

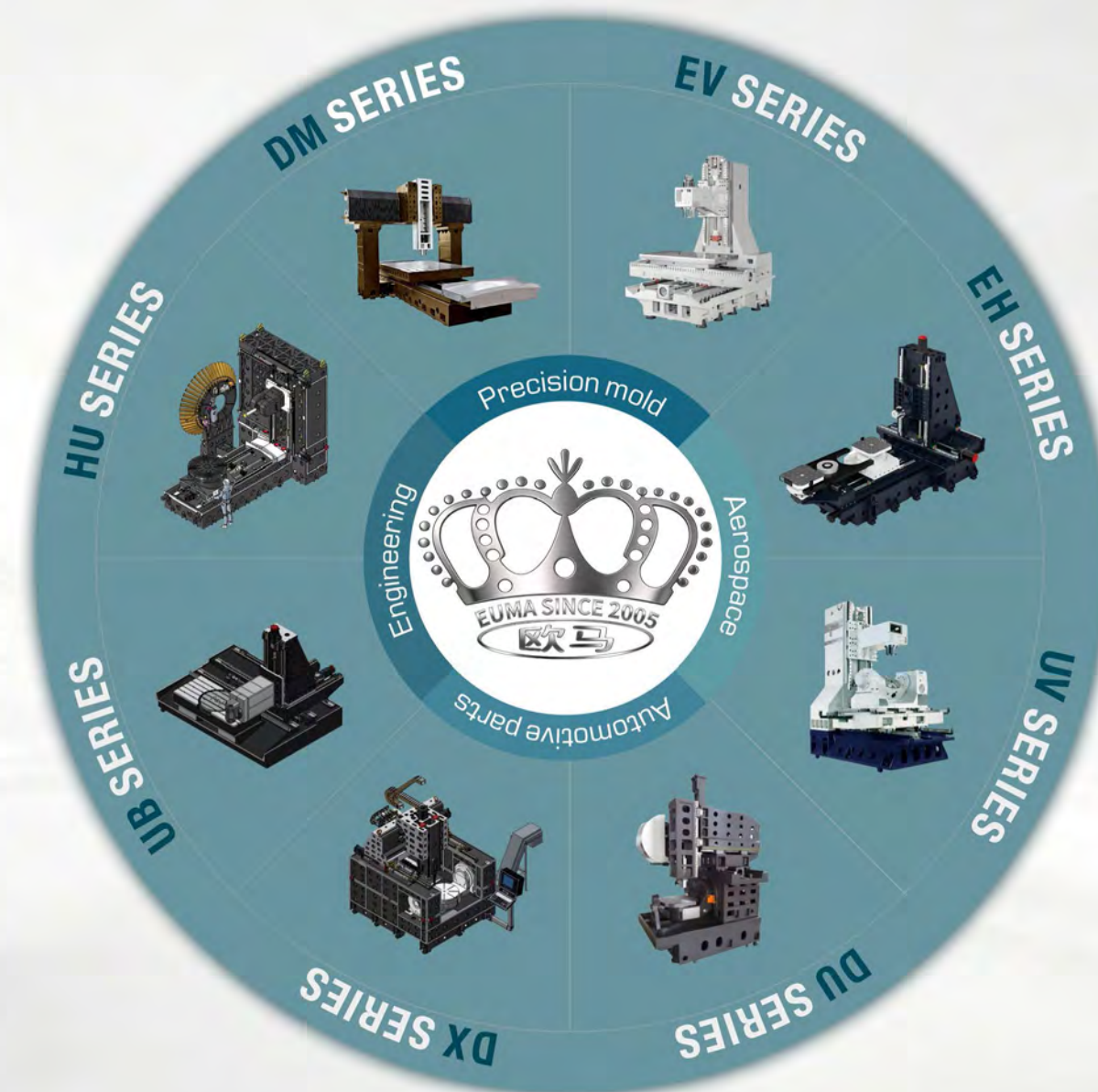


# EUMA



## WENZHOU EUMA MACHINERY CO. , LTD.

- 📍 No.1 Building 2909, Faith-trust Center, No.1067 Jinxiu Road, Lucheng District, Wenzhou, Zhejiang, China P.C.:325000
- ☎ Tel: +86 577 8823 9930 Mob: +86 139 6883 7667 Justin
- ✉ E-mail: [info@eumaseiki.com](mailto:info@eumaseiki.com)
- 🌐 Http://[www.eumaseiki.com](http://www.eumaseiki.com)



COMPANY PROFILE



Wenzhou EUMA Machinery Co., Ltd. is a high-tech enterprise integrating industry and trade. The company brand EUMASEIKI is dedicated exclusively to the customization of various CNC machining centers with a professional R&D center, a portfolio of patented technologies, as well as professional sales service teams. Our product range covers diverse sectors including precision mold making, aerospace, automotive parts manufacturing, high-end equipment production, shipbuilding and engineering machinery.

Our machines are originated from European design concepts, manufactured adhering to Taiwanese standards and Japanese technologies throughout the entire process of casting, machining, assembly and commissioning. Machine beds adopt mineral castings, whose structures are optimized through finite element analysis. All castings undergo full annealing treatment to eliminate internal stress, and the spindle guideways are subject to high-frequency heat treatment. Key components such as spindles, guideways, bearings and oil pumps are sourced from renowned manufacturers in Taiwan and Japan, while some core components are imported from original brands in Germany or Italy.

The production base is located in Ningbo City. Equipped with advanced imported machinery such as Japanese OKUMA gantry machining centers, KURUKI boring and milling machines, NIIGATA horizontal machining centers, and German ZEISS coordinate measuring machine, the workshop not only ensures the machining precision of our equipment but also provides solid support for trial machining and testing.

Staying true to the original aspiration of high-end manufacturing, Wenzhou EUMA consistently sticks to the principle of "High Precision, High Speed, High Efficiency and High Stability". We focus on high-end 5-axis machine tools to empower China's high-end intelligent equipment manufacturing industry. By keeping pace with the times and the needs of customers, we continuously develop new products, set new benchmarks for the industry, and provide customers with high-valued products and convenient services.

JUSTIN AND EUMA HISTORY

- **2025**  
Based on 20 years experienced Taiwan technical team. Joint venture production with CAM. Produce and exclusive sells various 5-axis precision machining centers with brand of EUMASEIKI.
- **2023**  
Established Wenzhou EUMA for export trading. Focus on high-end CNC machining centers and turn mill lathe machines.
- **2020**  
Trade with Chinese top brands new machine tool. As agent in regional sales with after-sales service.
- **2016**  
On-demand production for custom precision parts with various europe and Japan made famous machining centers.
- **2013**  
As exclusive authorized agent to sell Italian TRAVISAN machining centers in China. .
- **2008**  
Trading with European top brands machine tool. Such as DIXI/STARRAG/HECKERT/DMG/PAMA/ JOBS/SKODA.Import,re-assembly,maintenance, upgrating and resale.
- **2005**  
Start the heavy duty machine tools trade with Russian market,resale in China.

COMPANY CATALOG

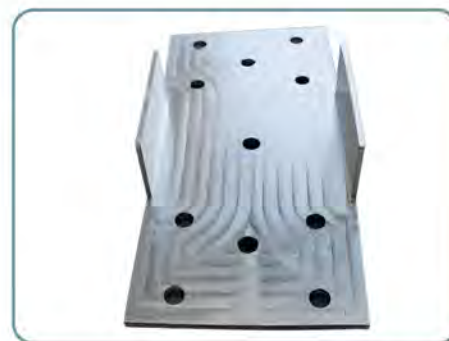
|                                          |       |
|------------------------------------------|-------|
| Company Profile                          | 01    |
| Company History/Catalog                  | 02    |
| EV 3/4-axis Vertical Machining Center    | 03-06 |
| UV Trunnion Table Machining Center       | 07-08 |
| EH 4-axis Horizontal Machining Center    | 09-10 |
| HU 5-axis Horizontal Machining Center    | 11-12 |
| DU 5-axis Vertical Machining Center      | 13-14 |
| DX Gantry Cradle 5-axis Machining Center | 15-16 |
| UB Swivel Head 5-axis Machining Center   | 17-18 |
| DM CNC Gantry Machining Center           | 19-20 |
| Production Capacity                      | 21    |
| End-user Sites                           | 22    |

# EV series

## 3/4 axis Vertical Machining Center

**EV-855A**  
**EV-1055A**

**EV-1165A**  
**EV-1370A**



### CHARACTERISTICS

Eumaseiki the innovated CNC vertical machining center, is composed of two stationary castings - the base and the column which are both combined with marble mineral materials. Secondary annealing process, longer terms keeping for further eliminate stress, ensuring a prolonged service life. Core components such as spindle, ball screw, guideways are all sourced from high-end products of mainstream brands imported from Taiwan/Japan. The assembly of each machine is carried out by our experienced technicians from Taiwanese enterprises with many years professional experience. Compared to market existing models, our unique 3-axis CNC machining centers can be varied customized featuring higher torque, wider travel range and faster speed. Optionally, it is also can equipped with 4-axis rotary table for 5 face or 5-axis processing. Possessing unparalleled technical characteristics.

- High performance
- High strength
- High rigidity
- High dynamic and thermal stability
- High accuracy for long terms
- High reliability

| Specification                           | unit   | EV-855A            | EV-1055A           | EV-1165A           | EV-1370A          | Standard Configuration                           | Option Configuration                                        |
|-----------------------------------------|--------|--------------------|--------------------|--------------------|-------------------|--------------------------------------------------|-------------------------------------------------------------|
| X-axis Travel                           | mm     | 810                | 1000               | 1100               | 1300              | 1. Fully enclosed protective cover               | 1. 32-position tool magazine                                |
| Y-axis Travel                           | mm     | 550                | 550                | 650                | 720               | 2. 24-tool magazine                              | 2. Spindle: Belt-driven/Direct-drive/Electric               |
| Z-axis Travel                           | mm     | 560                | 580                | 650                | 720               | 3. Manual pulse generator                        | 3. Spindle speed: 6000/8000/10000/12000/15000rpm            |
| Distance (spindle nose to table)        | mm     | 130-690            | 120-700            | 120-770            | 130-850           | 4. USB/Ethernet interface                        | 4. Spindle taper: HSK/BT/BBT                                |
| Distance (spindle center to column)     | mm     | 595                | 595                | 673                | 735               | 5. Work lights                                   | 5. Internal spindle cooling 20bar/30bar/50bar/70bar         |
| Worktable size                          | mm     | 1000x550           | 1100x550           | 1300x650           | 1400x700          | 6. Pause and work completion indicator lights    | 6. Italian BF gear reducer                                  |
| Max. Load on worktable                  | kg     | 650                | 650                | 900                | 1000              | 7. Fault indicator lights                        | 7. Four-axis rotary table                                   |
| T-slot size (width x distance x number) | mm     | 18x90x5            | 18x90x5            | 18x120x5           | 18x90x5           | 8. M30 Automatic power-off system                | 8. Renishaw TS27R/NC4 tool setter                           |
| Spindle taper                           | type   | ISO 40             | ISO 40             | ISO 40             | ISO 40            | 9. Anchor bolts and foundation blocks            | 9. Post-processor                                           |
| Feed rate (X/Y/Z axis)                  | m/min  | 48/48/32           | 48/48/32           | 36/36/24           | 36/24/24          | 10. Transformer (380V - 220V)                    | 10. Automatic door with cylinder                            |
| Cutting feed rate (X/Y/Z axis)          | mm/min | 20000              | 20000              | 15000              | 15000             | 11. Arm-type tool changer                        | 11. Spindle and ball screw thermal deformation compensation |
| Ball screw (X/Y/Z axis)                 | mm     | Ø40/16             | Ø40/16             | Ø40/12             | Ø40/12            | 12. Direct-drive spindle                         | 12. Rotating view window                                    |
| Linear Guideway                         | mm     | 35/45/45           | 35/45/45           | 45/45/45           | 45/55/45          | 13. Spindle oil cooling system                   | 13. Ultra-precision CO-grade ball screws                    |
| Tool shank type                         | type   | BT40               | BT40               | BT40               | BT40              | 14. Spindle and cutting air blowers              | 14. Optimized structure, better castings, increased weight  |
| Tool magazine capacity                  | pcs    | 24                 | 24                 | 24                 | 24                | 15. X/Y/Z axis rolling guides (P-class)          | 15. Oil mist collector                                      |
| Max. tool dia.(adjacent/no adjacent)    | mm     | Ø80/Ø150           | Ø80/Ø150           | Ø80/Ø150           | Ø80/Ø150          | 16. X/Y/Z axis ball screws (C-class)             | 16. X/Y/Z axis Heidenhain grating scale                     |
| Max. tool length                        | mm     | 250                | 250                | 250                | 250               | 17. Cutting coolant system                       | 17. Renisawh workpiece measurement                          |
| Max. tool weight                        | kg     | 8                  | 8                  | 8                  | 8                 | 18. Basic toolbox                                | OMP40-2/RMP40                                               |
| Tool change method                      | type   | arm type           | arm type           | arm type           | arm type          | 19. Chain-type automatic chip conveyor + trolley | 18. Spindle circular sprayer                                |
| Tool change time (tool to tool)         | sec.   | 2                  | 2                  | 2                  | 2                 | 20. Oil-water separator                          | 19. Chip conveyor (scraper or spiral type)                  |
| Spindle drive type                      | -      | Belt/ Direct drive | Belt/ Direct drive | Belt/ Direct drive | Belt              | 21. 10.4-inch color screen                       | 20. Siemens 828D system                                     |
| Spindle speed                           | rpm    | 10000/12000        | 10000/12000        | 10000/12000        | 8000              | 22. Automatic centralized lubrication system     |                                                             |
| Main motor power S1/S6 25%              | kw     | 11/18.5            | 11/18.5            | 11/18.5            | 22/33 (22/33)     | 23. Air gun + coolant gun                        |                                                             |
| Main motor torque S1/S6 25%             | Nm     | 52.5/118           | 52.5/118           | 52.5/118           | 140/260 (210/380) | 24. Electrical cabinet air conditioner           |                                                             |
| X/Y/Z axis feeding motor power          | kw     | 3/3/3              | 3/3/3              | 3/3/3              | 3.8/4.9/4.9       | 25. FANUC Oi-MF CNC system                       |                                                             |
| X/Y/Z axis feeding motor torque         | Nm     | 20/20/27           | 20/20/27           | 20/20/36           | 18/27/27          |                                                  |                                                             |
| Turning coolant motor power             | kw     | 1.0 + 1.0          | 1.0 + 1.0          | 1.0 + 1.0          | 1.0 + 1.0         |                                                  |                                                             |
| Required air pressure                   | kg/cm² | 6.5                | 6.5                | 6.5                | 6.5               |                                                  |                                                             |
| Required power                          | kva    | 25                 | 25                 | 30                 | 30                |                                                  |                                                             |
| X/Y/Z axis positioning accuracy         | mm     | 0.008              | 0.008              | 0.008              | 0.008             |                                                  |                                                             |
| X/Y/Z axis repositioning accuracy       | mm     | 0.005              | 0.005              | 0.005              | 0.005             |                                                  |                                                             |
| Machine weight                          | kg     | 5200               | 5500               | 6000               | 7000              |                                                  |                                                             |
| Machine size                            | mm     | 2700x2400x2850     | 3000x2400x2850     | 3100x2600x3050     | 3400x2900x3300    |                                                  |                                                             |
| CNC control                             | -      | FANUC OIMF PLUS    | FANUC OIMF PLUS    | FANUC OIMF PLUS    | SIEMENS 828D      |                                                  |                                                             |

# EV series

## 3/4 axis Vertical Machining Center

**EV-1475B**  
**EV-1580B**

**EV-1680A**  
**EV-1890B**



### CHARACTERISTICS

Eumaseiki the innovated CNC vertical machining center, is composed of two stationary castings - the base and the column which are both combined with marble mineral materials. Secondary annealing process, longer terms keeping for further eliminate stress, ensuring a prolonged service life. Core components such as spindle, ball screw, guideways are all sourced from high-end products of mainstream brands imported from Taiwan/Japan. The assembly of each machine is carried out by our experienced technicians from Taiwanese enterprises with many years professional experience. Compared to market existing models, our unique 3 axis CNC machining centers can be varied customized featuring higher torque, wider travel range and faster speed. Optionally, it is also can equipped with 4-axis rotary table for 5 face or 5-axis processing. Possessing unparalleled technical characteristics.

- High performance
- High strength
- High rigidity
- High dynamic and thermal stability
- High accuracy for long terms
- High reliability

| Specification                           | unit   | EV-1475B          | EV-1580B          | EV-1680B          | EV-1890B          | Standard Configuration                           | Option Configuration                                        |
|-----------------------------------------|--------|-------------------|-------------------|-------------------|-------------------|--------------------------------------------------|-------------------------------------------------------------|
| X-axis Travel                           | mm     | 1400              | 1500              | 1600              | 1800              | 1. Fully enclosed protective cover               | 1. 32-position tool magazine                                |
| Y-axis Travel                           | mm     | 750               | 800               | 800               | 900               | 2. 24-tool magazine                              | 2. Spindle: Belt-driven/Direct-drive/Electric               |
| Z-axis Travel                           | mm     | 750               | 700               | 700               | 800               | 3. Manual pulse generator                        | 3. Spindle speed: 6000/8000/10000/12000/15000rpm            |
| Distance (spindle nose to table)        | mm     | 150-900           | 155-855           | 160-860           | 150-905           | 4. USB/Ethernet interface                        | 4. Spindle taper: HSK/BT/BBT                                |
| Distance (spindle center to column)     | mm     | 875               | 855               | 885               | 992               | 5. Work lights                                   | 5. Internal spindle cooling 20bar/30bar/50bar/70bar         |
| Worktable size                          | mm     | 1500x700          | 1600x800          | 1700x800          | 2000x900          | 6. Pause and work competition indicator lights   | 6. Italian BF gear reducer                                  |
| Max. Load on worktable                  | kg     | 1000              | 1200              | 1500              | 1800              | 7. Fault indicator lights                        | 7. Four-axis rotary table                                   |
| T-slot size (width x distance x number) | mm     | 18x100x7          | 22x110x7          | 22x110x7          | 22x125x7          | 8. M30 Automatic power-off system                | 8. Renishaw TS27R/NC4 tool setter                           |
| Spindle taper                           | type   | ISO 50            | ISO 50            | ISO 50            | ISO 50            | 9. Anchor bolts and foundation blocks            | 9. Post-processor                                           |
| Feed rate (X/Y/Z axis)                  | m/min  | 36/24/24          | 20/20/20          | 20/20/20          | 20/20/20          | 10. Transformer (380V - 220V)                    | 10. Automatic door with cylinder                            |
| Cutting feed rate (X/Y/Z axis)          | mm/min | 10000             | 10000             | 10000             | 10000             | 11. Arm-type tool changer                        | 11. Spindle and ball screw thermal deformation compensation |
| Ball screw (X/Y/Z axis)                 | mm     | Ø40/12            | Ø50/10            | Ø50/10            | Ø50/10            | 12. Direct-drive spindle                         | 12. Rotating view window                                    |
| Linear Guideway                         | mm     | 45/55*4/45        | 55/45*4/55        | 55/45*4/55        | 55/45*4/55        | 13. Spindle oil cooling system                   | 13. Ultra-precision CO-grade ball screws                    |
| Tool shank type                         | type   | BT50              | Bt50              | Bt50              | Bt50              | 14. Spindle and cutting air blowers              | 14. Optimized structure, better castings, increased weight  |
| Tool magazine capacity                  | pcs    | 24                | 24                | 24                | 24                | 15. X/Y/Z axis rolling guides (P-class)          | 15. Oil mist collector                                      |
| Max. tool dia.(adjacent/no adjacent)    | mm     | Ø110/Ø220         | Ø110/Ø220         | Ø110/Ø220         | Ø110/Ø220         | 16. X/Y/Z axis ball screws (C-class)             | 16. X/Y/Z axis Heidenhain grating scale                     |
| Max. tool length                        | mm     | 350               | 350               | 350               | 350               | 17. Cutting coolant system                       | 17. Renisawh workpiece measurement                          |
| Max. tool weight                        | kg     | 15                | 15                | 15                | 15                | 18. Basic toolbox                                | OMP40-2/RMP40                                               |
| Tool change method                      | type   | arm type          | arm type          | arm type          | arm type          | 19. Chain-type automatic chip conveyor + trolley | 18. Spindle circular sprayer                                |
| Tool change time (tool to tool)         | sec.   | 3                 | 3                 | 3                 | 3                 | 20. Oil-water separator                          | 19. Chip conveyor (scraper or spiral type)                  |
| Spindle drive type                      | -      | Belt              | Belt              | Belt              | Belt              | 21. 10.4-inch color screen                       | 20. FANUC Oi-MF CNC system                                  |
| Spindle speed                           | rpm    | 8000              | 8000              | 8000              | 8000              | 22. Automatic centralized lubrication system     |                                                             |
| Main motor power S1/S6 25%              | kw     | 22/33 (22/33)     | 22/33 (22/33)     | 22/33 (22/33)     | 22/33 (22/33)     | 23. Air gun + coolant gun                        |                                                             |
| Main motor torque S1/S6 25%             | Nm     | 140/260 (210/380) | 140/260 (210/380) | 140/260 (210/380) | 140/260 (210/380) | 24. Electrical cabinet air conditioner           |                                                             |
| X/Y/Z axis feeding motor power          | kw     | 3.8/4.9/4.9       | 3.8/4.9/4.9       | 3.8/4.9/4.9       | 3.8/4.9/4.9       | 25. Siemens 828D system                          |                                                             |
| X/Y/Z axis feeding motor torque         | Nm     | 18/27/27          | 18/27/27          | 18/27/27          | 18/27/27          |                                                  |                                                             |
| Turning coolant motor power             | kw     | 1.0 + 1.0         | 1.0 + 1.0         | 1.0 + 1.0         | 1.0 + 1.0         |                                                  |                                                             |
| Required air pressure                   | kg/cm2 | 6.5               | 6.5               | 6.5               | 6.5               |                                                  |                                                             |
| Required power                          | kva    | 35                | 35                | 35                | 35                |                                                  |                                                             |
| X/Y/Z axis positioning accuracy         | mm     | 0.008             | 0.009             | 0.009             | 0.009             |                                                  |                                                             |
| X/Y/Z axis repositioning accuracy       | mm     | 0.005             | 0.006             | 0.006             | 0.006             |                                                  |                                                             |
| Machine weight                          | kg     | 7500              | 8000              | 9500              | 10000             |                                                  |                                                             |
| Machine size                            | mm     | 3700x2900x3300    | 4000x3300x3550    | 4100x3300x3550    | 4300x3400x3550    |                                                  |                                                             |
| CNC control                             | -      | SIEMENS 828D      | SIEMENS 828D      | SIEMENS 828D      | SIEMENS 828D      |                                                  |                                                             |

# UV series

## Swivel Head 5-axis Machining Center

**UB 1300C  
UB 2000C**

**UB 1800C**



## CHARACTERISTICS

EUMASEIKI UV series dynamic, accurate, compact 5-axis machining center is developed base on EV series 3 axis machining center which the cross saddle fixing an 5-axis tilting rotary table, seamlessly operate along both horizontal and vertical rotary table in multiple directions. It is dedicated to drilling, tapping and milling for the production of small and medium series of components for precision mechanics, watchmaking, medical technology, electronics and general mechanics.

- Rigid and stable construction for high speed machining
- Highly compact machine with reduced foot print
- High dynamics and accurate machining
- Fixed structure and 3 linear axes on tools to allow high rigidity and dynamism
- Optimized workpiece volume compared to travels
- High spindle acceleration, feed rate, high acceleration on axes, fast tool changing time
- Chips evacuation integrated in bed structure

| Specification                                                | unit   | UV-260         | UV-320         | UV-400         |
|--------------------------------------------------------------|--------|----------------|----------------|----------------|
| X/Y/Z axis Travel                                            | mm     | 500/500/450    | 550/550/500    | 500/650/400    |
| Distance (spindle nose to table)                             | mm     | 40-490         | 50-550         | 150-550        |
| Worktable size                                               | mm     | Ø260           | Ø320           | Ø400           |
| C axis rotation angle                                        | degree | 360°           | 360°           | 360°           |
| A axis rotation angle                                        | degree | -110°~+110°    | -110°~+110°    | -110°~+110°    |
| A axis motor power/rated torque                              | -      | 4.56kw/270Nm   | 5.7kw/380Nm    | 15.9kw/780Nm   |
| C axis motor power/rated torque                              | -      | 2.6kw/120Nm    | 4.56kw/150Nm   | 7.6kw/230Nm    |
| A/C axis speed                                               | rpm    | 150/200        | 100/150        | 100/150        |
| Max. load of the worktable                                   | kg     | 60             | 60             | 100            |
| T-slot size                                                  | mm     | 12H7/18H7      | 14H7           | 14H7           |
| Spindle speed                                                | rpm    | 12000          | 12000          | 12000          |
| Spindle taper                                                | -      | ISO40          | ISO40          | ISO40          |
| Fast feed speed (X/Y/Z axis)                                 | m/min  | 24/24/24       | 24/24/24       | 24/24/24       |
| Cutting feed speed (X/Y/Z axis)                              | mm/min | 1-12000        | 1-12000        | 1-12000        |
| Tool shank                                                   | -      | BT40           | BT40           | BT40           |
| Tool magazine                                                | pcs    | 24             | 24             | 24             |
| Maximum tool diameter                                        | mm     | Ø76/Ø150       | Ø76/Ø150       | Ø76/Ø150       |
| Maximum tool length                                          | mm     | 250            | 250            | 250            |
| Maximum tool weight                                          | kg     | 8              | 8              | 8              |
| Tool changing method                                         | -      | arm type       | arm type       | arm type       |
| Tool changing time (tool to tool)                            | sec.   | 1.5            | 1.5            | 1.5            |
| Main motor power (S1-S6-40%)                                 | kw     | 11/20          | 11/20          | 11/20          |
| Spindle torque (S1-S6-40%)                                   | Nm     | 52.5/95.5      | 52.5/95.5      | 52.5/95.5      |
| X/Y/Z axis feed motor power                                  | kw     | 2.0/3.0/3.0    | 3.0/3.0/3.0    | 3.0/3.0/3.0    |
| Cutting coolant motor power                                  | kw     | 0.75+0.75      | 0.75+0.75      | 0.75+0.75      |
| Air pressure requirement                                     | kg/cm2 | 6              | 6              | 6              |
| Required power capacity                                      | kva    | 30             | 30             | 30             |
| X/Y/Z positioning accuracy VDI3441                           | mm     | 0.007          | 0.007          | 0.007          |
| X/Y/Z repositioning accuracy VDI3441                         | mm     | 0.005          | 0.005          | 0.005          |
| A axis (tilting) / C axis rotating division accuracy VDI3441 | sec.   | ±20/±20        | ±20/±20        | ±10/±10        |
| A/C axis repeat positioning accuracy VDI3441                 | sec.   | ±4/±4          | ±4/±4          | ±4/±4          |
| Machine size                                                 | mm     | 2000x2400x2300 | 2500x3150x2900 | 2700x4000x2900 |
| Machine weight                                               | kg     | 4200           | 5200           | 7800           |
| CNC control                                                  | -      | SYNTEC220MA-5  | SYNTEC220MA-5  | SYNTEC220MA-5  |

| Standard Configuration                          | Option Configuration                       |
|-------------------------------------------------|--------------------------------------------|
| 1. SYNTEC 220MA-5                               | 1. Siemens ONE system                      |
| 2. Arm type automatic 24-tool magazine          | 2. A/C axis circle encoder                 |
| 3. Spindle speed 12000rpm BT40                  | 3. Tool setter Renishaw TS27R/NC4          |
| 4. Cutting coolant system                       | 4. Rotating window                         |
| 5. Spindle blowing device                       | 5. Workpiece measurement Renishaw RMP40/60 |
| 6. Cleaning spray gun                           | 6. X/Y/Z axis grating scale                |
| 7. Manual pulse generator                       | 7. Spindle inner coolant 20/40/50/70bar    |
| 8. Work light                                   | 8. Oil mist collector                      |
| 9. Mechanical abnormal status indicator light   | 9. Automatic door                          |
| 10. Adjustment horizontal bolts and base block  | 10. Oil-water separator                    |
| 11. Air gun / Coolant gun                       |                                            |
| 12. Chip conveyor + cart                        |                                            |
| 13. Tool measurement                            |                                            |
| 14. Spindle oil cooling                         |                                            |
| 15. Fully enclosed protective cover             |                                            |
| 16. A/C axis Ø260mm 5-axis tilting rotary table |                                            |
| 17. 3 axis linear roller guideway               |                                            |
| 18. Automatic centralized lubrication system    |                                            |
| 19. Chip flushing device                        |                                            |
| 20. Electrical cabinet air conditioner          |                                            |
| 21. AC220V interface and USB interface          |                                            |
| 22. Pause and completion indicator light        |                                            |
| 23. Basic tool box                              |                                            |
| 24. Workpiece measurement                       |                                            |
| 25. Transformer                                 |                                            |
| 26. A/C axis time scale                         |                                            |

# EH series

## 4-axis Horizontal Machining Center

EH-500  
EH-630

EH800S  
EH1000S



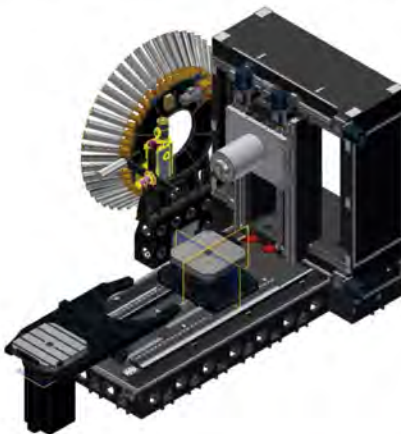
- EH50/EH63
- High performance
- High strength
- High rigidity



- High dynamic and thermal stability
- High accuracy for long terms
- High reliability

## CHARACTERISTICS

EUMASEIKI CNC horizontal machining center is a highly productive machine for complex parts machining like molds,dies,boxes and valve body types components which the material can be made of steel,cast iron or light metal alloys. The unique T-shaped structure could equip by single or double pallets with the 3 mutually perpendicular coordinate axes X, Y, Z to form a fully closed-loop processing for drilling, boring, reaming and tapping operations whether it need high-speed or high-torque cutting,from mass production to small batch production.It is characterized as high dynamic and thermal stability for high precision machining in the foundry, plastics, automotive and aerospace industries.



- EH80S/EH100S/EH125S



| Specification                                        | unit   | EH-500               | EH-630              | EH-800S             | EH-1000S            |
|------------------------------------------------------|--------|----------------------|---------------------|---------------------|---------------------|
| X-axis travel (column transverse left and right)     | mm     | 800                  | 1050                | 1400                | 1700                |
| Y-axis travel (spindle head up and down)             | mm     | 700                  | 900                 | 1200                | 1400                |
| Z-axis travel (worktable forward and backward)       | mm     | 680                  | 1000                | 1350                | 1500                |
| Minimum 3 axis resolution                            | mm     | 0.001                | 0.001               | 0.001               | 0.001               |
| Distance from spindle end to NC worktable (vertical) | mm     | 90-790               | 100-1000            | 100-1450            | 250-1750            |
| Distance from spindle to NC worktable (horizontal)   | mm     | 60-740               | 100-1100            | 50-1250             | 100-1500            |
| B-axis workable surface size                         | mm     | 2-500x500            | 2-630x630           | 2-800x800           | 2-1000x1000         |
| B-axis worktable center hole diameter                | mm     | /                    | Ø55H7               | Ø50H7               | Ø50H7               |
| B-axis worktable maximum rotation diameter           | mm     | Ø950*2               | Ø1010               | Ø1450               | Ø1300               |
| B-axis minimum division degree/Rotation angle        | deg    | 0.001/0~360          | 0.001/0~360         | 0.001/0~360         | 0.001/0~360         |
| B-axis worktable maximum load capacity               | kg     | 600                  | 1200                | 2000                | 2000                |
| Spindle speed                                        | rpm    | 10000                | 6000                | 6000                | 6000                |
| Spindle taper                                        | -      | BT40                 | SK50                | SK50                | BT50                |
| Fast feed rate (X/Y/Z)                               | m/min  | 24                   | 30/30/30            | 30/30/30            | 20/20/20            |
| Cutting feed rate (X/Y/Z)                            | mm/min | 1-10000              | 1-10000             | 1-10000             | 1-10000             |
| Tool holder type                                     | -      | BT40                 | SK50                | SK50                | BT50                |
| Tool magazine capacity                               | pcs    | 60                   | 40                  | 60                  | 45                  |
| Maximum tool diameter                                | mm     | Ø95                  | Ø125/Ø250           | Ø125/Ø250           | Ø125/Ø250           |
| Maximum tool length/weight                           | -      | 300mm/8kg            | 300mm/25kg          | 550mm/25kg          | 550mm/25kg          |
| Tool changing method/ changing time (tool to tool)   | -      | arm type/5 sec.      | arm type/5 sec.     | arm type/6 sec.     | arm type/ 7.6 sec.  |
| Spindle power                                        | kw     | 11/15 (S1/S6 25%)    | 15/18.5 (S1/S3 60%) | 22/26 (S1/S3 60%)   | 30/37 (S1/S6 60%)   |
| Spindle torque                                       | Nm     | 52.5/95.5(S1/S6 25%) | 143/236(S1/S3 60%)  | 140/223(S1/S3 60%)  | 249/307 (S1/S6 60%) |
| Spindle torque with BF reduction gearbox             | Nm     | /                    | /                   | 420/669 (S1/S3 60%) | 789/973 (S1/S6 60%) |
| X/Y/Z axis feed motor power                          | kw     | 3/3/3                | 3/3/3               | 4.3x2/4.3x2/5.2     | 4.3x2/5.2/5.2       |
| X/Y/Z axis feed motor torque                         | Nm     | 27/27/27             | 36/36/36            | 27x2/27x2/36        | 27x2/36/36          |
| Cutting coolant motor power                          | kw     | 1+1                  | 1.51+1.51           | 1.51+1.51           | 1.51+1.51           |
| Water tank capacity                                  | L      | 600                  | 600                 | 600                 | 600                 |
| Air pressure require / Hydraulic station pressure    | kg/cm² | 6/70                 | 6/70                | 6/70                | 6/70                |
| Required power capacity                              | kva    | 50                   | 50                  | 120                 | 125                 |
| X/Y/Z axis positioning / repositioning accuracy      | mm     | 0.005/0.003          | ±0.008/±0.006       | 0.01/0.006          | 0.012/0.008         |
| B axis positioning accuracy/repositioning accuracy   | ''     | 15/±4                | 15/±4               | 15/±4               | 15/±4               |
| Machine size                                         | mm     | 3000x3300x3200       | 3500x7100x3200      | 7100x4000x3700      | 9100x5500x3900      |
| Machine weight                                       | kg     | 9000                 | 22000               | 27000               | 35000               |
| CNC control                                          | -      | FANUC Oi-MF          | FANUC Oi-MF         | FANUC Oi-MF         | FANUC Oi-MF         |

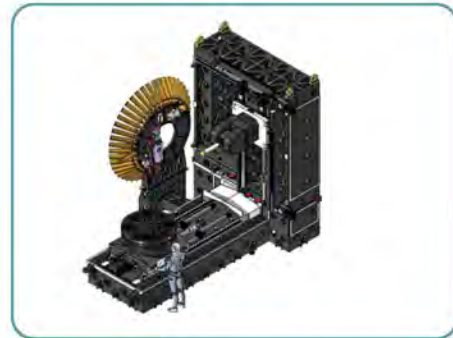
| Standard Configuration                                    | Option Configuration                              |
|-----------------------------------------------------------|---------------------------------------------------|
| 1. Fully enclosed protective cover                        | 1. X/Y/Z axis grating scale                       |
| 2. Automatic tool magazine + control panel                | 2. CO/C1 ultra high accuracy ball screw           |
| 3. 3 axis THK/PMI linear roller guideway                  | 3. Chip flushing system                           |
| 4. Cutting coolant system                                 | 4. Oil mist collector                             |
| 5. Spindle blowing device                                 | 5. Renishaw RMP40/60 workpiece measurement system |
| 6. Spindle oil lubrication system                         | 6. Two way/four way oil distributor for worktable |
| 7. Manual pulse generator                                 | 7. One-year spare parts                           |
| 8. Work lights                                            | 8. BF gearbox                                     |
| 9. Fault indicator light                                  | 9. UP class linear guideway                       |
| 10. Basic tool box                                        | 10. Spindle inner coolant                         |
| 11. Automatic chain chip conveyor + cart                  | 11. Rotating window                               |
| 12. FANUC Oi MF plus with 15" screen                      | 12. Renishaw laser tool setter NC4/TS27R          |
| 13. Spindle oil cooler                                    | 13. Emulsion paper bag filter                     |
| 14. 3 axis C3 high precision ball screw                   |                                                   |
| 15. Automatic centralized lubrication                     |                                                   |
| 16. High pressure water gun + air gun                     |                                                   |
| 17. Electrical cabinet air conditioner                    |                                                   |
| 18. USB interface, Ethernet port                          |                                                   |
| 19. Pause and work completion light                       |                                                   |
| 20. Automatic power cut-off M30                           |                                                   |
| 21. Leveling bolts and foundation blocks                  |                                                   |
| 22. Oil-water separator                                   |                                                   |
| 23. Noise level less than 80dB in operation               |                                                   |
| 24. Axis position accuracy in accordance with VDI/DGQ3441 |                                                   |

# HU series

## 5-axis Horizontal Machining Center

HU-1250  
HU-1600

HU-1400



## CHARACTERISTICS

The EUMASEIKI HU series universal 5-axis horizontal machining center is in the highly stable European design concepts with maximum precision, performance and efficiency allow the highest machining performance and maximum precision with high dynamics. Complete machining with milling and turning on one machine in on set-up. NC-controlled swiveling milling head as A axis for 5-sided machining and simultaneous 5-axis milling. From hard-to-cut materials such as those found in the aerospace sector, to the highest requirements for surface quality such as in tool and mould making.

- Higher stiffness thanks to box in box European design concept
- Wide linear guides and large drives
- Various technology integration possible: Milling, turning, gear cutting
- Full cooling of the axis drives, Comprehensive cooling measures
- A-axis with gears or DD motor, max torque up to 5000Nm
- Table size from 1250mm to 1600mm, loading weight up to 6 tons
- Maximum productivity through complete machining on one machine

| Specification                                               | unit   | HU1250             | HU1400             | HU1600             | Standard Configuration                                                        | Option Configuration                                                              |
|-------------------------------------------------------------|--------|--------------------|--------------------|--------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| X/Y/Z axis travel (minimum resolution 0.001)                | mm     | 1660/1600/1600     | 1660/1210/1300     | 2200/1900/2200     | 1. Fully enclosed protective cover                                            | 1. X/Y/Z axis HEIDENHAIN grating scale                                            |
| Distance from spindle end to CNC worktable (vertical)       | mm     | 100-1700           | 150-1360           | -190-1710          | 2. Coolant thermostatically controlled and equipped with a temperature sensor | 2. Oil mist and dust collection device                                            |
| Distance from spindle to CNC worktable (horizontal)         | mm     | 0-1600             | 100-1310           | 100-2000           | 3. Spindle air blowing device                                                 | 3. Workpiece measuring & tool setting cycles                                      |
| Max. workpiece height/spindle center above CNC table        | mm     | 1300/30            | 1000/30            | 1500/30            | 4. High-pressure water & air supply unit                                      | 4. Machine condition monitoring system                                            |
| B-axis table size/B axis central hole diameter              | mm     | Ø1250/Ø180         | Ø1400/Ø180         | Ø1600/Ø180         | 5. USB interface, Ethernet port                                               | 5. Renishaw NC4 laser tool-setting sensor                                         |
| Width of T-slot on B-axis worktable/max load                | mm     | 24H8/3000          | 24H8/4000          | 24H8/6000          | 6. Fault/stop/completion indicator light                                      | 6. Spindle center water release system 40bar                                      |
| B-axis worktable maximum rotation diameter                  | mm     | Ø1500              | Ø1550              | Ø1850              | 7. SIEMENS ONE System with 15 inch monitor                                    | 7. Rotating window                                                                |
| B-axis minimum division degree/Rotation angle               | deg    | 0.001/0~360        | 0.001/0~360        | 0.001/0~360        | 8. HEIDENHAIN RCN2511 optical grating along A-axis/minimum division 0.001°    | 8. RTCP 5-axis communication detection and correction cycle program               |
| A-axis rotation angle/Minimum division                      | deg    | ±110/0.001         | ±110/0.001         | ±110/0.001         | 9. X/Y/Z-axis linear ball screw (Japan) THK                                   | 9. PLC data interface for automated manufacturing system with OPC-UA license      |
| Spindle speed / Spindle taper                               | -      | 3000rpm/ISO 50     | 3000rpm/ISO 50     | 3000rpm/ISO 50     | 10. HEIDENHAIN RCN2310B                                                       | 10. 3D machine model, VERICUT simulation & corresponding UGCAM post-process files |
| Fast feed rate (X/Y/Z)                                      | m/min  | 36/36/36           | 36/36/36           | 36/36/30           | 11. Coolant level warning and sound alert                                     | 11. Oil-water separation system device                                            |
| Cutting feed rate (X/Y/Z)                                   | mm/min | 1-10000            | 1-10000            | 1-10000            | 12. Spindle thermal compensation and direct cooling lubrication system        | 12. Tool magazine with automatic tool break detection                             |
| Tool magazine capacity / Tool holder type                   | pcs    | 45/BT50            | 45/BT50            | 45/BT50            | 13. Refrigeration A/C electrical unit                                         | 13. OMATIVE adaptive processing software                                          |
| Minimum tool diameter (adjacent/without adjacent)           | mm     | Ø110/Ø200          | Ø110/Ø200          | Ø110/Ø200          | 14. Work area lighting                                                        | 14. Renishaw RMP60 workpiece measurement                                          |
| Maximum tool length/weight                                  | -      | 350mm/20kg         | 350mm/20kg         | 350mm/20kg         | 15. Automatic energy switch M30                                               |                                                                                   |
| Tool changing method/ changing time (tool to tool)          | -      | arm type/5 sec.    | arm type/5 sec.    | arm type/6 sec.    | 16. Automatic chip removal and collection                                     |                                                                                   |
| Spindle power (S1/S6 25%)                                   | kw     | 22/41.8            | 22/41.8            | 22/41.8            | 17. 45-tool ATC with tool arm                                                 |                                                                                   |
| Spindle torque (S1/S6 25%) with gear box                    | Nm     | 840/1596           | 840/1596           | 840/1596           | 18. External cutting coolant system 4bar                                      |                                                                                   |
| X/Y/Z axis feed motor power                                 | kw     | 4.4x2/4.4x2/8.2    | 4.4x2/4.4x2/8.2    | 4.4x2/4.4x2/8.2    | 19. Automatic centralized lubrication system                                  |                                                                                   |
| X/Y/Z axis feed motor torque                                | Nm     | 36x2/36x2/48       | 36x2/36x2/48       | 36x2/36x2/48       | 20. Chip cleaning device                                                      |                                                                                   |
| A-axis feed motor                                           | /      | 3.1kw, 3987/5000Nm | 3.1kw, 3987/5000Nm | 3.1kw, 3987/5000Nm | 21. Manual pulse generator                                                    |                                                                                   |
| A-axis locking torque                                       | Nm     | 6000               | 6000               | 6000               | 22. Tool magazine side control panel                                          |                                                                                   |
| A-axis speed/distance from A axis to swing axis             | -      | 10rpm/270mm        | 10rpm/270mm        | 10rpm/270mm        | 23. Leveling bolts & support blocks / tool box                                |                                                                                   |
| B-axis feed motor                                           | -      | 37.7kw/6000Nm      | 37.7kw/6000Nm      | 37.7kw/6000Nm      |                                                                               |                                                                                   |
| B-axis locking torque/B-axis speed                          | -      | 10000Nm/10rpm      | 10000Nm/10rpm      | 10000Nm/10rpm      |                                                                               |                                                                                   |
| Reduced engine coolant power/coolant tank capacity          | -      | 1.51+1.51kw/600L   | 1.51+1.51kw/600L   | 1.51+1.51kw/600L   |                                                                               |                                                                                   |
| Air pressure require / Hydraulic station pressure           | kg/cm² | 6/70               | 6/100              | 6/100              |                                                                               |                                                                                   |
| Required power capacity                                     | kva    | 90                 | 90                 | 90                 |                                                                               |                                                                                   |
| X/Y/Z axis positioning / repositioning accuracy             | mm     | 0.008/0.005        | 0.008/0.005        | 0.01/0.006         |                                                                               |                                                                                   |
| A/B axis positioning accuracy/repositioning accuracy        | ''     | 8/4                | 10/6               | 10/6               |                                                                               |                                                                                   |
| Table axial end&radial runout /5-axis linked RTCP precision | mm     | 0.02/±0.025        | 0.02/±0.025        | 0.02/±0.025        |                                                                               |                                                                                   |
| Machine size                                                | mm     | 4800x5500x5200     | 5900x5400x4500     | 10600x6500x5200    |                                                                               |                                                                                   |
| Machine weight                                              | kg     | 33000              | 33000              | 52000              |                                                                               |                                                                                   |
| CNC control                                                 | -      | SIEMENS ONE        | SIEMENS ONE        | SIEMENS ONE        |                                                                               |                                                                                   |

# DU series

## 5-axis Vertical Machining Center

DU5-500

DU5-650



## CHARACTERISTICS

EUMASEIKI BC axis 5-axis vertical machining center is a modern and classic 5-axis milling machine due to the European well-thought compact design, universally applicable, user-friendly. Perfect accessibility all the components and maximum flexibility the 5-axis precision machining at excellent rigidity and highly dynamic accuracy. The rotary tilting table size at 500mm and 650mm, driven with torque motor and integrated along the X-axis perfectly for quick 5-axis simultaneous milling to achieving high-speed and high-precision machining of complex parts.

- Marble mineral bed body, more stable structure, ensuring long-lasting high-precision processing.
- Small footprint, large workspace, convenient access to workpieces
- Adopting a hydraulic rotating shaft tightening method provides greater clamping force
- B-axis DO range motor,  $\pm 120^\circ$  motion provides a larger machining range
- Larger roller guideway provide bigger load-bearing capacity
- The overall cast iron bed is analyzed using finite element analysis (FEA)
- Adopting the German VDI-3441 standard inspection standard to maintain sufficient accuracy reserve
- 12000rpm direct drive spindle, 15000rpm imported electric spindle for choice
- Larger protective doors make it easier to load/unload workpieces
- CO/C1 high-precision ball screw, UP grade guideway, high-precision machining

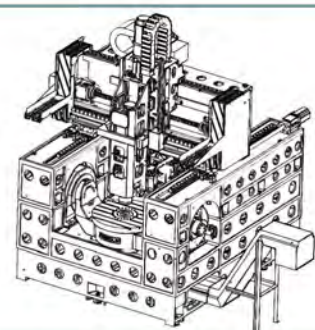


| Specification                                        | unit   | DU-500                           | DU-500                           | DU-650                           | DU-650                           | Standard Configuration                       | Option Configuration                                                 |
|------------------------------------------------------|--------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------------------|----------------------------------------------------------------------|
| X/Y/Z axis travel                                    | mm     | 520/450/420                      | 520/450/420                      | 620/520/460                      | 620/520/460                      | 1. SIEMENS ONE 5-axis simultaneous           | 1. Renishaw tool measurement TR27S/NC4                               |
| B/C axis swing range (drive mode: direct)            | degree | $\pm 120/360$ (0.001)            | $\pm 120/360$ (0.001)            | $\pm 120/360$ (0.001)            | $\pm 120$                        | 2. Full protective cover/safety door lock    | 2. Renishaw workpiece measurement device RPM/DMP40                   |
| Distance from spindle to worktable                   | mm     | 150-570                          | 150-570                          | 150-610                          | 150-610                          | 3. Automatic tool magazine 32 tool position  | 3. German Kessler Electrical spindle 15000rpm                        |
| Worktable size/max. working space                    | mm     | $\varnothing 500/540^*R480$      | $\varnothing 500/540^*R480$      | $\varnothing 650/880$            | $\varnothing 650/880$            | 4. X/Y/Z axis C3 ball screw/ roller guideway | 4. CO/C1 ultra high accuracy ball screw                              |
| T-slot width * number                                | -      | 6-12H8                           | 6-12H8                           | 5-14H8/H11                       | 5-14H8/H11                       | 5. X/Y/Z HEIDENHAIN grating scale            | 5. Oil mist collector                                                |
| Max. load weight                                     | kg     | 200                              | 200                              | 300                              | 300                              | 6. B/C axis HEIDENHAIN circle encoder        | 6. Spindle inner coolant 20/30/50/70bar                              |
| B/C axis Maximum speed                               | rpm    | 60/100                           | 60/100                           | 60/100                           | 60/100                           | 7. B/C axis water cooling device             | 7. Automatic door                                                    |
| B/C axis rated torque                                | Nm     | 335/106                          | 335/106                          | 2000/596                         | 2000/596                         | 8. Cutting coolant system                    | 8. Rotating window                                                   |
| B/C axis Maximum torque                              | Nm     | 1680/840                         | 1680/840                         | 3500/990                         | 3500/990                         | 9. Chip conveyor + chip collector            | 9. Magnetic separation chip conveyor                                 |
| Maximum spindle speed/spindle taper (direct spindle) | rpm    | 15000/HSK-A63                    | 15000/HSK-A63                    | 15000/HSK-A63                    | 15000/HSK-A63                    | 10. Air gun + water gun                      | 10. Anti-collision system                                            |
| Direct spindle power (S1/S6 40%)                     | kw     | 16.8/23.5                        | 18/25.2                          | 16.8/23.5                        | 18/25.2                          | 11. Automatic central lubrication system     | 11. Shopmill                                                         |
| Direct spindle output torque (S1/S6 40%)             | Nm     | 53/100                           | 82/118                           | 53/100                           | 82/118                           | 12. Hydraulic station system                 | 12. NX Post-processor                                                |
| Electrical spindle speed / spindle taper             | rpm    | 15000/HSK-A63                    | 20000/HSK-A63                    | 15000/HSK-A63                    | 20000/HSK-A63                    | 13. Oil-water separator                      | 13. 5 axis coordinate conversation vector measurement and correction |
| Electrical spindle power                             | kw     | 36/50 (S1/MAX)                   | 31/37.2 (S1/S6 60%)              | 36/50 (S1/MAX)                   | 31/37.2 (S1/MAX)                 | 14. Spindle blowing device                   | 14. Top full cover                                                   |
| Electrical spindle output torque                     | Nm     | 159/220 (S1/MAX)                 | 100/120 (S1/S6 60%)              | 159/220 (S1/MAX)                 | 100/120 (S1/MAX)                 | 15. Portable electronic handwheel            |                                                                      |
| X/Y/Z axis rapid movement speed                      | m/min  | 42                               | 42                               | 42                               | 42                               | 16. USB and DNC Ethernet interface           |                                                                      |
| X/Y/Z axis feed motor power                          | kw     | 3.1/4.29/4.29                    | 3.1/4.29/4.29                    | 3.1/4.29/4.29                    | 3.1/4.29/4.29                    | 17. Cabinet air conditioner                  |                                                                      |
| Max. tool length/weight                              | -      | 300mm/8kg                        | 300mm/8kg                        | 300mm/8kg                        | 300mm/8kg                        | 18. Marble mineral casting body              |                                                                      |
| Max. tool diameter                                   | mm     | $\varnothing 75/\varnothing 150$ | $\varnothing 75/\varnothing 150$ | $\varnothing 75/\varnothing 150$ | $\varnothing 75/\varnothing 150$ | 19. Work light / 3-color light               |                                                                      |
| Cutting coolant motor power                          | kw     | 1.0+1.0                          | 1.0+1.0                          | 1.0+1.0                          | 1.0+1.0                          | 20. Automatic power cut M30                  |                                                                      |
| Air pressure requirement                             | kg/cm2 | 5-8                              | 5-8                              | 5-8                              | 5-8                              | 21. Leveling bolts & support blocks          |                                                                      |
| Coolant pump pressure                                | bar    | 4                                | 4                                | 4                                | 4                                | 22. Basic Tool box                           |                                                                      |
| Water tank capacity                                  | L      | 180                              | 180                              | 240                              | 240                              |                                              |                                                                      |
| Required power capacity                              | kva    | 50                               | 50                               | 65                               | 65                               |                                              |                                                                      |
| X/Y/Z axis positioning / repositioning accuracy      | mm     | 0.008/0.005                      | 0.008/0.005                      | 0.008/0.004                      | 0.008/0.004                      |                                              |                                                                      |
| B/C axis positioning accuracy/repositioning accuracy | "      | 10/4                             | 10/4                             | 10/4                             | 10/4                             |                                              |                                                                      |
| Machine size                                         | mm     | 2840x3000x2900                   | 2840x3000x2900                   | 2850x3354x2995                   | 2850x3354x2995                   |                                              |                                                                      |
| Machine weight                                       | kg     | 6000                             | 6000                             | 6800                             | 6800                             |                                              |                                                                      |
| CNC control                                          | -      | SIEMENS ONE                      | SIEMENS ONE                      |                                  | SIEMENS ONE                      |                                              |                                                                      |

# DX series

## Gantry Cradle 5-axis Machining Center

**DX-630**  
**DX-800**



## CHARACTERISTICS

EUMASEIKI A/C axis CNC 5-axis machining center originating from European design concepts, is a multifunctional machining center with upper gantry-type and trapezoid structure of crossbeam design. Excellent rigidity frame body, swing table dual arm support. Both torque motor controlled A/C axis tilting table size 630/800mm, Direct drive or electrical spindle is both available to make heavy cutting and high dynamic accuracy 5-axis milling and turning operation for complicated technologically demanding workpieces. It is intended for production of metallic parts like pressing, plastic making, automotive and aviation industry.

- High accuracy at machining
- Easy loading of big workpieces
- Favourable ratio machine area/workpiece size
- Machining in 5-axes
- Milling and turning technology
- High dynamics and temperature stability

| Specification                                        | unit   | DX-630                | DX-800                |
|------------------------------------------------------|--------|-----------------------|-----------------------|
| X/Y/Z axis travel                                    | mm     | 700/700/500           | 800/900/620           |
| Max. swing diameter of worktable                     | mm     | 800                   | 800/1000              |
| Max. load on worktable                               | kg     | 800                   | 850/1200              |
| Distance (spindle nose to worktable)                 | mm     | 120-620               | 120-740               |
| Worktable surface diameter/T-slot size               | mm     | Ø630/14H8             | Ø800/14H8             |
| Direct drive spindle speed                           | rpm    | 15000/HSK A63 KENTURN | 15000/HSK A63 KENTURN |
| Direct spindle main motor power (S1/S6-40%)          | kw     | 22/33                 | 22/33                 |
| Direct spindle main motor torque (S1/S6-40%)         | Nm     | 140/260               | 140/260               |
| Electrical spindle speed                             | rpm    | 20000/HSK A63 CELLS   | 20000/HSK A63 CELLS   |
| Electrical spindle motor power                       | kw     | 31/37 (S1/S6 60%)     | 31/37 (S1/S6 60%)     |
| Electrical spindle motor torque                      | Nm     | 100/120 (S1/S6 60%)   | 100/120 (S1/S6 60%)   |
| X/Y/Z axis rapid traverse speed                      | m/min  | 36/36/36              | 36/36/36              |
| X/Y/Z axis cutting feed speed                        | mm/min | 1-20000               | 1-20000               |
| X/Y/Z axis feed motor power                          | kw     | 4.3/3.1x2/4.3         | 4.3/3.1x2/4.3         |
| A-axis travel (tilting axis)                         | degree | ±120 single drive     | ±120 double drive     |
| C axis travel (rotary axis)                          | degree | 360                   | 360                   |
| A/C axis speed                                       | rpm    | 60/100                | 60/100                |
| A/C axis motor power                                 | kw     | 6.3/8.11              | 15x2/15               |
| A/C axis rated torque                                | Nm     | 1290/600              | 2000x2/1800           |
| A/C axis maximum torque                              | Nm     | 2400/1100             | 3900x2/2230           |
| Tool capacity / tool change time (tool to tool)      | pcs    | 40pcs, 5sec.          | 40pcs, 5sec.          |
| Max. tool diameter                                   | mm     | Ø75/Ø120              | Ø75/Ø120              |
| Max. tool length/weight                              | -      | 300mm/8kg             | 300mm/8kg             |
| Air pressure requirement                             | kg/cm2 | 6                     | 6                     |
| Coolant pump pressure                                | bar    | 4                     | 4                     |
| Water tank capacity                                  | L      | 250                   | 300                   |
| Coolant motor power                                  | kw     | 1.0+1.0               | 1.0+1.0               |
| Air pressure flow rate                               | L/min  | 500                   | 500                   |
| Required power capacity                              | kva    | 60                    | 90                    |
| X/Y/Z axis positioning / repositioning accuracy      | mm     | 0.008/0.004           | 0.008/0.004           |
| B/C axis positioning accuracy/repositioning accuracy | "      | 10/4                  | 10/4                  |
| Machine size                                         | mm     | 5200x3300x3400        | 5500x3600x3750        |
| Machine weight                                       | kg     | 16000                 | 23000                 |
| CNC control                                          | -      | SIEMENS ONE           | SIEMENS ONE           |

| Standard Configuration                            | Option Configuration                                      |
|---------------------------------------------------|-----------------------------------------------------------|
| 1. SIEMENS ONE with 15 inch color screen          | 1. 80 tool magazine                                       |
| 2. Full protective cover/safety door lock         | 2. Tool setter: Renishaw TS27R/NC4                        |
| 3. Automatic tool changer with 40 tools           | 3. Workpiece measurement Renishaw OPM40/OPM60/RMP40/RMP60 |
| 4. THK/PMI linear roller guideway / ball screw    | 4. Spindle internal coolant 20/40/70bar                   |
| 5. A/C tilting table torque motor with dual drive | 5. Anti collision system                                  |
| 6. A/C axis HEIDENHAIN circular encoders          | 6. Spindle & screw temperature compensation               |
| 7. Spindle oil cooling / spindle water cooling    | 7. Magnetic separator                                     |
| 8. A/C axis water cooling device                  | 8. Oil mist collector                                     |
| 9. Cutting coolant system                         | 9. Top fully enclosed structure                           |
| 10. Chip flushing device                          | 10. Tool identification system (RFID function)            |
| 11. Oil water separator                           | 11. Rotating window                                       |
| 12. Chain plate automatic chip conveyor+cart      | 12. Automatic door                                        |
| 13. Cutting fluid cleaning spray gun and air gun  |                                                           |
| 14. Automatic centralized lubrication system      |                                                           |
| 15. Hydraulic station system                      |                                                           |
| 16. Spindle air blow device                       |                                                           |
| 17. Manual pulse generator                        |                                                           |
| 18. RS232C, USB, and DNC Ethernet interface       |                                                           |
| 19. LED work indicator light                      |                                                           |
| 20. 3-color light                                 |                                                           |
| 21. Automatic power-off (M30)                     |                                                           |
| 22. Basic toolbox                                 |                                                           |
| 23. Electrical cabinet air conditioner            |                                                           |
| 24. Leveling bolts and foundation blocks          |                                                           |
| 25. XYZ axis linear grating scale                 |                                                           |
| 26. One-year spare parts supply                   |                                                           |

# UB series

## Swivel Head 5-axis Machining Center

UB 1300C  
UB 2000C

UB 1800C



## CHARACTERISTICS

Eumaseiki travelling column swivel head with insert C-axis rotary table high-speed 5-axis CNC machining center offers maximum flexibility and maximum the table versatility to use the extra table space for secondary operations or 3-axis work. Capacity to machine a wide range of size and shapes in various materials. The flexible working area with travel distances of max. reach to 2,000mm in the X-axis, 900mm in the overhanging Y-axis and 800mm in the Z-axis.5-aixs simultaneous working with the powerful B-axis milling head and the integrated C-axis to achieve perfect operation performance.Eumaseiki technology resulting in the fastest cut with the best surface finish.Avery suitable machine for production in various sectors such as Aerospace, Energy, Automotive etc.

- Flexible modular construction and ergonomic, attractive design
- Available as 3, 4 or 5 axes version
- High-performance motor spindle
- Rigid linear roller guides size 55 (X-axis)
- Ultra high accuracy ball screws on the 3 axis, precise and quiet operation
- Integrated round table and B-axis with torque motors
- Flexible configuration of tool magazine systems
- State-of-the-art control systems SIEMENS One and HEIDENHAIN TNC 640

| Specification                                               | unit   | UB1300C           | UB1800C           | UB2000C           | Standard Configuration                          | Option Configuration                     |
|-------------------------------------------------------------|--------|-------------------|-------------------|-------------------|-------------------------------------------------|------------------------------------------|
| X/Y/Z axis travel                                           | mm     | 1300/560/560      | 1800/900/800      | 2000/900/800      | 1. Fully dynamic column structure design        | 1. Spindle inner coolant 20/40/70 bar    |
| Distance (spindle nose to table)                            | mm     | 100-860           | 100-900           | 100-900           | 2. C-axis circular encoder (HEIDENHAIN)         | 2. Renishaw workpiece measuring device   |
| Distance (spindle center to table)                          | mm     | 269.5-829.5       | 269.5-1069.5      | 269.5-1069.5      | 3. Cutting fluid cleaning spray gun and air gun | RPM40/RPM60                              |
| Rectangular table size/max. load                            | -      | 1500x560mm/1500kg | 2000x900mm/2000kg | 2500x900mm/3500kg | 4. Fully enclosed cover                         | 3. Renishaw tool setter NC4/TS27R        |
| T-slot dimension                                            | mm     | 14x100x5          | 22x150x5          | 18x150x5          | 5. Electric spindle water cooling device        | 4. Oil mist collector                    |
| Spindle taper /Spindle speed                                | -      | HSK-A63/12000rpm  | HSK-A63/12000rpm  | HSK-A63/12000rpm  | 6. Worktable lighting / 3 color light           | 5. Rotating window                       |
| Main motor power (S1/S6-40%)                                | kw     | 25.1/33.9         | 25.1/33.9         | 25.1/33.9         | 7. Automatic 40-tool magazine                   | 6. Heidenhain iTNC640 (5-axis linkage)   |
| Main motor torque (S1/S6-40%)                               | Nm     | 79.9/107.9        | 79.9/107.9        | 79.9/107.9        | 8. B-axis water cooling system device           | 7. Center calibration system (including  |
| B axis spindle heat tilt angle/minimum indexing             | degree | -120~-+120/0.001  | -120~-+120/0.001  | -120~-+120/0.001  | 9. Taiwan electric spindle                      | RENISHAW probe OMP60 + standard          |
| B axis speed (Heidenhain encoder circular grating)          | rpm    | 50                | 50                | 50                | 10. C-axis water cooling system device          | measuring ball + measurement software)   |
| B axis continuous torque/maximum torque                     | Nm     | 580/1160          | 580/1160          | 580/1160          | 11. Automatic power-off on M30                  | 8. NX post-processing                    |
| B axis braking torque (50bar oil pressure)/feed motor power | -      | 2400Nm/4.4kw      | 2400NM/4.4KW      | 2400NM/4.4KW      | 12. THK/PMI linear roller guides                | 9. Fully enclosed telescopic upper cover |
| C axis worktable diameter / rotation angle                  | -      | Ø500mm/360°       | Ø800mm/360°       | Ø800mm/360°       | 13. Cutting coolant system/chip flush device    |                                          |
| C axis worktable rotation speed (DD motor)/max.load         | -      | 100rpm/300kg      | 80rpm/1800kg      | 80rpm/1800kg      | 14. Manual pulse generator                      |                                          |
| C axis max.torque/rated torque                              | Nm     | 2400/1290         | 3600/2000         | 3600/2000         | 15. PMI/HIWIN C1-grade ball screws              |                                          |
| X/Y/Z axis rapid movement speed                             | m/min  | 36/36/32          | 24/30/30          | 20/30/30          | 16. Oil-water separator                         |                                          |
| X/Y/Z axis cutting speed                                    | mm/min | 1~10000           | 1~10000           | 1~10000           | 17. 2 USB ports, and Ethernet interface         |                                          |
| X/Y/Z axis feed motor power                                 | kw     | 4.3/4.3/4.3       | 7.7/5.2/5.2       | 7.7/4.4/4.4       | 18. Rectangular worktable (fixed worktable)     |                                          |
| Max. tool diameter                                          | Nm     | 27/27/27          | 48/36/36          | 48/36/36          | 19. Automatic centralized lubrication system    |                                          |
| Tool magazine capacity/tool change time (tool to tool)      | -      | 40pcs/5sec.       | 40pcs/5sec.       | 40pcs/5sec.       | 20. Electrical cabinet air conditioner          |                                          |
| Max. tool diameter (HSK-A63)                                | mm     | Ø76/Ø150          | Ø76/Ø150          | Ø76/Ø150          | 21. B-axis circular encoder (HEIDENHAIN)        |                                          |
| Max. tool length / weight                                   | -      | 300mm/8kg         | 300mm/8kg         | 300mm/8kg         | 22. Spindle air blowing device                  |                                          |
| Cutting coolant pump motor power                            | kw     | 0.75+0.75         | 0.75+0.75         | 0.75+0.75         | 23. Leveling bolts and blocks/ basic toolbox    |                                          |
| Air pressure requirement / Required power supply            | -      | 6kg/cm2/70kva     | 6kg/cm2/110kva    | 6kg/cm2/110kva    | 24. X/Y/Z axis grating scales                   |                                          |
| X/Y/Z axis positioning accuracy                             | mm     | 0.012             | 0.015             | 0.02/0.01/0.01    | 25. High-power hydraulic system                 |                                          |
| X/Y/Z axis repeat positioning accuracy                      | mm     | 0.008             | 0.008             | 0.012/0.006/0.006 | 26. Chain-type chip conveyor + cart             |                                          |
| B/C axis positioning accuracy                               | ''     | 8/10              | 8/10              | 8/10              | 27. CNC Siemens One with 15-inch screen         |                                          |
| B/C axis repeat positioning accuracy                        | ''     | 4                 | 4                 | 4                 |                                                 |                                          |
| Machine size                                                | mm     | 2900x2500x2964    | 5650x4300x3500    | 7500x4800x3200    |                                                 |                                          |
| Machine weight                                              | kg     | 13000             | 20000             | 22000             |                                                 |                                          |
| CNC control                                                 | -      | SIEMENS ONE       | SIEMENS ONE       | SIEMENS ONE       |                                                 |                                          |

# DM series

## CNC Gantry Machining Center

DM-2016i  
DM-3020i  
DM-6032i

DM-2016i  
DM-4025i



## CHARACTERISTICS

The EUMASEIKI DM/DM5 series gantry machining center, with its high torque power, high rigidity structure, combined with high quality and automation, provides you with high-performance and high productivity machining machine. All structural components have undergone FEA finite element analysis, which has advantages such as design optimization and structural light weighting, ensuring optimal structural rigidity of the entire machine. The bridge and base are designed with an integrated casting structure, and the contact surfaces have undergone precision manual scraping procedures to ensure optimal assembly accuracy, structural strength, and balanced load. Widely used by well-known processing factories in the automotive industry, precision mold, aerospace and energy industry.



| Specification                              | unit   | DM-2016i        | DM-2520i          | DM-3020i          | DM-4025i          | DM-6032i             | Standard Configuration                                      | Option Configuration                       |
|--------------------------------------------|--------|-----------------|-------------------|-------------------|-------------------|----------------------|-------------------------------------------------------------|--------------------------------------------|
| X axis travel (table forward-backward)     | mm     | 2000            | 2500              | 3000              | 4000              | 6000/3200/1000(1200) | 1. Fully enclosed protective cover                          | 1. Gear type spindle                       |
| Y axis travel (spindle box left and right) | mm     | 1800            | 2000              | 2300              | 2500              | 3200                 | 2. FANUC OiMF with 10.4-inch color screen                   | 2. Direct drive type spindle               |
| Z axis travel (spindle box up and down)    | mm     | 900             | 1000              | 1000              | 1000              | 1000 (1200)          | 3. BT50 spindle structural design                           | 3. Built-in spindle                        |
| Distance (spindle nose to table)           | mm     | 180-1080        | 200-1200          | 200-1200          | 200-1200          | 200-1200 (200-1400)  | 4. Unique Z-axis ram structure with full-gear gantry design | 4. Tool shank and pull bolt: DIN50/CAT50   |
| Distance between double columns            | mm     | 1600            | 1900              | 2000              | 2800              | 3200                 | 5. X/Y axis linear roller guides                            | 5. Y-axis travel extension/                |
| Rectangular table size/max. load           | mm     | 1200x2200       | 1600x2500         | 1700x3000         | 2100x4000         | 6000x2800            | 6. Z axis high-rigidity hard guideway                       | 6. Z-axis travel extension                 |
| Rectangular table max. load weight         | ton    | 6               | 6                 | 7                 | 12                | 18                   | 7. Cutting coolant system                                   | 7. Column height increase                  |
| T-slot dimension                           | mm     | 22x160x8        | 22x200x8          | 22x180x8          | 28x220x9          | 28x200               | 8. Automatic centralized lubrication system                 | 8. Manual additional heads:35-degree       |
| Spindle taper /Spindle speed               | -      | ISO50           | ISO50             | ISO50             | ISO50             | ISO50                | 9. Spindle air blow device                                  | head/90-degree head/universal head/        |
| Spindle speed                              | rpm    | 6000            | 6000              | 6000              | 6000              | 6000                 | 10. Chip flushing device                                    | extension head                             |
| Rapid feed rate (X/Y/Z)                    | m/min  | 20/20/12        | 15/15/15          | 12/12/10          | 12/12/12          | 10/10/10             | 11. Electrical cabinet air conditioner                      | 9. Automatic additional heads 5 divisions: |
| Cutting feed rate (X/Y/Z)                  | mm/min | 1~10000         | 1~8000            | 1~8000            | 1~8000            | 1~10000              | 12. Manual pulse generator                                  | 35° head/90° head/ universal head/         |
| Tool magazine capacity / tool holder type  | pcs    | 24/BT50         | 24/BT50           | 24/BT50           | 24/40/BT50        | 2430/40/BT50         | 13. RS232C, USB Input/output, ethernet port                 | extension head                             |
| Max. tool diameter                         | mm     | Ø125/Ø250       | Ø125/Ø250         | Ø110/Ø200         | Ø125/Ø250         | Ø125/Ø250            | 14. Work area lighting /3-color light                       | 10. Tool magazine: 40/60/90/120 tools      |
| Maximum tool length                        | mm     | 350             | 350               | 300               | 350               | 350                  | 15. Machine anomaly indicator                               | 11. X/Y/Z axis optical scales (HEIDENHAIN) |
| Maximum tool weight                        | kg     | 20              | 20                | 15                | 20                | 20                   | 16. Auto power-off (M30)                                    | 12. Spindle thermal compensation           |
| Tool change time (arm type, tool to tool)  | sec.   | 5               | 5                 | 5                 | 5                 | 5                    | 17. Standard tool kit                                       | 13. Oil circuit tool post interface        |
| Gear box                                   | -      | 1:4.2           | 1:4.2             | 1:4.2             | 1:4.2             | 1:4                  | 18. Leveling bolts and foundation blocks                    | 14. Spindle inner coolant (Form A)         |
| Main motor power                           | kw     | 15/18.5         | 18.5/22           | 18.5/22           | 22/26             | 22/26                | 19. Automatic chip conveyor and cart                        | 15. Auto tool length measure device        |
| Main motor torque                          | Nm     | 143/236         | 118/140           | 147.2/175         | 140/165.5         | 140/165              |                                                             | 16. Automatic workpiece measure device     |
| Full-tooth ram torque                      | Nm     | 600.6/991.2     | 495/588           | 618/735           | 588/693           | 560/660              |                                                             | 17. CNC rotary table                       |
| X/Y/Z axis feed motor power                | kw     | 3.0/3.0/3.0     | 3.0/3.0/3.0       | 3.0/3.0/3.0       | 6.0/7.0/7.0       | 6.0/7.0/7.0          |                                                             | 18. Disc-type oil-water separator          |
| X/Y/Z axis feed motor torque               | Nm     | 27/27/36        | 36/36/36          | 36/36/36          | 38/30/30          | 38-130/30-83/30-83   |                                                             | 19. Mist cooling system                    |
| Cutting coolant motor power                | kw     | 1.1+1.1         | 1.0+1.0           | 1.1+1.1           | 1.1+1.1           | 1.1+1.1              |                                                             |                                            |
| Air pressure requirement                   | kg/cm² | 6.5             | 6.5               | 6.5               | 6.5               | 6.5                  |                                                             |                                            |
| Required power supply                      | kva    | 40              | 45                | 45                | 60                | 50                   |                                                             |                                            |
| X/Y/Z axis positioning accuracy            | mm     | 0.025/0.02/0.01 | 0.018/0.018/0.018 | 0.03/0.024/0.016  | 0.01(300 travel)  | 0.02(300 travel)     |                                                             |                                            |
| X/Y/Z axis repeat positioning accuracy     | mm     | 0.008           | 0.008             | 0.012/0.006/0.006 | 0.006(300 travel) | 0.02                 |                                                             |                                            |
| Machine size                               | mm     | 5800x4700x4500  | 7000x3800x4800    | 8400x4360x4270    | 11200x5800x5400   | 16000x5900x5330      |                                                             |                                            |
| Machine weight                             | kg     | 22000           | 23000             | 35000             | 38000             | 65000                |                                                             |                                            |
| CNC control                                | -      | FANUC OiMF      | FANUC OiMF        | FANUC OiMF        | FANUC OiMF        | FANUC OiMF           |                                                             |                                            |

Finished Machines



4 units EV1375B with Heidenhain system



4 units EV1165A with FANUC system



2 units UV400 with Siemens One



2 units DX650 with Siemens one



6 units EV1160A with FANUC 31i



3 units DU500 with siemens one

Production Capacity



Shenyang Liming Aviation Engine Group  
Jinzhou Weapon 641 Factory  
Shenyang Aerospace Xinguang Group Co., Ltd  
Baotou Guanghua Chemical Industry Co., Ltd  
Inner Mongolia Baotou 1st machine tool factory  
Guihang Group Fenglei Ordnance Factory  
AVIC Power Technology Zhuzhou Gas Turbine Company  
Chongqing Hongyu Precision Industry Co., Ltd  
Nanjing Chenguang Group  
Nanjing 14th Institute  
Xi'an Microelectronics Technology Research Institute... Total 40 units

Nanjing Forestry University  
Zhejiang Ocean University  
Department of Mechanical and Electrical Engineering, Nanyang University of Technology...Total 55 units

Bengang Plate Co., Ltd  
Anshan Ansteel Quality Inspection Center West  
Shanghai Baosteel Co., Ltd  
Shougang Tangshan Jingtang Steel  
.....total 6 units

Baoding Great Wall Motors  
Beijing Futian Automobile  
Engine of Shiyang Dongfeng Motor Company  
Nanjing Iveco Transmission Factory  
Dongfeng Automobile Axle Co., Ltd. Parts Factory  
.....Total 75 units

