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AGENT



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MYTECH[®]
ELEGANCE IN TECHNOLOGY

▶ HIGH SPEED 5 AXES ◀
MACHINING CENTER



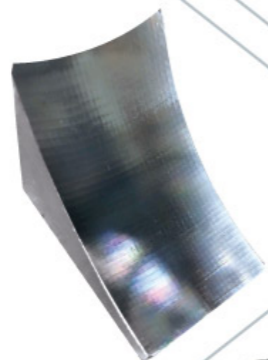
CE
ISO 9001

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HIGH SPEED 5 AXES MACHINING CENTER



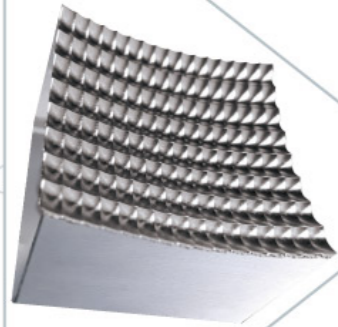
Turbine Blade Mold



Lamp Mold



Benz Mold



Lamp Mold



MT-1215FAV
MT-1615FAV

The body structure has undergone static rigid stress analysis, hoping to reduce the weight of the machine through the optimal structure design, while maintaining its necessary strength and rigidity. At the same time, with the correct lubrication and cooling system, it shows the excellent machine characteristics and higher value of MYTECH.

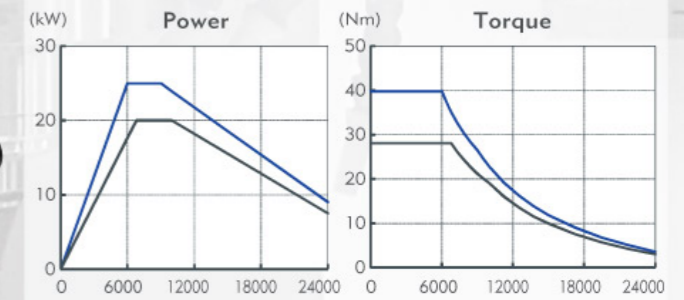
It is a good choice for molds, semiconductor inspection fixtures, auto parts and other processing.

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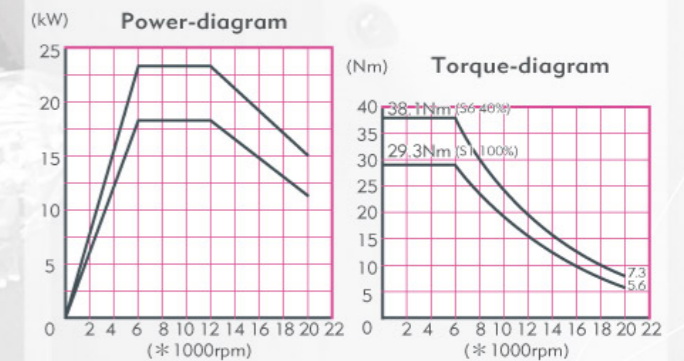
- || Controller Choice : Siemens (5 Axes Simultaneous)
or Heidenhain (5 Axes Simultaneous)
or Fanuc (4 Axes Simultaneous + 1)
- || Built-in Spindle : 16000rpm
- || Spindle Motor : 18/23.4kw (Siemens)
20/25kw (Fanuc)
- || Spindle Torque : 29.3/38.1Nm (Siemens)
28.1/39.8Nm (Fanuc)
- || Spindle Diameter : $\psi 170$
- || Spindle Bearing Inner Diameter : 65mm
- || Lubrication Type : Grease or Oil-Air (opt.)



Fanuc Oi-MF Plus



Siemens 840D



Renishaw Laser

In order to ensure product quality and meet customer needs, Mytech use Renishaw high precision instruments to detect precision laser and Ball bar for ensuring position accuracy and excellent roundness.

Spindle Motor

Spindle Heat Compensation System

Due to the phenomenon of thermal expansion and contraction of metal materials and changes in the ambient temperature of the factory building, in order to reduce the error of thermal displacement during processing, each machine is equipped with this function, which can effectively reduce thermal displacement in the mold industry for long-term processing influence and increase the added value of products.

OPTIONAL ACCESSORIES

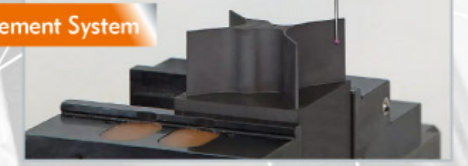


Ball Bar

High precision touch probe & standard calibration ball with Renishaw measurement software can detect error value of the worktable and compensate to ensure worktable precision.

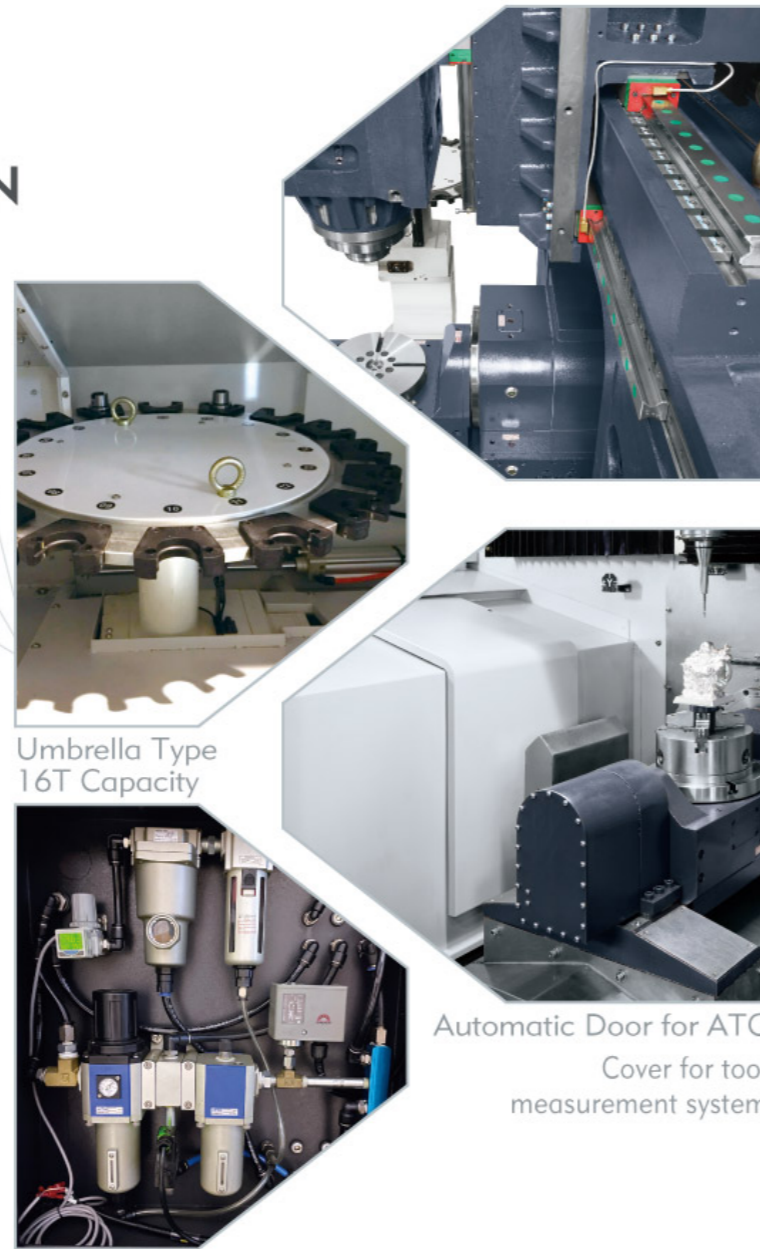


Laser Tool Measurement System



Infrared Workpiece Measurement

HIGH - RIGIDITY STRUCTURAL DESIGN



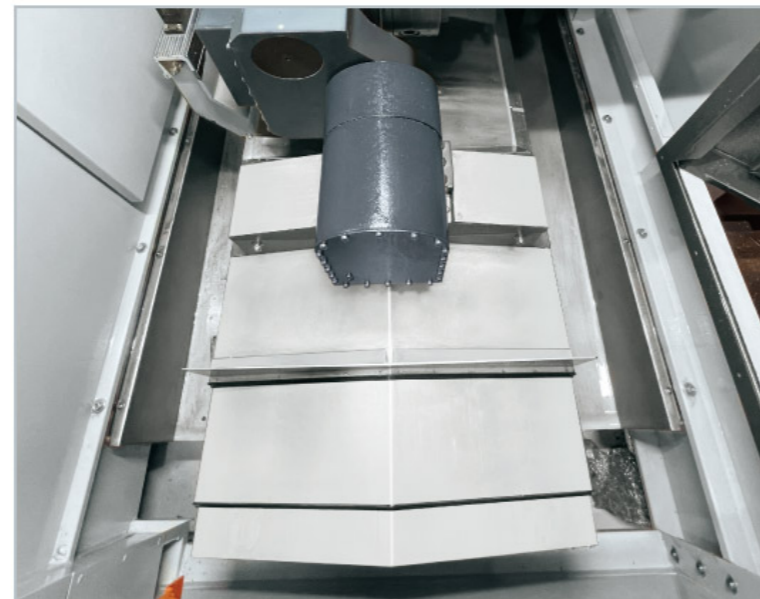
Umbrella Type
16T Capacity

Automatic Door for ATC
Cover for tool
measurement system

Pressure System



Spindle Oil Cooler System
Spindle and XYZ - Axes oil
cooler are use separately to
control temperature changes
stably and effectively



The Base Increases The Front Chip Removal
Inclination Angle

MT-1215FAV
MT-1615FAV

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Z Axis special thermal insulation oil cooling design, blocking the heat source generated by the motor.

The spindle type use built-in high-speed spindle with a maximum speed of 40Krpm, and is equipped with a high-precision spindle oil cooler.

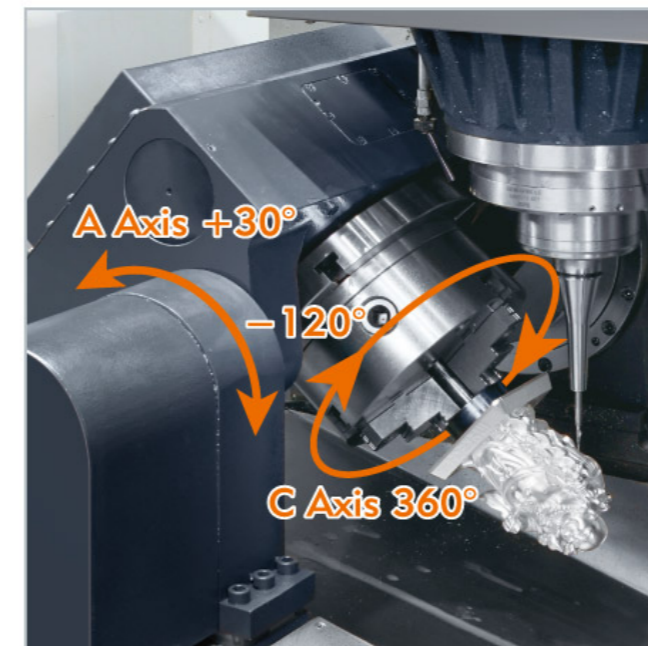
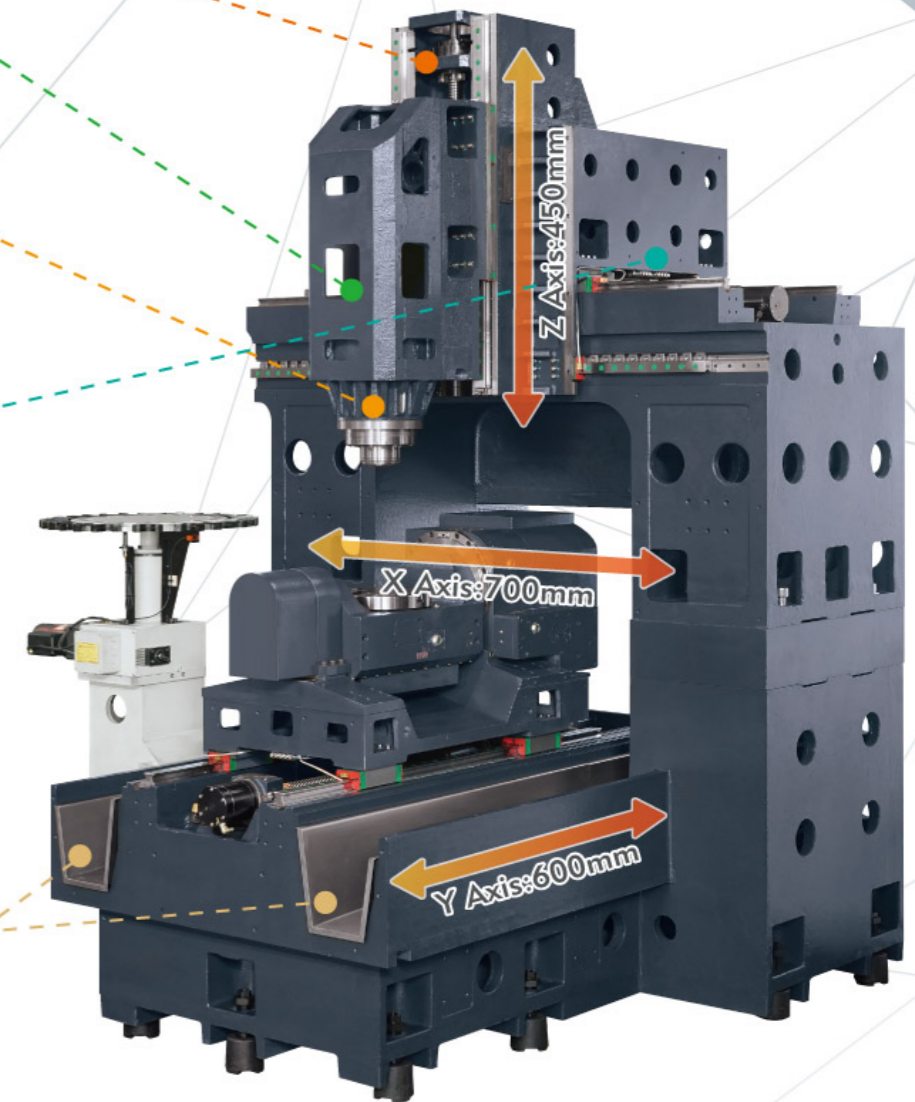
The special spindle head design improves the inconvenience of using a special tool length for mold processing, and is the best choice for mold processing.

Three linear ways on X Axis under sitting design and improve the stability of heavy load support.

Each MYTECH high speed 5 Axes machining center is equipped with spindle heat compensation system to improve the machine's high positioning accuracy and high precision workpiece are achieved.

The coolant through ball screws on XYZ - Axes. It can ensure that the screw will not deform and elongate, so as to achieve high positioning accuracy.

The base increases the inclination angle of the front chip removal, the design of the high-drop base chip removal groove, and covers the chip guide light plate to make the chip removal of the machine smooth without accumulation of chips.



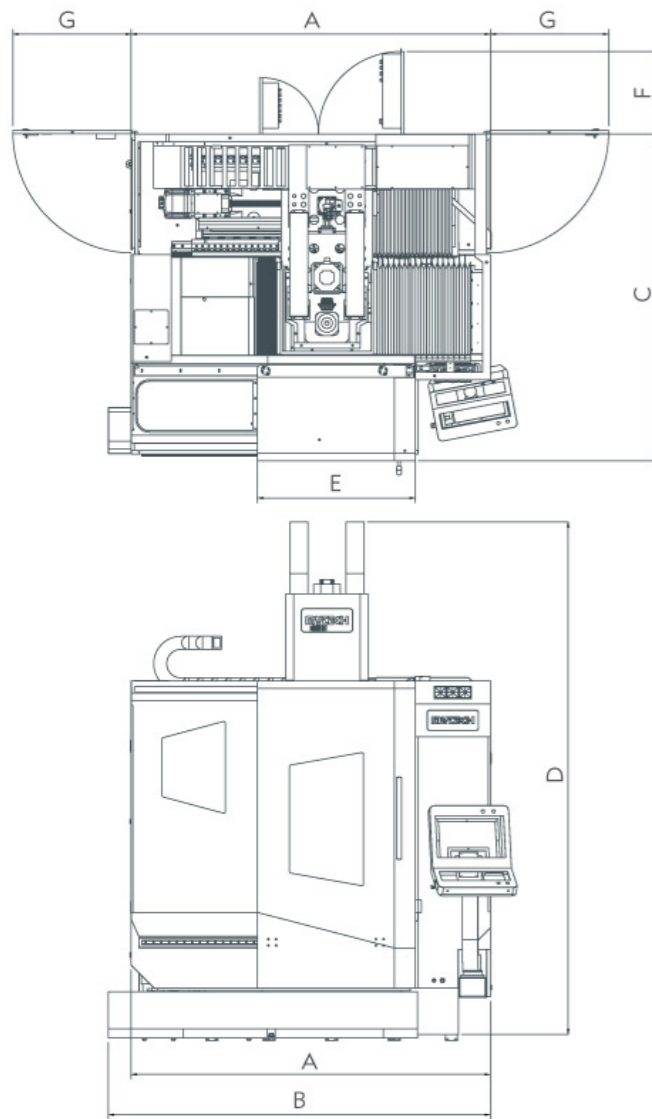
5 Axes Rotary Table

We use roller cam on Rotary table, it don't have backlash, efficient transmission, no thermal displacement, durable, good braking system.

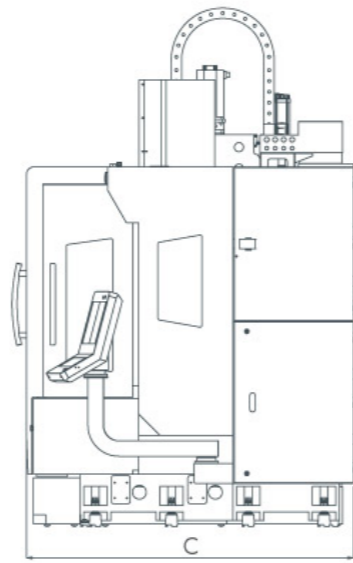
- || Table size : $\psi 250$ and $\psi 350$
- || Maximum R.P.M of Tilting Axis (A Axis) : 25rpm
- || Maximum R.P.M of Rotary Axis (C Axis) : 50rpm
- || A Axis tilting angle : $+30^\circ \sim -120^\circ$
- || C Axis rotary angle : 360° (continuous)
- || A, C Axes are use hydraulic brake system, and each own designated servo motor which has good stability.
- || Repeatability : 4 Sec.
- || Min. Index unit. : 0.001°



INSTALLATION DIMENSION (Unit:mm)

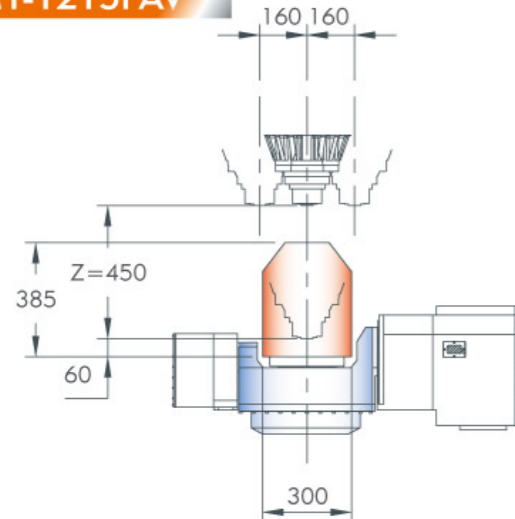


| Model | MT-1215FAV | MT-1615FAV |
|-------|--------------------|--------------------|
| A | 2324 | 2324 |
| B | 2470 | 2470 |
| C | 2115 | 2465 |
| D | MAX3319 MIN2869 | MAX3319 MIN2869 |
| E | 1020.5 | 1020.5 |
| F | 535 | 535 |
| G | 765.5 | 765.5 |

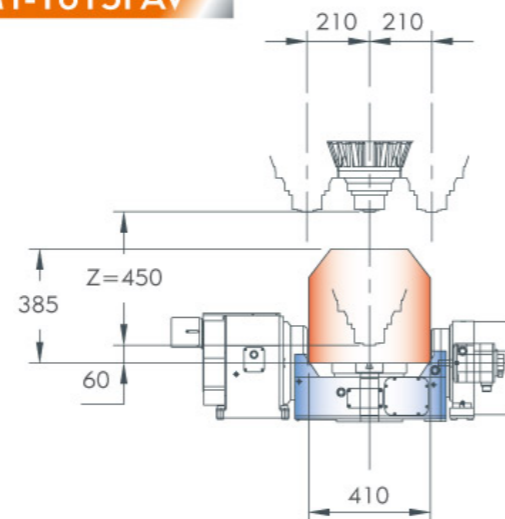


WORKPIECE DIMENSIONS (Unit:mm)

MT-1215FAV



MT-1615FAV



MACHINE SPECIFICATION

| Model | Unit | MT-1215FAV | MT-1615FAV | | | |
|----------------------|---------------------------------------|--------------------------|----------------------|--------------------------|----------------------|----------------------|
| Travel | X Axis | mm | 320 | 420 | | |
| | Y Axis | mm | 700 | 700 | | |
| | Z Axis | mm | 450 | 450 | | |
| | Table surface to spindle nose | mm | 60-510 | 60-510 | | |
| Table | Table size | | ψ250 | ψ350 | | |
| | T-slot | | 12H7 | 12H7 | | |
| | Table to ground at A=0° | | 1030 | 1035 | | |
| | Max. workpiece diameter | | 335 | 410 | | |
| | Table surface to spindle nose | mm | 60-510 | 60-510 | | |
| | Spindle nose to tilting center at 90° | mm | 60-510 | 60-510 | | |
| | Min. Index unit | deg. | 0.001 | 0.001 | | |
| | Rotary range | deg. | C Axis rotary angle | A Axis tilting angle | C Axis rotary angle | A Axis tilting angle |
| | | | 360 (continuous) | +30 ~ -120 | 360 (continuous) | +30 ~ -120 |
| | Table load capacity | kg | 0°/170kg, 90°/140kg | | 0°/170kg, 90°/140kg | |
| Spindle | Type | | Built-in | Built-in | | |
| | Spindle speed | rpm | 16000 | 16000 | | |
| | Spindle taper | | BBT40 | BBT40 | | |
| Feed Drive | Cutting movement X/Y/Z | m/min | 24 | 24 | | |
| | Rapid movement X/Y/Z | m/min | 24 | 24 | | |
| Maximum R.P.M | rpm | C Axis rotary angle | A Axis tilting angle | C Axis rotary angle | A Axis tilting angle | |
| | | 50 | 25 | 50 | 25 | |
| Motor power X/Y/Z | kw | 4.0/7.0/7.0 (FANUC) | | 4.0/7.0/7.0 (FANUC) | | |
| | | 4.87/4.87/4.87 (SIEMENS) | | 4.87/4.87/4.87 (SIEMENS) | | |
| ATC | Type | | Umbrella | Umbrella | | |
| | Tool magazine capacity | T | 16 | 16 | | |
| | Max. tool diameter | mm | 100 | 100 | | |
| | Max. tool diameter w/o adjacent tool | mm | 180 | 180 | | |
| | Max. tool length | mm | 300 | 300 | | |
| | Max. tool weight | kg | 7 | 7 | | |
| Accuracy | Accuracy positioning X/Y/Z | | 0.005 | 0.005 | | |
| | Repeatability X/Y/Z | | ±0.002 | ±0.002 | | |
| Accuracy positioning | sec | C Axis rotary angle | A Axis tilting angle | C Axis rotary angle | A Axis tilting angle | |
| | | 15 | 20 | 15 | 20 | |
| Repeatability | sec | 4 | 4 | 4 | 4 | |
| | | | | | | |
| Other | Floor space W x D | mm | 2470x2115 | | 2470x2465 | |
| | Coolant tank capacity | L | 230 | | 230 | |
| | Weight | kgs | 8000 | | 8500 | |
| | Power consumption | KVA | 30 | | 30 | |
| | Air source required | kg/cm ² | 6 | | 6 | |

Standard Accessories

| | |
|----------------------------------|--|
| Full - closed splash guard | Heat exchanger for electric cabinet |
| Oil skimmer system | 3 color Alarm light |
| Water gun and air gun | Automatic tool length measuring device |
| Chips flush system with chip box | Spindle oil cooler system |
| Tools box | Spindle heat compensation system |
| LED work lamp | Coolant through ball screw |
| Automatic lubrication system | |

Option Accessories

| | |
|--|------------------------------------|
| HSK-A63 Built-in 24Krpm | Laser tool measurement system |
| HSK-E50 Built-in 30Krpm | Infrared workpiece measurement |
| HSK-E40 Built-in 36Krpm | X/Y/Z linear scale |
| Umbrella type ATC 20/24T | Rotary encoder on B & C axes |
| Chip conveyor | CE Mark |
| The height of the base is increased by 150mm | Oil-mist collector |
| Coolant through spindle 20 bar | Spindle Oil-Air lubrication system |