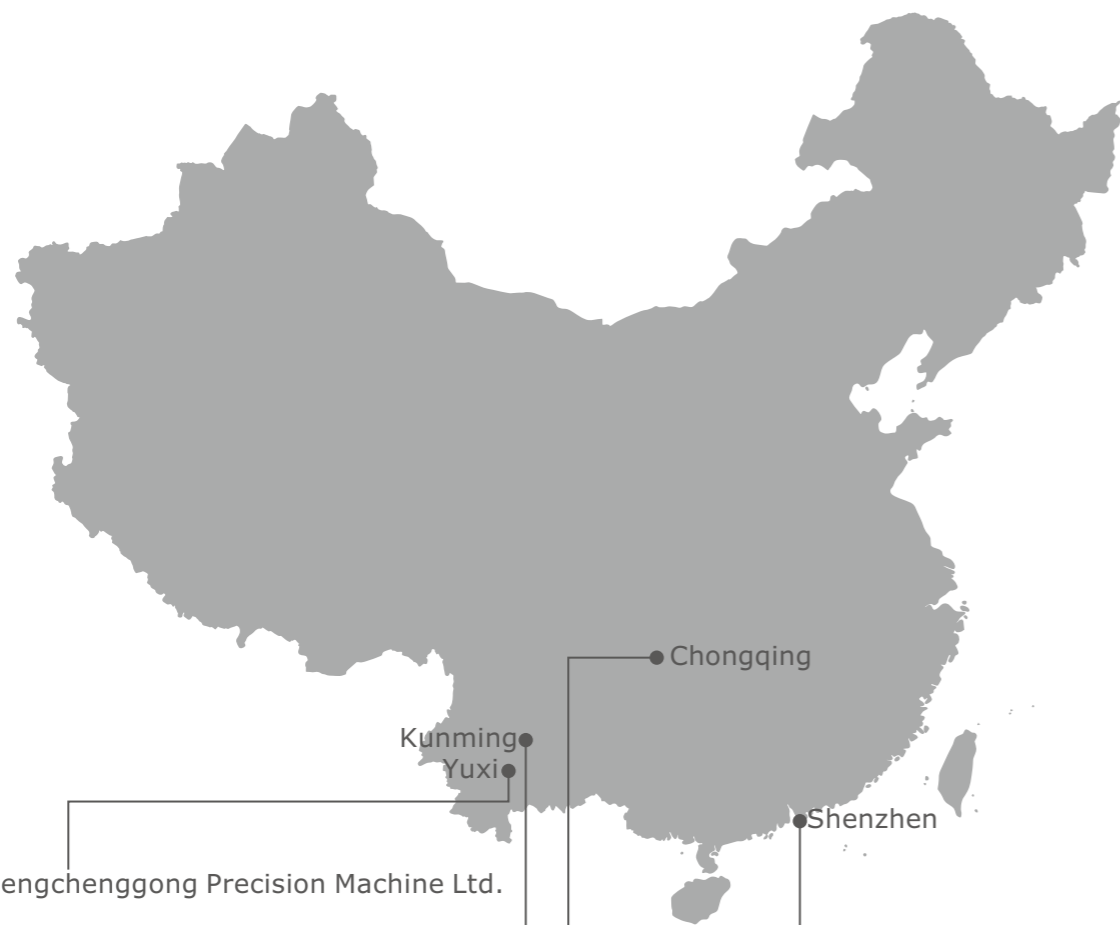




TAIZHENG MACHINE TOOL UNION

在明精工



Yunnan Zhengchengong Precision Machine Ltd.

Kunming Taigong Precision Machine Co., Ltd.
Kunming Tailian Precision Machinery Co., Ltd.
Kunming Taipin Smart Equipment Co., Ltd.

Chongqing Taizheng Precision Machine Ltd.

Chongqing

Kunming
Yuxi

Shenzhen

Smartech Machinery and Equipment Co., Ltd.
UNO CNC and Automation Co., Ltd.

UNO CNC and Automation Co., Ltd.

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Distributor:

Empty box for distributor information.



**Machining Center
— series**

**High Accuracy.
High Performance.**

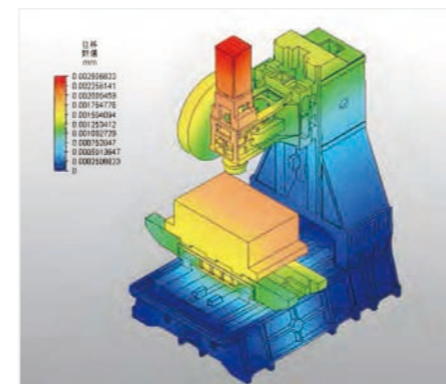
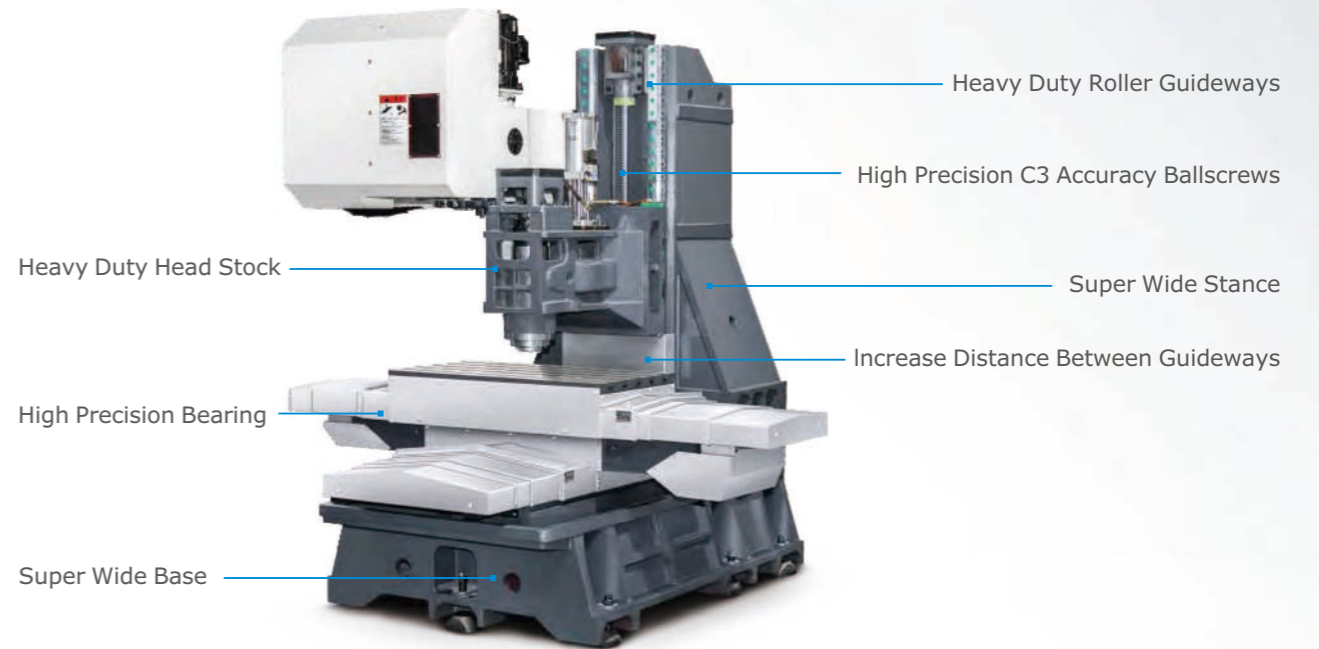
Introducing the most powerful
machining centers we ever designed.

Heavy-duty & High-precision Machining Champion

The demands placed on your business become tougher every day, as modern manufacturers are tasked with meeting ever-tightening tolerances, and problem-solving to deliver the desired result by strict deadlines. Our VMC-series, was designed to enhance machine cutting performance, machining accuracy and efficiency, no matter how complicated the part's shape or surface is.

While our vertical machining centers range in machining capacity, we design each one with quality, reliability, ease of operation and safety in mind.

We offer the widest range of vertical machining centers in the industry to ensure you have the most suitable solution for your needs with the lowest cost of ownership. Thanks to our Production-On-Demand manufacturing philosophy, our C-type vertical machining centers have covered the X-axis travel range from 500 to 2300 mm.



■ Designed with latest FEM technology

All UNO CNC machine are designed with the latest technology of FEM analysis, which gives a mathematical method for solving the problem of deformation during various kinds of machining and stressed conditions.



■ Stainless Steel Plate for Easier Chip Flushing

Stainless steel plates are mounted on the bottom side of enclosure, to make the chip flushing easier. Less chip left in the guarding, reducing the job of operator, and make machine and workshop looks cleaner and neater.



■ Oil cooler for spindle

A standard oil cooling machine is used to prevent temperature increasing of spindle, improve working precision of machine. Circulating cooling oil carries away heat and prevents deviation of spindle center line and heat deformation. The lifetime of the spindle will be greatly extended.



■ High-capacity Precision Spindle

With our strict quality inspection standard, every single spindle is inspected thoroughly for precision standard check of um grade. The advanced design of our spindles provides high axial-thrust capability, yet generates minimal heat. Front and rear pre-load angular bearing with large spacer was used to enhance radial stability of spindle, enabling heavy cuts on steel.



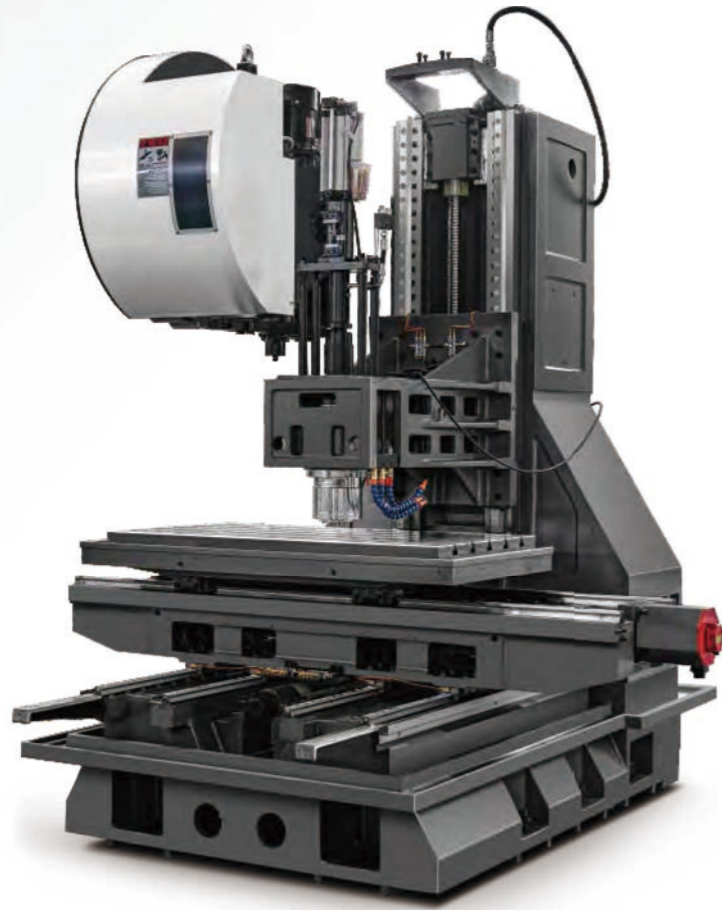
■ High-speed Tool Changer

A standard 24-tool arm-type tool changer is used to improve the production efficiency and tool carrying capacity of the machine. ATC arm helps to change tools rapidly, reducing non-productive time. Full-closed enclosure is optional for protecting the ATC from chip, dust, coolant and oil. 30-tool and 48-tool (2*24 arm-type) optional.



■ Air Conditioner for Electrical Cabinet

Air conditioner provides greater operating efficiency, lower power consumption and longer life for heat sensitive electrical components. The cooling unit helps to cool, dehumidify, and recirculate clean air within the electrical cabinet and through the heat producing components, providing protection from high temperatures, humidity and airborne contaminants.



No matter how complicated the part shapes and the part surfaces are, UNO VMC series will help to ensure speed, accuracy, and efficiency when you face your next manufacturing challenge.



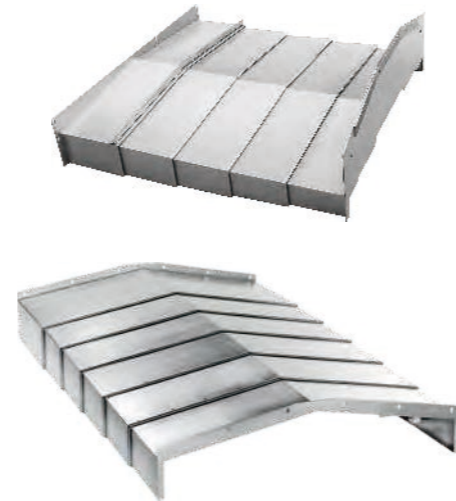
■ Strength in the right places

Our standard VMC series is designed with larger guideways and more slide blocks compared to other machines in the market. Our principle is to design the structure with way higher rigidity than just enough, so that the machine is able to cut faster, harder, and have more durability.



■ Powerful Control System

Our machines are equipped with the most powerful controllers on the market. Motors of XYZ and spindle we used are one size bigger than what are commonly used in the market. This gives the machine more cutting torque, higher machining speed and better accuracy, consequently increase the efficiency and productivity.



■ Telescopic Waycovers made by Keyarrow

Telescopic stainless steel protection of guideway produced by top suppliers in the market, taking advantage of the expertise of professional producer, improving the serving life of not just waycover itself, but also ball screws, linear guideways and bearings.

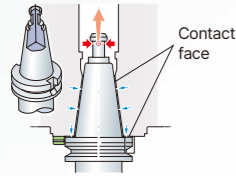


Options

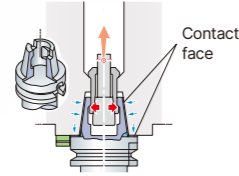
Two-face contact specifications OPTION

Tool rigidity has been improved by contact of both the spindle taper and the spindle nose. This extends the useful life of a tool, raises cutting power and improves the machining precision.

BBT40*, BBT50*

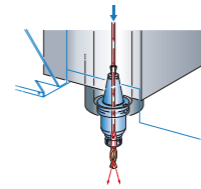


HSK-A63, HSK-A100



Coolant through Spindle OPTION

The through-spindle coolant system effectively eliminates chips, cooling directly at the machining point, and lengthening the lives of your tools.



Coolant through Spindle

Coolant Pressure:
20 bar
30 bar
50 bar
70 bar

* When the two-face contact specification is selected, a two-face contact tool and other tools cannot be used together.

Linear Scale OPTION

The absolute optical linear scale (full closed-loop control) made by Fagor or Heidenhain is useful for high-precision positioning, and is available as an option.



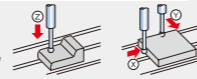
- High accuracy, high resolution
- Greater accuracy than standard machines
- Highly resistant to condensation and oil
- Vibration and impact resistant characteristics

Workpiece measurement function OPTION

In-machine measuring system (spindle)
Optical signal transmission

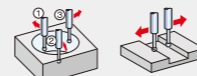
Work setter function (manual measurement application)

- Reference plane measurement
- The machining reference point can be calculated simply by applying the sensor from the Z, X and Y-axis directions.



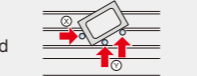
- Reference hole measurement

Centering a boss, hole, groove or width can be done at any two or three points, simply by applying the sensor.



- Coordinate rotation measurement

Machining can be done without changing the program even if the workpiece is attached crookedly, simply by performing this operation within the X-axis and Y-axis plane.



In-machine measuring system (spindle)
Radio signal transmission

Tool measurement function OPTION

In-machine measuring system (table)
Touch sensor (tool length)

Tool setter function (manual measurement application)

- Tool length measurement

The tool length value can be registered automatically to the designated tool offset number.



In-machine measuring system (table)
Touch sensor (tool length / tool diameter)

Tool setter function (manual measurement application)

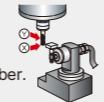
- Tool length measurement

The tool length value can be registered automatically to the designated tool offset number.



- Tool diameter measurement

The tool diameter value can be registered automatically to the designated tool offset number.



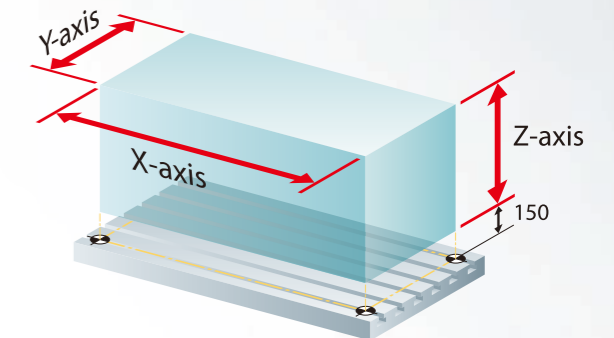
Work Piece Size VMC-Series

| XYZ Box-way | Units | VMC-650 | VMC-850B | VMC-1050 | VMC-1060B | VMC-1167 |
|---------------|-------|---------|----------|----------|-----------|----------|
| Area of Table | mm | 800×420 | 1050×500 | 1000×530 | 1300×600 | 1200×600 |
| X-Axis | mm | 650 | 800 | 1000 | 1000 | 1100 |
| Y-Axis | mm | 400 | 550 | 500 | 600 | 600 |
| Z-Axis | mm | 480 | 550 | 700 | 600 | 700 |

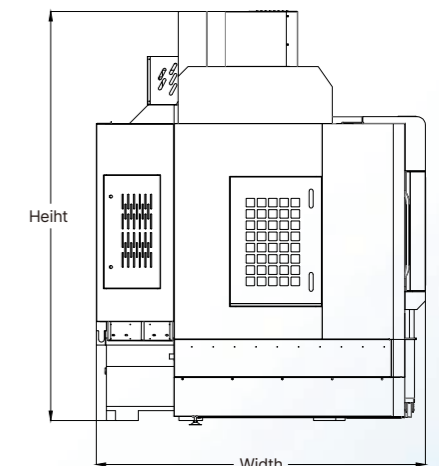
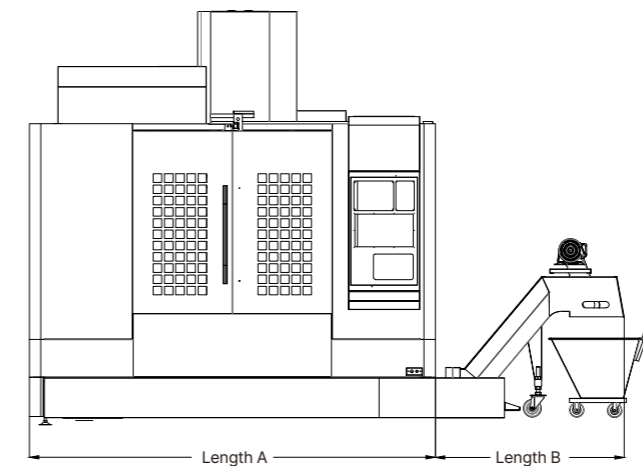
| XYZ Box-way | Units | G12 | VMC-1270 | VMC-1380 | VMC-1580 | VMC-1890 |
|---------------|-------|----------|----------|----------|----------|----------|
| Area of Table | mm | 1300×700 | 1360×700 | 1400×800 | 1700×800 | 2000×900 |
| X-Axis | mm | 1200 | 1200 | 1300 | 1500 | 1800 |
| Y-Axis | mm | 700 | 700 | 800 | 800 | 900 |
| Z-Axis | mm | 700 | 600 | 700 | 700 | 680 |

| XY Linear, Z Box-way | Units | VMC-L650 | VMC-L850 | VMC-L1060B | VMC-L1167 | G12-II | VMC-L1380 | VMC-L1580 | TZ-15-II | VMC-L1690 | VMC-L1890 | TZ-18-II | TZ-20-II | VMC-L2310 |
|----------------------|-------|----------|----------|------------|-----------|----------|-----------|-----------|----------|-----------|-----------|----------|----------|-----------|
| Area of Table | mm | 800×500 | 1000×500 | 1300×600 | 1200×600 | 1300×700 | 1400×800 | 1700×800 | 1700×810 | 1800×900 | 2000×900 | 2000×900 | 2200×900 | 2500×1000 |
| X-Axis | mm | 600 | 800 | 1000 | 1100 | 1200 | 1300 | 1500 | 1500 | 1600 | 1800 | 1800 | 2000 | 2300 |
| Y-Axis | mm | 500 | 500 | 600 | 600 | 700 | 800 | 800 | 800 | 900 | 900 | 900 | 900 | 1000 |
| Z-Axis | mm | 500 | 550 | 600 | 700 | 700 | 700 | 700 | 800 | 600 | 600 | 720 | 900 | 800 |

| XYZ Linear Way | Units | V6 | VMC-L855 | VMC-L866 | VMC-L1166 | V-1160 | TZ-12-III | G12-III | VMC-L1380A | TZ-15-III | VMC-L1580A | VMC-L1890A | TZ-20-III |
|----------------|-------|---------|----------|----------|-----------|----------|-----------|----------|------------|-----------|------------|------------|-----------|
| Area of Table | mm | 720×400 | 1000×500 | 1200×550 | 1200×550 | 1200×600 | 1360×710 | 1300×700 | 1400×800 | 1700×810 | 1700×800 | 2000×900 | 2200×900 |
| X-Axis | mm | 600 | 800 | 800 | 1100 | 1100 | 1200 | 1200 | 1300 | 1500 | 1500 | 1800 | 2000 |
| Y-Axis | mm | 420 | 500 | 600 | 600 | 600 | 650 | 700 | 800 | 800 | 800 | 900 | 900 |
| Z-Axis | mm | 450 | 550 | 600 | 600 | 600 | 700 | 700 | 700 | 800 | 700 | 800 | 900 |



Floor Plans VMC-Series



| XYZ BOX-WAY | VMC-650 | VMC-850B | VMC-1060B | VMC-1167 | G12 | VMC-1270 | VMC-1380 | VMC-1580 | VMC-1890 |
|-------------|---------|----------|-----------|----------|------|----------|----------|----------|----------|
| Length A | 2350 | 2480 | 3085 | 3085 | 3490 | 3630 | 3636 | 4203 | 4888 |
| Length B | 1240 | 1270 | 1364 | 1364 | 1491 | 1322 | 1322.77 | 1364 | 1042.77 |
| Width | 2250 | 2280 | 2430 | 2434 | 2940 | 3500 | 3613 | 3484 | 4355 |
| Height Min | 2420 | 2342 | 2860 | 2865 | 2663 | 2916 | 2916 | 2950 | 2733 |
| Height Max | 2720 | 2741 | 3100 | 3137 | 3187 | 3299 | 3300 | 3236 | 3800 |

| XY LINEAR, Z BOX-WAY | VMC-L650 | VMC-L850 | VMC-L1060B | VMC-L1167 | G12-II | VMC-L1380 | VMC-L1580 | VMC-L1690 | VMC-L1890 | TZ-20-II | VMC-L2310 |
|----------------------|----------|----------|------------|-----------|--------|-----------|-----------|-----------|-----------|----------|-----------|
| Length A | 2320 | 2380 | 3085 | 3085 | 3490 | 3636 | 4203 | 4581 | 4888 | 5435.48 | 5604 |
| Length B | 1200 | 1430 | 1364 | 1364 | 1491 | 1322.77 | 1364 | 1114 | 1042.77 | 952.99 | 903 |
| Width | 2250 | 2280 | 2430 | 2434 | 2940 | 3613 | 3484 | 3360 | 4355 | 3665 | 3812 |
| Height Min | 2560 | 2472 | 2860 | 2865 | 2663 | 2916 | 2950 | 3385 | 2733 | 3720.5 | 3240 |
| Height Max | 2840 | 2820 | 3100 | 3137 | 3187 | 3299 | 3236 | 3500 | 3545 | 4500 | 4500 |

| XYZ LINEAR WAY | V6 | VMC-L855 | VMC-L866 | VMC-L1166 | V-1160 | G12-III | VMC-L1380A | VMC-L1580A | VMC-L1890A | TZ-20-III |
|----------------|------|----------|----------|-----------|--------|---------|------------|------------|------------|-----------|
| Length A | 2100 | 2400 | 2500 | 3335 | 3330 | 3490 | 3636 | 4203 | 4888 | 5435.48 |
| Length B | 1236 | 1270 | 1367 | 1122.7 | 1120 | 1491 | 1322.77 | 1364 | 1042.77 | 952.99 |
| Width | 2265 | 2270 | 2300 | 2310 | 2300 | 2940 | 3613 | 3484 | 4355 | 3665 |
| Height Min | 2210 | 2342 | 2320 | 2650 | 2700 | 2663 | 2916 | 2830 | 2733 | 3720.5 |
| Height Max | 2750 | 2741 | 2821 | 3201 | 3200 | 3187 | 3299 | 3236 | 3545 | 4500 |

3 Axis Box Way

Technical Data

| Model | Unit | VMC-650 | VMC-850B | VMC-1050 | VMC-1060B | VMC-1167 |
|-----------------------------------|--------|---|------------------|------------------|------------------|------------------|
| Table | | | | | | |
| Area of Table | mm | 800×420 | 1050×500 | 1000×530 | 1300×600 | 1200×600 |
| Working Area | mm | 650×400 | 800×550 | 1000×500 | 1000×600 | 1100×600 |
| T-solt (number× size ×distance) | mm | 3×18×135 | 5 ×18×90 | 5 ×18×100 | 5 ×18×120 | 5 ×18×120 |
| Max. Load | kg | 600 | 600 | 600 | 800 | 800 |
| Travel | | | | | | |
| X/Y/Z-Axis Travel | mm | 650/400/480 | 800/500/550 | 1000/500/700 | 1000/600/600 | 1100/600/700 |
| Spindle Nose to Worktable Surface | mm | 80-560 | 105-655 | 110-810 | 180-780 | 110-810 |
| Spindle Nose to Column Slideway | mm | 480 | 550 | 560 | 600 | 654 |
| X/Y/Z-Guideway Type | | Box-way | Box-way | Box-way | Box-way | Box-way |
| Spindle | | | | | | |
| Taper | | BT-40 | BT-40 | BT-40 | BT-50 | BT-40 |
| Spindle rpm | rpm | 10000/12000 | 10000/12000 | 10000/12000 | 10000/12000 | 10000/12000 |
| Transmission Method | | | | | | |
| Spindle Motor-Fanuc | kw | 11/15 | 11/15 | 11/15 | 11/15 | 11/15 |
| Spindle Motor-Mitsubishi | kw | 11/15 | 11/15 | 11/15 | 11/15 | 11/15 |
| Spindle Motor-Siemens | kw | 9 | 9 | 9 | 9 | 9 |
| 3-Axis Motor | | | | | | |
| X/Y/Z-Axis Servo Motor-Fanuc | kw | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS |
| X/Y/Z-Axis Servo Motor-Mitsubishi | kw | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS |
| X/Y/Z-Axis Servo Motor-Siemens | kw | 3.55/3.55/3.55BS | 3.55/3.55/3.55BS | 3.55/3.55/3.55BS | 3.55/3.55/3.55BS | 3.55/3.55/3.55BS |
| 3-Axis Cutting Feed Rate | mm/min | 10000 | 10000 | 10000 | 6000 | 6000 |
| 3-Axis Rapid Moving | m/min | 14/14/14 | 14/14/14 | 14/14/14 | 14/14/14 | 16/14/16 |
| Others | | | | | | |
| Machine Net Weight | kg | 5200 | 5300 | 6500 | 7800 | 7800 |
| Control | | | | | | |
| VMC-Series Control | | Fanuc 0i-MF Plus, Mitsubishi M80, Siemens 828D, GSK, SYNTEC | | | | |

Standard

- Enclosed Guard (without roof)
- Tool Changer of 24 Tools
- Chain Type Chip Conveyor
- Chip Flushing System
- Low Energy Work Light LED
- 3-Color Warning Light
- Volumetric Type Automatic Lubricator
- Auto Power Off
- Rigid Tapping
- Air Conditioner
- Air Gun
- Coolant Gun
- Spindle Oil Cooler
- XYZ telescopic waycover
- Stainless steel plates for easier chip flushing
- Tool Box
- Leveling Screws & Blocks
- Operation Manual

3 Axis Box Way

Technical Data

| G12 | VMC-1270 | VMC-1380 | VMC-1580 | TZ-15 | VMC-1890 | VMC-2310 |
|---|------------------|------------------|------------------|------------------|-------------------|------------------|
| 1300×700 | 1360×700 | 1400×800 | 1700×800 | 1700×810 | 2000×900 | 2500×1000 |
| 1200×700 | 1200×700 | 1300×800 | 1500×800 | 1500×800 | 1800×900 | 2300×1000 |
| 5 ×18×120 | 5 ×18×152.5 | 5 ×18×152.5 | 5×22×135 | 5 ×18×147.5 | 5×22×165 | 5×22×160 |
| 1200 | 1000 | 1000 | 1500 | 1500 | 1600 | 3000 |
| 1200/700/700 | 1200/700/600 | 1300/800/700 | 1500/800/700 | 1500/800/800 | 1800/900/680(800) | 2300/1000/800 |
| 110~810 | 150-750 | 100-800 | 170-870 | 85-885 | 160-840(960) | 300-1100 |
| 750 | 785 | 850 | 810 | 865 | 950 | 1080 |
| Box-way | Box-way | Box-way | Box-way | Box-way | Box-way | Box-way |
| BT-40 / BT-50 | BT-50 | BT-50 | BT-50 | BT-50 | BT-50 | BT-50 |
| 10000/12000 | 8000/10000/12000 | 8000/10000/12000 | 8000/10000/12000 | 8000/10000/12000 | 8000/10000/12000 | 8000/10000/12000 |
| 11/15 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 18.5/22 | 18.5/22 |
| 11/15 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 18.5/22 | 18.5/22 |
| 12 | 12 | 12 | 12 | 12 | 15 | 15 |
| 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 4.5/4.5/4.5BS |
| 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS |
| 5.5/5.5/5.5BS | 5.5/5.5/5.5BS | 5.5/5.5/5.5BS | 5.5/5.5/5.5BS | 5.5/5.5/5.5BS | 5.5/5.5/5.5BS | 5.5/5.5/5.5BS |
| 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| 14/14/14 | 10/10/12 | 16/16/12 | 10/10/12 | 16/16/14 | 12/12/12 | 12/12/12 |
| 8700 | 9400 | 9300 | 12000 | 8800 | 13800 / 14300 | 17000 |
| Fanuc 0i-MF Plus, Mitsubishi M80, Siemens 828D, GSK, SYNTEC | | | | | | |

Options

- Tool Changer of 16/20/30/32 tools
- Spindle Upgrade to Direct Drive 10000/12000/15000rpm
- Spinde Upgrade Built-in 18000/24000 rpm
- Screw Type Chip Conveyor
- Tool measuring system
- Workpiece measuring system
- Linear Scale
- Coolant Through Spindle
- Air Through Spindle
- Oil Mist Collector
- Fully-closed Enclosure with roof
- Oil Skimmer

XY Linear Z Box-Way

Technical Data

| Model | Unit | VMC-L650 | VMC-L850 | VMC-L1060B | VMC-L1167 | G12-II |
|-----------------------------------|--------|---|------------------|------------------|---------------|----------------|
| Table | | | | | | |
| Area of Table | mm | 800×500 | 1000×500 | 1300×600 | 1200×600 | 1300×700 |
| Working Area | mm | 600×500 | 800×500 | 1000×600 | 1100×600 | 1200×700 |
| T-solt (number× size ×distance) | mm | 3×18×144 | 5×18×90 | 5×18×100 | 5×18×120 | 5×18×120 |
| Max. Load | kg | 500 | 600 | 800 | 800 | 1200 |
| Travel | | | | | | |
| X/Y/Z-Axis Travel | mm | 600/500/500 | 800/500/550 | 1000/600/600 | 1100/600/700 | 1200/700/700 |
| Spindle Nose to Worktable Surface | mm | 130-630 | 110-610 | 70-670 | 95-795 | 110-810 |
| Spindle Center to Column Slideway | mm | 560 | 560 | 655 | 654 | 750 |
| X-axis Guideway | mm | MSR35 roller | MSR35 roller | MSR45 roller | MSR45 roller | 2*45 mm roller |
| Y-axis Guideway | mm | MSR35 roller | MSR45 roller | MSR55 roller | MSR45 roller | 4*35 mm roller |
| Z-axis Guideway | mm | Box-way | Box-way | Box-way | Box-way | Box-way |
| Spindle | | | | | | |
| Taper | | BT-40 | BT-40 | BT-40 | BT-40 | BT-40 / BT-50 |
| Spindle rpm | rpm | 10000/12000 | 10000/12000 | 10000/12000 | 10000/12000 | 10000/12000 |
| Transmission Method | | | | | | |
| Spindle Motor-Fanuc | kw | 11/15 | 11/15 | 11/15 | 11/15 | 11/15 |
| Spindle Motor-Mitsubishi | kw | 11/15 | 11/15 | 11/15 | 11/15 | 11/15 |
| Spindle Motor-Siemens | kw | 9 | 9 | 9 | 9 | 9 |
| 3-Axis Motor | | | | | | |
| X/Y/Z-Axis Servo Motor-Fanuc | kw | 1.8/1.8/3.0BS | 1.8/1.8/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS |
| X/Y/Z-Axis Servo Motor-Mitsubishi | kw | 1.5/1.5/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS |
| X/Y/Z-Axis Servo Motor-Siemens | kw | 2.85/2.85/3.55BS | 2.85/2.85/3.55BS | 3.55/3.55/3.55BS | 5.5/5.5/5.5BS | 5.5/5.5/5.5BS |
| 3-Axis Cutting Feed Rate | mm/min | 6000 | 6000 | 6000 | 6000 | 6000 |
| 3-Axis Rapid Moving | m/min | 24/24/14 | 24/24/14 | 24/24/18 | 24/24/16 | 24/24/14 |
| Others | | | | | | |
| Machine Net Weight | kg | 6000 | 6000 | 8300 | 6200 | 8700 |
| Control | | | | | | |
| VMC-Series Control | | Fanuc Oi-MF Plus, Mitsubishi M80, Siemens 828D, GSK, SYNTEC | | | | |

Standard

- Enclosed Guard (without roof)
- Tool Changer of 24 Tools
- Chain Type Chip Conveyor
- Chip Flushing System
- Low Energy Work Light LED
- 3-Color Warning Light
- Volumetric Type Automatic Lubricator
- Auto Power Off
- Rigid Tapping
- Air Conditioner
- Air Gun
- Coolant Gun
- Spindle Oil Cooler
- XYZ telescopic waycover
- Stainless steel plates for easier chip flushing
- Tool Box
- Leveling Screws & Blocks
- Operation Manual

XY Linear Z Box-Way

Technical Data

| VMC- L1380 | VMC- L1580 | TZ-15-II | VMC- L1690 | VMC- L1890 | TZ-18-II | TZ-20-II | VMC-L2310 |
|---|-------------------|---------------|------------------|---------------|---------------|---------------|---------------|
| 1400×800 | 1700×800 | 1700×810 | 1800×900 | 2000×900 | 2000×900 | 2200×900 | 2500×1000 |
| 1300×800 | 1500×800 | 1500×800 | 1600×900 | 1800×900 | 1800×900 | 2000×900 | 2300×1000 |
| 5×18×135 | 5×22×135 | 5×18×147.5 | 5×22×165 | 5×22×165 | 5×18×147.5 | 5×18×147.5 | 5×22×160 |
| 1000 | 1500 | 1500 | 1600 | 1600 | 2000 | 2000 | 3000 |
| 1300/800/700 | 1500/800/700 | 1500/800/800 | 1600/900/600 | 1800/900/600 | 1800/900/1000 | 2000/900/1000 | 2300/1000/800 |
| 100-800 | 130-830 | 85-885 | 160-760 | 160-760 | 200-1200 | 200-1200 | 180-980 |
| 850 | 855 | 865 | 950 | 950 | 950 | 950 | 1080 |
| MSR45 roller(6 slides) | MSR55LS | MSR45 roller | MSA55LS | MSA55LS | MSA45LS | MSR45 roller | 55 roller |
| MSR45 roller(4 rails) | MSR45LS (4 rails) | MSR45 roller | MSA45LS | MSA45LS | MSA45LS | MSR45 roller | 45 roller |
| Box-way | Box-way | Box-way | Box-way | Box-way | Box-way | Box-way | Box-way |
| BT-50 | BT-50 | BT-50 | BT-50 | BT-50 | BT-50 | BT-50 | BT-50 |
| | | | 8000/10000/12000 | | | | |
| 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 |
| 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 |
| 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS |
| | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS |
| 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS |
| 5.5/5.5/5.5BS | 5.5/5.5/5.5BS | 5.5/5.5/5.5BS | 5.5/5.5/5.5BS | 5.5/5.5/5.5BS | 5.5/5.5/5.5BS | 5.5/5.5/5.5BS | 5.5/5.5/5.5BS |
| 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| 16/16/12 | 12/12/12 | 24/24/14 | 12/12/12 | 12/12/12 | 20/20/14 | 20/20/14 | 12/12/12 |
| 9800 | 12500 | 8800 | 12800 | 13800 / 14300 | 13800 / 14300 | 10800 | 16000 |
| Fanuc Oi-MF Plus, Mitsubishi M80, Siemens 828D, GSK, SYNTEC | | | | | | | |

Options

- Tool Changer of 16/20/30/32 tools
- Spindle Upgrade to Direct Drive 10000/12000/15000rpm
- Spindle Upgrade Built-in 18000/24000 rpm
- Screw Type Chip Conveyor
- Tool measuring system
- Workpiece measuring system
- Linear Scale
- Coolant Through Spindle
- Air Through Spindle
- Oil Mist Collector
- Fully-closed Enclosure with roof
- Oil Skimmer

3 Axis Linear Way

Technical Data

| Model | Unit | V6 | VMC-L855 | VMC-L866 | VMC-L1166 | V-1160 |
|-----------------------------------|--------|---|------------------|------------------------|------------------------|------------------|
| Table | | | | | | |
| Area of Table | mm | 720×400 | 1000×500 | 1000×550 | 1200×550 | 1200×600 |
| Working Area | mm | 600×420 | 800×500 | 850×600 | 1100×600 | 1100×600 |
| T-solt (number× size ×distance) | mm | 4 ×14×80 | 4 ×18×105 | 5 ×18×100 | 5 ×18×100 | 5 ×18×100 |
| Max. Load | kg | 350 | 800 | 800 | 1000 | 800 |
| Travel | | | | | | |
| X/Y/Z-Axis Travel | mm | 600/420/450 | 800/500/550 | 850/600/600 | 1100/600/600 | 1100/600/600 |
| Spindle Nose to Worktable Surface | mm | 100-550 | 100-650 | 100-700 | 100-700 | 120-720 |
| Spindle Nose to Column Slideway | mm | 456 | 500 | 550 | 680 | 650 |
| X-axis Guideway | mm | MSA30LA | 35 mm roller | 45 mm roller(6 slides) | 45 mm roller(6 slides) | 45 mm roller |
| Y-axis Guideway | mm | MSA30LA | 35 mm roller | 45 mm roller | 45 mm roller | 45 mm roller |
| Z-axis Guideway | mm | MSA35LS | 35 mm roller | 45 mm roller(6 slides) | 45 mm roller(6 slides) | 45 mm roller |
| Spindle | | | | | | |
| Taper | | BT-40 | BT-40 | BT-40 | BT-40 | BT-40 |
| Spindle rpm | rpm | 12000 | 10000/12000 | 12000 | 12000 | 10000/12000 |
| Transmission Method | | | | | | |
| Spindle Motor-Fanuc | kw | 7.5/11 | 11/15 | 11/15 | 11/15 | 11/15 |
| Spindle Motor-Mitsubishi | kw | 5.5/7.5 | 7.5/11 | 11/15 | 11/15 | 11/15 |
| Spindle Motor-Siemens | kw | 7 | 9 | 9 | 9 | 9 |
| 3-Axis Motor | | | | | | |
| X/Y/Z-Axis Servo Motor-Fanuc | kw | 1.8/1.8/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS |
| X/Y/Z-Axis Servo Motor-Mitsubishi | kw | 1.5/1.5/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS |
| X/Y/Z-Axis Servo Motor-Siemens | kw | 2.85/2.85/3.55BS | 3.55/3.55/3.55BS | 3.55/3.55/3.55BS | 3.55/3.55/3.55BS | 3.55/3.55/3.55BS |
| 3-Axis Cutting Feed Rate | mm/min | 10000 | 10000 | 10000 | 10000 | 10000 |
| 3-Axis Rapid Moving | m/min | 48/48/48 | 48/48/36 | 36/36/36 | 36/36/36 | 36/36/24 |
| Others | | | | | | |
| Machine Net Weight | kg | 4200 | 5800 | 7000 | 7200 | 6000 |
| Control | | | | | | |
| VMC-Series Control | | Fanuc Oi-MF Plus, Mitsubishi M80, Siemens 828D, GSK, SYNTEC | | | | |

Standard

- Enclosed Guard (without roof)
- Tool Changer of 24 Tools
- Chain Type Chip Conveyor
- Chip Flushing System
- Low Energy Work Light LED
- 3-Color Warning Light
- Volumetric Type Automatic Lubricator
- Auto Power Off
- Rigid Tapping
- Air Conditioner
- Air Gun
- Coolant Gun
- Spindle Oil Cooler
- XYZ telescopic waycover
- Stainless steel plates for easier chip flushing
- Tool Box
- Leveling Screws & Blocks
- Operation Manual

3 Axis Linear Way

Technical Data

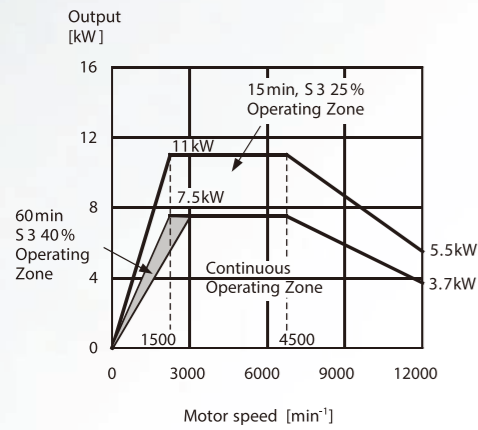
| TZ-12-III | G12-III | VMC-L1380A | TZ-15-III | VMC-L1580A | VMC-L1890A | TZ-20-III |
|---|---------------|------------------|------------------|-------------------|------------------|------------------|
| 1360×710 | 1300×700 | 1400×800 | 1700×810 | 1700×800 | 2000×900 | 2200×900 |
| 1200×650 | 1200×700 | 1300×800 | 1500×800 | 1500×800 | 1800×900 | 2000×900 |
| 5 ×18×152.5 | 5 ×18×120 | 5 ×18×135 | 5 ×18×147.5 | 5 ×22×135 | 5 ×22×165 | 5 ×18×147.5 |
| 1000 | 1200 | 1000 | 1500 | 1500 | 1600 | 2000 |
| 1200/650/700 | 1200/700/700 | 1300/800/700 | 1500/800/800 | 1500/800/700 | 1800/900/800 | 2000/900/900 |
| 75-775 | 110-810 | 100-800 | 85-885 | 160-960 | 160-960 | 200-1200 |
| 785 | 750 | 850 | 865 | 950 | 950 | 950 |
| 45 mm roller | 45 mm roller | MSR45 (6 slides) | MSR45 roller | MSA55LS | MSA55LS | MSR45 roller |
| 45 mm roller | 35 mm roller | MSR45 (4 rails) | MSR45 roller | MSA45LS (4 rails) | MSA45LS | MSR45 roller |
| 45 mm roller | 45 mm roller | MSR55 (6 slides) | MSR45 roller | MSA55LS2 | MSA55LS | MSR45 roller |
| BT-40 | BT-40 / BT-50 | BT-50 | BT-50 | BT-50 | BT-50 | BT-50 |
| 10000/12000 | 10000/12000 | 8000/10000/12000 | 8000/10000/12000 | 8000/10000/12000 | 8000/10000/12000 | 8000/10000/12000 |
| 11/15 | 11/15 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 |
| 11/15 | 11/15 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 | 15/18.5 |
| 9 | 9 | 15 | 15 | 15 | 15 | 15 |
| 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 3.0/3.0/3.0BS |
| | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS |
| 3.0/3.0/3.0BS | 3.0/3.0/3.0BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS | 4.5/4.5/4.5BS |
| 3.3/3.3/5.5BS | 3.3/3.3/5.5BS | 5.5/5.5/5.5BS | 5.5/5.5/5.5BS | 5.5/5.5/5.5BS | 5.5/5.5/5.5BS | 5.5/5.5/5.5BS |
| 10000 | 10000 | 10000 | 10000 | 6000 | 6000 | 6000 |
| 24/24/16 | 24/24/16 | 24/24/20 | 24/24/16 | 20/20/16 | 12/12/12 | 20/20/16 |
| 7300 | 8700 | 9800 | 8800 | 12500 | 13800 | 10800 |
| Fanuc Oi-MF Plus, Mitsubishi M80, Siemens 828D, GSK, SYNTEC | | | | | | |

Options

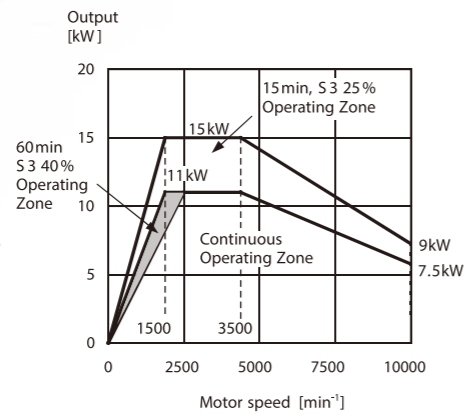
- Tool Changer of 16/20/30/32 tools
- Spindle Upgrade to Direct Drive 10000/12000/15000rpm
- Spindle Upgrade Built-in 18000/24000 rpm
- Screw Type Chip Conveyor
- Tool measuring system
- Workpiece measuring system
- Linear Scale
- Coolant Through Spindle
- Air Through Spindle
- Oil Mist Collector
- Fully-closed Enclosure with roof
- Oil Skimmer

Torque-Power Diagrams-Fanuc

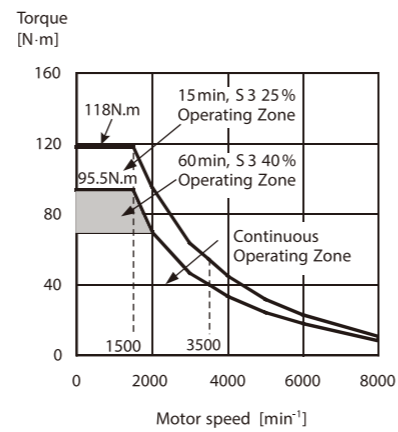
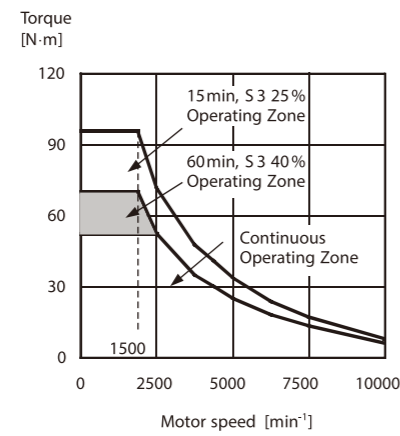
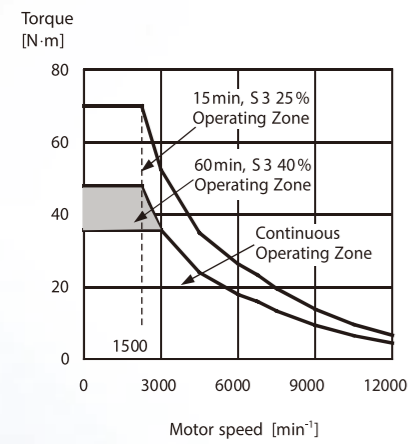
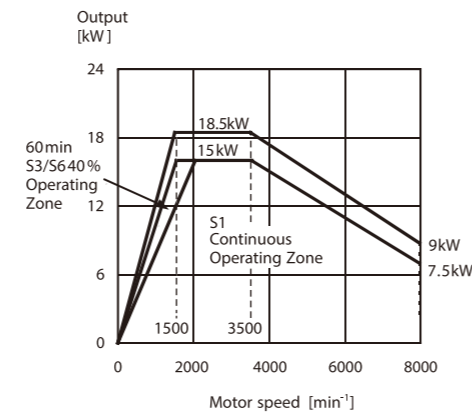
VMC-V6/855
Fanuc-Drive



VMC-855/1060/1166/G12/1270
Fanuc-Drive

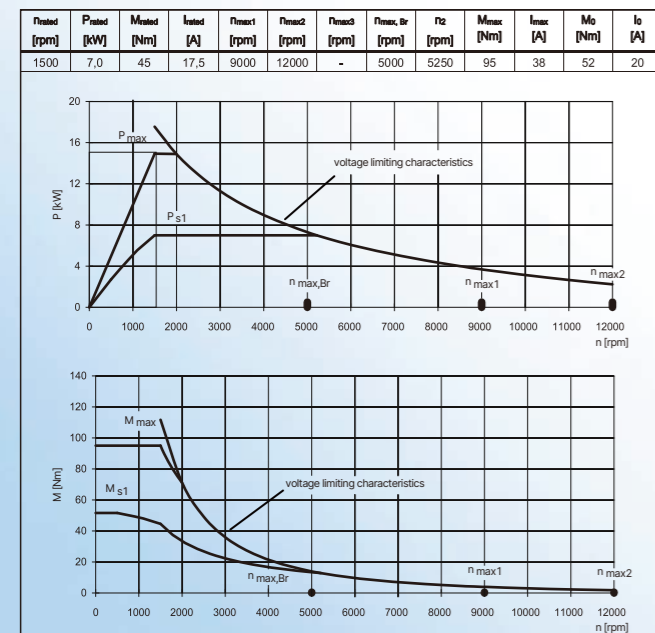


VMC-G12/1270/1370/1570/1690/1890
Fanuc-Drive

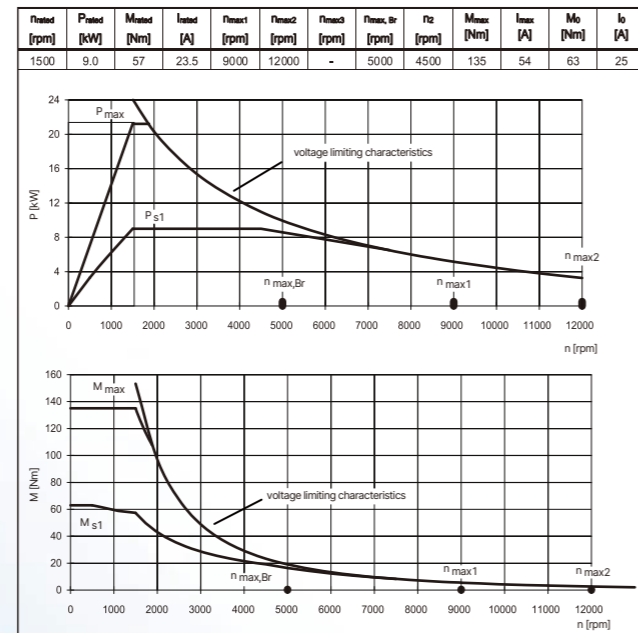


Torque-Power Diagrams-Siemens

VMC-V6/855 Siemens-Drive



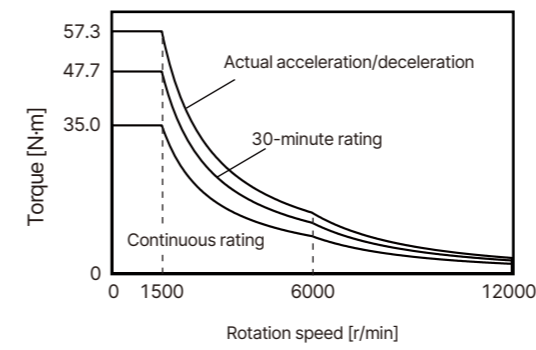
VMC-1060/1166 Siemens-Drive



Torque-Power Diagrams-Mitsubishi

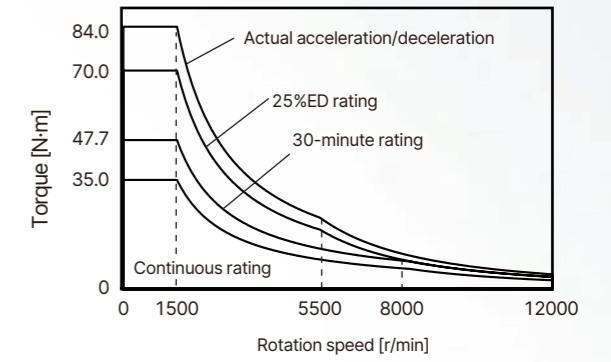
VMC-V6 Mitsubishi-Drive

[Motor with fan series SJ-D7.5/120-01]



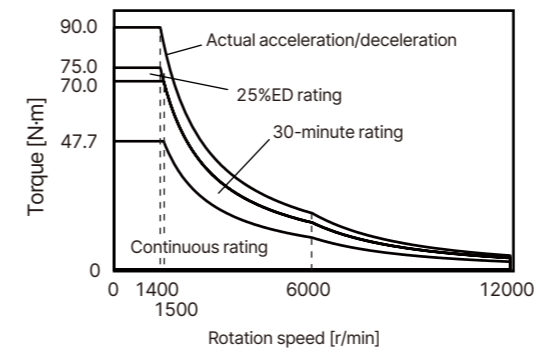
VMC-855 Mitsubishi-Drive

[Motor with fan series SJ-DG7.5/120-05T]



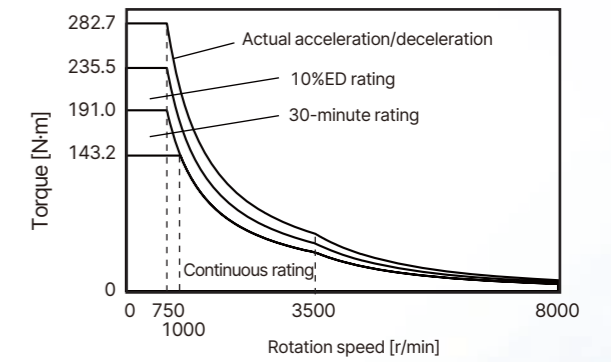
VMC-855/866/1166 Mitsubishi-Drive

[Motor with fan series SJ-DG11/120-03T]



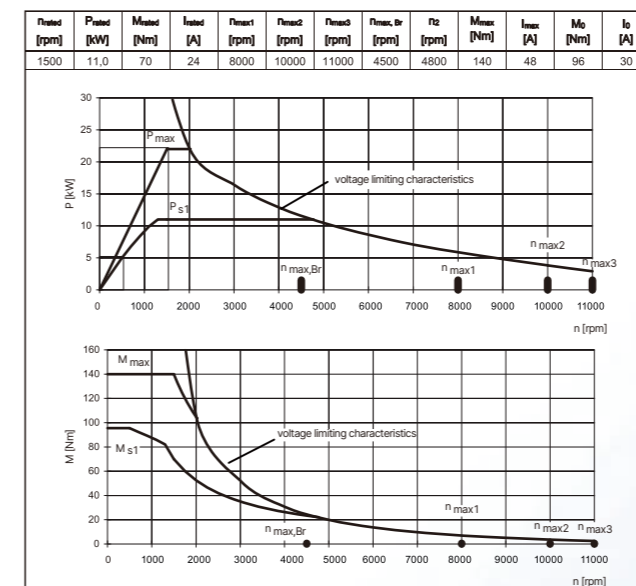
VMC-1270/1370/1570/1690/1890 Mitsubishi-Drive

[Motor with fan series SJ-DN18.5/80-01]

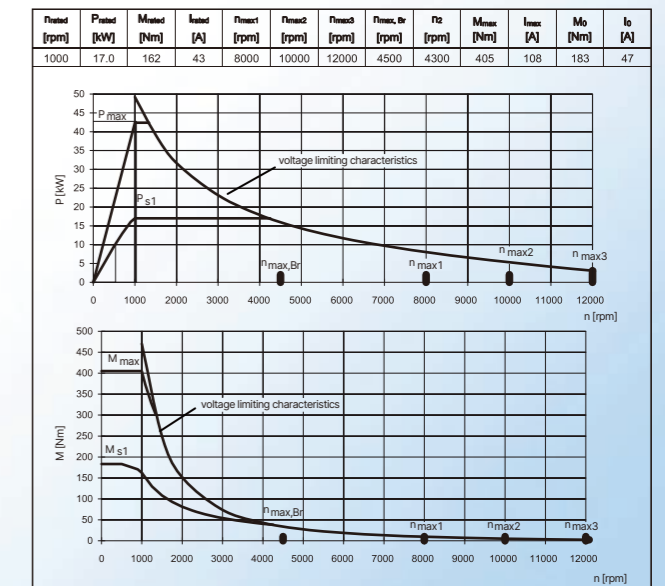


Torque-Power Diagrams-Siemens

VMC-1060/1166/G12/1270 Siemens-Drive



VMC-1370/1570/1690/1890 Siemens-Drive



HMU-series (tilting axis on Y axis)



| Model | Unit | HMU-400 | HMU-650 |
|-------------------|-------|---------------------|-------------------|
| X travel | mm | 820 | 900 |
| Y travel | mm | 520 | 620 |
| Z travel | mm | 500 | 550 |
| 4th axis | ° | C: N*360° | C: 360° |
| 5th axis | ° | B: -110°~+110° | B: -120°~+120° |
| Table Size | mm | Φ400 | Φ650 |
| Table load | kg | 120/220 (Ver/ Hor.) | 300 |
| Spindle Taper | | BBT40/ HSK-A63 | BBT40/ HSK-A63 |
| Spindle Speed | rpm | 12000/15000/18000 | 12000/15000/18000 |
| Spindle Power | kw | 7.5/ 11/ 15/ 18 | 7.5/ 11/ 15/ 18 |
| X/Y/Z Rapid speed | m/min | 24/30/30 | 24/24/24 |
| Feed Rate | m/min | 20/20/20 | 20/20/20 |
| Machine weight | Ton | 7.8 | 9.6 |

Optional ATC (24T, 32T and 60T) meet different machining application

The high rigidity of triangular ram improves the stiffness of Z.

Three carriages along one guide of Y guarantees the accuracy over the whole travel

Optimized housing offer the robust supporting for spindle.

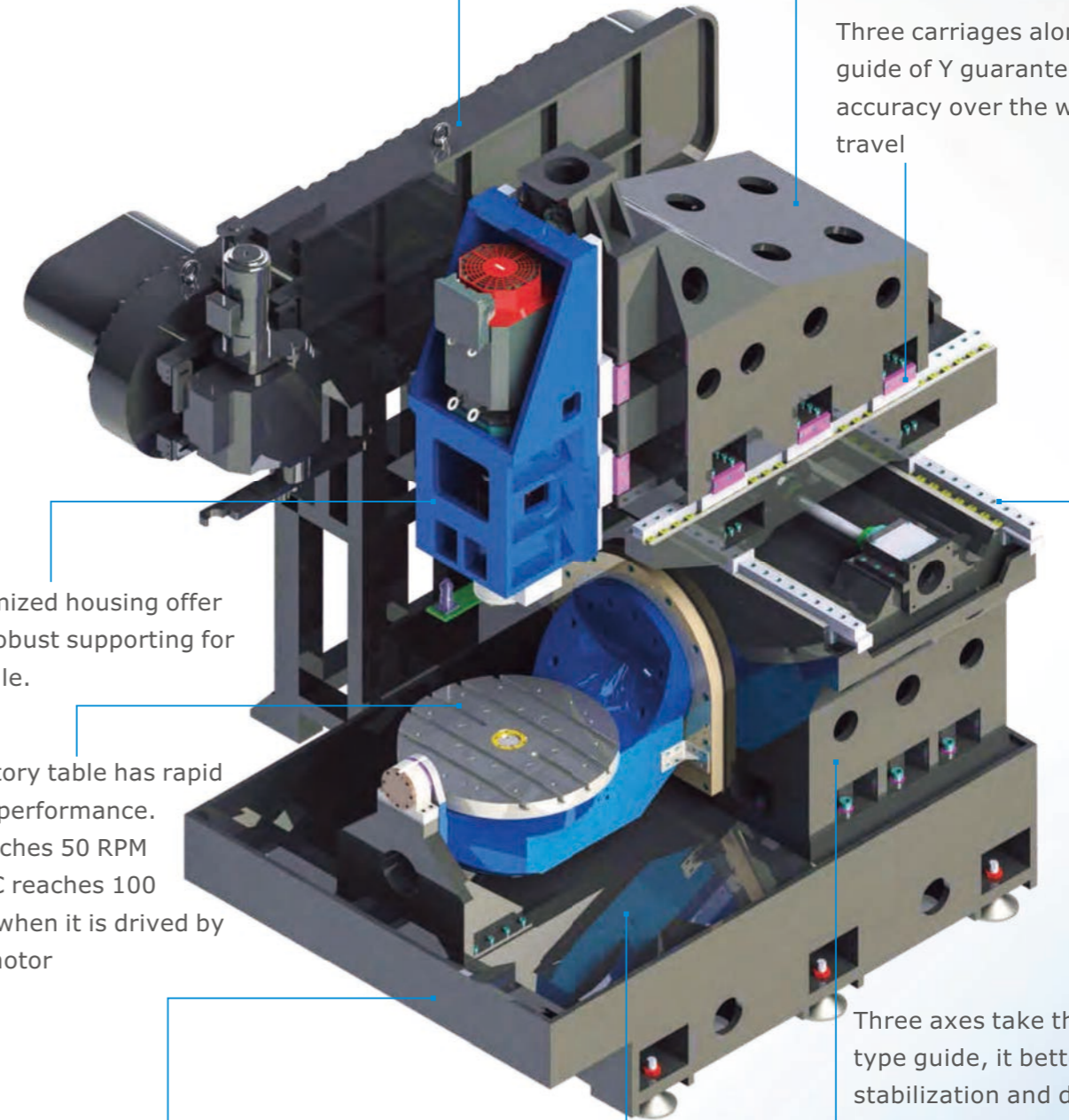
Rotatory table has rapid feed performance. B reaches 50 RPM and C reaches 100 RPM when it is driven by DD motor

Bigger room under the chip removal makes the design of chip conveyor easier

The big slopes on the base gives the perfect chip cleaning

Three axes take the roller type guide, it bettes the stabilization and duration of machine.

The firm base together with column of bridge type makes the machine steady during the machining.



C-series (tilting axis on X axis)



| Model | Unit | C-260 | C-400 | C-630 | C-800 |
|-------------------|-------|--------------------|-------------------|-------------------|-------------------|
| X travel | mm | 400 | 500 | 650 | 800 |
| Y travel | mm | 500 | 500 | 750 | 950 |
| Z travel | mm | 350 | 450 | 500 | 600 |
| 4th axis | ° | C: N*360° | C: N*360° | C: N*360° | C: N*360° |
| 5th axis | ° | A: -120°~+120° | A: -120°~+120° | A: -120°~+120° | A: -120°~+120° |
| Table Size | mm | Φ 260 | Φ 475 | Φ 630 | Φ800 |
| Table load | kg | 60/ 50 (Ver/ Hor.) | 500 | 600 | 1200 |
| Spindle Taper | | BT 30 / BBT 30 | BBT40/ HSK-A63 | BBT40/ HSK-A63 | BBT40/ HSK-A63 |
| Spindle Speed | rpm | 15000/20000 | 12000/15000/18000 | 12000/15000/18000 | 12000/15000/18000 |
| Spindle Power | kw | 5.5/7.5 | 7.5/ 11/ 15/ 18 | 7.5/ 11/ 15/ 18 | 7.5/ 11/ 15/ 18 |
| X/Y/Z Rapid speed | m/min | 36/36/36 | 32/32/32 | 30/24/30 | 30/18/30 |
| Feed Rate | m/min | 20/20/20 | 20/20/20 | 20/20/20 | 20/15/20 |
| Machine weight | Ton | 4.5 | 8 | 9 | 11 |

The feed rated and rapid movement of axial is dramatically increased, improves the dynamic response of components and boosts processing efficiency.

The beam and saddle are driven in the center of mass for smoother moving.

Dual motor driving on Y axis, double power for efficient cutting.

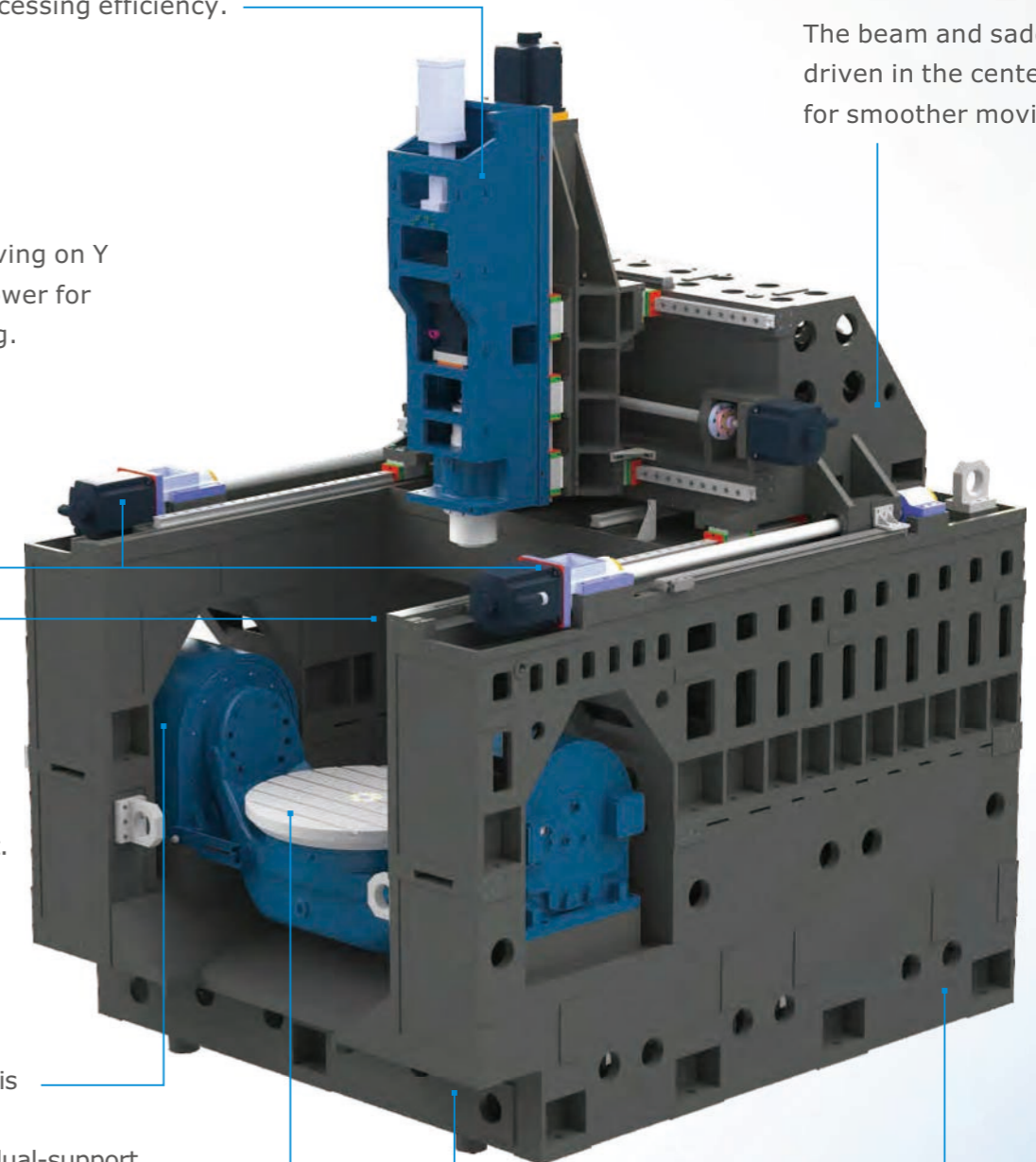
Built-in tool magazine to reduce footprint.

A-axis of C-800 is designed with dual-drive and dual-support, enjoys better rigidity and dynamic response.

C-axis can be equipped with optional high-speed torque motor, to realize turning function.

Front chip removal design facilitates chip removal and maintenance.

Compact design, smaller footprint with the same travel.



Double Column Machining Center



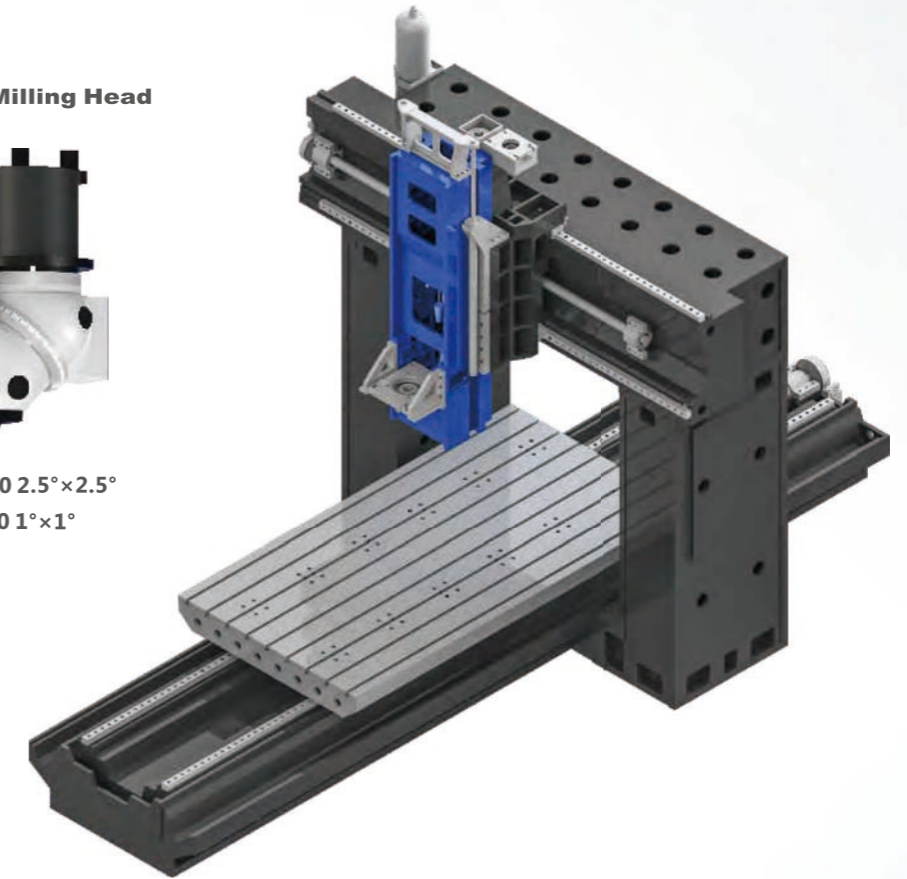
Optional:
Universal Auto-indexing Milling Head



CVOI-1000 2.5°x2.5°
CVOI-6000 1°x1°



VGCI-1000 2.5°x2.5°
VGCI-6000 1°x1°



| Model | Unit | SP-1000B/C | SP-1200B/C | SP-1500B/C | SP-1800B/C | SP-2000B | SP-2200B/C | SP-2500B/C | SP-2900B/C | SP-3200B/C | SP-3800B/C | SP-4200B/C |
|--------------------------|--------|---------------|---------------|-----------------|-----------------|----------------|----------------|-------------|-------------|-------------|--------------|------------------------|
| X travel | m | 1.2/1.6/2.0 | 1.6/2.1 | 1.6/2.2/2.7/3.2 | 2.2/2.7/3.2/4.2 | 2/2.5/3/3.5/4 | 2.2/3//4/5/6 | 3/4/5/6 | 3/4/5/6 | 4/5/6/8 | 4/5/6/8 | 4/5/6/8 |
| Y travel | mm | 1100 | 1200 | 1500 | 2100 | 2000 | 2200 | 2700 | 2900 | 3200 | 3800 | 4200 |
| Z travel | mm | 800 | 800 | 800 | 1000 | 1000 | 1000/1250 | 1000/1250 | 1000/1250 | 1250 | 1250 | 1500 |
| Table length | mm | 1.4/1.8/2.2 | 1.6/2.1 | 1.6/2.0/2.5/3.0 | 2/2.5/3/4 | 2/2.5/3/3.5/4 | 2.2/3/4/5/6 | 3/4/5/6.2 | 3/4/5/6 | 4/5/6/8 | 4/5/6/8 | 4.2/5.2/6.2/8.2 |
| Table width | mm | 900 | 1000 | 1200 | 1500 | 1600 | 1800 | 2300 | 2500 | 2700 | 3200 | 3200 |
| Distance between columns | mm | 1100 | 1200 | 1550 | 1800 | 2000 | 2200 | 2700 | 2900 | 3200 | 3700 | 4200 |
| Spindle Speed (B) | rpm | 8000 | 8000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| Spindle Speed (C) | rpm | 12000 | 12000 | 12000 | 12000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| Spindle Power | KW | 15-18.5 | 15-18.5 | 18.5-22 | 18.5-22 | 22 | 22 | 30 | 30 | 30 | 30-37 | 37-50 |
| Spindle Taper | ISO/BT | BT-50 / BT-40 | BT-40 / BT-50 | BT-50 / BT-40 | BT-40 / BT-50 | BT-50 | BT-50 | BT-50 | BT-50 | BT-50 | BT-50 | BT-50 |
| XY linear (B) | m/min | 20 / 20 / 12 | 14/14/10 | 18 / 18 / 12 | 14/14/10 | 16 / 16 / 12 | 16 / 16 / 12 | 12 / 12 / 8 | 12 / 12 / 8 | 8 / 8 / 8 | 8 / 8 / 8 | 8 / 8 / 8 |
| XYZ linear (C) | m/min | 20 / 20 / 20 | 14/14/14 | 18 / 18 / 18 | 14/14/14 | | | | | | | |
| Table Load | Ton | 1.6/2/2.4 | 3/4 | 3/4/5/6 | 4/5/6/8 | 4/5/6/7/8 | 4/6/10/12/15 | 15/18/20/25 | 15/18/20/25 | 18/20/25/30 | 18/20/25/30 | 30/35/40/42/45/50 |
| Machine Weight | Ton | 12/13/14 | 12.5/13.5 | 16/17/18/19 | 17/18/19.5/22 | 28/33/38/43/48 | 30/36/40/46/53 | 47/51/57/68 | 52/56/62/72 | 66/74/82/98 | 68/76/84/100 | 98/103/108/118/133/158 |

Horizontal Machining Center



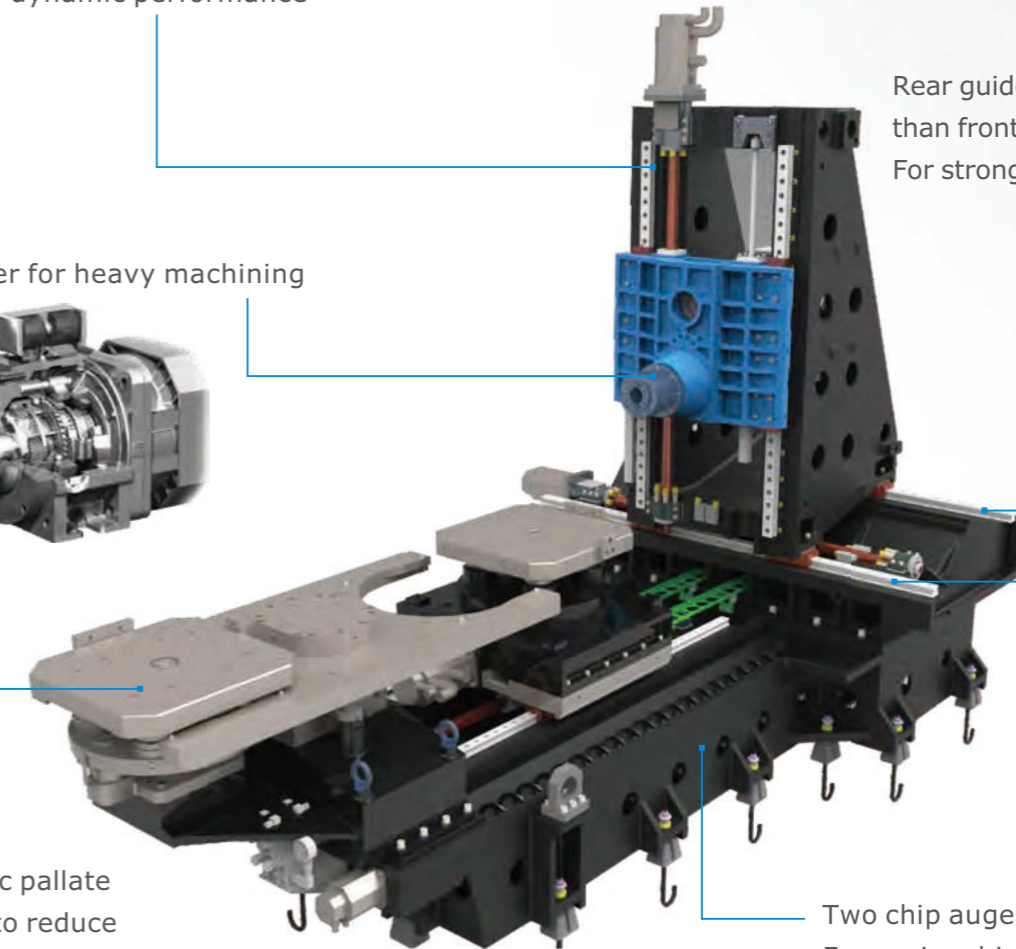
Double ball screws on Y axis
for better dynamic performance

Rear guideway higher
than front one on X axis
For stronger cutting recoil

ZF reducer for heavy machining



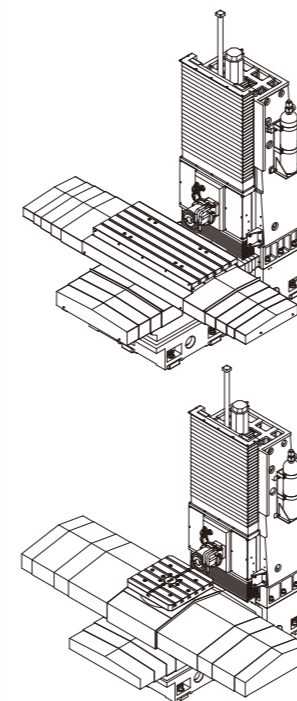
Automatic pallet
changer to reduce
production time



Two chip augers on Z axis
For easier chips removal

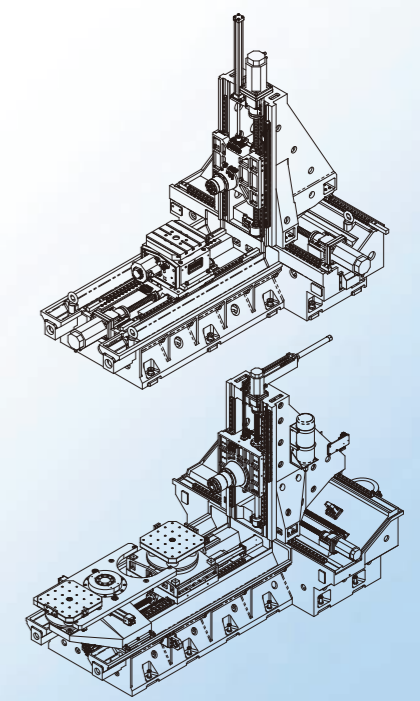
Column-fixed Style

| Model | Unit | GW-9 | LW1075 | LW1290 | LW1814 |
|-----------------|--------|-------------------|--------------|--------------|--------------|
| X travel | mm | 900 | 1000 | 1200 | 1800 |
| Y travel | mm | 750 | 750 | 900 | 1400 |
| Z travel | mm | 600 | 600/900 | 700 | 900 |
| Fixed table | mm | 600*1050 | 600*1300 | 700*1360 | 900*2000 |
| Rotary table | mm | 400*400 / 500*500 | 630*630 | 630*630 | 800*800 |
| Number of table | mm | 1/2 | 1 | 1 | |
| Indexing Unit | ° | 1 / 0.001 | 1 / 0.001 | 1 / 0.001 | 1 / 0.001 |
| Spindle Speed | rpm | 8000 | 6000 | 6000 | 6000 |
| Spindle Power | KW | 7.5-11 | 11-15 | 11-15 | 15-18 |
| Spindle Taper | ISO/BT | BT-40 | BT-50 | BT-50 | BT-50 |
| XYZ linear | m/min | 30 / 30 / 30 | 24 / 24 / 24 | 24 / 24 / 24 | 24 / 24 / 24 |
| XZ linear | m/min | 30 / 14 / 30 | 24 / 14 / 24 | 24 / 14 / 24 | 24 / 14 / 24 |
| Table Load | Kg | 600 | 800 | 1600 | 1800 |
| Machine Weight | Ton | 6 | 7 | 9.8 | 14 |



Column-moving Style

| | TH40 | TH50 | TH63 |
|----------------|--------------|--------------|--------------|
| X travel | 600 | 800 | 1100 |
| Y travel | 600 | 800 | 800 |
| Z travel | 600 | 800 | 1100 |
| Fixed table | 400*400 | 500*500 | 630*630 |
| Rotary table | 1 | 1/2 | 1/2 |
| Indexing Unit | 1 / 0.001 | 1 / 0.001 | 1/0.001 |
| Spindle Speed | 8000 | 6000 | 6000 |
| Spindle Power | 7.5-11 | 11-15 | 11-15 |
| Spindle Taper | BT-50 | BT-50 | BT-50 |
| XYZ linear | 36 / 36 / 36 | 24 / 24 / 24 | 24 / 24 / 24 |
| Table Load | 400 | 500 | 800 |
| Machine Weight | 6 | 10.5 | 14 |





After development of 25 years, we have become a union with 7 production bases and 18 branches, with its headquarters located at 'spring city' Kunming.

Our union is specialized in the research and development of various types of CNC machine tools, closely focusing on market demand and customer satisfaction. Through continuous learning, absorption and independent innovation of advanced concepts on machine tool design and production, and continuous introduction of advanced machine tool manufacturing process and technical equipment home and abroad, we have formed a complete and scientific production process, quality assurance system, as well as the ability to develop dozens of series and hundreds of models, with production capacity of about 8000 sets of structures per year.

Main products: vertical machining centers, double-column milling machines, gantry-moving machining center, beam-moving machining centers, CNC boring and milling machines, horizontal machining centers, horizontal turning centers, vertical turning centers.

Advantages: We have a highly efficient team of over 400 craftsmen with more than 20 years of experience in processing, scraping, assembling and testing, and we strive for perfection in every component and every production process. We also have advanced and high-precision testing equipment such as Three-Coordinate Measuring Machines, Straightness Measuring Instrument, Laser Interferometer, Ballbars, etc., which strictly test and control the quality of the manufacturing process, thereby ensuring stable and reliable quality of products and the improvement of production efficiency.

Corporate strategy

Become an one-stop solution supplier of metal processing equipments

Product positioning

Replace imports of second-level manufacturers from USA, Taiwan and South Korea

Development direction

Devison and specialization of each step, developping a scientific production process

Corporate mission

Creat success for every client who trusts us



Kunming factory



Yuxi 1st factory

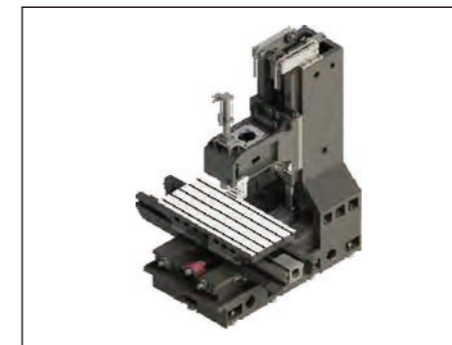


Chongqing factory

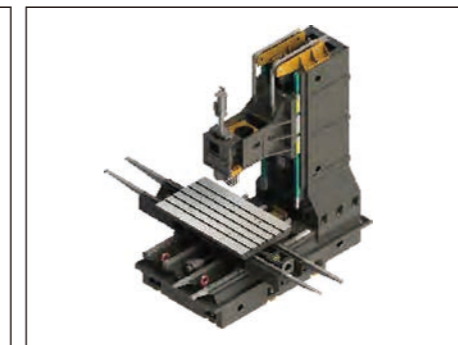


Yuxi 2nd factory

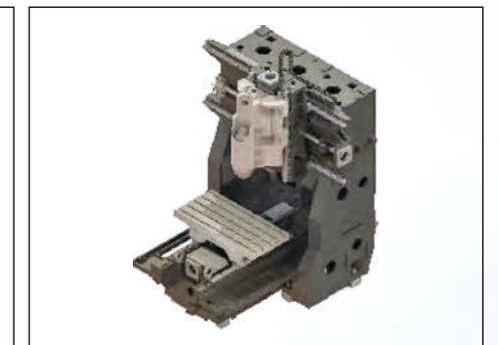
Typical products:



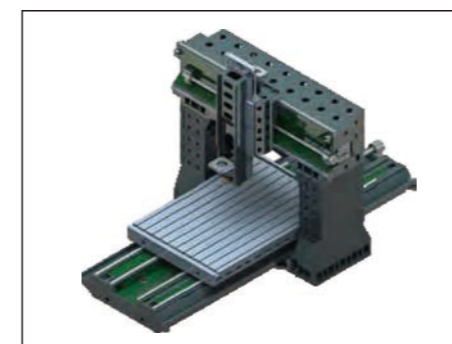
Box-Way VMC



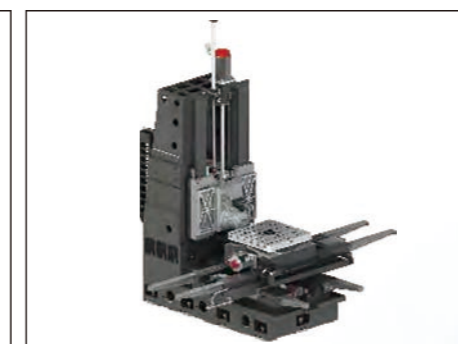
Linear Way VMC



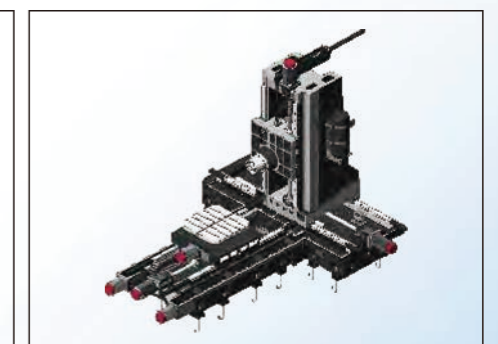
Gantry-type Machining Center



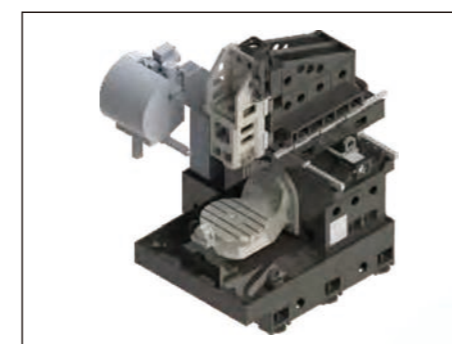
Double-Column Machining Center



Horizontal Machining Center



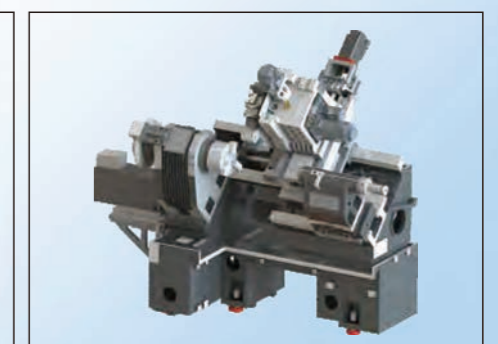
Horizontal Machining Center



5-axis Machining Center



Vertical Turning Center



Horizontal Turning Center

Good machines are made of good components

Our good supply chain contributes to our continued reputation for high quality.

We enjoys good relationships with most of the top-level component suppliers around the world, for each kind of component, we have several suppliers to compete with each other, to help make sure the supply of key components to be efficient and stable, our suppliers include :

1. Germany Rexroth, R+W, INA, FAG, ZF,
2. Spanish Korta, Ipiranga, MILKO (EMENA),
3. Japan NSK, THK, Sino-Japanese Nika Yoki (Herg)
4. Taiwan Hiwin, PMI, Royal, Posa, Spinture, Spinder, Detron, Parkson, GSA plus, Deta, Poju (S&Y), Chen Sound, Keyarrow,
5. American Pioneer, Timken, Sino-American Byjur (JV), etc.

All the suppliers has their agents / representatives and stocks in our union, which makes the delivery time of popular models of frames within one week. popular models of complete machine within 40 days.



Good machines are made of high-quality castings

Our maintaining of high quality level owe to our partners of foundries.

Our high class GG25-GG35 casting products are low sulfur and low carbon. Casting parts were once subject to Metallurgic Analysis according to European Laboratory. The results show that a material hardness of above 200 HBW Brinell and a homogeneous distribution of the graphite structure can be guaranteed. Right now we not only meet the demand of famous Chinese machine tool OEMS but also serve for the clients from Spain, Germany, Italy, Japanese and Czech, etc.

Casting capabilities:

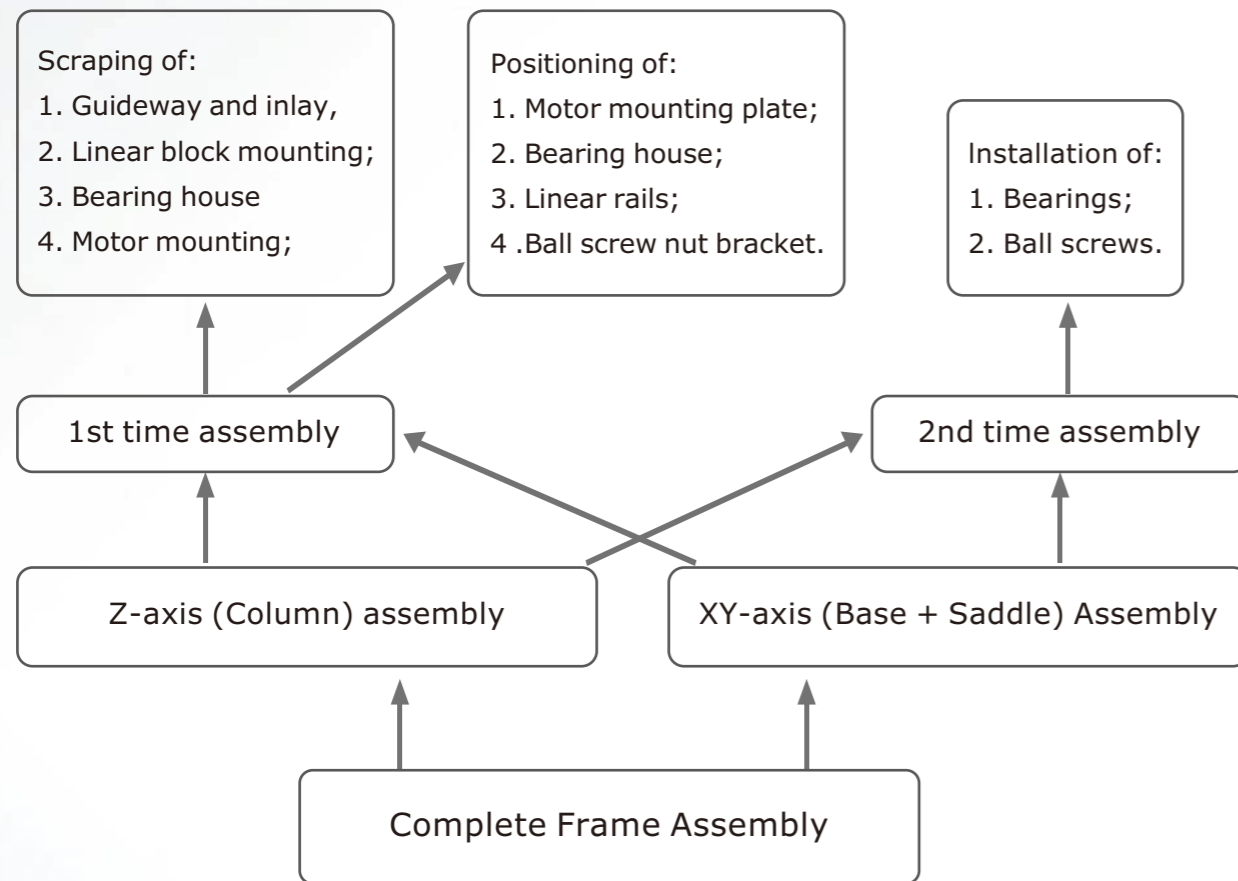
- Maximum unit weight of casting: 50 tons
- Yearly producing capability: 80,000 tons
- 4 sets of 40t/h resin bonded sand treatment systems with hydraulic up/down mechanism, six mixing mills
- 2 sets of 15t/h automatic cupolas
- 2 sets of 3m x 12m sand shot-blasting rooms
- 2 sets of 3m x 12m automatically electrical furnace for heat treatment

Quality Control Testing Equipment:

- Direct reading spectrograph
- Metalloscope
- Complete physical and chemical analyzing and testing as well as flaw detection equipment



Good machines are built by high-efficiency and collaborative teams, with scientific process control.



The concept of Detailed Division Of Labor is implemented throughly in the structure of our frame union and the process of machine toolframe production.

1. Each small assembly process are devided into smaller work steps, each smaller step is implemented by sevevral independent and collaborative teams;
2. Each assembly team is responsible for the result of their own step, and responsible to the acceptance of next procedure;
3. All the results of each small steps are well documented in data base and could be easily tracked in the future when necessary;
4. All the suppliers of components, all the independent assembly teams, are involved in the aftersales service of domestic market, which made them try to find the best way to make their step perfect at the begining before machine is delivered, instead of solving the problem at clients' factory.

Good machines are built with good mother machines.

More than 30 sets of imported machining equipments and grinding equipments, mostly from Europe, ensure the accuracy of our products.

Castings machined and grinded by high-quality mother machines imported from Europe and Taiwan:

- 1) More than 20 sets of double-column machining centers and universal bed mills from Nicolas Correa (Spain);
- 2) Horizontal machining center of DMG from Germany;
- 3) Bridge type grinding machine from FAVERTTO (Italy) ;
- 4) Bridge type grinding machine from DANOBAT (Spain);
- 5) 8 sets of double-column grinding machines and universal grinding machines from Taiwan.

