

MYTECH[®]

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 AGENT

MYTECH[®]

ELEGANCE IN TECHNOLOGY



**SHOU ZUAN Double Column Vertical
Machining Center**

CE

Double Column Vertical Machining Center

MYTECH®

ROBUST STRUCTURE

- | The major parts are manufactured from cast iron, strong structure and strong ability to withstand shock.
- | The entire machine structure has been analyzed and designed by SOLIDWORKS for superior rigidity and accuracy.
- | Three-Axes roller type linear guideway, improve the cutting load to ensure dynamic accuracy and long service life.
- | Linear way of Ladder type beam construction on Y axis. Extra wide span between two linear ways exhibits outstanding stability of cutting.
- | Six roller type slide blocks on Z axis, to ensure that the spindle accuracy and stable when machining cutting.
- | Y axis used twin-chip auger (front-out), the chips can be easily discharged to machine outside.

NEW DESIGN OF SURFACE

- | The user can set the spindle tool on machine side easily.
- | The workpiece size can be put 1250x800x500mm on work table, it is wide for machining space.
- | Panoramic view of the lighting, can enhance the brightness inside the machine
- | The widest of door be 1450mm. It is easily to take the workpiece.
- | The side door size be 600x900mm (Width x High).
- | The pendant control box can be arbitrarily rotating swiveling. The user can set the spindle tool on machine side easily.
- | 40 feet high container can be installed 2 pcs machine, reduce transportation costs and increase competitiveness.
- | Applicable Industries : Automobile forming dies, Plastic injection molds, Machine parts machining.



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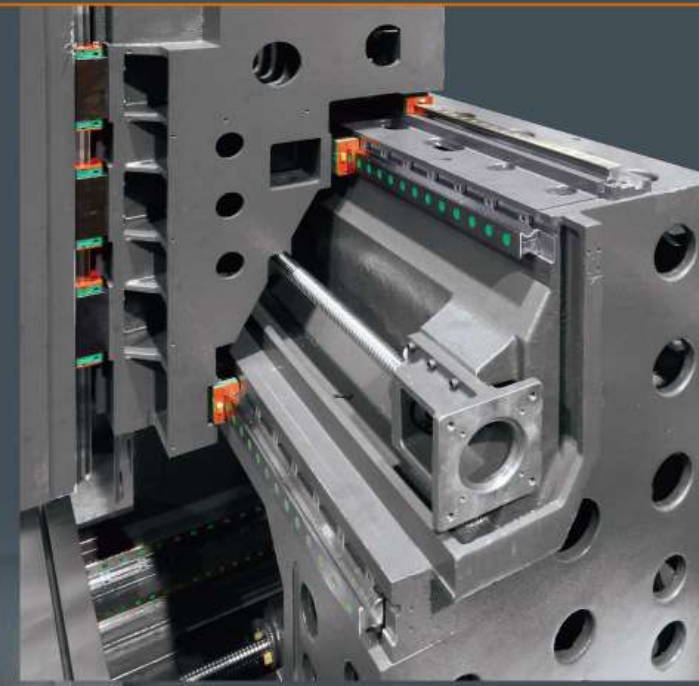
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Double Column Vertical Machining Center

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VD SPECIALLY DESIGNED

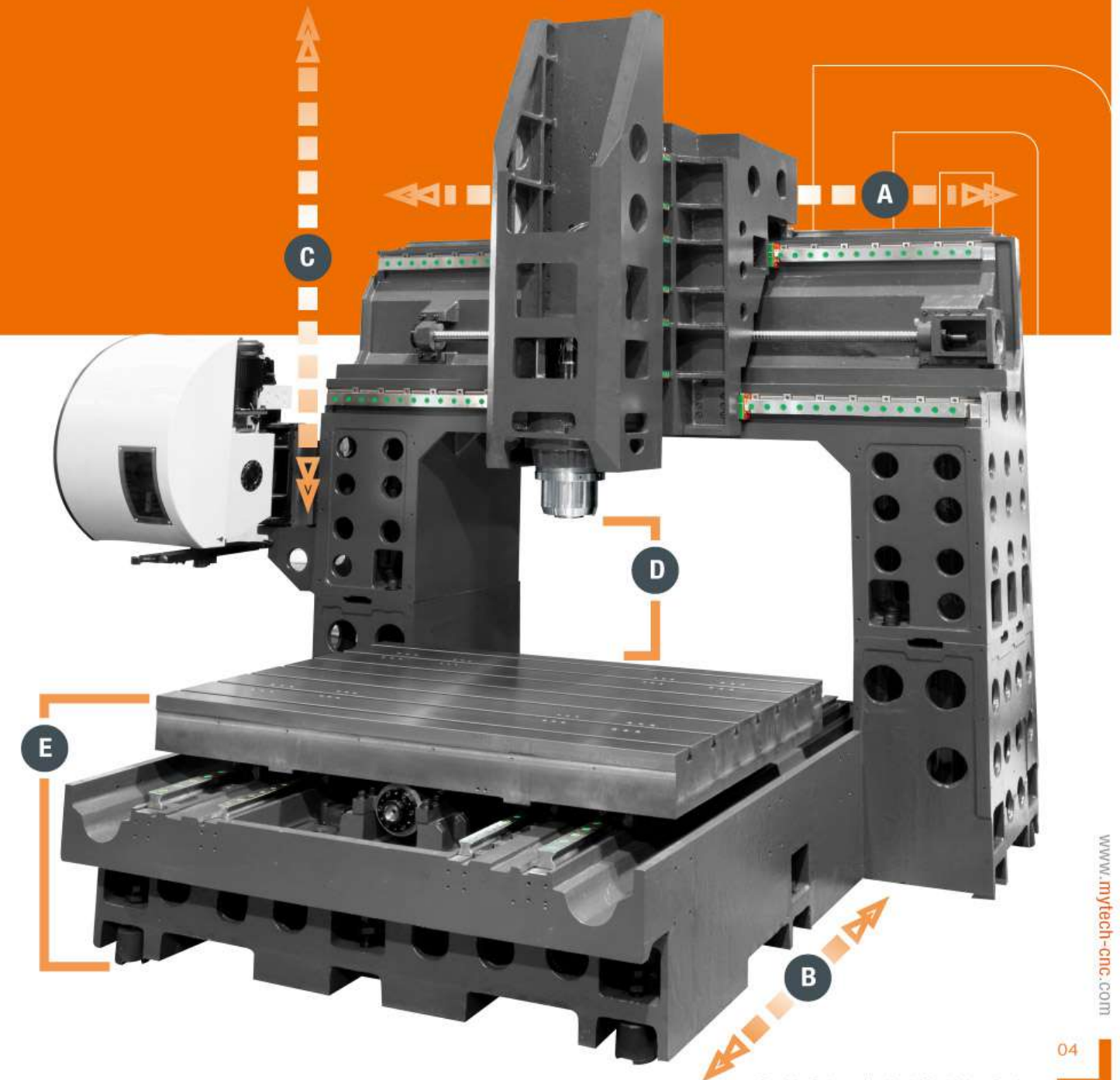
- | Ladder type beam construction.
- | Three linear ways on X-axis. The layout ensures maximum stability for the spindle head during heavy cutting.
- | Four linear ways on Y-axis, It be used 7kw servo motor. The worktable load up to 3800kgs.



MT-5742VD

- | Arm type ATC with 24 tools capacity. Fast and reliable roller gear cam ATC, lowers the idle time and enhances the machining efficiency.
- | Cutting feed rate on X,Y and Z axis: 20 m/min.
- | Rapid feed rate on X,Y and Z axis: 20m/min.

- A** X Axis 1450mm
- B** Y Axis 1080mm
- C** Z Axis 700mm
- D** Table top surface to spindle nose 110-810mm
- E** Height of table from ground 610mm

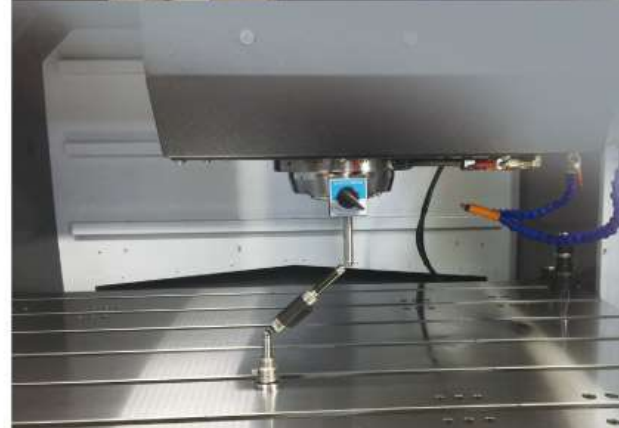
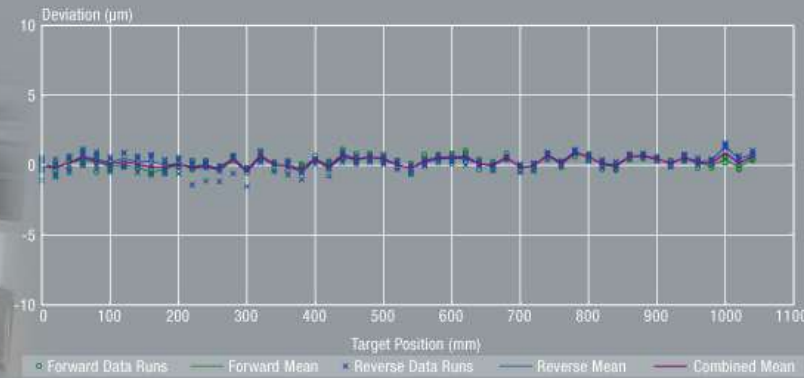


Double Column Vertical Machining Center

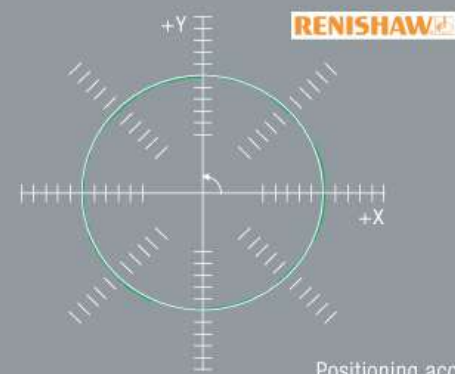
QUALITY CONTROL



ACCURACY INSPECTION BY RENISHAW LASER



BALL BAR CIRCULATING ACCURACY INSPECTION

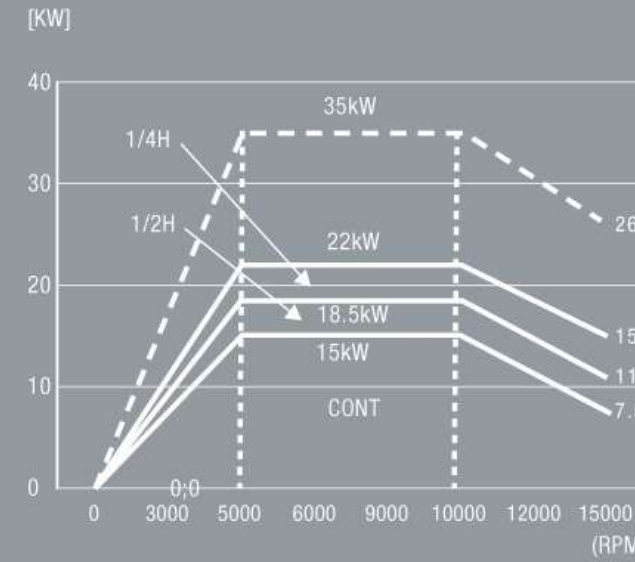


Positioning accuracy ± 0.004
Repeatability accuracy ± 0.002

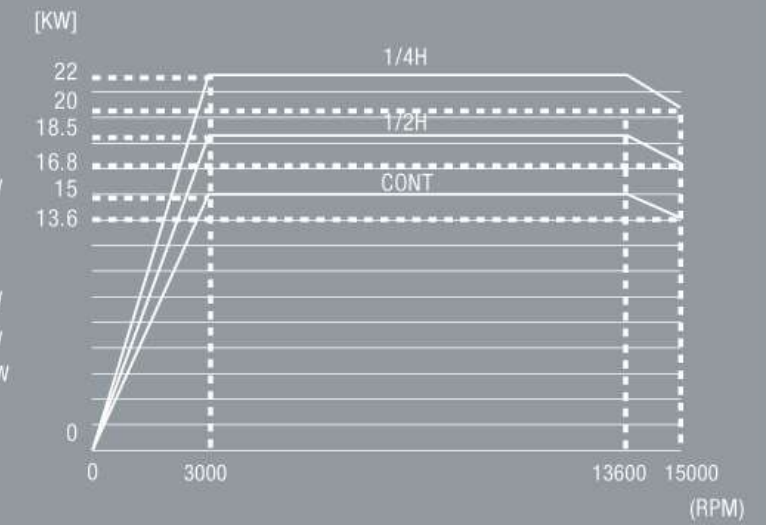
SPINDLE TORQUE



BBT#40
LONG TYPE SPINDLE



FANUC MODEL AiT15/15000
(18.5KW-15000RPM)



MITSUBISHI MODEL SJ-VK30-16FZT-S05
(18.5KW-15000RPM)

STANDARD ACCESSORIES

Both save money and environmental protection of the lubrication mechanism, pneumatic pump to provide three axes lubrication and build centralized equipment of pressure system.

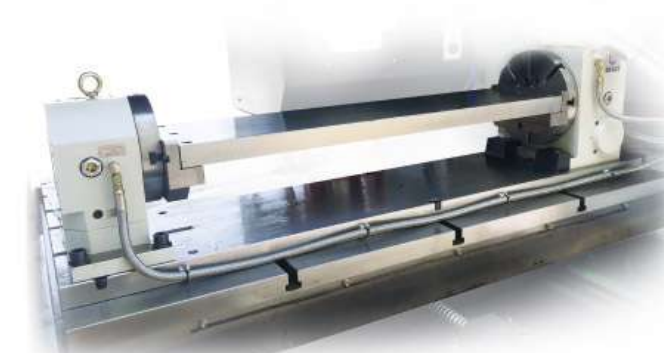


LUBRICATION AND PRESSURE SYSTEM



SPINDLE SPLASH RING

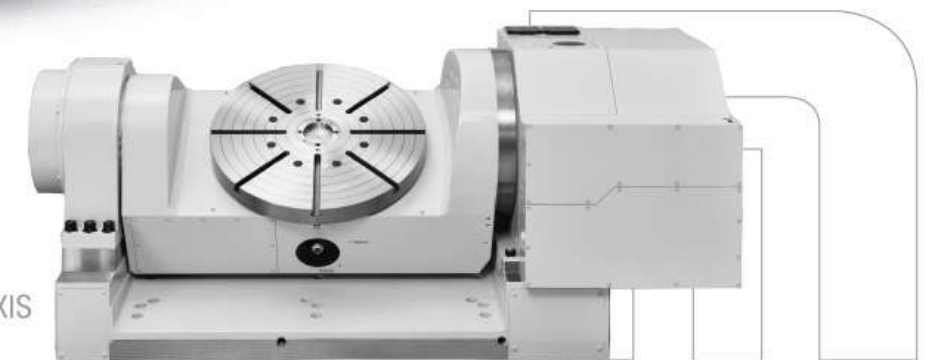
OPTION ACCESSORIES



CNC 4TH AXIS ROTARY TABLE



OPTICAL SCALE OF HEIDENHAIN



CNC 4TH & 5TH AXIS
ROTARY TABLE

Double Column Vertical Machining Center

SPECIFICATION

- | X-axis travel : 1650/2150/2650mm
- | Y-axis travel : 1450mm
- | Z-axis travel : 700mm

MODEL INFO.

MT - 57 85 VD

- Y-axis travel : 1450mm
- X-axis travel : 2150mm
- Four roller type linear guideway on X-axis / Three roller type linear guideway on Y-axis



#50-CHAIN TYPE ATC WITH 32 TOOLS CAPACITY. (OPT.)

BBT#50 DIRECT TYPE SPINDLE (OPT.)

CHANGE TOOL TYPE

FLAT TYPE CHIP CONVEYER

| Flat type chip conveyer is high efficiency and high speed to easily move the chips and clean.

CE MARK ELECTRICAL PARTS

| Keep the space for new apparatus.

| The pendant control box can be arbitrarily rotating swiveling.

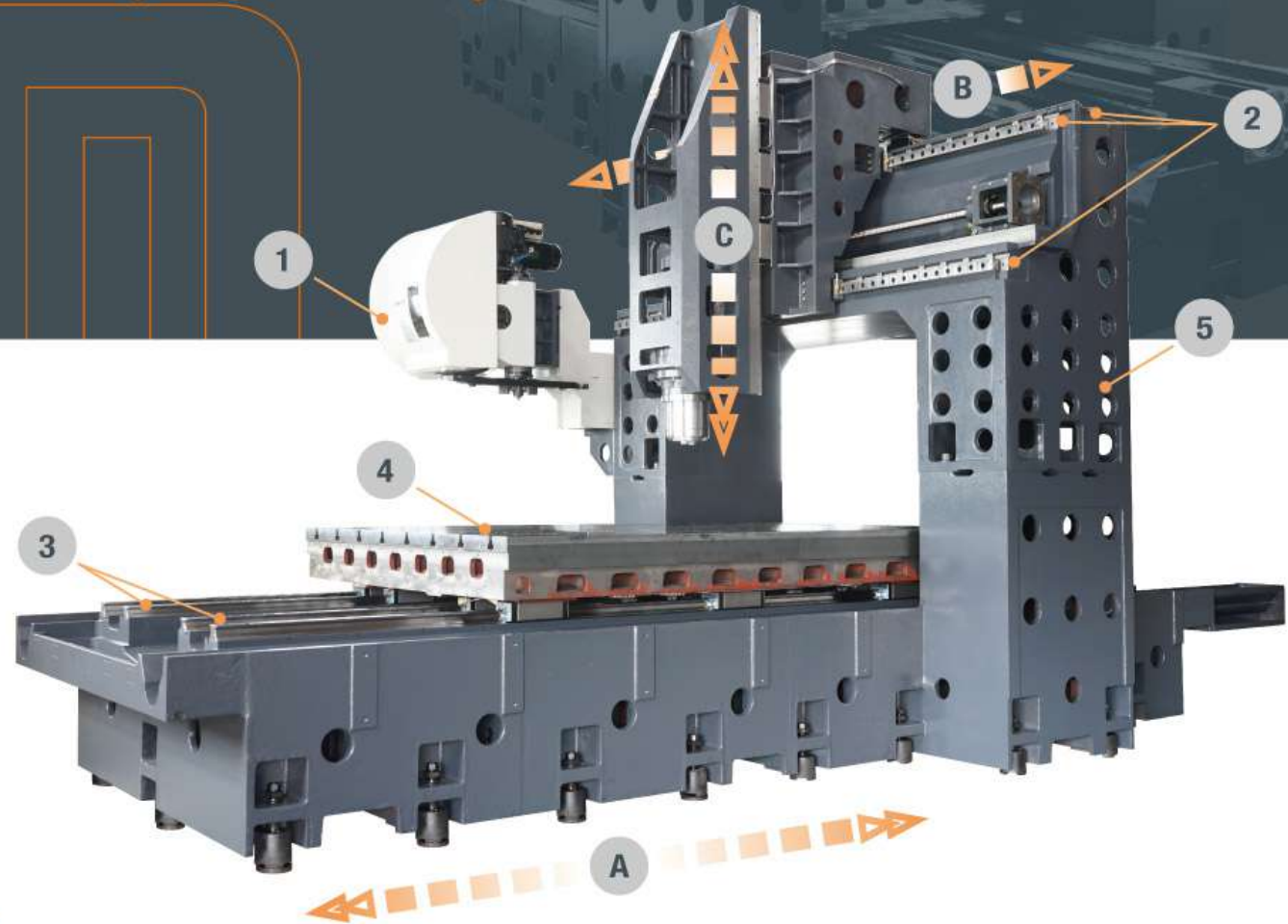
LUBRICATION and PRESSURE SYSTEM

Double Column Vertical Machining Center

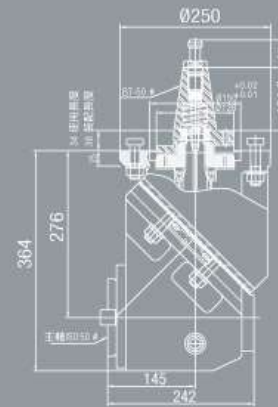
SUPER STRUCTURE

- 1 Arm type ATC with 24 tools capacity.
- 2 Three linear ways on Y-axis. It have been improve the stability of the spindle head during heavy cutting
- 3 Four linear ways on X-axis. There are three blocks with each linear ways, which effectively improves the load capacity of the table, and not only strengthens the machine structure, but also maintains a stable machining accuracy.
- 4 Table size : 1550x1450/2050x1450/2550x1450mm
- 5 The cross beam is a reinforced honeycomb shaped structure design together with one-piece door shaped columns for exhibiting outstanding rigidity and vibration absorbing performance.
- 6 Class C3 ball screw on Three axes, It have been pre-tensioned to ensure machining accuracy under heavy loading condition for a long time

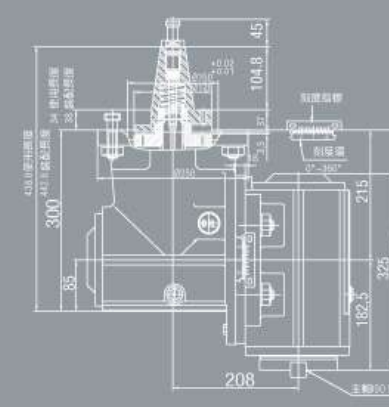
- A** X-axis travel : 1650/2150/2650mm
- B** Y-axis travel : 1450mm
- C** Z-axis travel : 700mm. Six roller type slide blocks on Z-axis, to ensure that the spindle accuracy and stable when machining cutting.



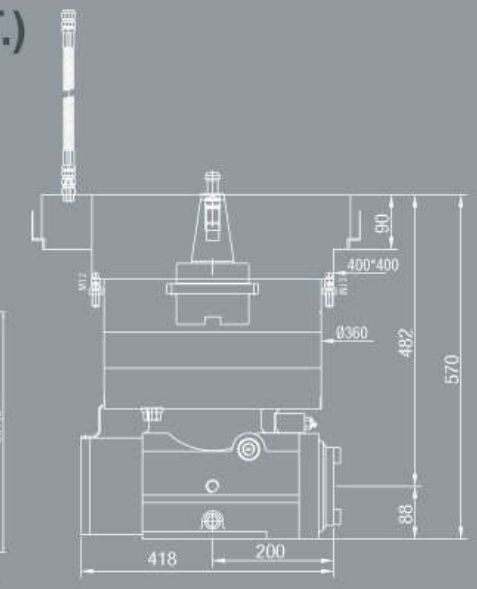
FIVE-SIDED MACHINING APPLICATIONS (OPT.) IMPROVE PROCESSING VALUE



45° UNIVERSAL HEAD



90° UNIVERSAL HEAD



AUTOMATIC HYDRAULIC PLATE

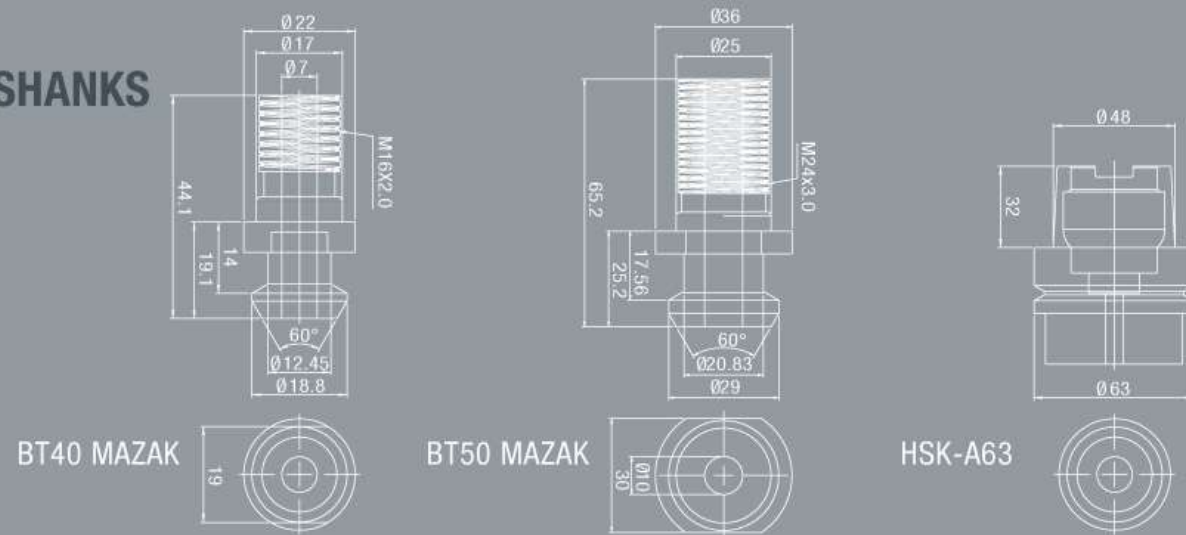


| MODEL SPEC. | 45° UNIVERSAL HEAD | 90° UNIVERSAL HEAD | MODEL SPEC. | AUTOMATIC HYDRAULIC PLATE |
|--------------------|--------------------|--------------------|--------------|---------------------------|
| Tool clamp/unclamp | Manual | Manual | Install type | Auto |
| Max. speed | 2000rpm | 2000rpm | Max. speed | 3500rpm |
| Tool shank | ISO 50# | ISO 50# | Tool shank | ISO 50# |
| Table diameter | ψ 250/ ψ 300 | ψ 250/ ψ 300 | Precision | 2.5°/5°/15° |
| Max. power | 38kw | 38kw | Max. power | 38kw |

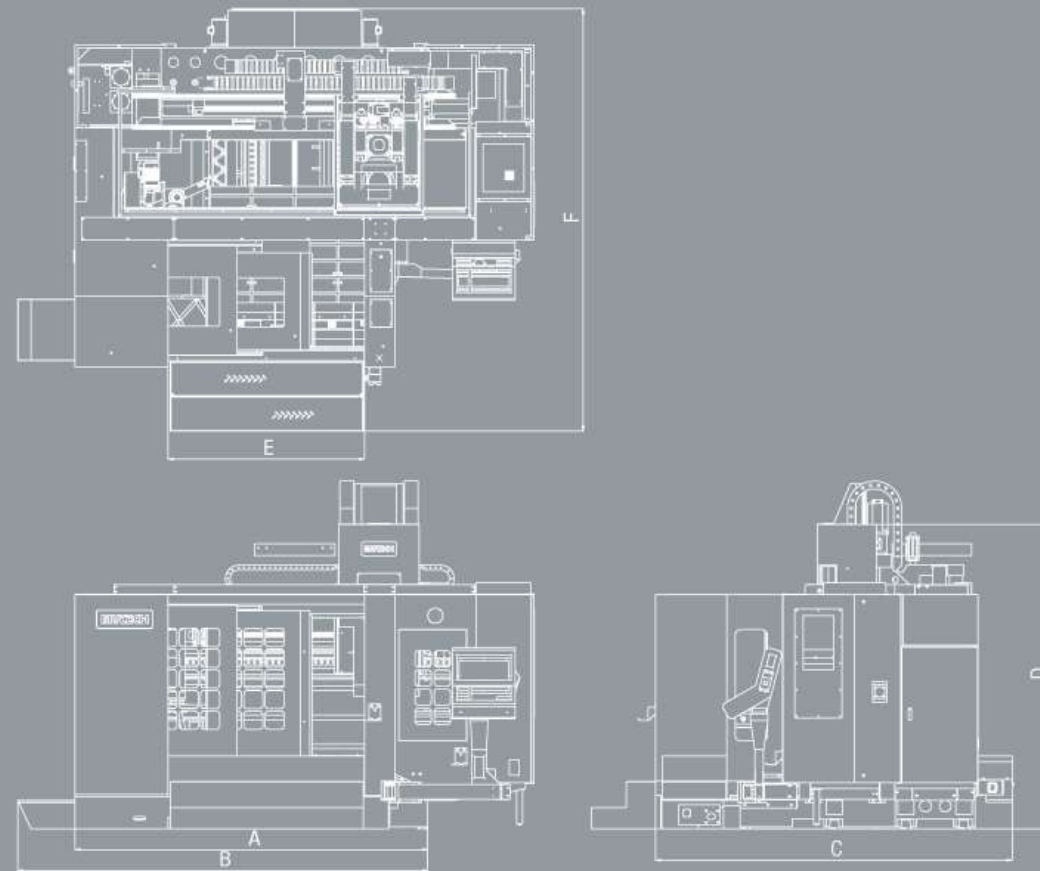
Double Column Vertical Machining Center



TOOL SHANKS

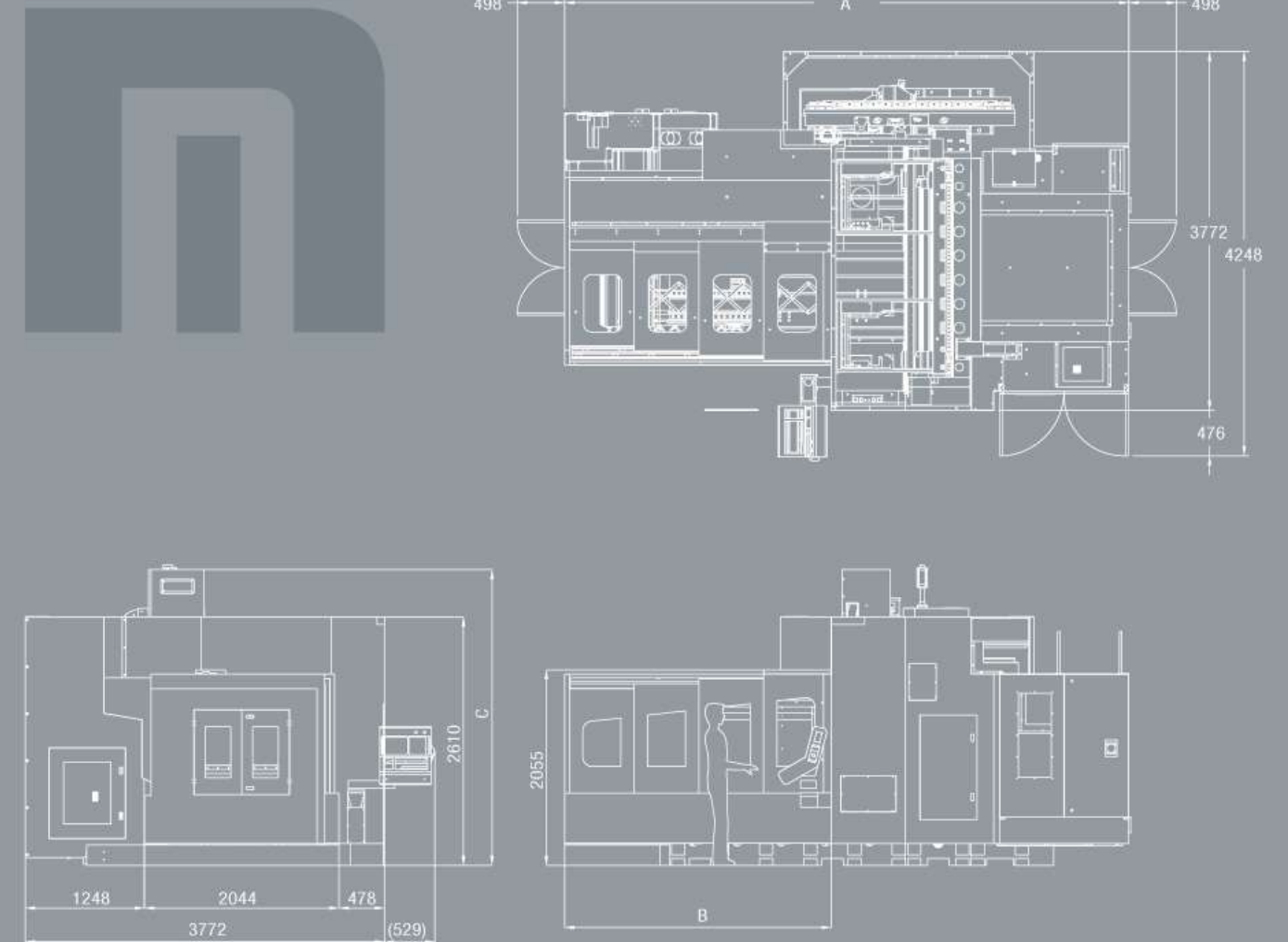


DIMENSIONS (Unit:mm)



| MODEL | A | B | C | D | E | F |
|-------------|------|------|------|-----------------|------|------|
| 5032 | 3950 | 3435 | 2915 | MIN2005 MAX2605 | 1450 | 3465 |
| 5742 | 3950 | 3435 | 3075 | MIN1910 MAX2610 | 1450 | 3625 |
| 5765 | 3450 | 3945 | 4650 | MIN2310 MAX3010 | 1450 | 5200 |
| 5785 | 3450 | 3945 | 5150 | MIN2310 MAX3010 | 1450 | 5700 |
| 57E5 | 3450 | 3945 | 5650 | MIN2310 MAX3010 | 1450 | 6200 |

MT-5765/5785/57E5 DIMENSIONS (Unit:mm)



| MODEL | A | B | C |
|-------------|------|------|-----------------|
| 5765 | 4805 | 2315 | MIN2610 MAX3018 |
| 5785 | 5927 | 2800 | MIN2610 MAX3018 |
| 57E5 | 7080 | 3253 | MIN2610 MAX3018 |

Double Column Vertical Machining Center SPEC.

| MODEL | | MT-5032V | MT-5032VS | MT-5742V | MT-5742VS | MT-5765VD | MT-5765VSD | MT-5785VD | MT-5785VSD | MT-57E5VD | MT-57E5VSD |
|-------------------------------------|--------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| TABLE | | | | | | | | | | | |
| Size | mm | 1300x850 | 1300x850 | 1450x1000 | 1450x1000 | 1550x1450 | 1550x1450 | 2050x1450 | 2050x1450 | 2550x1450 | 2550x1450 |
| T-slot (width x nox distance) | mm x T | 18x5x150 | 18x5x150 | 18x7x140 | 18x7x140 | 20x8x180 | 20x8x180 | 20x8x180 | 20x8x180 | 20x8x180 | 20x8x180 |
| Maximun table load | kgs | 1000 | 1500 | 2000 | 2500 | 3800 | 3800 | 4800 | 4800 | 5800 | 5800 |
| TRAVEL | | | | | | | | | | | |
| X,Y,Z -axis | mm | 1270x815x610 | 1270x815x610 | 1450x1080x700 | 1450x1080x700 | 1450x1650x700 | 1450x1650x700 | 1450x2150x700 | 1450x2150x700 | 1450x2650x700 | 1450x2650x700 |
| Table top surface to spindle nose | mm | 200-810 | 200-810 | 110-810 | 110-810 | 134-834 | 134-834 | 134-834 | 134-834 | 134-834 | 134-834 |
| Spindle center to column slide ways | mm | 1100 | 1100 | 1100 | 1100 | | | | | | |
| Linear guideway type (X/Y/Z-axis) | mm | 45/45/45 | 45/45/45 | 45/45/45 | 45/45/45 | 45x2,35x1/45x4/45x2 | 45x2,35x1/45x4/45x2 | 45x2,35x1/55x2,45x2/45x2 | 45x2,35x1/55x2,45x2/45x2 | 45x2,35x1/55x2,45x2/45x2 | 45x2,35x1/55x2,45x2/45x2 |
| Ball screw (X/ Y/ Z-axis) | | 40/40/40 | 40/40/40 | 40/40/40 | 40/40/40 | 45/63/40 | 45/63/40 | 45/63/40 | 45/63/40 | 45/63/40 | 45/63/40 |
| SPINDLE | | | | | | | | | | | |
| Spindle holder | | Direct | Built | Direct | Built | Direct | Built | Direct | Built | Direct | Built |
| Taper | | BBT40 | BBT40 | BBT40 | BBT40 | BBT40 | BBT40 | BBT40 | BBT40 | BBT40 | BBT40 |
| Diameter | mm | ψ 70 | ψ 65 | ψ 70 | ψ 65 | ψ 70/OPT. ψ 90 | ψ 65 | ψ 70/OPT. ψ 90 | ψ 65 | ψ 70/OPT. ψ 90 | ψ 65 |
| Spindle speed | rpm | 15000 | 20000 | 15000 | 20000 | 15000 | 20000 | 15000 | 20000 | 15000 | 20000 |
| FEED | | | | | | | | | | | |
| Three axes | | Roller type linear guideway | Roller type linear guideway | Roller type linear guideway | Roller type linear guideway | Roller type linear guideway | Roller type linear guideway | Roller type linear guideway | Roller type linear guideway | Roller type linear guideway | Roller type linear guideway |
| Cutting feedrate X/ Y/ Z (G01) | m/min | 20/20/20 | 20/20/20 | 20/20/20 | 20/20/20 | 20/20/20 | 20/20/20 | 20/20/20 | 20/20/20 | 20/20/20 | 20/20/20 |
| Rapid feedrate X / Y/ Z (G0) | m/min | 20/20/20 | 20/20/20 | 20/20/20 | 20/20/20 | 20/20/20 | 20/20/20 | 20/20/20 | 20/20/20 | 20/20/20 | 20/20/20 |
| ATC | | | | | | | | | | | |
| Type | | Arm | Umbrella | Arm | Umbrella | Arm | Umbrella | Arm | Umbrella | Arm | Umbrella |
| Max. tool Dia | mm | ψ 75 / ψ 150 | ψ 75 / ψ 200 | ψ 75 / ψ 150 | ψ 75 / ψ 200 | ψ 75 / ψ 150 | ψ 75 / ψ 150 | ψ 75 / ψ 150 | ψ 75 / ψ 150 | ψ 75 / ψ 150 | ψ 75 / ψ 150 |
| Max. tool length | mm | 300 | 200 | 300 | 200 | 300 | 300 | 300 | 300 | 300 | 300 |
| Max. tool weight | kgs | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Tool type | | CAT40 | CAT40 | CAT40 | CAT40 | CAT40 | CAT40 | CAT40 | CAT40 | CAT40 | CAT40 |
| Tool magazine capacity | T | 24 | 12 | 24 | 12 | 24 | 12 | 24 | 12 | 24 | 12 |
| MOTORS | | | | | | | | | | | |
| Spindle | kw | 15 | 23 | 15 | 23 | 7.5/11 | 7.5/11 | 7.5/11 | 7.5/11 | 7.5/11 | 7.5/11 |
| X/ Y/ Z-Axis | kw | 7.0/7.0/7.0 | 7.0/7.0/7.0 | 7.0/7.0/7.0 | 7.0/7.0/7.0 | 9.0/7.0/7.0 | 9.0/7.0/7.0 | 9.0/7.0/7.0 | 9.0/7.0/7.0 | 9.0/7.0/7.0 | 9.0/7.0/7.0 |
| Coolant pump | kw | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| ATC motor | w | 350 | 350 | 350 | 350 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 |
| Air conditioner | w | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| Spindle oil cooler | w | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| Chip flush motor | w | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 | 1290 |
| OTHER | | | | | | | | | | | |
| Machine Space (LxW) | mm | 3300x2800 | 3300x2800 | 3480x3000 | 3480x3000 | 4880x3772 | 4880x3772 | 5925x3772 | 5925x3772 | 7075x3772 | 7075x3772 |
| Coolant tank capacity | L | 400 | 400 | 400 | 400 | 500 | 500 | 500 | 500 | 500 | 500 |
| Net weight | kgs | 11000 | 11000 | 12000 | 12000 | 15400 | 15400 | 17000 | 17000 | 18600 | 18600 |
| Total power consumption | KVA | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Air source required | kg/cm ² | 6 up | 6 up | 6 up | 6 up | 7 up | 7 up | 7 up | 7 up | 7 up | 7 up |

STANDARD ACCESSORIES

- | Full-closed splash guard
- | Oil skimmer system
- | Water gun and air gun
- | Chips flush system
- | Tools box
- | LED work lamp
- | Automatic lubrication system
- | Heat exchanger for electric cabinet
- | 3 color Alarm light
- | Automatic tool length measuring device
- | Spindle oil cooler system
- | Spindle splash ring
- | Screw type chip conveyer

OPTION ACCESSORIES

- | BBT#40 Direct type spindle 12000RPM
- | BBT#50 Direct type spindle 6000-8000RPM
- | HSKA63 Built type spindle 24000RPM
- | Long type spindle
- | Flat type chip conveyer
- | Coolant through spindle
- | 3-Axes optical scale
- | CE norm
- | Breakage detection system
- | Oil mist collector
- | Inverter ATC system
- | X and Y Axis coolant through ball screws
- | CNC 4th Axis rotary table
- | CNC 4th & 5th Axis rotary table