYPE)

HEC 螺帽 (AM型)



Order Code 訂購編號	Outside Dia 外徑	Collet 筒夾規格
CN-HEC8AM	30	HEC8
HEC12AM	42	HEC12

## SPANNER

扳手



Order Code 訂購編號	Type 型式
30194-724	SP-HEC8
702	SP-HEC12



Order Code 訂購編號	Nut 螺帽規格	inside Dia 內徑
30194-830	CN-HEC8AM	30
842	CN-HEC12AM	42