

KH-500

CODE	項目	Unit	KH-500
Table Surface	工作台面積	mm	500×500
Indexing degree	最小分割單位	Deg	1° / (0.001°)
Table loading capacity	工作台負載	kg	500
Table top mounting type	工作台面工件固定方式		24×M16
Max. workpiece diemension (D×H)	最大工件尺寸 (D×H)	mm	ø800×1000
Rapid traverse rate (X / Y / Z)	最大移動速度 (X / Y / Z)	m/min	60 / 60 / 60
Max. traverse range (X / Y / Z)	最大行程 (X / Y / Z)	mm	750 / 730 / 730
Distance Spindle center to Table top	主軸中心至台面距離	mm	100 - 830
Distance Spindle nose to B center	主軸鼻端至B軸中心距離	mm	70 - 800
Distance ground to Table top	地面至工作台面距離	mm	1050
Linear Axes slide	線性軸滑動方式	滾柱線軌(Roller linear guide)	
Max. spindle speed	主軸最高轉速	rpm	15000 (8000)
Spindle torque (rated / max)	主軸驅動扭力 (額定/最大)	N-m	83.2 / 99.3
Spindle power (rated / max)	主軸驅動額定功率 (額定/最大)	kw	25 / 29
Type of tool shank	刀把錐度型式		BBT40 / BT40
Magazine pocket number	刀庫容量		60
Max. tool dia., adjacent pocket (empty/occupied)	最大刀具直徑, 相鄰刀套 (空刀/有刀)	mm	ø80 / ø150
Max. tool length	最大刀具長度	mm	300
Max. tool weight	最大刀具重量	kg	10
Max. tool moment	最大刀具轉矩	kgf-m	1.53
Number of pallet, APC	托盤數量, APC		2
Pallet change type	托盤交換方式		180° 往返(180° rotate)
Positioning accuracy (VDI 3441) (X / Y / Z) *with linear scale	定位精度 (VDI 3441) (X / Y / Z) *帶光學尺	mm	0.008
Machine dimension	機器尺寸(L×W×H)	mm	5050×4470×2580

• As the manufacturer constantly improves the machine specifications and design characteristics, above specifications are subject to change without notice.

• 本公司對產品規格、設計特性均不斷研究改進，上述規格若有變更，恕不另行通知。

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KH-500

Horizontal Machining Center
臥式加工中心機

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臥式加工中心機

Machine performance

- 750×730×730 mm (X/Y/Z) traverse range, provide wide working area.
- 60 m/min high traverse speed in 3 linear axes.
- All 3 linear axes equipped with rigid roller guide way and large diameter Ball lead screw, ensure moving and cutting stability.
- All 3 linear axes equipped with high resolution absolute linear scale as standard option, guaranteed machine accuracy.
- Fast tool changing time, 1.6 sec tool to tool.
- Servo drive tool magazine with 60 pockets.

機器性能

- 750×730×730mm (X/Y/Z)行程範圍，加工範圍大。
- 60 m/min三軸快速位移速度。
- 三軸配備高剛性滾柱線軌及大直徑滾珠導螺桿，確保位移及切削之穩定性。
- 三個線性軸標配高解析度絕對式光學尺，確保機器精度。
- 快速換刀時間，1.6秒刀對刀。
- 60刀位伺服馬達驅動刀庫，定位準確快速。



Stable T-shape machine base

- Mono Block T-shape Machine base, extremely high rigidity.
- Large step High-Low designed guideway, provide best cutting rigidity and machine base stability.
- Compact and solid machine construction, achieve the best combination in construction optimization and machine rigidity.
- Motor mount formed with machine base in one piece, ensure assembling accuracy and transmission stability.
- Two augers and chip conveyor remove the chips to rear side of machine, significantly increase the flexibility of space utilization.

穩定的T型底座

- 一體式機器底座，絕佳之剛性。
- 大段差高低軌道設計，提供最佳之機器切削剛性及底座之穩定性。
- 整體機器結構緊湊紮實，達到結構最佳化及機器剛性之最佳組合。
- 馬達座與底座一體成型，確保各軸之組裝精度及傳動之穩定性。
- 兩側螺旋捲屑器及排屑機將切屑排除至機器後側，大幅提升廠房空間運用之靈活度。

Lightweight construction column – Fast response

- Topologically optimized rib configuration.
- Isosceles Triangle designed column obtain short and even force distribution flow.
- Large step High-Low designed guideway, combined with lightweight column, highlighted the lowest energy consumption and best response features.
- Cavity double-wall design, best compromise in rigidity and weight.
- Symmetric design, minimize influence from thermal deformation.

輕量化立柱-反應靈敏

- 拓撲最佳化肋骨配置。
- 等腰三角形立柱結構，具有短且等長之力流傳遞。
- 大段差高低軌道設計，加上立柱動件之極度輕量化，展現機器之最低耗能及最佳反應之特色。
- 中空雙層壁結構，達到剛性及重量之完美組合。
- 左右對稱設計，大幅降低熱變位之影響。

15000 rpm Integrated Motor Spindle

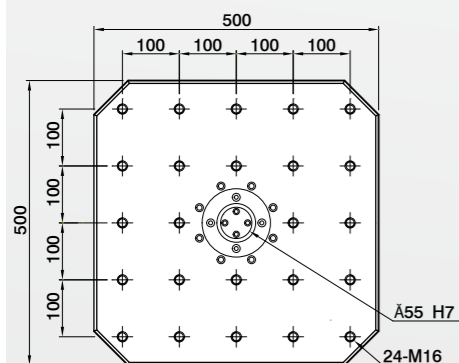
- Integrated Motor Spindle, effectively prevent vibration from high speed cutting, guarantee machining quality.
- 70mm short distance from spindle nose to table center, wide working range.
- Maximum spindle speed 15000 rpm.
- Optional 70 bar internal coolant supply used to remove cutting heat and cutting chip effectively.

15,000RPM內藏式主軸

- 內藏式主軸，有效防止高速切削產生之振動，確保加工品質。
- 主軸鼻端至工作台中心距離僅70mm，增加加工範圍。
- 主軸最高轉速15000rpm。
- 選配70bar中心出水，有效排除切削熱量及切屑。

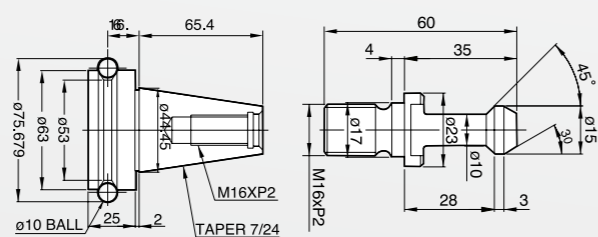
TABLE 工作台

Unit: mm



BT-40

Unit: mm



DIMENSIONAL DRAWING 外觀尺寸圖

Unit: mm

