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Industrial Robot + CNC Machinetools + Intelligent Factory

杭州蕙勒智能科技股份有限公司

HANGZHOU WHEELER GENERAL MACHINERY INCORPORATED CO., LTD



For more information, please pay attention to the official WeChat account

400 780 1898

We provide on-call service 24 hours a day, 7 days a week. If you encounter any equipment maintenance and repair problems, please contact us. If you have any suggestions, please log in to the company's official website to leave a message.





Sample parameters and information are subject to change without prior notice, and the final data is subject to the technical agreement.

HL-EM02303-01-1000

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HANGZHOU WHEELER GENERAL MACHINERY INCORPORATED CO., LTD





蕙靭

INDUSTRIAL ROBOT/CNC MACHINETOOLS/INTEL-LIGENT FACTORY



Hangzhou wheeler general machinery incorporated Co., Ltd. is a national high-tech enterprise specializing in CNC machining equipment, automatic machine tool loading and unloading, digital factories, and non-standard fixtures design and manufacture. The company was established in January 2015, and is located in Linping Distict, Hangzhou City. The company has more than 300 employees, and an efficient professional technology research and development team, including more than 60 professional and technical personnel with various intermediate and senior technical titles (engineers). The company has a 5,000-square-meter R&D center and a 43,000-square-meter production and debugging base, and has more than 50 patented technologies. There are offices and after-sales service outlets in 22 prefecture-level cities in China, as well as professional agency partners and service outles in Turkey, Russia, Egypt, South Africa, Brazil, Australia, Singapore, Malaysia, Thailand and other countries.



Certification system we have passed

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Wheeler is currently a strategic partner of robotics companies such as KUKA(Germany), ABB(Switzerland), CNC system companies such as Fanuc, Mitsubish(Japan), Seimens(Germany). We provide customers with mechanical mechanical processing automation technology scheme design, a full set of automation equipment, technical consultation, and perfect after-sales and technical services. The company's products are widely used in mass production industries such as auto parts processing and construction machinery.





EM series vertical machining center

EM series vertical machining center is a new generation of CNC machine tools produced by US-WHEELER with advanced technology. The rational structure design of machine tools, high rigidity, high stability, high precision and high guality parts selection effectively save processing time.

+ Humanity Design



centralized layout

Auxiliary equipment is gathered right behind the machine for easy inspection.



Rotary operating panel

0°~60°rotatable operation panel improves operation convenience and visibility.



USwheeler

EM 1100A

Standard water tank

A full range of multi-layer filter debris tanks ensure clean and efficient return water.



Application

This series of machine tools has strong overall rigidity, convenient and flexible operation, and fully enclosed protection. It is suitable for the processing of box parts and complex two-dimensional and three-dimensional molds. After the parts are clamped once, multiple processes can be realized. It is widely used in multi-process parts and mold processing in industries such as automobiles, molds, aviation and military industries. It can also add rotary coordinate axes according to customer needs to process multi-angle parts and cylindrical gears, Cams and other types of parts.



MACHANICAL STRUCTURE



Spindle

The spindle adopts precision sleeve-type, its body assembled with high-grade P4 Class bearings.

The inner hole taper of the spindle is stable and thick, which can ensure no vibration during cutting at various speeds.

It extends the tool life and improves the machining precision of the workpiece surface.



Roller guide rail

The roller guide rail with small elastic deformation under force realizes high rigidity through the rollers incorporated in the slide unit



Ball screw

It adopts imported C3 grinding grade screw rod, which has the characteristics of good rigidity, wear resistance, torque resistance and long service life. After adding the pre-tension nut, the backlash is eliminated to ensure the high machining accuracy of the machine.

1111

MAIN CONFIGURATION



High-speed ATC tool magazine

The tool changer is driven by a cam motor. During processing, the tool magazine can rotate to the next tool to be used to wait for the tool change command, which can minimize non-cutting time. At the same time, 24 tools can be assembled {optional 30 tools},to diversify its processing.

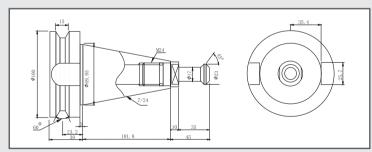
T 24 — Standard —



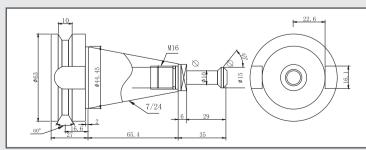
Tool Holder Type Diagram

Match the corresponding size tool holder according to the processing requirements of the equipment



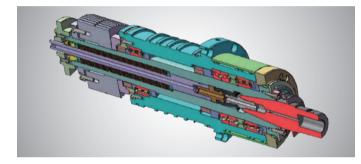






MAIN CONFIGURATION





+ Spindle

The proportion of the contact length between the spindle head and the column is appropriate, which provides stable support for the spindle. The spindle head has a built-in independent cooling system, which keeps the heat of the spindle head within a reasonable range, reduces the thermal extension of the spindle, and ensures machining accuracy.

+ Spindle

The vertical machining center is equipped with a high-performance, high-precision spindle, providing faster acceleration and deceleration and more stable processing results. The high-precision, high-speed, high-torque spindle can adapt to the processing requirements of various parts and provide strong support for the high-precision and high-strength processing of the vertical high-speed machining center.

High-performance spindle motor (for BT50) facilitates efficient machining

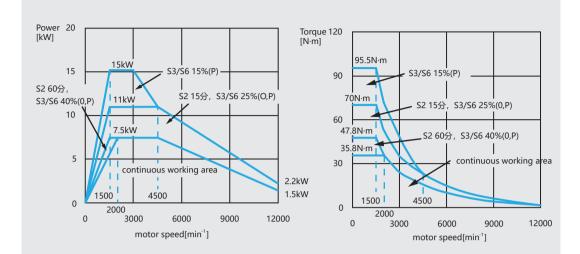
iIP-B series spindle motors are air-cooled asynchronous motors with compact structure, high output and high torque. Spindle motor HRV control makes it more efficient to control and generate less heat. It can provide a more stable machine tool processing effect and ensure the processing efficiency of the equipment.

| | 7.5/11kW | 11/15kW | 15/18.5kW |
|---------------|----------|---------------|-----------|
| Spindle drive | Synhro | nous belt dri | ve |
| Max. speed | 12000rpm | 10000rpm | 8000rpm |
| Rated torque | 35.8Nm | 52.5Nm | 143Nm |
| Max. Torque | 95.5Nm | 118Nm | 236Nm |

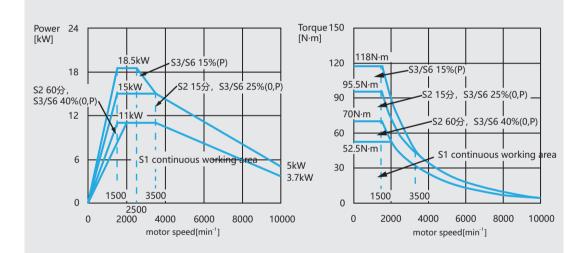


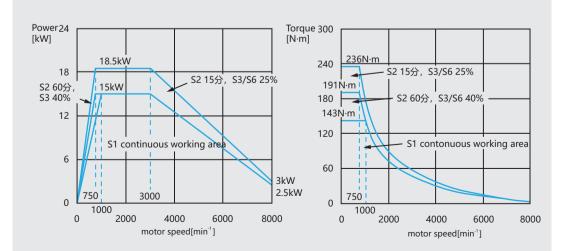


7.5/11kW



11/15kW





15/18.5kW

OPERATION SYSTEM



FANUC - 0iMF PLUS

Brand new operating experience

- equipped with *i* HMI(Type0)
- Maximum support 21.5" PANEL *i* H Pro
- Customized design according to customer needs

Higher operating efficiency

- System Configuration Servo Selection Software
- Insulation deterioration detection function
- Fault Detection Diagnostics feature provides quick troubleshooting
- Prevention of machine tool damage during power outages

Stronger performance

- Smart Servo Control
- Fine surface treatment technology
- Efficient Processing Technology



OiF Plus System storage capacity leaps and bounds

- storage capacity standard 2M+1000 programs
- support online editing of programs
- equipped with 24000 steps as standard
- PMC Full range standard MEM B
- User software capacity6M

Richer functions

- AICC I/II
- multi-step skip
- dynamic graphic display
- AI thermal compensation

More convenient operation

- storage capacity leap
- One-key setting for efficient processing
- Shortcut macro call
- Program Online Editing



Efficient processing settings

Recommended settings that can be set with one touch

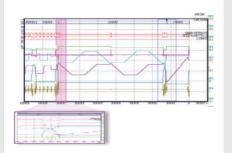


Dynamic graphic display

3D model, no mechanical movement simulation



Tool magazine test For MTB



Servo sensor Supporting Machine Behavior Improvement Through Visualization



VMC tool magazine

Rich tool magazine data display

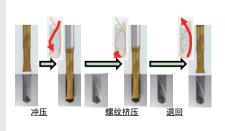
| く 启动画面 | 坐标系测量 |
|--|--|
| 相对金标 X -2:000 Y -2:000 Z -21:000 Z 0:000 Y 0:000 Z 0:000 | 雨点分中 P1.X 0.000 P1 P2.X 0.000 P1 P2.X 0.000 P1 P3.Y 0.000 P1 P4.Y 0.000 P1 P5.Z 0.000 p1 p5.Z 0.000 |
| ———————————————————————————————————— | 对刀捧盖径• 8.050 工件 |
| ▲ 坐標系 扩展 初換 坐标系 | |

Automatic middle interface

Calculate the center coordinates and set them to the coordinate system

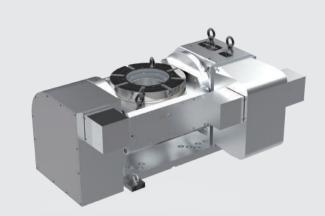


Development Platform Composable module development



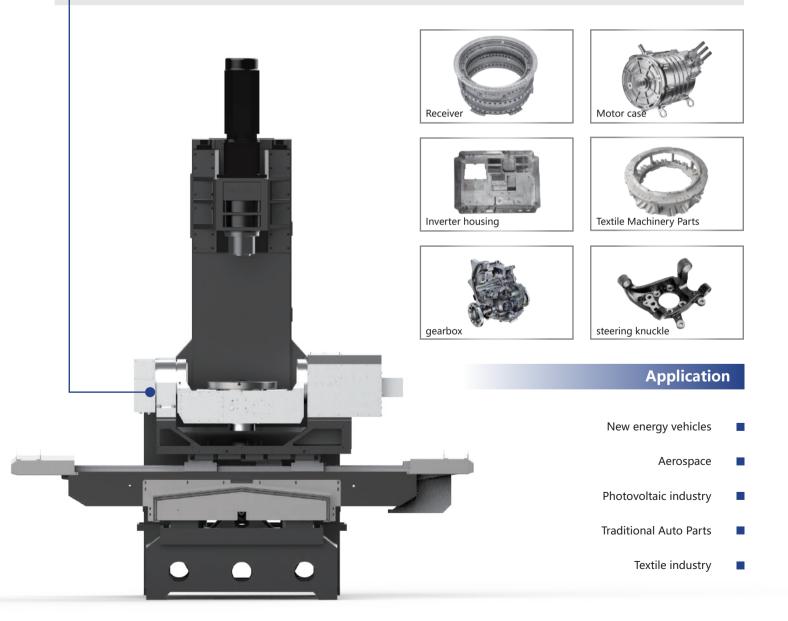
The latest machining technology Punch Tap Special tools that respond to high productivity

5/4 AXIS TURN TABLE SYSTEM



Optional 5/4 AXIS TURN TABLE SYSTEM

Adding four or five axes to the machine tool can make the processing surface of the tool wider, and can reduce the repeated clamping of the workpiece, which is conducive to simplifying the process, improving efficiency, shortening production time, and reducing costs. Complete multi-faceted processing in one clamping, and then integrate with the automated robotic arm to prepare for the infrastructure of Industry 4.0.



STANDARD CONFIGURATION

- FANUC control system
- Water tank cooling device
- Automatic lubrication device
- Outer shield
- Spindle taper hole blowing device
- Automatic Tool Changer (Robot Arm)
- Transformer
- Electrical cabinet heat exchanger
- Hand wheeler
- Working lamp
- Tri-color warning light
- LCD Monitor
- Tools, toolbox
- Operation Manual
- Pneumatic components
- Air gun



- Spindle oil cooling device
- Spindle center water outlet system
- Oil water separator
- CNC turntable (four-axis/five-axis)
- Auto Tool Length Measuring System
- Manual/automatic side milling head
- ZF gearbo
- water gun
- Chain chip conveyor



Full cover tool magazine Prevent moisture and dust from inside the tool

magazine.



Spindle

6000RPM-12000RPM optional, using ultra-precision P4 bearings, optional oil cooling to maintain the stability of the spindle temperature rise; and optional central water outlet.



Heat exchanger

Effectively block moisture, oil gas, and dust from entering the electric control box.



Screw

The screw rod is pre-compressed precisely, so that it has better rigidity and effectively reduces the thermal expansion and contraction phenomenon in use, and improves the service life and precision retention.



Oil cooler

Maintain a constant temperature to ensure the machining accuracy of the spindle, and you can choose the constant temperature and room temperature synchronous mode.

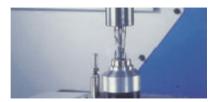


Spiral Chip Conveyor
Easy installation, stable operation and low noise.



Oil water separator

Effectively remove cutting fluid slick oil, maintain the performance of cutting fluid, and prolong the service life of cutting fluid.



Auto knife length measuring device Improve work efficiency and ensure machining accuracy.

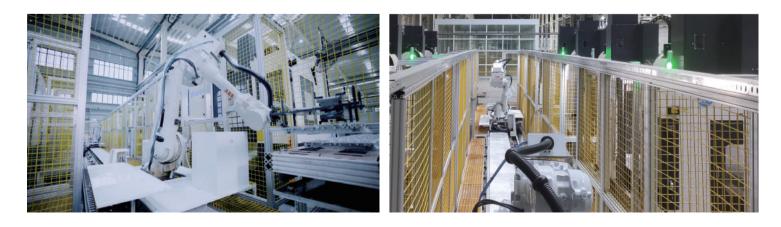
AUTOMATIC MANUFACTURE

US-wheeler provides a complete set of automation project solutions from design to delivery, and its main business covers machine tool loading and unloading, automated production line integration, intelligent warehousing and logistics. There are four directions for households to build smart factories.

+ Vertical processing robot ground rail line

Production line features

<complex-block>



+ Top and twin-side bottom

Production line features

- The silo adopts a rotating silo, which can realize the sharing of loading and unloading, realize cost saving and space saving.
- Set up a ground water tray in the robot area to avoid water dripping onto the ground during robot handling.

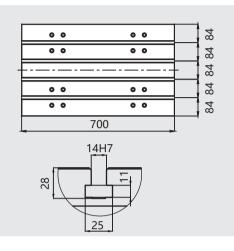
+ Truss manipulator unit

Production line features

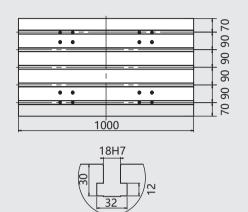


WORK TABLE SIZE

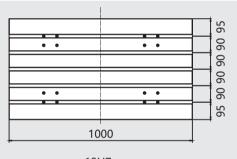
EM 600A



EM 800A

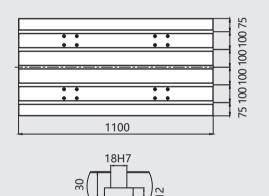


EM 855A

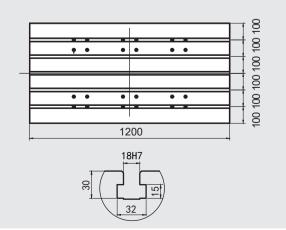




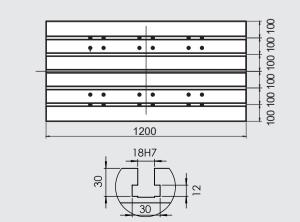
EM 900A



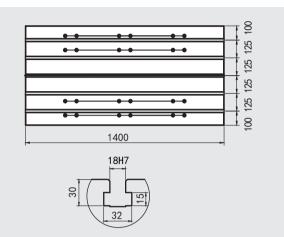
EM 1100A



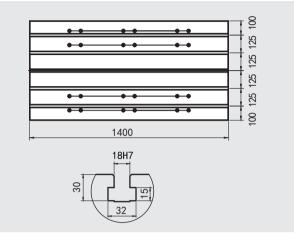
EM 1165Z



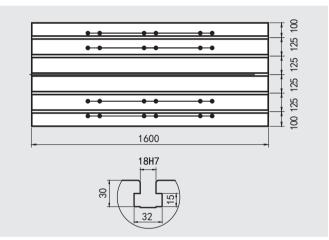
EM 1300A



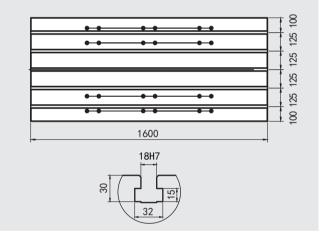
EM 1300B



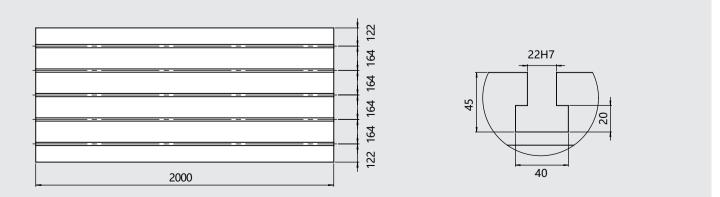
EM 1500B



EM 1570

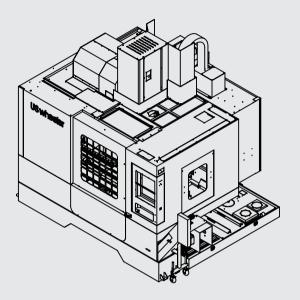


EM 1800B



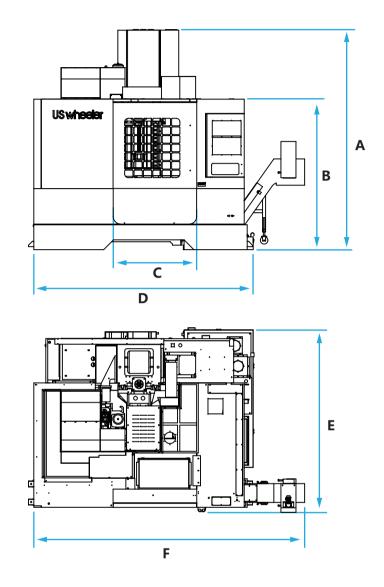
MACHINE DIMENSIONS

Standard single door model



Appearance Applicable Models:

| EM 600A | EM 800A | EM 855A |
|---------|----------|---------|
| EM 900A | EM 1100A | |



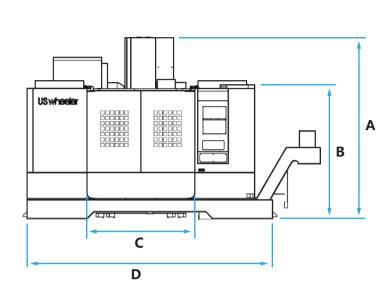
+ Detailed model size

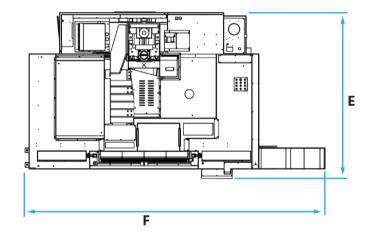
unit: mm

| | Α | В | С | D | E | F | Weight(about kg) |
|----------|------|------|------|------|------|------|------------------|
| EM 600A | 2850 | 1950 | 730 | 2050 | 2050 | 2280 | 3700 |
| EM 800A | 2850 | 2000 | 1000 | 2500 | 2240 | 3600 | 5000 |
| EM 855A | 3000 | 2200 | 800 | 2500 | 2310 | 2600 | 5400 |
| EM 900A | 3000 | 2200 | 800 | 2500 | 2310 | 2600 | 5800 |
| EM 1100A | 2928 | 2002 | 1114 | 2840 | 2388 | 3674 | 6500 |

Appearance Applicable Models:

Standard two-door model





| + Detailed model size unit: m | | | | | | | |
|-------------------------------|------|------|------|------|------|------|------------------|
| | Α | В | С | D | E | F | Weight(about kg) |
| EM 1165Z | 2900 | 2214 | 1503 | 3200 | 2400 | 4000 | 7200 |
| EM 1300A | 3150 | 2270 | 1600 | 3670 | 2720 | 4430 | 7800 |
| EM 1300B | 3150 | 2270 | 1600 | 3670 | 2720 | 4430 | 7800 |
| EM 1500B | 3610 | 2420 | 1800 | 4300 | 3250 | 4000 | 10400 |
| EM 1570 | 3300 | 2420 | 1750 | 4460 | 2750 | 5250 | 9000 |

EM 1300A EM 1370 EM 1570Z

EM 1500B

EM 1165Z

DETAILED PARAMETERS

| | | | EM 600A | EM 800A | EM 855A |
|------------------|-------------------------------------|-----------|-----------------------|-----------------------|----------------------|
| | X Axis | mm | 600 | 800 | 800 |
| | Y Axis | mm | 400 | 500 | 550 |
| rocessing | Z Axis | mm | 450 | 500 | 550 |
| range | Spindle nose to table surface | mm | 150-600 | 150-650 | 120-670 |
| | spindle center to column rail surfa | ace mm | 447 | 547 | 590 |
| | Table size | mm | 700*420 | 1000*500 | 1000*550 |
| Norktable | max bearing | Kg | 350 | 500 | 600 |
| vorktable | T-slot Number | Num | 4 | 5 | 5 |
| | T-slot size/spacing | mm | 14*84 | 18*90 | 18*90 |
| | spindle drive | - | Synhronous belt drive | Synhronous belt drive | Synhronous belt driv |
| c · | Spindle speed | r/min | 50-10000 | 50-10000 | 50-8000 |
| Spindle | spindle power | kW | 7.5/11 | 7.5/11 | 11/15 |
| | Spindle motor torque (rate/max) | N·m | 35.8/95.5 | 35.8/95.5 | 52.5/118 |
| | rapid speed on X/Y/Z | m/min | 42/42/48 | 42/42/42 | 42/42/42 |
| | X/Y/Z servo motor drive | - | Direct drive | Direct drive | Direct drive |
| - | X/Y/Z servo motor speed | rpm | 3000/3000/3000 | 3000/3000/3000 | 3000/3000/3000 |
| Servo axis | X/Y/Z axis screw diameter | mm | Φ32/Φ32/Φ32 | Φ40/Φ40/Φ40 | Φ40/Φ40/Φ40 |
| | X/Y/Z axis screw pitch | mm | 16/16/16 | 16/16/16 | 16/16/16 |
| | Cutting feed rate | mm/min | 1-10000 | 1-10000 | 1-10000 |
| | Minimum feed | mm | 0.001 | 0.001 | 0.001 |
| | Magazine capacity | No. | 24 | 24 | 24 |
| | Tool magazine form | - | ATC | ATC | ATC |
| | Tool shank type | - | BT-40 | BT-40 | BT-40 |
| | handle pull stud | - | 45° | 45° | 45° |
| Tool magazine | tool diameter (adjacent) | mm | Ф80 | Ф80 | Ф80 |
| | tool diameter (no adjacent) | mm | Ф150 | Ф150 | Ф150 |
| | tool length | mm | 300 | 300 | 300 |
| | tool weight(max) | Kg | 8 | 8 | 8 |
| | tool to tool change time | Sec | 2.5/3 | 2.5/3 | 2.5/3 |
| Accuracy | positioning accuracy | mm | ±0.005 | ±0.005 | ±0.005 |
| Accuracy | repositioning accuracy | mm | ±0.003 | ±0.003 | ±0.003 |
| | Machine weight | (about)Kg | 3700 | 5000 | 5400 |
| | Floor area | mm | 2050*2280 | 2500*2240 | 2600*2310 |
| | Machine height | mm | 2850 | 2850 | 3000 |
| Other | power capacity | kVA | 25 | 25 | 25 |
| Uner | Lubricating oil capacity | L | 3 | 3 | 3 |
| | Cutting fluid capacity | L | 250 | 286 | 286 |
| | Air pressure | Bar | 6~8 | 6~8 | 6~8 |
| | CNC system | | FA | NUC - OiMF PLUS | |

| | | | EM 900A | EM 1100A | EM 1165Z |
|------------------|-------------------------------------|-----------|-----------------------|-----------------------|-----------------------|
| | X Axis | mm | 920 | 1100 | 1100 |
| | Y Axis | mm | 550 | 600 | 650 |
| rocessing | Z Axis | mm | 570 | 600 | 600 |
| range | Spindle nose to table surface | mm | 120-690 | 120-720 | 130-730 |
| | spindle center to column rail surfa | ice mm | 590 | 650 | 680 |
| | Table size | mm | 1100*550 | 1200*600 | 1200*600 |
| | max bearing | Kg | 800 | 800 | 800 |
| Norktable | T-slot Number | Num | 5 | 5 | 5 |
| | T-slot size/spacing | mm | 18*100 | 18*100 | 18*100 |
| | spindle drive | - | Synhronous belt drive | Synhronous belt drive | Synhronous belt drive |
| | Spindle speed | r/min | 50-10000 | 50-8000 | 50-6000 |
| Spindle | spindle power | kW | 11/15 | 11/15 | 15/18.5 |
| | Spindle motor torque (rate/max) | N∙m | 52.5/118 | 52.5/118 | 143/236 |
| | rapid speed on X/Y/Z | m/min | 42/42/42 | 36/36/36 | 36/36/20 |
| | X/Y/Z servo motor drive | - | Direct drive | Direct drive | Direct drive |
| | X/Y/Z servo motor speed | rpm | 3000/3000/3000 | 3000/3000/3000 | 3000/3000/2000 |
| Servo axis | X/Y/Z axis screw diameter | mm | Φ40/Φ40/Φ40 | Φ40/Φ40/Φ40 | Φ40/Φ40/Φ40 |
| unis | X/Y/Z axis screw pitch | mm | 16/16/16 | 12/12/12 | 12/12/12 |
| | Cutting feed rate | mm/min | 1-10000 | 1-10000 | 1-10000 |
| | Minimum feed | mm | 0.001 | 0.001 | 0.001 |
| | Magazine capacity | No. | 24 | 24 | 24 |
| | Tool magazine form | - | ATC | ATC | ATC |
| | Tool shank type | - | BT-40 | BT-40 | BT-50 |
| | handle pull stud | - | 45° | 45° | 45° |
| Tool magazine | tool diameter (adjacent) | mm | Ф80 | Ф80 | Ф110 |
| | tool diameter (no adjacent) | mm | Ф150 | Ф150 | Ф200 |
| | tool length | mm | 300 | 300 | 300 |
| | tool weight(max) | Kg | 8 | 8 | 15 |
| | tool to tool change time | Sec | 2.5/3 | 2.5/3 | 4.5/7 |
| Accuracy | positioning accuracy | mm | ±0.005 | ±0.005 | ±0.005 |
| Accuracy | repositioning accuracy | mm | ±0.003 | ±0.003 | ±0.003 |
| | Machine weight | (about)Kg | 5800 | 6500 | 7200 |
| | Floor area | mm | 2600*2310 | 2900*2400 | 2500*3200 |
| | Machine height | mm | 3000 | 3000 | 2900 |
| Other | power capacity | kVA | 25 | 30 | 30 |
| Other | Lubricating oil capacity | L | 3 | 3 | 3 |
| | Cutting fluid capacity | L | 286 | 286 | 286 |
| | Air pressure | Bar | 6~8 | 6~8 | 6~8 |
| | CNC system | | F | ANUC - OIMF PLUS | |

DETAILED PARAMETERS

| | | | EM 1300A | EM 1300B | EM 1500B/Z |
|------------------|------------------------------------|-----------|-----------------------|-----------------------|-----------------------|
| | X Axis | mm | 1300 | 1300 | 1500 |
| | Y Axis | mm | 700 | 700 | 800 |
| rocessing | Z Axis | mm | 700 | 700 | 700 |
| range | Spindle nose to table surface | mm | 120-820 | 120-820 | 150-850 |
| | spindle center to column rail surf | ace mm | 750 | 750 | 900 |
| | Table size | mm | 1400*700 | 1400*700 | 1700*800 |
| Vorktable | max bearing | Kg | 1000 | 1000 | 1200 |
| vorklable | T-slot Number | Num | 5 | 5 | 5 |
| | T-slot size/spacing | mm | 18*125 | 18*125 | 18*140 |
| | spindle drive | - | Synhronous belt drive | Synhronous belt drive | Synhronous belt drive |
| c · | Spindle speed | r/min | 50-8000 | 50-6000 | 50-6000 |
| Spindle | spindle power | kW | 11/15 | 15/18.5 | 15/18.5 |
| | Spindle motor torque (rate/max) | N·m | 52.5/118 | 143/236 | 143/236 |
| | rapid speed on X/Y/Z | m/min | 36/36/24 | 24/24/24 | 20/20/20 |
| | X/Y/Z servo motor drive | - | Direct drive | Direct drive | Direct drive |
| | X/Y/Z servo motor speed | rpm | 3000/3000/2000 | 3000/3000/2000 | 2000/2000/2000 |
| Servo axis | X/Y/Z axis screw diameter | mm | Φ45/Φ45/Φ45 | Φ45/Φ45/Φ45 | Φ50/Φ50/Φ50 |
| unio | X/Y/Z axis screw pitch | mm | 12/12/12 | 12/12/12 | 10/10/10 |
| | Cutting feed rate | mm/min | 1-8000 | 1-8000 | 1-8000 |
| | Minimum feed | mm | 0.001 | 0.001 | 0.001 |
| | Magazine capacity | No. | 24 | 24 | 24 |
| | Tool magazine form | - | ATC | ATC | ATC |
| | Tool shank type | - | BT-40 | BT-50 | BT-50 |
| _ | handle pull stud | - | 45° | 45° | 45° |
| Tool nagazine | tool diameter (adjacent) | mm | Ф80 | Ф105 | Ф105 |
| inagazine | tool diameter (no adjacent) | mm | Ф150 | Ф200 | Ф200 |
| | tool length | mm | 300 | 350 | 350 |
| | tool weight(max) | Kg | 8 | 15 | 15 |
| | tool to tool change time | Sec | 2.5/3.5 | 5.5/9 | 5.5/9 |
| Accuracy | positioning accuracy | mm | ±0.006 | ±0.006 | ±0.006 |
| Accuracy | repositioning accuracy | mm | ±0.004 | ±0.004 | ±0.004 |
| | Machine weight | (about)Kg | 7800 | 8000 | 104000 |
| | Floor area | mm | 3400*2600 | 3400*2600 | 4000*3250 |
| | Machine height | mm | 3200 | 3200 | 3610 |
| 01 | power capacity | kVA | 30 | 30 | 30 |
| Other | Lubricating oil capacity | L | 3 | 3 | 3 |
| | Cutting fluid capacity | L | 286 | 286 | 300 |
| | Air pressure | Bar | 6~8 | 6~8 | 6~8 |
| | CNC system | | | FANUC - OIMF PLUS | |

| | | | EM 1500L | EM 1800B |
|---------------------|-----------------------------------|-----------|-----------------------|-----------------------|
| | X Axis | mm | 1500 | 1800 |
| | Y Axis | mm | 700 | 900 |
| Processing range | Z Axis | mm | 700 | 740 |
| | Spindle nose to table surface | mm | 130-830 | 95-835 |
| | spindle center to column rail sur | face mm | 750 | 976 |
| | Table size | mm | 1600*700 | 2000*900 |
| Vorktable | max bearing | Kg | 1000 | 1800 |
| VOIRtable | T-slot Number | Num | 5 | 5 |
| | T-slot size/spacing | mm | 18*125 | 22*164 |
| | spindle drive | - | Synhronous belt drive | Synhronous belt drive |
| Cusiunalla | Spindle speed | r/min | 50-8000 | 50-6000 |
| Spindle | spindle power | kW | 11/15 | 15/18.5 |
| | Spindle motor torque (rate/max) |) N·m | 52.5/118 | 143/236 |
| | rapid speed on X/Y/Z | m/min | 24/24/20 | 16/16/16 |
| | X/Y/Z servo motor drive | - | Direct drive | Direct drive |
| <i>c</i> | X/Y/Z servo motor speed | rpm | 2000/2000/2000 | 2000/2000/2000 |
| Servo axis | X/Y/Z axis screw diameter | mm | Φ45/Φ45/Φ45 | Φ55/Φ55/Φ55 |
| | X/Y/Z axis screw pitch | mm | 12/12/12 | 12/12/12 |
| | Cutting feed rate | mm/min | 1-8000 | 1-5000 |
| | Minimum feed | mm | 0.001 | 0.001 |
| | Magazine capacity | No. | 24 | 24 |
| | Tool magazine form | - | ATC | ATC |
| | Tool shank type | - | BT-40 | BT-50 |
| | handle pull stud | - | 45° | 45° |
| Tool nagazine | tool diameter (adjacent) | mm | Ф80 | Ф105 |
| | tool diameter (no adjacent) | mm | Ф150 | Ф200 |
| | tool length | mm | 300 | 300 |
| | tool weight(max) | Kg | 8 | 15 |
| | tool to tool change time | Sec | 2.5/3.5 | 5.5/9 |
| Accuracy | positioning accuracy | mm | ±0.006 | ±0.008 |
| Accuracy | repositioning accuracy | mm | ±0.004 | ±0.006 |
| | Machine weight | (about)Kg | 9000 | 14500 |
| | Floor area | mm | 3700*2800 | 5000*3400 |
| | Machine height | mm | 3300 | 3350 |
| Other | power capacity | kVA | 30 | 40 |
| Other | Lubricating oil capacity | L | 3 | 3 |
| | Cutting fluid capacity | L | 300 | 300 |
| | Air pressure | Bar | 6~8 | 6~8 |
| | CNC system | | FANUC - Oimf | |