

KA-200u/ KA-200mt

| CODE | 項目 | Unit | KA-200u | KA-200mt |
|--------------------------------------|---------------|--------------------|-------------------------|-------------------------|
| X, Y, Z-axis travel range | 行程範圍(X/Y/Z) | mm | 1800 / 2000 / 1100 | 1800 / 2000 / 1100 |
| X, Y, Z-axis rapid traverse rate | 快移速度(X/Y/Z) | m/min | 40 / 40 / 40 | 40 / 40 / 40 |
| Table size | 工作台尺寸 | mm | ø1650 | ø1650 |
| Max. table load | 工作台最大負荷 | kg | 6000 | m:6000 / t:2000 |
| Distance from spindle nose to table | 主軸鼻端到工作台距離 | mm | 50~1150 | 50~1150 |
| T-slot size | T型槽尺寸 | mm | 22 | 22 |
| Spindle taper | 主軸刀把型式 | | SK-50 | HSK-T100 |
| Pull stud of tool holder | 主軸拉栓型式 | | DIN 69872 | - |
| Max. spindle speed | 主軸轉速 | rpm | 8000 (60000) | 8000 (60000) |
| Spindle motor power output (Rated) | 主軸馬達額定輸出功率 | KW | 32 | 32 |
| Spindle motor power output (Max.) | 主軸馬達最大輸出功率 | KW | 53 | 53 |
| Spindle motor torque output (Rated) | 主軸馬達額定輸出扭力 | Nm | 202 | 202 |
| Spindle motor torque output (Max.) | 主軸馬達最大輸出扭力 | Nm | 380 | 380 |
| A-axis swiveling range | A軸旋轉角 | | +20° / -110° | +20° / -110° |
| A-axis speed | A軸轉速 | rpm | 15 | 15 |
| C-axis rotating angle | C軸旋轉角 | | 360° | 360° |
| C-axis speed | C軸轉速 | rpm | 5.6 | 200 |
| A, C-axis indexing resolution | A、C 軸最小進給單位 | | 0.001° | 0.001° |
| Magazine type | 刀庫型式 | | 鏈式/刀臂式換刀 Chain / Arm | 鏈式/刀臂式換刀 Chain / Arm |
| Magazine pocket number | 刀具數量 | pcs | 60 (120) | 60 (120) |
| Max. tool diameter (adj. tool) | 最大刀具直徑(相鄰刀) | mm | 125 | 125 |
| Max. tool length (from spindle nose) | 最大刀具長度 | mm | 400 | 400 |
| Max. tool weight | 最大刀具重量 | kg | 15 | 15 |
| Air pressure required | 空壓需求 | kg/cm ² | 6 | 6 |
| Machine weight | 機械重量 | kg | 45000 | 45000 |
| Machine dimensions (LxWxH) | 機械外觀尺寸(長x寬x高) | mm | 7000 x 6100 x 5000 | 7000 x 6100 x 5000 |

- The data shown in parenthesis are optional.
- AS the manufacturer constantly improves the machine specifications and design characteristics, above specifications are subject to change without notice.
- 規格表內括弧內容為選購附件。
- 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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Gantry Type 5-axis Machining Center with Linear Drive
線馬龍門五軸加工機

KA-200U / KA-200MT

KA-200u / KA-200mt Gantry Type 5-axis Machining Center with Linear Drive 線馬龍門五軸加工機



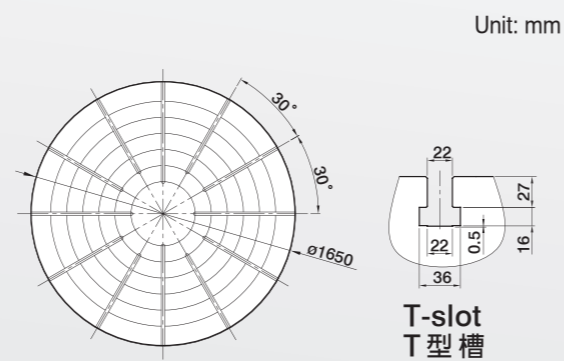
Wide door opening makes it easy to use various tools for loading and unloading workpiece.

最大開門尺寸，方便使用各類機具上下工件。

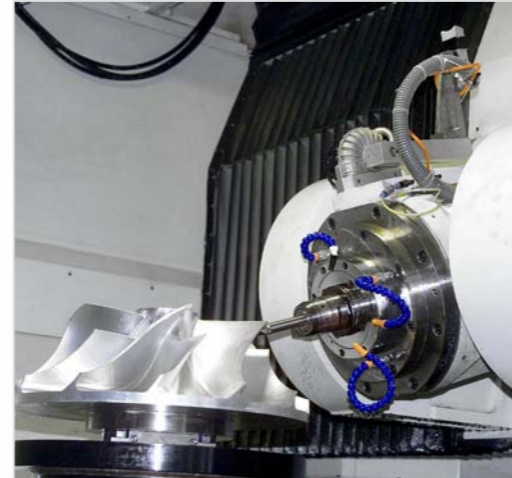
TYPICAL MACHINING APPLICATIONS 加工產品應用例



TABLE 工作台



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5-axis dynamic machining.
五軸動態



5-axes are moving simultaneously.
Linear axes are driven with linear motor.
五軸同動，直線軸線性馬達驅動。



On-line workpiece measuring directly on the machine to reduce defect rate and re-work time.(optional)
A laser tool measuring device is applied.(optional)
結合線上量測、降低報廢或重工比率。
結合雷射刀具量測。

High Performance Spindle

The spindle provides maximum torque output up to 380Nm. The maximum spindle speed is 8,000 rpm in combination with 53 kW of driving power. The self-designed spindle stock features high rigidity and high stability.

高動態效率主軸

最大扭矩380Nm、最高轉速為8000rpm且最大驅動功率為53kW，自主設計之主軸箱提供高剛性與高穩定性。

Rigid Swiveling Head

The A-axis is driven by a built-in, powerful direct-drive motor, which provides ultra-high stability and accuracy when performing 5-axis machining.

高剛性搖擺頭

採用內藏高功率DD馬達設計的A軸，提供五軸加工時的高穩定性與高精度。

Optimal Moving Beam Design

The Z-axis is designed with a moving beam configuration, ensuring minimum cutting moment at any position of travel to meet the stable cutting requirement.

完美的動樑設計

Z軸採用動樑式設計，確保機器在任何行程下都保有最小之加工力矩，以達最穩定的加工需求。

Ultra-high Feed Rates

The axis are all driven by linear motors, providing 5 m/s² of high acceleration and 40 M/min of high feed rate. This outstanding features assure the highest machining accuracy as well as minimized moving time.

高動態進給系統

三個進給軸向採用線性馬達為驅動單元，提供5m/s²的高加速度以及40M/min的高進給速度，保證最佳加工精度與最小的位移時間。

Multi-function Rotary Table

The perfectly designed C-axis is excellent for 5-axis milling and vertical turning applications, making the machine cost-effective thanks to its combination of milling and turning functions (model KA-200mt)

多功能旋轉工作台

完美的C軸可提供五軸之銑削加工與立式車削加工之需求，達到銑車一機的高性價比(KA-200mt機種)。

Chip Removing System

There are two funnel shapes formed between the base and table combined with two chip augers and Y-axis guard to achieve outstanding chip removing effect.

排屑系統

底座與工作台間形成兩個漏斗形式，搭配兩組捲屑機構與Y軸護罩達到最佳的排屑效果。

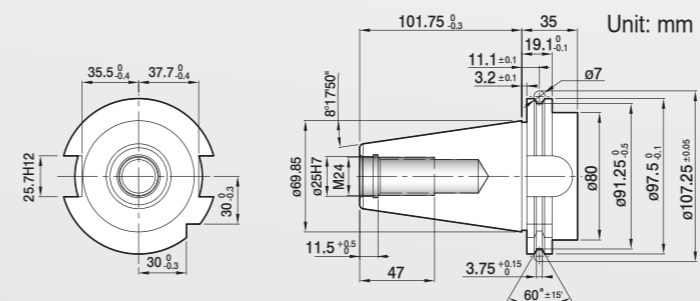
Rigid Construction

All major structural parts are manufactured from Meehanite cast iron with maximum material stability, annealed and vibratory stress relieved. Finite Element Analysis is also conducted to optimise the machine structure, so as to meet the requirement in 5-axis machining.

高剛性結構

整機採用米漢納鑄鐵鑄造，材料穩定，並經退火與振動內應力消除，並採用有限元素分析達到最佳化的強健結構，確保五軸加工時的高精度需求。

SK-50



HSK-T100

