

DISCOVER MORE WITH
Mazak



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Mazak

YEARS
OF MANUFACTURING IN KENTUCKY
SINCE 1974



Celebrating 50 Years of Mazak North America

Leadership through customer immersion

Mazak North America has been the champion of manufacturing innovation and technology from its North American headquarters in Florence, Kentucky since 1974. To best support our industry, then President of Yamazaki Mazak Corporation, the late Teruyuki (Terry) Yamazaki was clear: A machine tool company must be close to the markets it serves to gain complete understanding of the manufacturing culture.

While standard practice today, conducting business globally in the 1970s was a major undertaking that took a visionary's investment, perseverance and dedication. Since our Kentucky facility opened, Mazak has continued to honor and build upon Mr. Yamazaki's vision. Through industry leadership in manufacturing innovation and technology, engineering and customer support, the company has securely positioned itself as a champion of the North American manufacturing industry.

Dedicated to continuous improvement and to always go above and beyond for its customers, Mazak has experienced 20 expansions at its Florence, Kentucky manufacturing campus and produces more than 70 different machining solutions at the facility. With almost one million-square-feet, the facility designs and builds machine tools and manufacturing technology that ensure its customers reduce costs and maximize their productivity.

Expansion reaches beyond Mazak's Kentucky campus and echoes the value Mr. Yamazaki placed on being immersed in markets we serve. Mazak invested in a network of regional Technology Centers and Technical Centers located across North America. The centers provide customers convenient access to component machining demonstrations, experienced applications engineers and comprehensive training. The centers also channel customer input directly to Mazak manufacturing for the development of new machine tool technology.

Since 1974, Mazak has also constantly invested in the research, development and equipment to continuously evolve manufacturing operations for the machines we produce. At our Mazak iSMART Factory™ in Kentucky – where Mazaks make Mazaks - we incorporate the use of advanced manufacturing cells and systems together with full digital integration.

For the next 50 years and beyond, Mazak will continue to honor Mr. Yamazaki's original vision. The best service to our industry will always be rooted in interaction with our customers to provide the best ongoing innovation and support.



Since 1974, Mazak has also constantly invested in the research, development and equipment to continuously evolve manufacturing operations for the machines we produce.



MAZATROL Smooth CNC

The newest MAZATROL Smooth CNC is designed to provide unsurpassed productivity through even faster and higher precision control by using IoT, AI and digital twin technology.



MAZATROL
SMOOTH*Ez*

MAZATROL
SMOOTH*G*

MAZATROL
SMOOTH*Ai*



AI-powered technologies for optimized operation

Smooth Ai Spindle

The VARIAXIS i-700 NEO uses AI to detect the milling spindle vibration and adjust machining conditions automatically to produce unsurpassed surface finishes and high productivity. With AI, even a novice operator can make adjustments easily in a short time.



Ai Thermal Shield

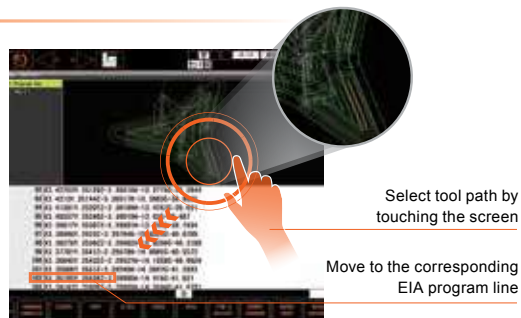
For even-higher machining accuracy, new algorithms automatically determine and apply compensation according to temperature changes.



Reduced checking time of EIA/ISO programs

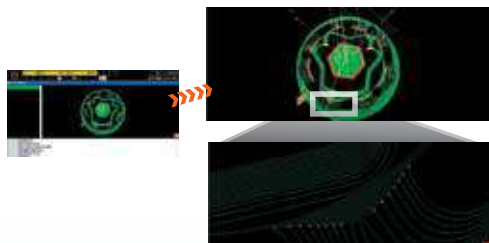
QUICK EIA

By touching the tool path on the screen, it is possible to move to the corresponding EIA program, and check the program details.



VIEW SURF

By analyzing the tool path, any predictable failure on the finished surface can be visualized. Program modification can be done before machining to minimize the time for test cutting.



Convenient Parameter Setting and Fine Tuning Function

Smooth Machining Configuration

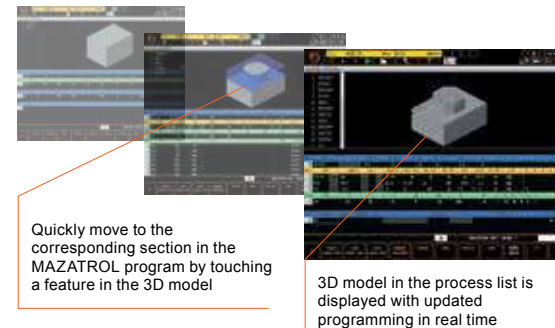
Adjust machining features including cycle time, finished surface and machining shape with slider switches on the display to match material requirements and machining methods. This is especially effective for complex workpiece contours defined in small program increments. The newly added "2X-R" function reduces rough machining time (standard equipment).



Reduced time for conversational programming

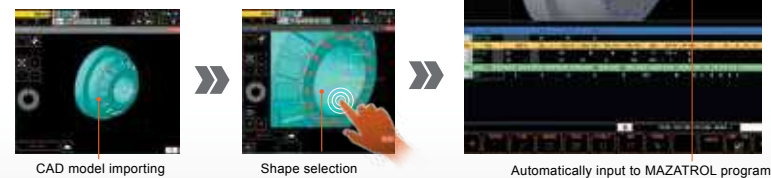
QUICK MAZATROL

After defining a machining unit in a MAZATROL program, the 3D shape is immediately displayed to easily and quickly check for any programming error.



3D ASSIST

Workpiece and coordinates data can be imported from 3D CAD data to a MAZATROL program. Can reduce input errors and time for program checking.



Smooth Oscillation Cutting

By cutting the chips into small pieces, Smooth Oscillation Cutting protects the surface of machines and workpieces and minimizes the machine downtime. The oscillation cutting conditions is automatically selected by MAZATROL.



Automation solutions tailored to production volume and variety

Mazak offers total solutions using the automation systems to manufacturing sites facing the major issue of labor shortages. We provide comprehensive support from the selection of machine tools to the automation of work transfer using robots / loaders, proposals for jigs, measuring equipment, software, etc., and smooth production start-up after the system installation. We will support the complex introduction of automation.

Flow of automation introduction

- Customer request
- Analyze a solution
- Suggestions to customers
- Design a system
- Production and procurement
- System construction / test cut
- Delivery
- Service / maintenance



Workpiece transport system

High-speed, high-accuracy workpiece transport system

GANTRY LOADER

- Allows long-term automatic operation.
- Work hand and conveyor can be selected according to the workpiece to be processed.



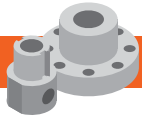
Collaborative robot with easy operation and compact design

EZ LOADER

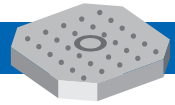
- Setup is complete just by placing the workpiece on the pallet.
- It is possible to create your own operation programs, such as adding machine-external measurements.



Number of workpiece



Pallet transport system



Pallet transport system that connects different types of machine tools

PALLETECH

- The system can be expanded according to production status.
- Improve productivity by adding tools and material to system operation.



Work changer system suitable for high-mix, low-volume production

AUTO WORK CHANGER

- Replace the machining completed workpiece with the material setup in the stocker.
- Equipped with a space-saving magazine for long-term continuous machining.



Space-saving multi-stage stocker

MPP

- Maximum 18 pallets stocker capacity.
- After installing the system, storage capacities can be expanded according to the customer's production volume.



Smooth automatic pallet exchange system

PALLET CHANGER

- Quickly replace heavy workpieces.
- Supports automatic operation at night by adding more pallets.



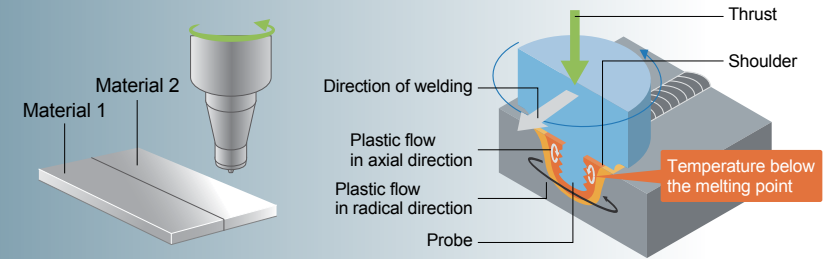
Number of workpiece

Integration of friction stir welding and machining

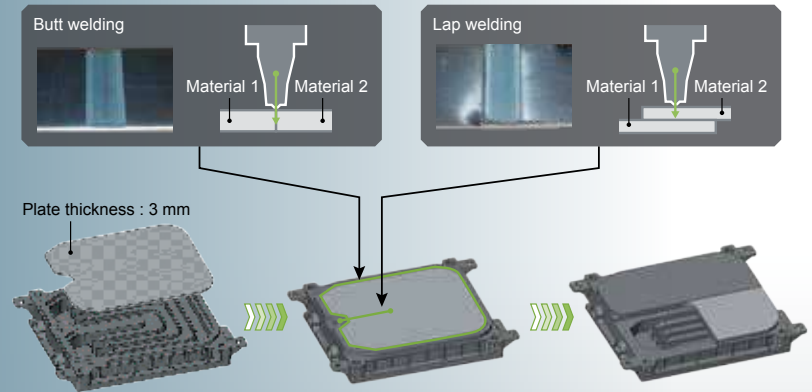
Friction Stir Welding (FSW) technologies have been integrated with a machining center. Friction Stir Welding creates heat by friction exerting pressure on a round tool to weld materials. FSW unlike conventional welding, stirs material by friction for strong welds made with minimum material deformation / distortion. It can also weld dissimilar materials as well as joining aluminum. FSW process generates no gas, fumes, dust and spatter to improve safe and convenient working environment.



FSW process



FSW joining techniques



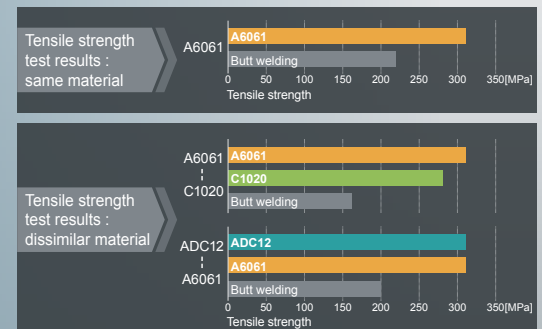
FSW advantages

■ Stable joining quality

Welding depth 3 mm

Feedrate

Material	Speed mm / min
A6063	2500
A5052	2000
ADC12	1500
C1020	300

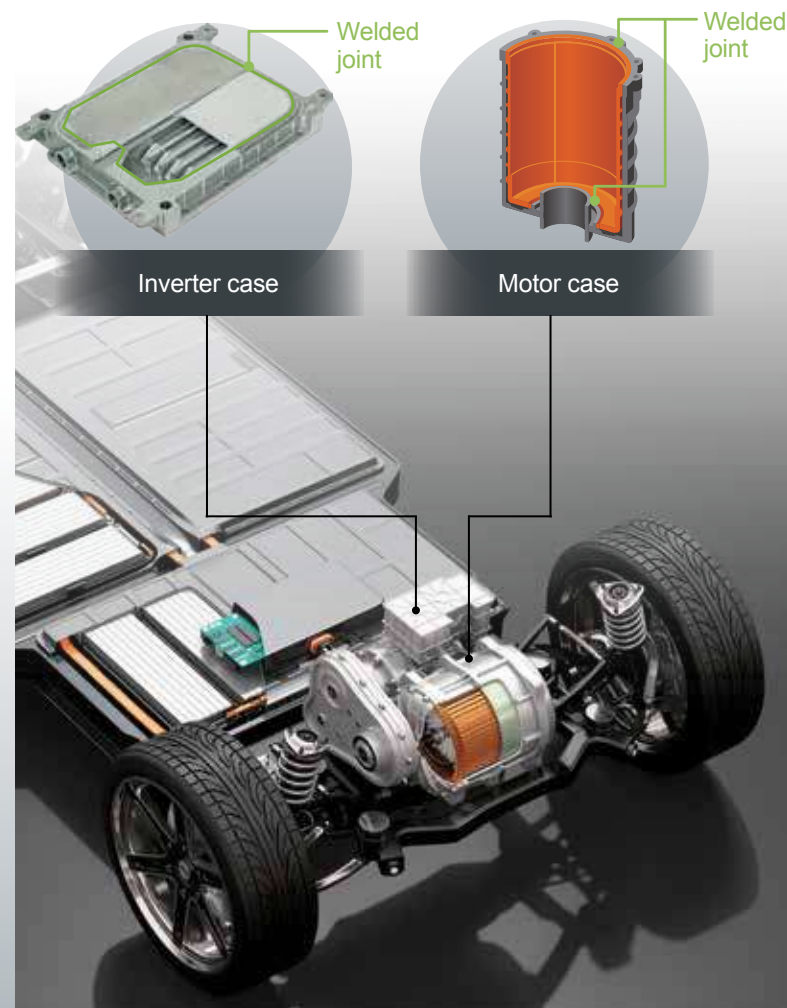


FSW utilized in the manufacturing of electric vehicle-related parts

FSW can be used in the manufacturing of electric vehicle-related parts including inverter case, battery case and motor case.

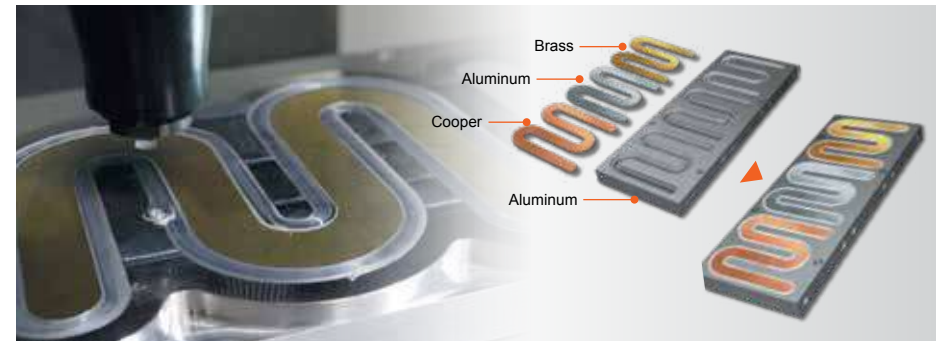
Components for electrification of vehicle

- Achieve a reduction in size and weight of components by eliminating bolt joints
- Improved durability by welding entire surface without sealing material



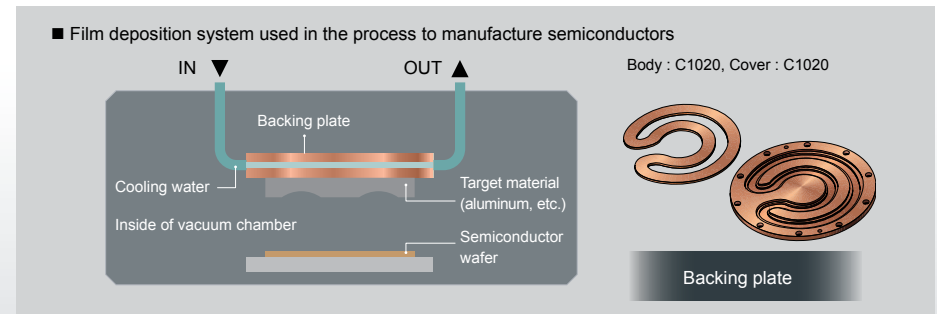
FSW utilized in manufacturing equipment of semiconductor

The FSW series can perform friction stir welding of backing plate for semiconductor manufacturing equipment, which can reduce in-process time and in-process inventory as all processes from machining to friction stir welding can be done in one machine.



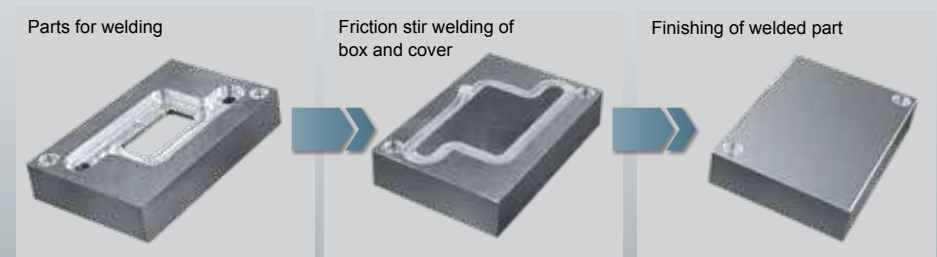
Backing plate (semiconductor industry)

The FSW series performs machining, friction stir welding and finishing of backing plate in a single machine to reduce the production lead time.



Body : C1020, Cover : C1020

Welding of cooling plate for power control component



Box material : A6061, Cover : A6061

Gear machining integrated with multi-tasking machines

Previously, gear production required multiple machines and workpiece transportation between machines. Reduce inaccuracies that can occur when moving heavy parts across multiple workstations. Also, eliminate work-in-process inventory with the machines ability to perform milling, turning, boring and drilling operations in single setups.

- 3 types of gear machining methods (gear skiving, hobbing and end milling) can be performed in just one machine
- Process integration for high accuracy machining, reduction of in-process time and initial cost
- Programs for cutting tool paths and measurement can be easily made in a short period of time



Large volume production to high-mix, small volume production

Productivity

Mass production with specialized tools



- Internal gears
- External gears
- Chucking workpieces



- External gears
- Shaft workpieces

Flexible machining with general-purpose end mill



- External gears
- Large workpieces
- Prototypes

Flexibility



INTEGREX i-500S AG

Programs are easily made in a short period of time by just inputting gear data

INTEGREX AG software



SMOOTH GEAR SKIVING



SMOOTH GEAR HOBBIING



SMOOTH GEAR MILLING



SMOOTH GEAR CHECK



Operation flow



Gear and spline data specifications as well as cutting conditions and measurement data are input using a conversational CNC display.



G code program for cutting and measurement is generated. Re-editing is possible.



By pushing the cycle start button, gear cutting and measurement are performed.



INTEGREX i-630V/6 AG



INTEGREX i-450H S AG



INTEGREX e-1250V/8S AG

Integration of additive manufacturing and Multi-Tasking machines

All processes from material to finished components are done in a single machine

Smaller floor space

In-process time reduced

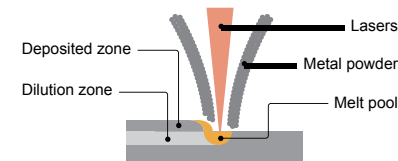
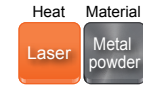
Lower number of fixtures

Lower operator expense



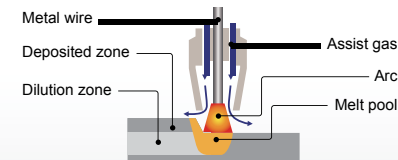
AM technologies

Laser metal deposition



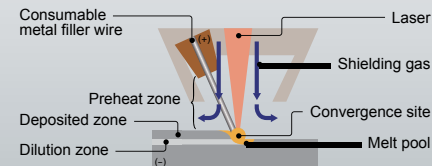
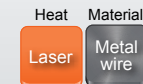
Laser from the nozzle center melts the base material and the metal powder supplied from around the nozzle.

Wire arc AM



Metal wire melted by an electrical arc is deposited on base material.

HOT WIRE laser metal deposition



Wire is supplied to the surface of a base material, where it is melted by the laser.

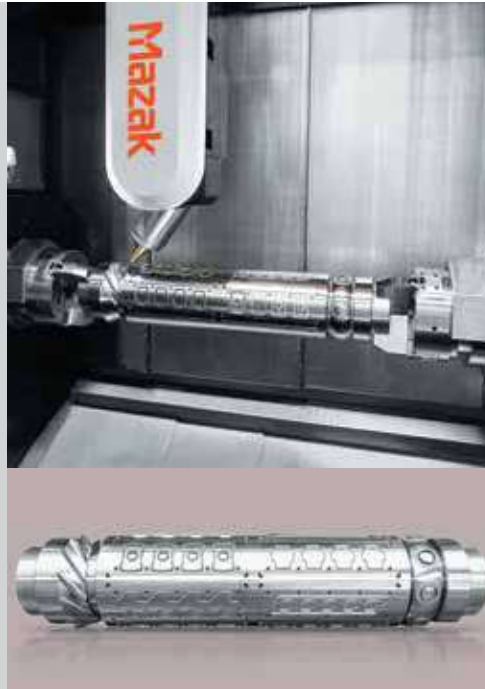
INTEGREX i AM and VC AM application examples

■ Near-net shape ■ Repair / modification

Roll die cutter

Machine: INTEGREX i-400S AM
Laser Metal Deposition
Deposited material: SKD61
Base material: C45

Processes are integrated by HYBRID Multi-Tasking machine. Previously, this component was made complete from C45, which required heat treatment after machining. By using HYBRID Multi-Tasking, a harder material is deposited on the C45 base material, eliminating the heat-treatment process.



Tire mold

Machine: VC-500/5X AM
Hot wire laser deposition
Deposited material: A5356
Base material: A5052

Wire is used instead of metal powder. Deposition rates: 3 - 4 lbs/hour, considerably higher than metal powder with hardly any waste - 98% of material is utilized. Lower heat input results in less distortion when compared to other methods. Additionally, a wide range of types of wire is available with lower cost than powder and with significantly lower safety requirements.



INTEGREX i AM series

LASER METAL DEPOSITION

Integration of Multi-Tasking machines and laser metal deposition enables high precision additive manufacturing of long and cylindrical workpieces.



VC-500A/5X AM

HOT WIRE LASER DEPOSITION

LASER METAL DEPOSITION

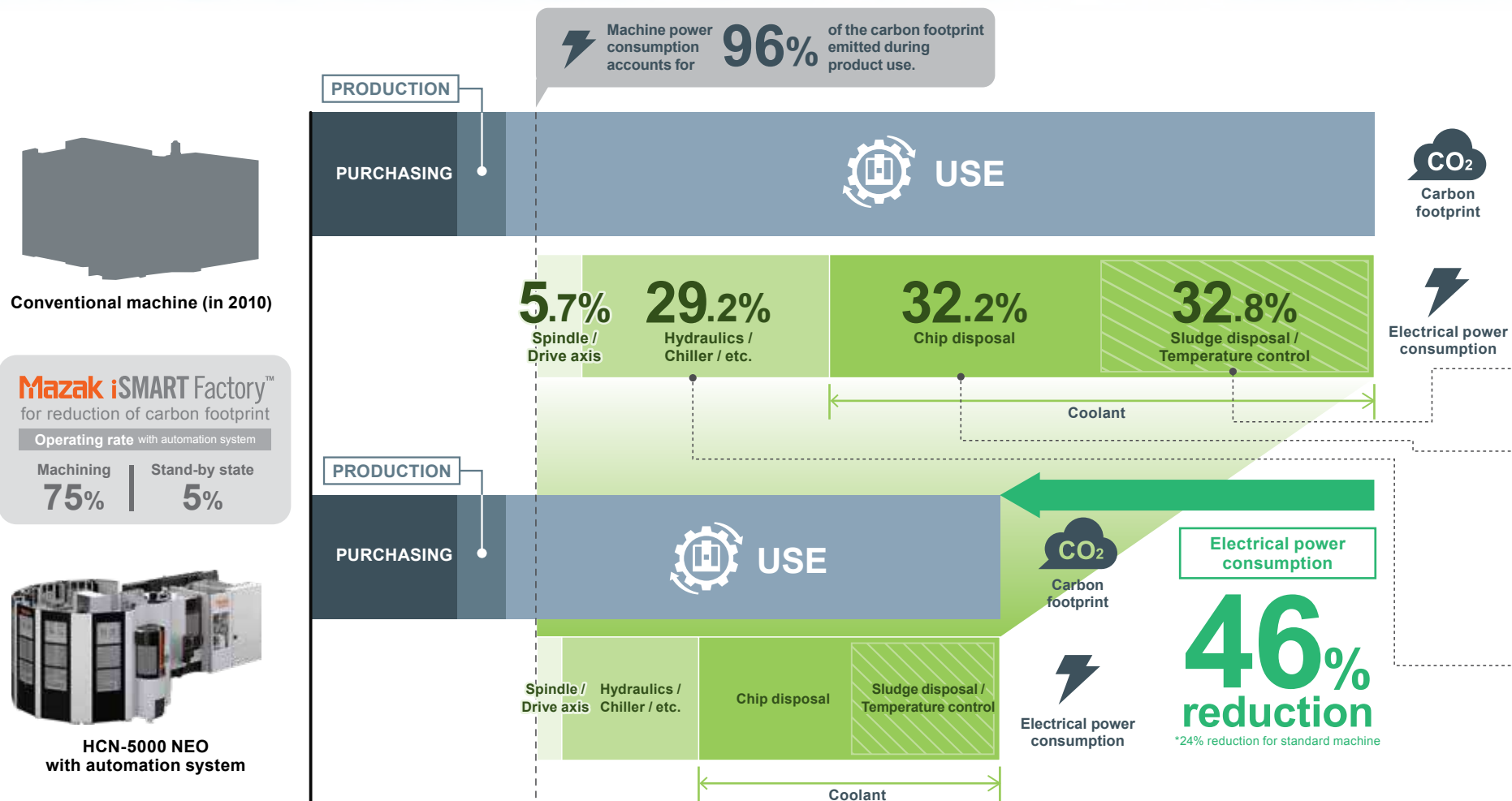
Table size	Φ500 mm (Φ19.69")
Travel (X/Y/Z)	555 mm / 505 mm / 510 mm (21.85" / 19.88" / 20.08")
(B/C)	+110° ~ -110°/±360°
Spindle (10 min. rating)	12000 rpm, 19 kW (25 HP)
Tool shank	No. 40
Tool capacity	30



Action for the reduction of Mazak's carbon footprint

In order to reduce the carbon footprint of machine tools, it is necessary to reduce CO₂ emissions during product use, which accounts for the majority of CO₂ emissions in the product life-cycle.

Energy-saving effect of the horizontal machining center : HCN-5000 NEO



Energy saver

Energy saver is equipped with a CNC system that visualizes power consumption and regenerated power during the machine operation. In addition, power consumption is reduced by finely controlling the coolant and other equipment according to the cutting volume.

■ Graphical display

Display instantaneous power / consumed power / regenerated power / actual power graphically. Energy-saving settings for each equipment.

■ Trend display

Display power consumption by hour / day / week / month.

■ Optimal control function for each equipments

Display energy-saving status of each equipment.
Energy-saving level can be adjusted.



Display coolant discharge amount and power consumption



Display instantaneous power and power consumption

Smooth coolant system OPTION

■ No need to clean the tank frequently

- ⦿ The coolant tank has a coolant jet that makes a vortex in the center so that small machined chips will not settle in the tank.
- ⦿ Thanks to these features, the coolant tank stays clean and the service life of the coolant is extended.
- ⦿ Ease of maintenance is also ensured.
- ⦿ The frequency of coolant changes is reduced as well as CO₂ emissions at coolant disposal.

Power consumption
30% reduction

■ Self-cleaning filter removes 99% of sludge

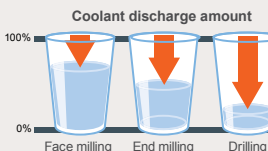
- ⦿ The high-performance filter suctions the chips along with the coolant, separates them, and removes 99% of the sludge.

Sludge removal rate
99%

■ Optimal control of coolant discharge amount

Energy saver automatically determines the optimal coolant discharge amount based on machining for energy-saving machining.

- ⦿ The cutting volume is calculated by simulation.
- ⦿ The optimal discharge amount is automatically determined.



Smooth coolant system deployment

Conventional coolant tank



Coolant degradation

Smooth coolant system



Coolant degradation prevention and prolonged lifespan

Energy-saving equipments

- ⦿ Hydraulic unit utilizing accumulator
- ⦿ Inverter type chiller unit

Power consumption
16% reduction

Multi-Tasking Machines

Simultaneous 5-axis Multi-Tasking Machines

INTEGREX i-H SERIES

The INTEGREX i-H series adopts a flat design that easily incorporates automation systems. Machine structure incorporates a turning and machining center to ensure high accuracy positioning and machining. The newly designed compact milling spindle expands the machining area with minimum interference.



INTEGREX i-350H ST (1500U)

Long workpiece capacity

- A** Tailstock
- B** Second spindle
- C** Second spindle + lower turret

i-100H (6") / i-200H (8")

A 590U

B C 850U

Max. machining diameter $\Phi 600$ mm ($\Phi 23.62$ ")
Max. machining diameter (lower turret) $\Phi 400$ mm ($\Phi 15.75$ ")

i-250H (8")

A B 1000U

A B C 1500U

Max. machining diameter $\Phi 670$ mm ($\Phi 26.38$ ")
Max. machining diameter (lower turret) $\Phi 420$ mm ($\Phi 16.54$ ")

i-350H (10")

A 1000U

A B C 1500U

A B 2500U

Max. machining diameter $\Phi 670$ mm ($\Phi 26.38$ ")
Max. machining diameter (lower turret) $\Phi 420$ mm ($\Phi 16.54$ ")

i-450H (12")

A 1000U

A B C 1500U

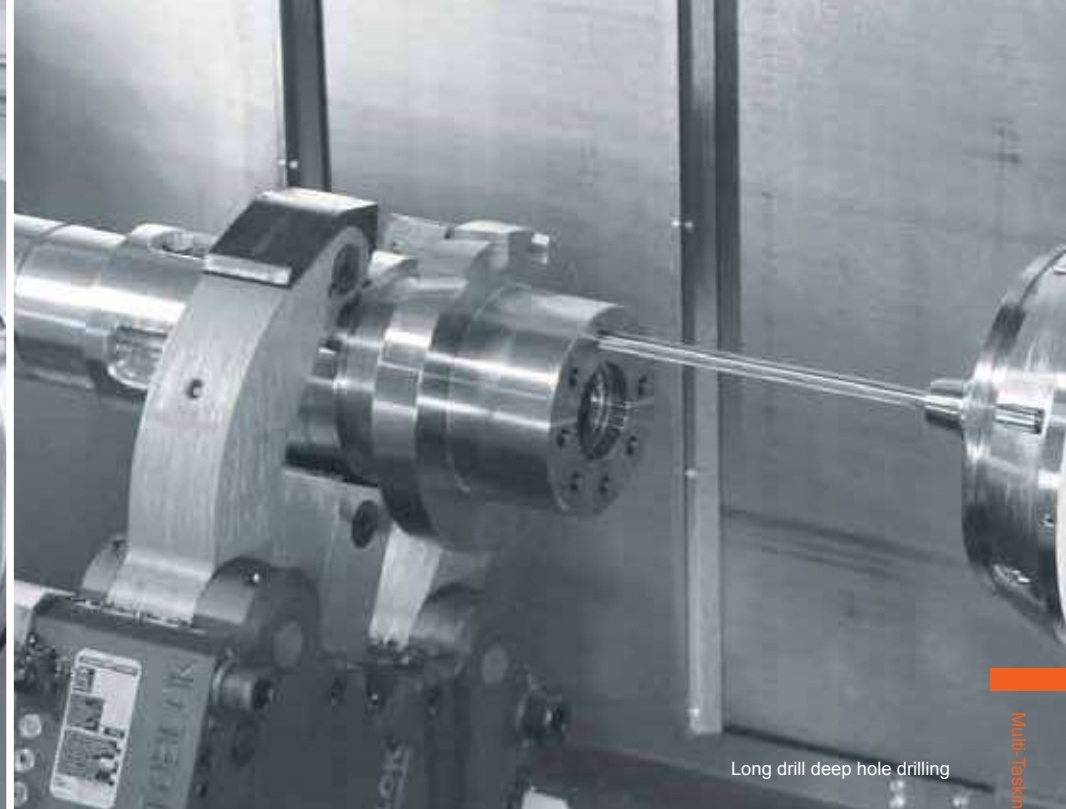
A B 2500U

Max. machining diameter $\Phi 670$ mm ($\Phi 26.38$ ")
Max. machining diameter (lower turret) $\Phi 420$ mm ($\Phi 16.54$ ")

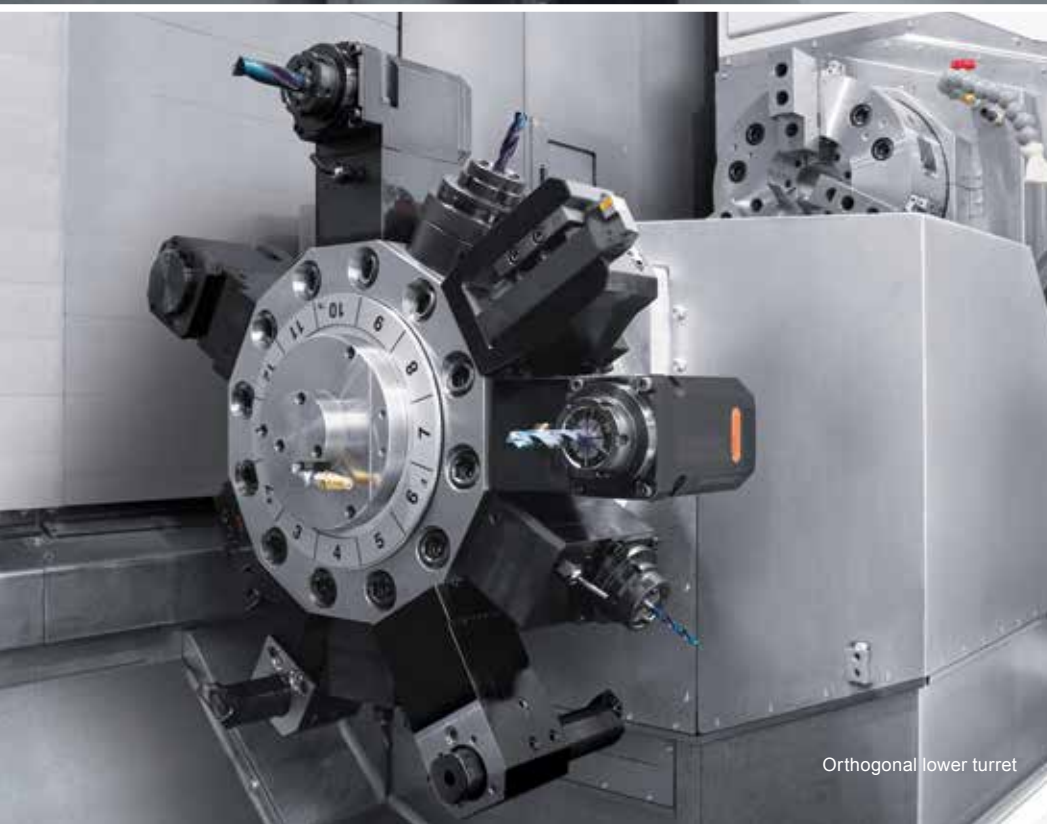




Shaping



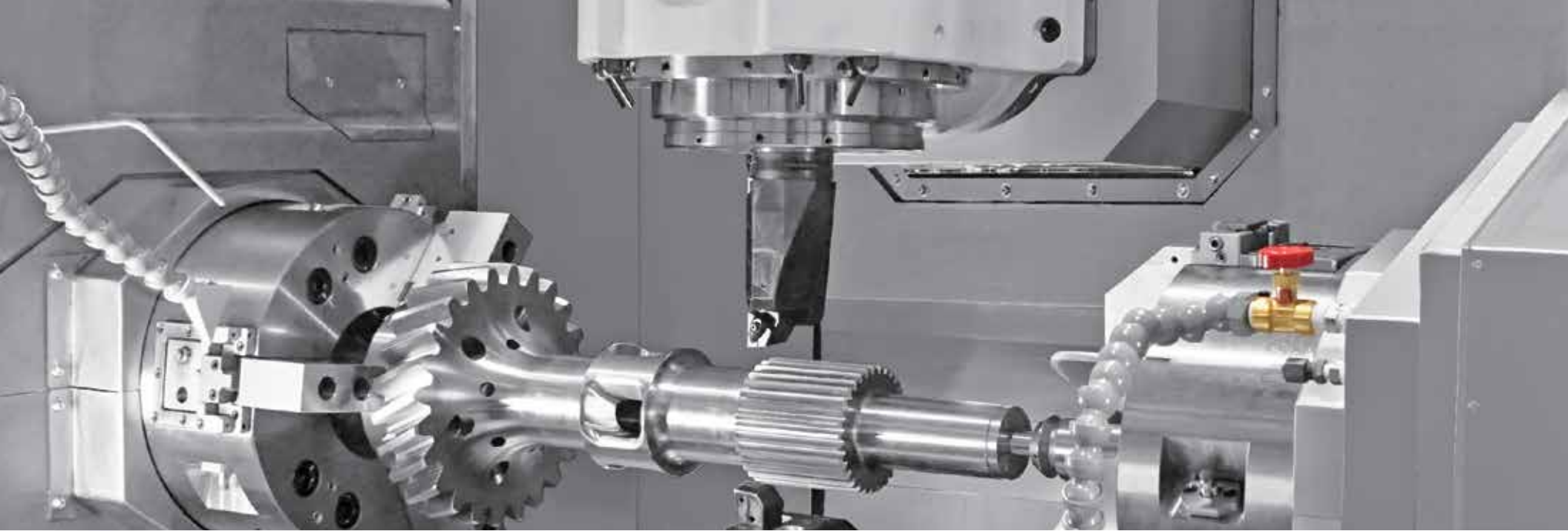
Long drill deep hole drilling



Orthogonal lower turret



Slant lower turret



i-100H

Universal	590U
Chuck size (main / second)	6" / -
Max. machining length*1	590 mm (23.23")
Max. machining diameter	Φ600 mm (Φ23.62")
Max. machining diameter (lower turret)	-
Travel (X / Y / Z / B) (upper turret)	535 mm / 210 mm / 640 mm / -30° ~ 210° (21.06" / 8.27" / 25.20" / -30° ~ 210°)
(X2 / Z2) (lower turret)	-
Tool storage capacity (upper / lower turret)	38, 74*, 112* / -
Main spindle (40% ED)*1	6000 rpm, 11 kW (15 HP)
Second spindle (40% ED)*1	-
Milling spindle (40% ED)	12000 rpm, 12 kW (16 HP)

i-200H

Universal	590U
Chuck size (main / second)	8" / -
Max. machining length*1	590 mm (23.23")
Max. machining diameter	Φ600 mm (Φ23.62")
Max. machining diameter (lower turret)	-
Travel (X / Y / Z / B) (upper turret)	535 mm / 210 mm / 640 mm / -30° ~ 210° (21.06" / 8.27" / 25.20" / -30° ~ 210°)
(X2 / Z2) (lower turret)	-
Tool storage capacity (upper / lower turret)	38, 74*, 112* / -
Main spindle (40% ED)*1	5000 rpm, 22 kW (30 HP)
Second spindle (40% ED)*1	-
Milling spindle (40% ED)	12000 rpm, 12 kW (16 HP)

i-100H S

850U
6" / 6"
850 mm (33.46")
Φ600 mm (Φ23.62")
-
535 mm / 210 mm / 900 mm / -30° ~ 210° (21.06" / 8.27" / 35.43" / -30° ~ 210°)
-
38, 74*, 112* / -
6000 rpm, 11 kW (15 HP)
6000 rpm, 11 kW (15 HP)
12000 rpm, 12 kW (16 HP)

i-200H S

850U
8" / 8"
850 mm (33.46")
Φ600 mm (Φ23.62")
-
535 mm / 210 mm / 900 mm / -30° ~ 210° (21.06" / 8.27" / 35.43" / -30° ~ 210°)
-
38, 74*, 112* / -
5000 rpm, 22 kW (30 HP)
5000 rpm, 18.5 kW (25 HP)
12000 rpm, 12 kW (16 HP)

i-100H ST

850U
6" / 6"
850 mm (33.46")
Φ600 mm (Φ23.62")
Φ400 mm (Φ15.75")
535 mm / 210 mm / 900 mm / -30° ~ 210° (21.06" / 8.27" / 35.43" / -30° ~ 210°)
210 mm / 900 mm (8.27" / 35.43")
38, 74*, 112* / 12**
6000 rpm, 11 kW (15 HP)
6000 rpm, 11 kW (15 HP)
12000 rpm, 12 kW (16 HP)

i-200H ST

850U
8" / 8"
850 mm (33.46")
Φ600 mm (Φ23.62")
Φ400 mm (Φ15.75")
535 mm / 210 mm / 900 mm / -30° ~ 210° (21.06" / 8.27" / 35.43" / -30° ~ 210°)
210 mm / 900 mm (8.27" / 35.43")
38, 74*, 112* / 12**
5000 rpm, 22 kW (30 HP)
5000 rpm, 18.5 kW (25 HP)
12000 rpm, 12 kW (16 HP)

*Option **Depends on chuck specifications **29 tools for slant lower turret



INTEGREX i-200H S (850U)



INTEGREX i-450H (2500U)

i-250H

Universal	1000U · 1500U
Chuck size (main / second)	8" / -
Max. machining length*1	1011 mm · 1519 mm (39.80" · 59.80")
Max. machining diameter	Φ670 mm (Φ26.38")
Max. machining diameter (lower turret)	-
Travel (X / Y / Z / B) (upper turret)	695 mm / 300 mm / 1077 mm · 1585 mm / -30° ~ 210° (27.36" / 11.81" / 42.40" · 62.40" / -30° ~ 210°)
(X2 / Z2) (lower turret)	-
Tool storage capacity (upper / lower turret)	38, 74*, 112* / -
Main spindle (40% ED)*1	5000 rpm, 22 kW (30 HP)
Second spindle (40% ED)*1	-
Milling spindle (40% ED)	12000 rpm, 24 kW (32 HP)

i-350H

Universal	1000U · 1500U · 2500U
Chuck size (main / second)	10" / -
Max. machining length*1	1011 mm · 1519 mm · 2500 mm (39.80" · 59.80" · 98.43")
Max. machining diameter	Φ670 mm (Φ26.38")
Max. machining diameter (lower turret)	-
Travel (X / Y / Z / B) (upper turret)	695 mm / 300 mm / 1077 mm · 1585 mm · 2566mm / -30° ~ 210° (27.36" / 11.81" / 42.40" · 62.40" · 101.02" / -30° ~ 210°)
(X2 / Z2) (lower turret)	-
Tool storage capacity (upper / lower turret)	38, 74*, 112* / -
Main spindle (40% ED)*1	4000 rpm, 30 kW (40 HP)
Second spindle (40% ED)*1	-
Milling spindle (40% ED)	12000 rpm, 24 kW (32 HP)

i-450H

Universal	1000U · 1500U · 2500U
Chuck size (main / second)	12" / -
Max. machining length*1	1011 mm · 1519 mm · 2500 mm (39.80" · 59.80" · 98.43")
Max. machining diameter	Φ670 mm (Φ26.38")
Max. machining diameter (lower turret)	-
Travel (X / Y / Z / B) (upper turret)	695 mm / 300 mm / 1077 mm · 1585 mm · 2566mm / -30° ~ 210° (27.36" / 11.81" / 42.40" · 62.40" · 101.02" / -30° ~ 210°)
(X2 / Z2) (lower turret)	-
Tool storage capacity (upper / lower turret)	38, 74*, 112* / -
Main spindle (40% ED)*1	3300 rpm, 37 kW (50 HP)
Second spindle (40% ED)*1	-
Milling spindle (40% ED)	12000 rpm, 24 kW (32 HP)

i-250H S

Universal	1000U · 1500U
Chuck size	8" / 8"
Max. machining length	1011 mm · 1519 mm (39.80" · 59.80")
Max. machining diameter	Φ670 mm (Φ26.38")
Max. machining diameter (lower turret)	-
Travel (X / Y / Z / B)	695 mm / 300 mm / 1077 mm · 1585 mm / -30° ~ 210° (27.36" / 11.81" / 42.40" · 62.40" / -30° ~ 210°)
(X2 / Z2)	-
Tool storage capacity	38, 74*, 112* / -
Main spindle	5000 rpm, 22 kW (30 HP)
Second spindle	5000 rpm, 18.5 kW (25 HP)
Milling spindle	12000 rpm, 24 kW (32 HP)

i-350H S

Universal	1500U · 2500U
Chuck size	10" / 10"
Max. machining length	1519 mm · 2500 mm (59.80" · 98.43")
Max. machining diameter	Φ670 mm (Φ26.38")
Max. machining diameter (lower turret)	-
Travel (X / Y / Z / B)	695 mm / 300 mm / 1585 mm · 2566mm / -30° ~ 210° (27.36" / 11.81" / 62.40" · 101.02" / -30° ~ 210°)
(X2 / Z2)	-
Tool storage capacity	38, 74*, 112* / -
Main spindle	4000 rpm, 30 kW (40 HP)
Second spindle	4000 rpm, 26 kW (35 HP)
Milling spindle	12000 rpm, 24 kW (32 HP)

i-450H S

Universal	1500U · 2500U
Chuck size	12" / 10"
Max. machining length	1519 mm · 2500 mm (59.80" · 98.43")
Max. machining diameter	Φ670 mm (Φ26.38")
Max. machining diameter (lower turret)	-
Travel (X / Y / Z / B)	695 mm / 300 mm / 1585 mm · 2566mm / -30° ~ 210° (27.36" / 11.81" / 62.40" · 101.02" / -30° ~ 210°)
(X2 / Z2)	-
Tool storage capacity	38, 74*, 112* / -
Main spindle	3300 rpm, 37 kW (50 HP)
Second spindle	4000 rpm, 26 kW (35 HP)
Milling spindle	12000 rpm, 24 kW (32 HP)

i-250H ST

Universal	1500U
Chuck size	8" / 8"
Max. machining length	1519 mm (59.80")
Max. machining diameter	Φ670 mm (Φ26.38")
Max. machining diameter (lower turret)	Φ420 mm (Φ16.54")
Travel (X / Y / Z / B)	695 mm / 300 mm / 1585 mm / -30° ~ 210° (27.36" / 11.81" / 62.40" / -30° ~ 210°)
(X2 / Z2)	220 mm / 1539 mm (8.66" / 60.59")
Tool storage capacity	38, 74*, 112* / 12*2
Main spindle	5000 rpm, 22 kW (30 HP)
Second spindle	5000 rpm, 18.5 kW (25 HP)
Milling spindle	12000 rpm, 24 kW (32 HP)

i-350H ST

Universal	1500U
Chuck size	10" / 10"
Max. machining length	1519 mm (59.80")
Max. machining diameter	Φ670 mm (Φ26.38")
Max. machining diameter (lower turret)	Φ420 mm (Φ16.54")
Travel (X / Y / Z / B)	695 mm / 300 mm / 1585 mm / -30° ~ 210° (27.36" / 11.81" / 62.40" / -30° ~ 210°)
(X2 / Z2)	220 mm / 1539 mm (8.66" / 60.59")
Tool storage capacity	38, 74*, 112* / 12*2
Main spindle	4000 rpm, 30 kW (40 HP)
Second spindle	4000 rpm, 26 kW (35 HP)
Milling spindle	12000 rpm, 24 kW (32 HP)

i-450H ST

Universal	1500U
Chuck size	12" / 10"
Max. machining length	1519 mm (59.80")
Max. machining diameter	Φ670 mm (Φ26.38")
Max. machining diameter (lower turret)	Φ420 mm (Φ16.54")
Travel (X / Y / Z / B)	695 mm / 300 mm / 1585 mm / -30° ~ 210° (27.36" / 11.81" / 62.40" / -30° ~ 210°)
(X2 / Z2)	220 mm / 1539 mm (8.66" / 60.59")
Tool storage capacity	38, 74*, 112* / 12*2
Main spindle	3300 rpm, 37 kW (50 HP)
Second spindle	4000 rpm, 26 kW (35 HP)
Milling spindle	12000 rpm, 24 kW (32 HP)

*Option *1Depends on chuck specifications *29 tools for slant lower turret



Multi-Tasking Machine for Large Workpieces

INTEGREX i-500 SERIES

A wide variety of spindle, center distance and lower turret specifications are available to meet your production requirements. The newly developed compact milling spindle expands the machining area and reduces interference. Additionally, the 430 mm (16.93") Y-axis stroke provides a large machining area.



INTEGREX i-500 (2500U)

	i-500	i-500S	i-500ST
Universal	1500U · 2500U · 3000U	1500U · 2500U · 3000U	1500U · 2500U
Max.machining diameter	Φ700 mm (Φ27.56")	Φ700 mm (Φ27.56")	Φ700 mm (Φ27.56")
Max. machining diameter (lower turret)	-	-	Φ490 mm (Φ19.27")
Travel (X / Y / Z / B) (upper turret)	845 mm / 430 mm / 1640 mm · 2660 mm · 3140 mm / -30° ~ 210° (33.27" / 16.93" / 64.57" · 104.72" · 123.62" / -30° ~ 210°)	845 mm / 430 mm / 1640 mm · 2660 mm · 3140 mm / -30° ~ 210° (33.27" / 16.93" / 64.57" · 104.72" · 123.62" / -30° ~ 210°)	845 mm / 430 mm / 1640 mm · 2660 mm / -30° ~ 210° (33.27" / 16.93" / 64.57" · 104.72" / -30° ~ 210°)
(X2 / Z2) (lower turret)	-	-	267 mm / 1373 mm · 2393 mm (10.51" / 54.06" / 94.21")
Tool storage capacity	No.40 : 36, 72*, 110* No.50 : 36, 72*, 108*	No.40 : 36, 72*, 110* No.50 : 36, 72*, 108*	No.40 : 36, 72*, 110* No.50 : 36, 72*, 108*
Main spindle (40% ED)	4000 rpm, 30 kW (40 HP)	4000 rpm, 30 kW (40 HP)	4000 rpm, 30 kW (40 HP)
Second spindle (40% ED)	-	4000 rpm, 30 kW (40 HP)	4000 rpm, 30 kW (40 HP)
Milling spindle (40% ED)	12000 rpm, 24 kW (32 HP)	12000 rpm, 24 kW (32 HP)	12000 rpm, 24 kW (32 HP)

*Option

Compact Multi-Tasking Machine

INTEGREX i-150

A multi-tasking machine with small floor space requirements.



INTEGREX i-150

Chuck size (main)

6", 8"*

Max. machining length*1

385 mm (15.16")

Standard machining diameter

Φ340 mm (13.39")

Travel (X / Y / Z / B)

370 mm / 200 mm / 435 mm / -10° ~ 190°
(14.57" / 7.87" / 17.13" / -10° ~ 190°)

Tool storage capacity

36, 72*

Turning spindle (40% ED)*1

5000 rpm, 11 kW (15 HP)

Milling spindle (20% ED)

12000 rpm, 7.5 kW (10 HP)

*Option *1Depends on chuck specifications

INTEGREX i-150



INTEGREX j SERIES

High-performance with unsurpassed value

Your portal to multi-tasking – Designed to deliver high-speed, high-accuracy machining, ease of operation and exceptional value – the INTEGREX j series defines a new standard for multi-tasking machine tools. Multiple surface machining can be performed in the large machining area thanks to the long Y-axis stroke in a single machine setup.



INTEGREX j-300 (650U)

Long workpiece capacity

- A** Tailstock
B Second spindle

j-200 (8")

A 500U

A B 1000U

Max. machining diameter $\Phi 500$ mm ($\Phi 19.69$ ")

j-300 (10")

A 650U

A 1200U

Max. machining diameter $\Phi 500$ mm ($\Phi 19.69$ ")

j-400 (12")

A 650U

A 1200U

Max. machining diameter $\Phi 500$ mm ($\Phi 19.69$ ")

	j-200	j-200S
Universal	500U · 1000U	1000U
Chuck size (main / second)	8" / -	8" / 8"
Max. machining length* ¹	500 mm · 1016 mm (19.69" · 40.00")	910 mm ($\Phi 35.83$ ")
Max. machining diameter	$\Phi 500$ mm ($\Phi 19.69$ ")	$\Phi 500$ mm ($\Phi 19.69$ ")
Travel (X / Y / Z / B)	450 mm / 200 mm / 550 mm · 1066 mm / -30° ~ 190° (17.72" / 7.87" / 21.65" · 41.97" / -30° ~ 190°)	450 mm / 200 mm / 960 mm / -30° ~ 210° (17.72" / 7.87" / 37.8" / -30° ~ 210°)
Tool storage capacity	20, 36*, 72*	20, 36*, 72*
Main spindle (40% ED)* ¹	5000 rpm, 11 kW (15 HP), 15 kW (20 HP)*	5000 rpm, 11 kW (15 HP), 15 kW (20 HP)*
Second spindle (40% ED)* ¹	-	5000 rpm, 11 kW (15 HP)
Milling spindle (40% ED)	12000 rpm, 7.5 kW (10 HP)	12000 rpm, 7.5 kW (10 HP)
	j-300	j-400
Universal	650U · 1200U	650U · 1200U
Chuck size (main / second)	10" / -	12" / -
Max. machining length* ¹	629 mm · 1165 mm (24.76" · 45.87")	629 mm · 1165 mm (24.76" · 45.87")
Max. machining diameter	$\Phi 500$ mm ($\Phi 19.69$ ")	$\Phi 500$ mm ($\Phi 19.69$ ")
Travel (X / Y / Z / B)	615 mm / 260 mm / 695 mm · 1231 mm / -30° ~ 190° (24.21" / 10.24" / 27.36" · 48.46" / -30° ~ 190°)	615 mm / 260 mm / 695 mm · 1231 mm / -30° ~ 190° (24.21" / 10.24" / 27.36" · 48.46" / -30° ~ 190°)
Tool storage capacity	20, 36*, 72*	20, 36*, 72*
Main spindle (40% ED)* ¹	4000 rpm, 18.5 kW (25 HP)	3300 rpm, 22 kW (30 HP)
Second spindle (40% ED)* ¹	-	-
Milling spindle (40% ED)	12000 rpm, 22 kW (30 HP)	12000 rpm, 22 kW (30 HP)

*Option **Depends on chuck specifications



INTEGREX e-H SERIES

The INTEGREX e-H series efficiently performs DONE IN ONE processing of large workpieces with its powerful turning and milling spindles and rigid machine construction. The large Y-axis strokes and available capacities for long workpieces can meet the machining requirements of an extremely wide range of workpieces. A wide variety of optional equipment such as a long boring bar system and machining attachments is available to further enhance versatility.

Long workpiece capacity

- A** Tailstock
- B** Second spindle

e-500H

A B 1500U

A B 3000U

A 4000U

Max.machining diameter $\Phi 820$ mm ($\Phi 32.28$ ")

e-670H

A B 3000U

A B 4000U

A 6000U

Max.machining diameter $\Phi 1070$ mm ($\Phi 42.13$ ")

e-800H

A 4000U

A 6000U

A 8000U

Max.machining diameter $\Phi 1300$ mm ($\Phi 51.18$ ")



INTEGREX e-500H (1500U)





INTEGREX e-670H (4000U)



INTEGREX e-800H (6000U)

e-500H

Universal	1500U · 3000U · 4000U
Max. machining diameter	Φ820 mm (Φ32.28")
Travel (X / Y / Z / B)	870 mm / 500 mm / 1598 mm · 3122 mm · 4138 mm / -30° ~ 210° (34.25" / 19.69" / 62.91" · 122.91" · 162.91" / -30° ~ 210°)
Tool storage capacity	40, 80*, 120*
Main spindle (40% ED)*1	3300 rpm, 30 kW (40 HP)
Second spindle (40% ED)*1	-
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)

e-500H-S

Universal	1500U · 3000U
Max. machining diameter	Φ820 mm (Φ32.28")
Travel (X / Y / Z / B)	870 mm / 500 mm / 1598 mm · 3122 mm / -30° ~ 210° (34.25" / 19.69" / 62.91" · 122.91" / -30° ~ 210°)
Tool storage capacity	40, 80*, 120*
Main spindle (40% ED)	3300 rpm, 30 kW (40 HP)
Second spindle (40% ED)	3300 rpm, 30 kW (40 HP)
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)

e-670H

Universal	3000U · 4000U · 6000U
Max. machining diameter	Φ1070 mm (Φ42.13")*2
Travel (X / Y / Z / B)	1025 mm / 670 mm / 3122 mm · 4138 mm · 6170 mm / -30° ~ 210° (40.35" / 26.38" / 122.91" · 162.91" · 242.91" / -30° ~ 210°)
Tool storage capacity	40, 80*, 120*
Main spindle (40% ED)*1	1600 rpm, 45 kW (60 HP)*3
Second spindle (40% ED)*1	-
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)

e-670H-S

Universal	3000U · 4000U
Max. machining diameter	Φ1070 mm (Φ42.13")
Travel (X / Y / Z / B)	1025 mm / 670 mm / 3122 mm · 4138 mm / -30° ~ 210° (40.35" / 26.38" / 122.91" · 162.91" / -30° ~ 210°)
Tool storage capacity	40, 80*, 120*
Main spindle (40% ED)	1600 rpm, 45 kW (60 HP)
Second spindle (40% ED)	1600 rpm, 45 kW (60 HP)
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)

e-800H

Universal	4000U · 6000U · 8000U
Max. machining diameter	Φ1300 mm (Φ51.18")
Travel (X / Y / Z / B)	1300 mm / 800 mm / 4380 mm · 6380 mm · 8380 mm / -30° ~ 210° (51.18" / 31.50" / 172.44" · 251.18" · 329.92" / -30° ~ 210°)
Tool storage capacity	40, 80*, 120*
Main spindle (40% ED)	700 rpm, 45 kW (60 HP)
Second spindle (40% ED)	-
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)

* Option **Depends on chuck specifications **Max.swing is smaller when equipped with long boring bar system *6000U : 1000 rpm, 45 kW (60 HP)

INTEGREX e-V, VORTEX e-V SERIES

The INTEGREX e-V and VORTEX e-V series utilize double column construction together with long axes strokes to offer a large machining area extremely suitable for large workpieces such as those found in the aerospace, construction machinery and energy industries. The VORTEX e-V series can perform simultaneous 5-axis machining whereas the INTEGREX e-V series can perform simultaneous 5-axis machining plus turning operations.

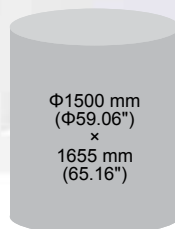
Machine construction

	Turning + 5-axis	5-axis
Double column	 INTEGREX e-V SERIES	 VORTEX e-V SERIES
Standard	INTEGREX i-V SERIES	VORTEX i-V SERIES



Single pallet

INTEGREX
VORTEX
e-1250V/8S

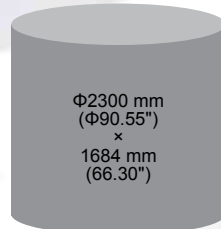


Max.workpiece size

Max.load
(including pallet weight)

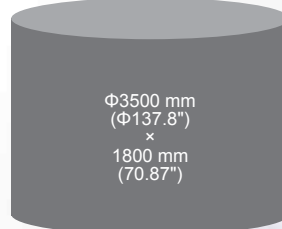
4000 kg (8819 lbs)

INTEGREX
VORTEX
e-1600V/10S



7000 kg (15432 lbs)

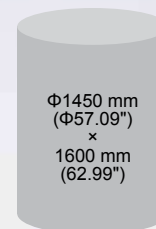
INTEGREX
e-1850V/25S



15000 kg (33069 lbs)

2-pallet changer

INTEGREX
VORTEX
e-1250V/8



Max.workpiece size

Max.load
(including pallet weight)

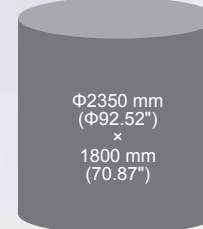
2700 kg (5952 lbs)

INTEGREX
VORTEX
e-1600V/10



5000 kg (11023 lbs)

INTEGREX
e-1850V/12



7000 kg (15432 lbs)



INTEGREX e-1850V/25S

INTEGREX e-V SERIES

The INTEGREX e-V series is the complete fusion of a 5-axis double column machining center and a vertical turning center. Large, complex workpieces such as those found in the aerospace, construction machinery and oil and gas industries can be completed by DONE IN ONE processing thanks to the large machining area and long X- and Y- axis strokes. A single table, a 2-pallet changer as well as a PALLETECH system are available depending on production requirement.



INTEGREX e-1600V10/S



INTEGREX e-1850V/12

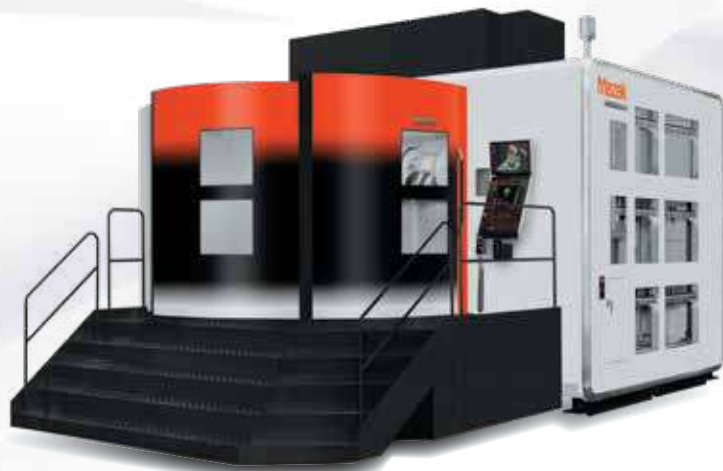
	e-1250V/8	e-1250V/8S (Single table)	e-1600V/10
Max. workpiece dimensions *1	Φ1450 mm × 1600 mm (Φ57.09" × 62.99")	Φ1500 mm × 1655 mm (Φ59.06" × 65.16")	Φ2050 mm × 1600 mm (Φ80.71" × 62.99")
Pallet size	800 mm × 800 mm (31.50" × 31.50")*, 1000 mm × 1000 mm (39.37" × 39.37")*, Φ1000 mm (Φ39.37")*	Φ800 mm (Φ31.50")*, Φ1000 mm (Φ39.37")*, Φ1250 mm (Φ49.21")*	1000 mm × 1000 mm (39.37" × 39.37")*, Φ1400 mm (Φ55.12")*
Travel (X / Y / Z)	1875 mm / 1250 mm / 1345 mm (73.82" / 49.21" / 52.95")	1875 mm / 1250 mm / 1345 mm (73.82" / 49.21" / 52.95")	2315 mm / 1600 mm / 1345 mm (91.14" / 62.99" / 52.95")
(B / C)	150° / 360°	150° / 360°	150° / 360°
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min (1654 IPM / 1654 IPM / 1654 IPM)	42 m/min / 42 m/min / 42 m/min (1654 IPM / 1654 IPM / 1654 IPM)	42 m/min / 42 m/min / 42 m/min (1654 IPM / 1654 IPM / 1654 IPM)
Turning spindle (cont. rating) *2	500 rpm, 40 kW (53 HP)	500 rpm, 40 kW (53 HP)	300 rpm, 40 kW (53 HP)
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50	CAT No.50	CAT No.50
Tool storage capacity	42, 84*, 120*, 162*, 180*, 216*, 252*, 288*, 324*, 360*	42, 84*, 120*, 162*, 180*, 216*, 252*, 288*, 324*, 360*	42, 84*, 120*, 162*, 180*, 216*, 252*, 288*, 324*, 360*
	e-1600V/10S (Single table)	e-1850V/12	e-1850V/25S (Single table)
Max. workpiece dimensions *1	Φ2300 mm × 1684 mm (Φ90.55" × 66.30")	Φ2350 mm × 1800 mm (Φ92.52" × 70.87")	Φ3500 mm × 1800 mm (Φ137.8" × 70.87")
Pallet size	Φ1250 mm (Φ49.21")*, Φ1400 mm (Φ55.12")*, Φ1500 mm (Φ59.06")*, Φ1650 mm (Φ64.96")*	1250 mm × 1250 mm (49.21" × 49.21")*, 1250 mm × 1600 mm (49.21" × 62.99")*, Φ1650 mm (Φ64.96")*, Φ1850 mm (Φ72.83")*	Φ2500 mm (Φ98.43")*, Φ3000 mm (Φ118.11")*
Travel (X / Y / Z)	2165 mm / 1600 mm / 1345 mm (85.24" / 62.99" / 52.95")	3055 mm / 1850 mm / 1800 mm (120.28" / 72.83" / 70.87")	3055 mm / 1850 mm / 1800 mm (120.28" / 72.83" / 70.87")
(B / C)	150° / 360°	150° / 360°	150° / 360°
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min (1654 IPM / 1654 IPM / 1654 IPM)	40 m/min / 40 m/min / 40 m/min (1575 IPM / 1575 IPM / 1575 IPM)	20 m/min / 40 m/min / 40 m/min (787 IPM / 1575 IPM / 1575 IPM)
Turning spindle (cont. rating) *2	300 rpm, 40 kW (53 HP)	250 rpm, 37 kW (50 HP)	75 rpm, 37 kW (50 HP)
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50	CAT No.50	CAT No.50
Tool storage capacity	42, 84*, 120*, 162*, 180*, 216*, 252*, 288*, 324*, 360*	40, 80*, 120*, 160*, 180*, 204*, 240*, 288*, 312*, 348*	40, 80*, 120*, 160*, 180*, 204*, 240*, 288*, 312*, 348*

*Option **Depends on pallet and table specifications **Depends on chuck specifications. 50 rpm for square pallet Note : Spindle and tool shank are standard specifications. Please contact your nearest Mazak office for further enquiries.



VORTEX e-V SERIES

A high performance simultaneous 5-axis machining center designed for exceptional versatility and efficiency. Thanks to the large machining area and long X- and Y-axis, multiple surface machining and simultaneous 5-axis machining can be performed on large workpieces. Various specifications such as a single table, a 2-pallet changer as well as a PALLETECH system are available depending production requirement.



VORTEX e-1250V/8S



VORTEX e-1600V/10



e-1250V/8

Max. workpiece dimensions**	Φ1450 mm × 1600 mm (Φ57.09" × 62.99")
Pallet size	800 mm × 800 mm (31.50" × 31.50")* 1000 mm × 1000 mm (39.37" × 39.37")*, Φ1000 mm (Φ39.37")*
Travel (X / Y / Z)	1875 mm / 1250 mm / 1345 mm (73.82" / 49.21" / 52.95")
(B / C)	150° / 360°
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min (1654 IPM / 1654 IPM / 1654 IPM)
Tool shank	CAT No.50
Tool storage capacity	42, 84*, 120*, 162*, 180*, 216*, 252*, 288*, 324*, 360*

e-1250V/8S (Single table)

Max. workpiece dimensions**	Φ1500 mm × 1655 mm (Φ59.06" × 65.16")
Pallet size	1000 mm × 1000 mm (39.37" × 39.37")*
Travel (X / Y / Z)	1875 mm / 1250 mm / 1345 mm (73.82" / 49.21" / 52.95")
(B / C)	150° / 360°
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min (1654 IPM / 1654 IPM / 1654 IPM)
Tool shank	CAT No.50
Tool storage capacity	42, 84*, 120*, 162*, 180*, 216*, 252*, 288*, 324*, 360*

e-1600V/10

Max. workpiece dimensions**	Φ2050 mm × 1600 mm (Φ80.71" × 62.99")
Pallet size	1000 mm × 1000 mm (39.37" × 39.37")*
Travel (X / Y / Z)	2315 mm / 1600 mm / 1345 mm (91.14" / 62.99" / 52.95")
(B / C)	150° / 360°
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min (1654 IPM / 1654 IPM / 1654 IPM)
Tool shank	CAT No.50
Tool storage capacity	42, 84*, 120*, 162*, 180*, 216*, 252*, 288*, 324*, 360*

e-1600V/10S (Single table)

Max. workpiece dimensions**	Φ2300 mm × 1684 mm (Φ90.55" × 66.30")
Pallet size	-
Travel (X / Y / Z)	2165 mm / 1600 mm / 1345 mm (85.24" / 62.99" / 52.95")
(B / C)	150° / 360°
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min (1654 IPM / 1654 IPM / 1654 IPM)
Tool shank	CAT No.50
Tool storage capacity	42, 84*, 120*, 162*, 180*, 216*, 252*, 288*, 324*, 360*

*Option **Depends on pallet and table specifications Note : Spindle and tool shank are standard specifications. Please contact your nearest Mazak office for further enquiries.



Vertical Multi-Tasking Machines with RAM

INTEGREX e-RAMTEC V SERIES

The INTEGREX e-RAMTEC V series has an expanded machining area by the ram spindle for the I.D. machining of large workpieces.



INTEGREX e-RAMTEC V/8

	e-RAMTEC V/8	e-RAMTEC V/10
Max. workpiece dimensions**	Φ1250 mm × 1250 mm (Φ49.21" × 49.21"), 800 mm × 800 mm (31.50" × 31.50") (tapped pallet)	Φ2000 mm × 1440 mm (Φ78.74" × 56.69"), 1000 mm × 1000 mm (39.37" × 39.37") (tapped pallet)
Pallet size	800 mm × 800 mm (31.50" × 31.50")*, 1000 mm × 1000 mm (39.37" × 39.37")*, Φ1000 mm (Φ39.37")*	1000 mm × 1000 mm (39.37" × 39.37")*, Φ1250 mm (Φ49.21")*, Φ1400 mm (Φ55.12")*
Travel (X / Y / Z)	1875 mm / 1060 mm / 1595 mm (73.82" / 41.73" / 62.80")	1725 mm / 1060 mm / 1450 mm (67.91" / 41.73" / 57.09")
(B / C)	150° / 360°	150° / 360°
(W)	900 mm (35.43")	900 mm (35.43")
Rapid traverse rate (X / Y / Z / W)	42 m/min / 42 m/min / 42 m/min / 30 m/min (1654 IPM / 1654 IPM / 1654 IPM / 1181 IPM)	42 m/min / 42 m/min / 42 m/min / 30 m/min (1654 IPM / 1654 IPM / 1654 IPM / 1181 IPM)
Turning spindle (cont. rating)*2	500 rpm, 30 kW (40 HP)	300 rpm, 30 kW (40 HP)
Milling spindle (30 min. rating)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)
Ram spindle (10 min. rating)	3000 rpm, 7.5 kW (10 HP)	3000 rpm, 7.5 kW (10 HP)
Tool shank (milling / ram spindle)	CAT No.50 / CAPTO C6	CAT No.50 / CAPTO C6
Tool storage capacity (milling / ram spindle)	40, 80*, 120*, 160*, 180*, 204*, 240*, 288*, 312*, 348 / 40*	40, 80*, 120*, 160*, 180*, 204*, 240*, 288*, 312*, 348 / 40*
	e-RAMTEC V/12	
Max. workpiece dimensions**	Φ2350 mm × 1800 mm (Φ92.52" × 70.87"), 1250 mm × 1250 mm (49.21" × 49.21") (tapped pallet)	
Pallet size	1250 mm × 1250 mm (49.21" × 49.21")*, 1250 mm × 1600 mm (49.21" × 62.99")*, Φ1650 mm (Φ64.96")*, Φ1850 mm (Φ72.83")*	
Travel (X / Y / Z)	3055 mm / 1700 mm / 1800 mm (120.28" / 66.93" / 70.87")	
(B / C)	150° / 360°	
(W)	900 mm (35.43")	
Rapid traverse rate (X / Y / Z / W)	40 m/min / 40 m/min / 40 m/min / 30 m/min (1654 IPM / 1654 IPM / 1654 IPM / 1181 IPM)	
Turning spindle (cont. rating)*2	250 rpm, 37 kW (50 HP)	
Milling spindle (30 min. rating)	10000 rpm, 37 kW (50 HP)	
Ram spindle (10 min. rating)	3000 rpm, 7.5 kW (10 HP)	
Tool shank (milling / ram spindle)	CAT No.50 / CAPTO C6	
Tool storage capacity (milling / ram spindle)	40, 80*, 120*, 160*, 180*, 204*, 240*, 288*, 312*, 348 / 40*	

*Option **Depends on pallet and table height **Depends on chuck specifications. 50 rpm for square pallet

INTEGRIX i-V, VORTEX i-V SERIES

The INTEGRIX i-V and VORTEX i-V series, with the design based on a horizontal machining center, have slightly smaller machining areas when compared with the INTEGRIX e-V and VORTEX e-V series. Both machine series' are capable of simultaneous 5-axis machining with the INTEGRIX i-V series being able to perform additional turning operations. These advanced multi-tasking machines were developed to provide you with exceptional versatility and unsurpassed performance.

Machine construction

	Turning + 5-axis	5-axis
Double column	INTEGRIX e-V SERIES	VORTEX e-V SERIES
Standard	 INTEGRIX i-V SERIES	 VORTEX i-V SERIES



INTEGRIX i-800V/8S

	INTEGRIX	VORTEX
Single Table	i-630V/6S	i-800V/8S
Max.workpiece size	$\Phi 1250 \text{ mm}$ $(\Phi 49.21")$ $\times$ 1400 mm $(55.12")$	$\Phi 1700 \text{ mm}$ $(\Phi 66.93")$ $\times$ INTEGRIX 1665 mm $(65.55")$ VORTEX 1600 mm $(62.99")$
Max.load (including pallet weight)	1750 kg (3858 lbs)	3500 kg (7716 lbs)
2-pallet changer	i-630V/6	i-800V/8
Max.workpiece size	$\Phi 1050 \text{ mm}$ $(\Phi 41.34")$ $\times$ 1000 mm $(39.37")$	$\Phi 1500 \text{ mm}$ $(\Phi 59.06")$ $\times$ 1500 mm $(59.06")$
Max.load (including pallet weight)	1750 kg (3858 lbs)	3000 kg (6614 lbs)



INTEGREX i-V SERIES

High-performance 5-axis simultaneous machining plus turning multi-tasking machines designed to provide exceptional versatility. The compact milling spindle headstock minimizes workpiece interference for excellent access. To ensure high-performance, the tables on the i-630V and i-800V are driven by direct drive motors. High-torque and high-speed milling spindle specifications are optionally available to meet the machining requirements of a wide variety of workpiece materials.



INTEGREX i-630V/6



INTEGREX i-800V/8S

	i-500V/5	i-630V/6	i-630V/6S (Single Table)
Max. workpiece dimensions* ¹	Φ730 mm × 1000 mm (Φ28.74" × 39.37")	Φ1050 mm × 1000 mm (Φ41.34" × 39.37") (630 mm × 630 mm (24.8" × 24.8") tapped pallet)	Φ1250 mm × 1400 (Φ49.21" × 55.12") (630 mm × 630 mm (24.8" × 24.8") tapped pallet)
Pallet size	500 mm × 500 mm (19.69" × 19.69")*, Φ610 mm (Φ24.02")	630 mm × 630 mm (24.8" × 24.8")*, 800 mm × 800 mm (31.5" × 31.5")*, Φ800 mm (Φ31.5")*, Φ1000 mm (Φ39.37")*	630 mm × 630 mm (24.8" × 24.8")*, 800 mm × 800 mm (31.5" × 31.5")*, Φ800 mm (Φ31.5")*, Φ1000 mm (Φ39.37")*
Travel (X / Y / Z)	1100 mm / 800 mm / 900 mm (43.31" / 31.50" / 35.43")	1425 mm / 1050 mm / 1050 mm (56.10" / 41.34" / 41.34")	1425 mm / 1050 mm / 1050 mm (56.10" / 41.34" / 41.34")
(B / C)	150° / 360°	150° / 360°	150° / 360°
Rapid traverse rate (X / Y / Z)	50 m/min / 50 m/min / 50 m/min (1969 IPM / 1969 IPM / 1969 IPM)	52 m/min / 52 m/min / 52 m/min (2047 IPM / 2047 IPM / 2047 IPM)	52 m/min / 52 m/min / 52 m/min (2047 IPM / 2047 IPM / 2047 IPM)
(B / C)	50 rpm / 100 rpm	30 rpm / 50 rpm	30 rpm / 50 rpm
Spindle (cont. rating)*²	1000 rpm, 18.5 kW (25 HP)	550 rpm, 37 kW (50 HP)	550 rpm, 37 kW (50 HP)
Milling spindle	12000 rpm, 22 kW (30 HP) (15 min. rating)	10000 rpm, 37 kW (50 HP) (40% ED)	10000 rpm, 37 kW (50 HP) (40% ED)
Tool shank	CAT No.40, BIG-PLUS No.40*, HSK-T63*, CAPTO C6*	CAT No.50, BIG-PLUS No.50*, HSK-T100*, CAPTO C8*	CAT No.50, BIG-PLUS No.50*, HSK-T100*, CAPTO C8*
Tool storage capacity	40, 80*, 120*, 240*, 348*	43, 80*, 120*, 160*, 206*, 240*, 348*	43, 80*, 120*, 160*, 206*, 240*, 348*
CNC	MAZATROL SmoothX	MAZATROL SmoothAi	MAZATROL SmoothAi
	i-800V/8	i-800V/8S (Single table)	
Max. workpiece dimensions* ¹	Φ1500 mm × 1500 mm (Φ59.06" × 59.06") (800 mm × 800 mm (31.5" × 31.5") tapped pallet)	Φ1700 mm × 1665 mm (Φ66.93" × 65.55") (Φ1000 mm (Φ39.37") bolt-on-table)	
Pallet size	800 mm × 800 mm (31.5" × 31.5")*, 1000 mm × 1000 mm (39.37" × 39.37")*, Φ800 mm × 1000 mm (Φ31.5" × 39.37")*, Φ1000 mm (Φ39.37")*	Φ1000 mm (Φ39.37")*, Φ1250 mm (Φ49.21")*	
Travel (X / Y / Z)	1700 mm / 1500 mm / 1150 mm (66.93" / 59.06" / 45.28")	1700 mm / 1500 mm / 1150 mm (66.93" / 59.06" / 45.28")	
(B / C)	150° / 360°	150° / 360°	
Rapid traverse rate (X / Y / Z)	52 m/min / 52 m/min / 52 m/min (2047 IPM / 2047 IPM / 2047 IPM)	52 m/min / 52 m/min / 52 m/min (2047 IPM / 2047 IPM / 2047 IPM)	
(B / C)	30 rpm / 50 rpm	30 rpm / 50 rpm	
Spindle (cont. rating)*²	500 rpm, 45 kW (60 HP)	500 rpm, 45 kW (60 HP)	
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP) (40% ED)	
Tool shank	CAT No.50, BIG-PLUS No.50*, HSK-T100*, CAPTO C8*	CAT No.50, BIG-PLUS No.50*, HSK-T100*, CAPTO C8*	
Tool storage capacity	43, 80*, 120*, 160*, 206*, 240*, 348*	43, 80*, 120*, 160*, 206*, 240*, 348*	
CNC	MAZATROL SmoothAi	MAZATROL SmoothAi	

*Option **Depends on pallet and table specifications **Depends on chuck specifications. 50 rpm for square pallet Note : Spindle and tool shank are standard specifications. Please contact your nearest Mazak office for further enquiries.

VORTEX i-V SERIES

High-performance simultaneous 5-axis machining center designed for multi-surface machining of heavy workpieces.

The machine size is comparable to that of a horizontal machining center.



VORTEX i-630V/6S



VORTEX i-800V/8S

i-630V/6

Max. workpiece dimensions*1	Φ1050 mm × 1000 mm (Φ41.34" × 39.37") (630 mm × 630 mm (24.8" × 24.8") tapped pallet)
Pallet size	630 mm × 630 mm (24.8" × 24.8")*, 800 mm × 800 mm (31.5" × 31.5")*, 800 mm × 630 mm (31.5" × 24.8")*
Travel (X / Y / Z)	1425 mm / 1050 mm / 1050 mm (56.10" / 41.34" / 41.34")
(B / C)	150° / 360°
Rapid traverse rate (X / Y / Z)	52 m/min / 52 m/min / 52 m/min (2047 IPM / 2047 IPM / 2047 IPM)
(B / C)	30 rpm / 30 rpm
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50, BIG-PLUS No.50*, HSK-A100*
Tool storage capacity	43, 80*, 120*, 160*, 206*, 240*, 348*
CNC	MAZATROL SmoothAi

i-800V/8

Max. workpiece dimensions*1	Φ1500 mm × 1500 mm (Φ59.06" × 59.06") (800 mm × 800 mm (31.5" × 31.5") tapped pallet)
Pallet size	800 mm × 800 mm (31.5" × 31.5")*, 1000 mm × 1000 mm (39.37" × 39.37")*, 800 mm × 1000 mm (31.5" × 39.37")*, Φ1000 mm (Φ39.37")*
Travel (X / Y / Z)	1700 mm / 1500 mm / 1150 mm (66.93" / 59.06" / 45.28")
(B / C)	150° / 360°
Rapid traverse rate (X / Y / Z)	52 m/min / 52 m/min / 52 m/min (2047 IPM / 2047 IPM / 2047 IPM)
(B / C)	30 rpm / 25 rpm
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50, BIG-PLUS No.50*, HSK-A100*
Tool storage capacity	43, 80*, 120*, 160*, 206*, 240*, 348*
CNC	MAZATROL SmoothAi

i-630V/6S (Single table)

Max. workpiece dimensions*1	Φ1250 mm × 1400 mm (Φ49.21" × 55.12") (630 mm × 630 mm (24.8" × 24.8") tapped pallet)
Pallet size	630 mm × 630 mm (24.8" × 24.8")*, 800 mm × 800 mm (31.5" × 31.5")*, Φ800 mm (Φ31.5")*
Travel (X / Y / Z)	1425 mm / 1050 mm / 1050 mm (56.10" / 41.34" / 41.34")
(B / C)	150° / 360°
Rapid traverse rate (X / Y / Z)	52 m/min / 52 m/min / 52 m/min (2047 IPM / 2047 IPM / 2047 IPM)
(B / C)	30 rpm / 30 rpm
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50, BIG-PLUS No.50*, HSK-A100*
Tool storage capacity	43, 80*, 120*, 160*, 206*, 240*, 348*
CNC	MAZATROL SmoothAi

i-800V/8S (Single table)

Max. workpiece dimensions*1	Φ1700 mm × 1600 mm (Φ66.93" × 62.99") (Φ1000 mm (Φ39.37") bolt-on-table)
Pallet size	800 mm × 800 mm (31.5" × 31.5")*, 1000 mm × 1000 mm (39.37" × 39.37")*, Φ1000 mm (Φ39.37")*
Travel (X / Y / Z)	1700 mm / 1500 mm / 1150 mm (66.93" / 59.06" / 45.28")
(B / C)	150° / 360°
Rapid traverse rate (X / Y / Z)	52 m/min / 52 m/min / 52 m/min (2047 IPM / 2047 IPM / 2047 IPM)
(B / C)	30 rpm / 25 rpm
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50, BIG-PLUS No.50*, HSK-A100*
Tool storage capacity	43, 80*, 120*, 160*, 206*, 240*, 348*
CNC	MAZATROL SmoothAi

*Option **Depends on pallet and table specifications Note : Spindle and tool shank are standard specifications. Please contact your nearest Mazak office for further enquiries.

5-axis Machining Centers

Simultaneous 5-axis High-Accuracy Vertical Machining Centers

VARIAXIS i SERIES

Vertical machining centers with an integral tilting / rotary table for multiple surface / simultaneous 5-axis machining. The tilting / rotary table adds a new dimension to vertical machining centers – the capability of machining the top surface, the side surfaces, and any surface in between in a single workpiece setup. Additionally, complex contours can be machined thanks to 5-axis simultaneous machining. For enhanced process integration, the i-700T, i-800T, and i-1050T can also perform turning operation.



VARIAXIS i-800T

	Turning	Simultaneous 5-axis	Multiple-surface
VARIAXIS i-T	●	●	●
VARIAXIS i	—	●	●

VARIAXIS i-500



Max. workpiece size
Max. load

Φ500 mm × 350 mm
(Φ19.69" × 13.78")
300 kg
(661 lbs)

VARIAXIS i-600 NEO



Φ700 mm × 450 mm
(Φ27.56" × 17.72")
500 kg
(1102 lbs)

VARIAXIS i-700 NEO
VARIAXIS i-700T



Φ850 mm × 500 mm
(Φ33.46" × 19.69")
700 kg
(1543 lbs)

VARIAXIS i-800 NEO
VARIAXIS i-800T

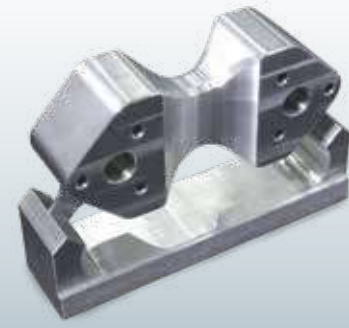


Φ1000 mm × 415 mm
(Φ39.37" × 16.34")
Φ800 mm × 500 mm
(Φ31.5" × 19.69")
1000 kg
(2205 lbs)

VARIAXIS i-1050
VARIAXIS i-1050T



Φ1250 mm × 900 mm
(Φ49.21" × 35.43")
2000 kg
(4409 lbs)





VARIAXIS i-700T



VARIAXIS i-800T



VARIAXIS i-1050T

i-500

Pallet size	Φ500mm × 400 mm (Φ19.69" × 15.75")
Travel (X / Y / Z)	350 mm / 550 mm / 510 mm (13.78" / 21.65" / 20.08")
(A / C)	-120° ~ +30° / ±360°
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 56 m/min (2362 IPM / 2362 IPM / 2205 IPM)
(A / C)	50 rpm / 50 rpm
Milling Spindle (40% ED)	12000 rpm, 22 kW (30 HP)
Tool shank	BIG-PLUS No.40, HSK-A63*
Tool storage capacity	30, 40*, 60*, 80*, 120*

i-1050

Pallet size	Φ1050 mm × 800 mm (Φ41.34" × 31.5")
Travel (X / Y / Z)	1200 mm / 1385 mm / 900 mm (47.24" / 54.53" / 35.43")
(A / C)	-150° ~ +130° / ±360°
Rapid traverse rate (X / Y / Z)	40 m/min / 40 m/min / 40 m/min (1575 IPM / 1575 IPM / 1575 IPM)
(A / C)	15 rpm / 30 rpm
Milling Spindle (40% ED)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50, BIG-PLUS No.50*, HSK-A63*, HSK-A100*
Tool storage capacity	30, 40*, 80*, 120*

i-700T

Pallet size	Φ630 mm (Φ24.80")
Travel (X / Y / Z)	630 mm / 1100 mm / 600 mm (24.80" / 43.31" / 23.62")
(A / C)	-120° ~ +30° / ±360°
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 56 m/min (2362 IPM / 2362 IPM / 2205 IPM)
(A / C)	50 rpm / 100 rpm
Milling Spindle (40% ED)	18000 rpm, 30 kW (40 HP)
Turning spindle (cont. rating)	1100 rpm, 18.3 kW (24.5 HP)
Tool shank	CAT No.40, BIG-PLUS No.40*, CAPTO C6*, HSK-T63*
Tool storage capacity	30, 40*, 80*, 120*

i-800T

Pallet size	Φ800 mm (Φ31.50")
Travel (X / Y / Z)	730 mm / 850 mm / 560 mm (28.74" / 33.46" / 22.05")
(A / C)	-130° ~ +30° / ±360°
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min (1654 IPM / 1654 IPM / 1654 IPM)
(A / C)	30 rpm / 100 rpm
Milling Spindle (40% ED)	10000 rpm, 37 kW (50 HP)
Turning spindle (cont. rating)	800 rpm, 25 kW (33.5 HP)
Tool shank	CAT No.50, BIG-PLUS No.50*, CAPTO C8*, HSK-T100*
Tool storage capacity	30, 40*, 80*, 120*

i-1050T

Pallet size	Φ1050 mm (Φ41.34")
Travel (X / Y / Z)	1200 mm / 1385 mm / 900 mm (47.24" / 54.53" / 35.43")
(A / C)	-150° ~ +130° / ±360°
Rapid traverse rate (X / Y / Z)	40 m/min / 40 m/min / 40 m/min (1575 IPM / 1575 IPM / 1575 IPM)
(A / C)	15 rpm / 30 rpm
Milling Spindle (40% ED)	10000 rpm, 37 kW (50 HP)
Turning spindle (cont. rating)	500 rpm, 25 kW (33.5 HP)
Tool shank	CAT No.50, BIG-PLUS No.50*, CAPTO C8*, HSK-T100*
Tool storage capacity	30, 40*, 80*, 120*

*Option



Simultaneous 5-axis High-Accuracy Vertical Machining Centers

VARIAXIS i NEO SERIES

Various spindle specifications meet a wide variety of machining requirements and ensure high productivity with its high-performance and high-rigidity. The machines are available with extensive automation equipment, such as PALLETECH flexible manufacturing system and MPP (MULTI PALLET POOL). Additionally, environment performance is improved with energy-saving equipment.



VARIAXIS i-800 NEO

Multi-Tasking Machines
5-axis Machining Centers

i-600 NEO

Table size	Φ600 mm × 500 mm (Φ23.62" × 19.69")
Travel (X / Y / Z)	510 mm / 910 mm / 510 mm (20.08" / 35.83" / 20.08")
(A / C)	-120° ~ +30° / ±360°
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 56 m/min (2362 IPM / 2362 IPM / 2205 IPM)
(A / C)	40 rpm / 50 rpm
Milling spindle (40% ED)	18000 rpm, 30 kW (40 HP)
Tool shank	BIG-PLUS No.40, HSK-A63*
Tool storage capacity	30, 40*, 80*, 120*, 205*, 265*, 325*, 385*, 445*, 505*

i-700 NEO

Table size	Φ700 mm × 500 mm (Φ27.56" × 19.69")
Travel (X / Y / Z)	630 mm / 1100 mm / 600 mm (24.80" / 43.31" / 23.62")
(A / C)	-120° ~ +30° / ±360°
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 56 m/min (2362 IPM / 2362 IPM / 2205 IPM)
(A / C)	32 rpm / 50 rpm
Milling spindle (40% ED)	18000 rpm, 30 kW (40 HP)
Tool shank	BIG-PLUS No.40, HSK-A63*
Tool storage capacity	30, 40*, 80*, 120*, 205*, 265*, 325*, 385*, 445*, 505*

i-800 NEO

Table size	Φ800 mm × 630 mm (Φ31.50" × 24.80")
Travel (X / Y / Z)	750 mm / 890 mm / 600 mm (29.53" / 35.04" / 23.62")
(A / C)	-120° ~ +30° / ±360°
Rapid traverse rate (X / Y / Z)	48 m/min / 48 m/min / 48 m/min (1890 IPM / 1890 IPM / 1890 IPM)
(A / C)	30 rpm / 50 rpm
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50, BIG-PLUS No.50*, HSK-A100*, CAT No.40*, BIG-PLUS No.40*, HSK-A63*
Tool storage capacity	30, 40*, 80*, 120*

*Option



VARIAXIS i-300 AWC

Compact 5-axis Machining Center with Auto Work Changer

VARIAXIS i-300 AWC

Designed for the machining of small / medium –size components with highly advanced automation : high-speed loader, multiple work stocker and tool magazine.

Tool storage capacity can be expanded to meet your production requirements – standard : 145 tools option : 205, 265, 325, 385, 445, 505 tools. Standard : 32 work stockers with 40 works stocker optionally available. Additionally, 4 types of spindle specifications are available from 12000 rpm to 30000 rpm to meet the machining requirements of a wide variety of workpiece materials.

VARIAXIS i-300 AWC

Work holder interface	CAPTO C8, HSK-A100*
Travel (X / Y / Z) (A / C)	350 mm / 550 mm / 510 mm (13.78" / 21.65" / 20.08") -120° ~ +30° / ±360°
Rapid traverse rate (X / Y / Z) (A / C)	60 m/min / 60 m/min / 56 m/min (2362 IPM / 2362 IPM / 2205 IPM) 50 rpm / 50 rpm
Milling spindle (40% ED)	12000 rpm, 22 kW (30 HP)
Tool shank	BIG-PLUS No.40, HSK-F63*, HSK-A63*
Tool storage capacity	145, 205*, 265*, 325*, 385*, 445*, 505*

*Option

VARIAXIS C-600

The VARIAXIS C-600 is 5-axis vertical machining center designed to meet production requirements by incorporating automation, AI and digital twin technology. A wide variety of spindle specifications designed for machining workpieces for a wide variety of industries are available. The tool storage capacity can be expanded – standard : 30 tools option : 60, 90, 120 tools.

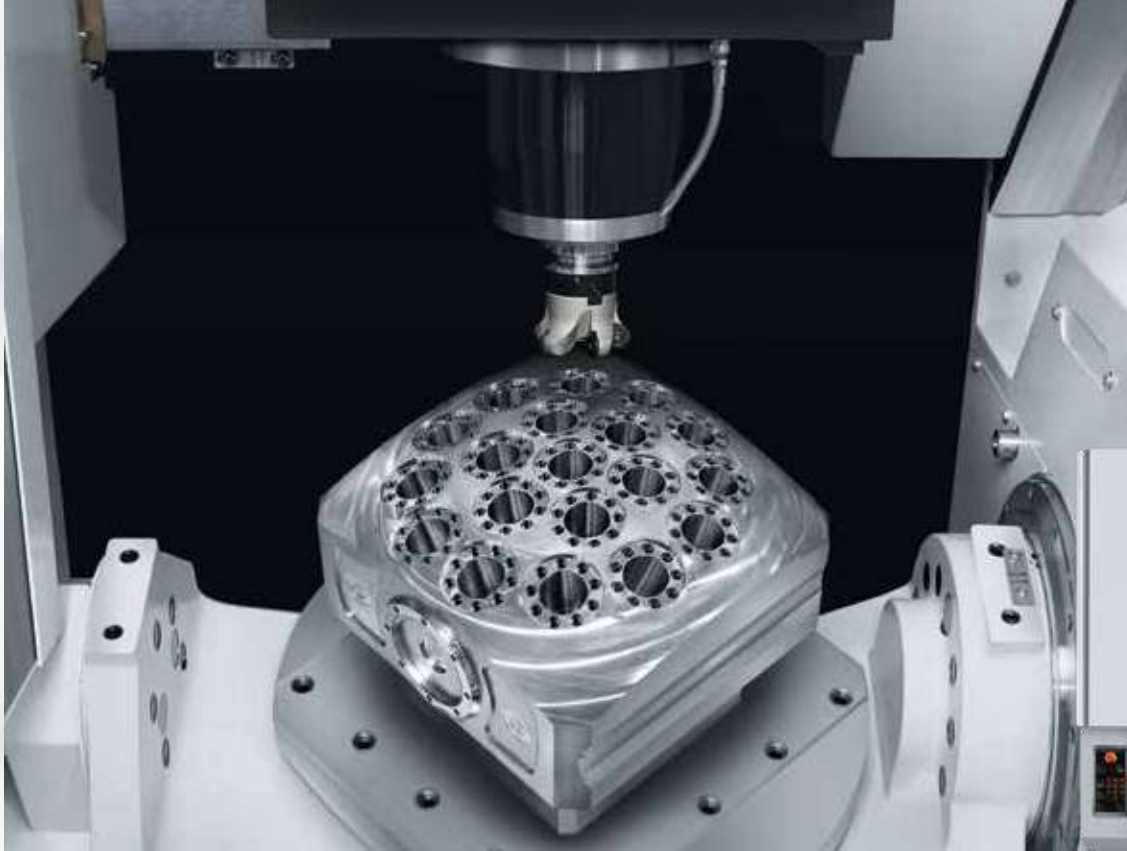


VARIAXIS C-600

VARIAXIS C-600

Table size	Φ600 mm × 500 mm (Φ23.62" × 19.69")
Travel (X / Y / Z)	650 mm / 550 mm / 530 mm (25.59" / 21.65" / 20.87")
(B / C)	-30° ~ +120° / ±360°
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min (1654 IPM / 1654 IPM / 1654 IPM)
(B / C)	30 rpm / 30 rpm
Milling spindle (40% ED)	12000 rpm, 11 kW (15 HP)
Tool shank	BIG-PLUS No.40, CAT No.40*, HSK-A63*
Tool storage capacity	30, 60*, 90*, 120*

*Option



VARIAXIS j-500

VARIAXIS j-500
VARIAXIS j-500/5X

Multiple-Surface Vertical Machining Centers

VARIAXIS j-500 SERIES

Vertical machining centers with an integral tilting / rotary table for multiple surface machining / simultaneous 4-axis machining + 1-axis positioning designed to provide you exceptional value. Machine a workpiece's top surface, side surfaces and any surface in between all in just one setup. Simultaneous 5-axis machining can be performed by the j-500/5X.

j-500, j-500/5X

Pallet size	Φ500 mm × 400 mm (Φ19.69" × 15.75")
Travel (X / Y / Z) (A / C)	350 mm / 550 mm / 510 mm (13.78" / 21.65" / 20.08") -120° ~ +30° / ±360°
Rapid traverse rate (X / Y / Z) (A / C)	30 m/min / 30 m/min / 30 m/min (1181 IPM / 1181 IPM / 1181 IPM) 30 rpm / 30 rpm
Milling spindle (40% ED)	12000 rpm, 11 kW (15 HP)
Tool shank	BIG-PLUS No.40
Tool storage capacity	18, 30*

*Option

	5-axis	Multiple-surface
VARIAXIS j-500/5X	●	●
VARIAXIS j-500	—	●



Max. work piece size

Φ500 mm × 350 mm
(Φ19.69" × 13.78")

Max. load

200 kg
(441 lbs)

UD-400/5X

Symmetrical Machine design for minimum heat displacement and high-speed 45000 rpm integral spindle / motor ensure high-accuracy over extended period of operation. High-damping mineral cast base minimizes vibration during high-speed operation.

UD-400/5X

Pallet size	320 mm × 320 mm (12.60" × 12.60")
Travel (X / Y / Z)	550 mm / 400 mm / 350 mm (21.65" / 15.75" / 13.78")
(B / C)	-120° ~ +30° / ±360°
Rapid traverse rate (X / Y / Z)	48 m/min / 48 m/min / 48 m/min (1890 IPM / 1890 IPM / 1890 IPM)
(B / C)	60 rpm / 150 rpm
Milling spindle (40% ED)	45000 rpm, 13.8 kW (18.5 HP)
Tool shank	HSK-E40
Tool storage capacity	40, 80*

*Option



UD-400/5X

HCR-5000 SERIES

The HCR series is designed for high-efficiency machining of small-medium size components, such as those found in the aerospace, semiconductor equipment machinery, and automotive component machinery industries. To meet your production requirements, 4 types of spindle specifications are available – 12000 rpm (18.5 kW) [40% ED], 18000 rpm (35 kW)* [40% ED], 25000 rpm (23 kW)* [40% ED], 30000 rpm (80 kW)* [cont. rating].

Thanks to the center trough below the machine table, extremely smooth chip disposal is ensured.

*Option

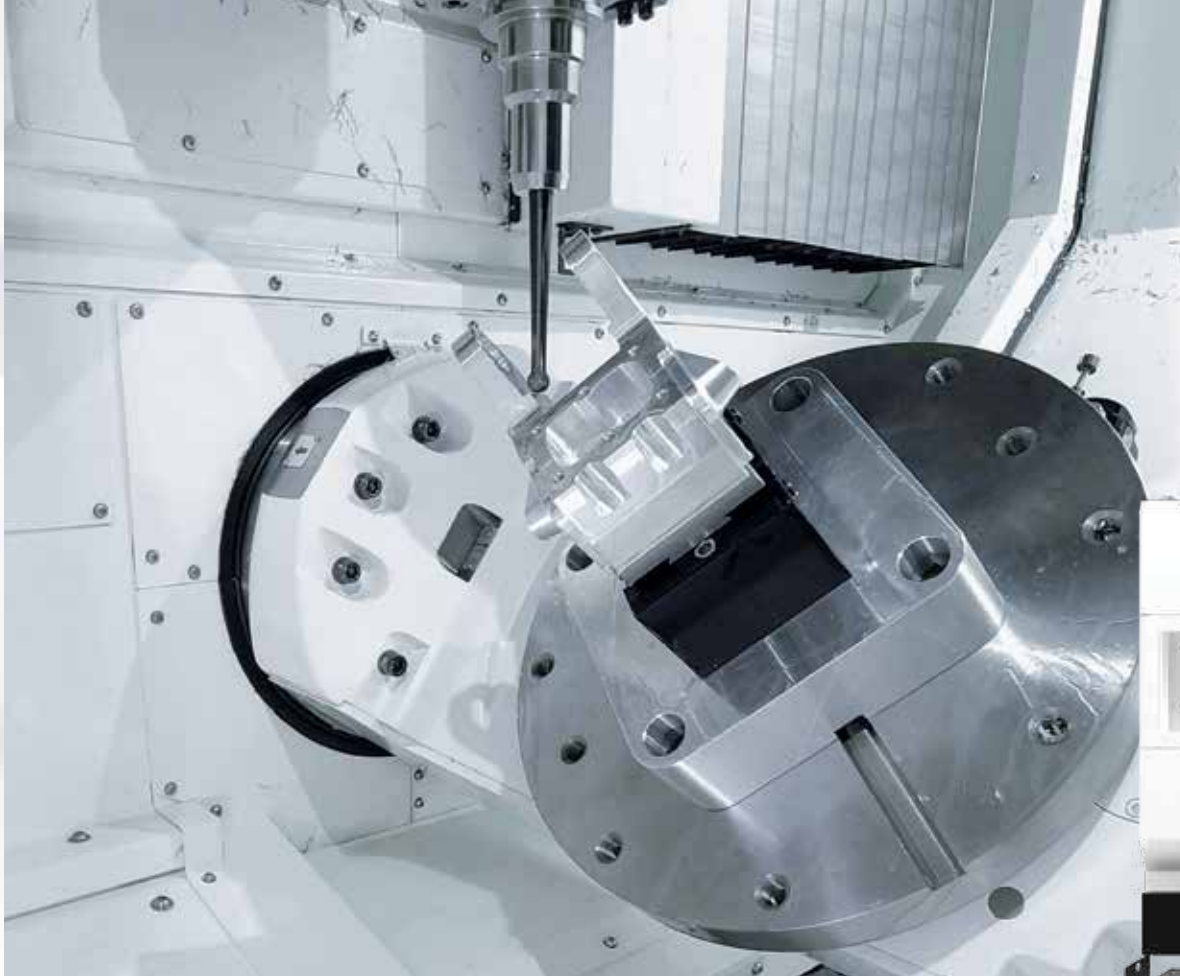
5000

Max. workpiece dimensions*1	Φ700 mm × 643.6 mm (Φ27.56" × 25.34")	Φ700 mm × 643.6 mm (Φ27.56" × 25.34")
Pallet size	500 mm × 500 mm (19.69" × 19.69")	Φ630 mm (Φ24.80")
Travel (X / Y / Z)	730 mm / 730 mm / 730 mm (28.74" / 28.74" / 28.74")	730 mm / 730 mm / 730 mm (28.74" / 28.74" / 28.74")
(A / C)	-90° ~ +135° / ±360°	-90° ~ +135° / ±360°
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 60 m/min (2362 IPM / 2362 IPM / 2362 IPM)	60 m/min / 60 m/min / 60 m/min (2362 IPM / 2362 IPM / 2362 IPM)
(A / C)	30 rpm / 50 rpm	30 rpm / 50 rpm
Milling spindle (40% ED)	12000 rpm, 18.5 kW (25 HP)	12000 rpm, 18.5 kW (25 HP)
Tool shank	BIG-PLUS No.40, HSK-A63*	BIG-PLUS No.40, HSK-A63*
Tool storage capacity	40, 60*, 80*, 120*, 160*, 240*, 348*	40, 60*, 80*, 120*, 160*, 240*, 348*

5000S (Single table)



HCR-5000



VC-Ez 16X

5-axis Vertical Machining Centers

VC-Ez X SERIES

Expanding the Mazak legacy of dependable, high-quality vertical machining centers, the VC-Ez X Series of machines deliver high performance and accuracy with unparalleled value. Designed and built in Kentucky, VC-Ez X Series machines are optimized for simple operation as well as fast and easy installation, and offer enhanced ergonomics, stable and reliable part processing and long-term reliability.

	16X	20X
Table size	400 mm (15.75")	500 mm (19.69")
Travel (X / Y / Z)	705 mm / 410 mm / 410 mm (27.76" / 16.14" / 16.14")	800 mm / 510 mm / 510 mm (31.50" / 20.08" / 20.08")
(B / C)	-110° ~ +40° / ±360°	-110° ~ +40° / ±360°
Rapid traverse rate (X / Y / Z)	32 m/min / 32 m/min / 32 m/min (1260 IPM / 1260 IPM / 1260 IPM)	32 m/min / 32 m/min / 32 m/min (1260 IPM / 1260 IPM / 1260 IPM)
(B / C)	40 rpm / 50 rpm	37.5 rpm / 40 rpm
Spindle (5 min. rating)	12000 rpm, 18.5 kW (24.8 HP)	12000 rpm, 18.5 kW (24.8 HP)
Tool shank	CAT No.40	CAT No.40
Tool storage capacity	30, 50*	30, 50*

*Option

VORTEX HORIZONTAL PROFILER SERIES

Designed for the machining of mid to large aerospace components with unsurpassed efficiency. High-speed simultaneous 5-axis machining.

	160	160 XP
Table size	4000 mm × 1250 mm (157.48" × 49.21")	4000 mm × 1600 mm (157.48" × 62.99")
Travel (X / Y / Z)	4200 mm / 1500 mm / 550 mm (165.35" / 59.06" / 21.65")	4200 mm / 1500 mm / 550 mm (165.35" / 59.06" / 21.65")
(A / C)	±110° / ±200°, 360°continuous*	±110° / 360°continuous
Rapid traverse rate (X / Y / Z)	35 m/min / 30 m/min / 30 m/min (1378 IPM / 1181 IPM / 1181 IPM)	35 m/min / 30 m/min / 30 m/min (1378 IPM / 1181 IPM / 1181 IPM)
(A / C)	50 rpm / 50 rpm	50 rpm / 50 rpm
Spindle (cont. rating)	26000 rpm, 45 kW (60 HP), 30000 rpm, 90 kW (120 HP)*	30000 rpm, 120 kW (160 HP)
Tool shank**	HSK-A63, HSK-A63/80mz*	HSK-A63/80mz
Tool storage capacity	30, 60*, 96*, 120*	60, 96*

*Option **HSK-A63/80mz is Mazak tool shank



VORTEX HORIZONTAL
PROFILER 160 XP

VORTEX II SERIES

Designed for the machining of large, complex aerospace components. The VORTEX 815/120-II features C-frame construction, while the larger VORTEX 1400/160-II has a double column design.

	815/120-II	1400/160-II
Table size	3240 mm × 810 mm (127.56" × 31.89")	4000 mm × 1250 mm (157.48" × 49.21")
Travel (X / Y / Z)	3048 mm / 810 mm / 610 mm (120.00" / 31.89" / 24.02")	4200 mm / 1400 mm / 610 mm (165.35" / 55.12" / 24.02")
(A / B)	±40° / ±40°	±40° / ±40°
Rapid traverse rate (X / Y / Z)	24 m/min / 24 m/min / 20 m/min (945 IPM / 945 IPM / 787 IPM)	20 m/min / 32 m/min / 20 m/min (787 IPM / 1260 IPM / 787 IPM)
(A / B)	10 rpm / 10 rpm	10 rpm / 10 rpm
Spindle (30 min. rating)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50	CAT No.50
Tool storage capacity	30, 60*	30, 60*, 120*

*Option



VORTEX 1400/160-II

VERSATECH V SERIES

Adjustable rail and nutating headstock make it possible for the spindle to be positioned in the vertical and horizontal orientation and any angle in between so that a workpiece top surface and side surfaces can be machined in a single setup. Designed for high productivity thanks to the maximum feedrate of 30 m/min (1181 IPM) high-speed feedrate for the X-, Y-, Z-axis and the No.50 taper integral spindle / motor.



VERSATECH V-140N/280

V-100N/160

Distance between columns	2750 mm (108.27")
Table size	2100 mm × 3000 mm (82.68" × 118.11")
Travel (X / Y / Z / W)	4000 mm / 3600 mm / 710 mm / 1250 mm (157.48" / 141.73" / 27.95" / 49.21")
(B / C)	±100° / ±180°
Rapid traverse rate (X / Y / Z / W)	30 m/min / 30 m/min / 30 m/min / 3 m/min (1181 IPM / 1181 IPM / 1181 IPM / 118.1 IPM)
Spindle (40% ED)	8000 rpm (40 kW) (54 HP), 12000 rpm (45 kW) (60 HP)
Tool shank	CAT No.50, HSK-A100*
Tool storage capacity	30, 60*, 120*

V-100N/200

Distance between columns	2750 mm (108.27")
Table size	2100 mm × 4000 mm (82.68" × 157.48")
Travel (X / Y / Z / W)	5000 mm / 3600 mm / 710 mm / 1250 mm (196.85" / 141.73" / 27.95" / 49.21")
(B / C)	±100° / ±180°
Rapid traverse rate (X / Y / Z / W)	30 m/min / 30 m/min / 30 m/min / 3 m/min (1181 IPM / 1181 IPM / 1181 IPM / 118.1 IPM)
Spindle (40% ED)	8000 rpm (40 kW) (54 HP), 12000 rpm (45 kW) (60 HP)
Tool shank	CAT No.50, HSK-A100*
Tool storage capacity	30, 60*, 120*

V-100N/240

Distance between columns	2750 mm (108.27")
Table size	2100 mm × 5000 mm (82.68" × 196.85")
Travel (X / Y / Z / W)	6000 mm / 3600 mm / 710 mm / 1250 mm (236.22" / 141.73" / 27.95" / 49.21")
(B / C)	±100° / ±180°
Rapid traverse rate (X / Y / Z / W)	30 m/min / 30 m/min / 30 m/min / 3 m/min (1181 IPM / 1181 IPM / 1181 IPM / 118.1 IPM)
Spindle (40% ED)	8000 rpm (40 kW) (54 HP), 12000 rpm (45 kW) (60 HP)
Tool shank	CAT No.50, HSK-A100*
Tool storage capacity	30, 60*, 120*

V-140N/280

Distance between columns	3750 mm (147.64")
Table size	3100 mm × 6000 mm (122.05" × 236.22")
Travel (X / Y / Z / W)	7000 mm / 4600 mm / 710 mm / 1250 mm (275.59" / 181.10" / 27.95" / 49.21")
(B / C)	±100° / ±180°
Rapid traverse rate (X / Y / Z / W)	30 m/min / 30 m/min / 30 m/min / 3 m/min (1181 IPM / 1181 IPM / 1181 IPM / 118.1 IPM)
Spindle (40% ED)	8000 rpm (40 kW) (54 HP), 12000 rpm (45 kW) (60 HP)
Tool shank	CAT No.50, HSK-A100*
Tool storage capacity	30, 60*, 120*

V-140N/360

Distance between columns	3750 mm (147.64")
Table size	3100 mm × 8000 mm (122.05" × 314.96")
Travel (X / Y / Z / W)	9000 mm / 4600 mm / 710 mm / 1250 mm (354.33" / 181.10" / 27.95" / 49.21")
(B / C)	±100° / ±180°
Rapid traverse rate (X / Y / Z / W)	15 m/min / 30 m/min / 30 m/min / 3 m/min (591 IPM / 1181 IPM / 1181 IPM / 118.1 IPM)
Spindle (40% ED)	8000 rpm (40 kW) (54 HP), 12000 rpm (45 kW) (60 HP)
Tool shank	CAT No.50, HSK-A100*
Tool storage capacity	30, 60*, 120*

V-140N/440

Distance between columns	3750 mm (147.64")
Table size	3100 mm × 10000 mm (122.05" × 393.70")
Travel (X / Y / Z / W)	11000 mm / 4600 mm / 710 mm / 1250 mm (433.07" / 181.10" / 27.95" / 49.21")
(B / C)	±100° / ±180°
Rapid traverse rate (X / Y / Z / W)	15 m/min / 30 m/min / 30 m/min / 3 m/min (591 IPM / 1181 IPM / 1181 IPM / 118.1 IPM)
Spindle (40% ED)	8000 rpm (40 kW) (54 HP), 12000 rpm (45 kW) (60 HP)
Tool shank	CAT No.50, HSK-A100*
Tool storage capacity	30, 60*, 120*

*Option



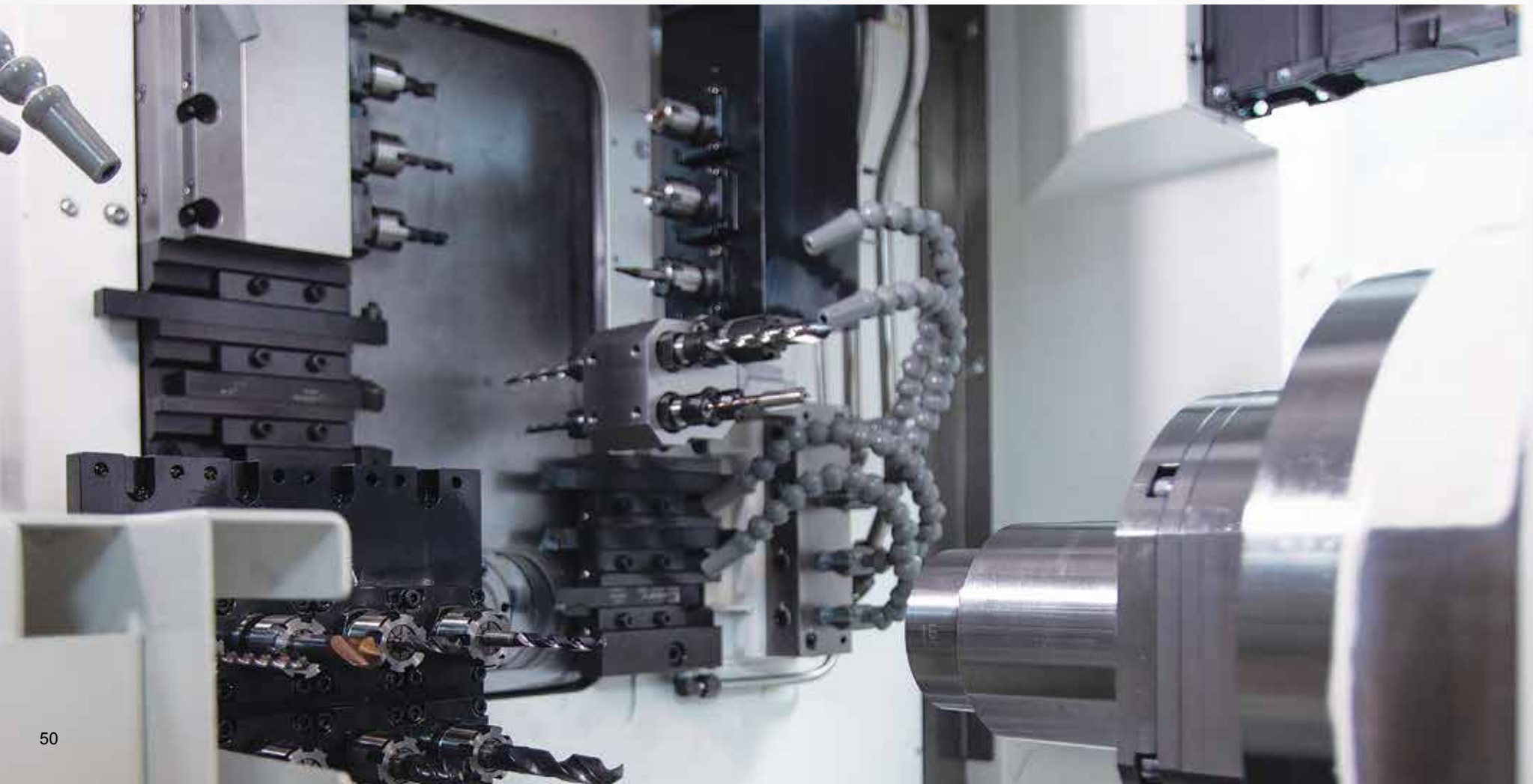
Mazak

CNC Turning Centers

Swiss-Type Production Turning Machines

SYNCREX SERIES

Designed to meet the machining requirements of small workpieces. Machines run full bar capacity with no special bar end prep. Mazak High-Damping Composite Casting ensures less thermal distortion for high-accuracy cutting.





SYNCREX 25/9



SYNCREX 38/9X

Max. turning diameter (main / second)	20/7
Spindle (main / second) (40% ED)	10000 rpm, 3.7 kW (5 HP)
Tool storage capacity	27
Cross drill live tools	6000 rpm, 1.0 kW (1.4 HP)
Back end face tools	-
B-axis tool	-

Max. turning diameter (main / second)	20/8
Spindle (main / second) (40% ED)	10000 rpm, 3.7 kW (5 HP)
Tool storage capacity	33
Cross drill live tools	6000 rpm, 1.0 kW (1.4 HP)
Back end face tools	6000 rpm, 0.9 kW (1.3 HP)
B-axis tool	-

Max. turning diameter (main / second)	20/9, 20/9X
Spindle (main / second) (40% ED)	10000 rpm, 3.7 kW (5 HP)
Tool storage capacity	36
Cross drill live tools	6000 rpm, 1.0 kW (1.4 HP)
Back end face tools	6000 rpm, 0.9 kW (1.3 HP)
B-axis tool	9000 rpm, 0.9 kW (1.3 HP)

Max. turning diameter (main / second)	25/7
Spindle (main / second) (40% ED)	10000 rpm, 5.5 kW (7.5 HP)
Tool storage capacity	27
Cross drill live tools	6000 rpm, 1.0 kW (1.4 HP)
Back end face tools	-
B-axis tool	-

Max. turning diameter (main / second)	25/8
Spindle (main / second) (40% ED)	10000 rpm, 5.5 kW (7.5 HP)
Tool storage capacity	33
Cross drill live tools	6000 rpm, 1.0 kW (1.4 HP)
Back end face tools	6000 rpm, 0.9 kW (1.3 HP)
B-axis tool	-

Max. turning diameter (main / second)	25/9, 25/9X
Spindle (main / second) (40% ED)	10000 rpm, 5.5 kW (7.5 HP)
Tool storage capacity	36
Cross drill live tools	6000 rpm, 1.0 kW (1.4 HP)
Back end face tools	6000 rpm, 0.9 kW (1.3 HP)
B-axis tool	9000 rpm, 0.9 kW (1.3 HP)

Max. turning diameter (main / second)	32/7
Spindle (main / second) (40% ED)	8000 rpm, 5.5 kW (7.5 HP)
Tool storage capacity	27
Cross drill live tools	6000 rpm, 1.0 kW (1.4 HP)
Back end face tools	-
B-axis tool	-

Max. turning diameter (main / second)	32/8
Spindle (main / second) (40% ED)	8000 rpm, 5.5 kW (7.5 HP)
Tool storage capacity	36
Cross drill live tools	6000 rpm, 1.0 kW (1.4 HP)
Back end face tools	6000 rpm, 0.9 kW (1.3 HP)
B-axis tool	-

Max. turning diameter (main / second)	32/9, 32/9X
Spindle (main / second) (40% ED)	8000 rpm, 5.5 kW (7.5 HP)
Tool storage capacity	39
Cross drill live tools	6000 rpm, 1.0 kW (1.4 HP)
Back end face tools	6000 rpm, 0.9 kW (1.3 HP)
B-axis tool	9000 rpm, 0.9 kW (1.3 HP)

Max. turning diameter (main / second)	38/7
Spindle (main / second) (40% ED)	8000 rpm, 7.5 kW (10 HP)
Tool storage capacity	27
Cross drill live tools	6000 rpm, 1.0 kW (1.4 HP)
Back end face tools	-
B-axis tool	-

Max. turning diameter (main / second)	38/8
Spindle (main / second) (40% ED)	8000 rpm, 7.5 kW (10 HP)
Tool storage capacity	36
Cross drill live tools	6000 rpm, 1.0 kW (1.4 HP)
Back end face tools	6000 rpm, 0.9 kW (1.3 HP)
B-axis tool	-

Max. turning diameter (main / second)	38/9, 38/9X
Spindle (main / second) (40% ED)	8000 rpm, 7.5 kW (10 HP)
Tool storage capacity	39
Cross drill live tools	6000 rpm, 1.0 kW (1.4 HP)
Back end face tools	6000 rpm, 0.9 kW (1.3 HP)
B-axis tool	9000 rpm, 0.9 kW (1.3 HP)

QT-Ez SERIES

The QT-Ez Series of CNC Turning Centers brings maximum efficiency, reliability and value to precision small-parts production. This high-value solution is well suited to a wide range of industries and materials, with the most-popular chuck sizes as well as integral-motor turrets and rigid bed designs. QT-Ez machines can be configured with a range of tailstock, automation, chip management and Multi-Tasking options that expand their functionality – and even provide full access to DONE IN ONE® capabilities for single-setup machining.





QT-Ez 10MY



QT-Ez 10MSY

	8	8M	8MY	8MSY
Universal	500U	500U	500U	500U
Chuck size (main / second)	8"	8"	8"	8" / 5"
Max. machining diameter	410 mm (16.14")	340 mm (13.4")	340 mm (13.4")	340 mm (13.4")
Max. machining length*1	594 mm (23.47")	528 mm (20.78")	528 mm (20.78")	572 mm (22.63")
Travel (X / Y / Z / W)	215 mm / - / 625 mm / - (8.5" / - / 24.6" / -)	215 mm / - / 605 mm / - (8.5" / - / 23.8" / -)	215 mm / 100 mm / 605 mm / - (8.5" / 3.9" / 23.8" / -)	215 mm / 100 mm / 605 mm / 585 mm (8.5" / 3.9" / 23.8" / 23")
Main Spindle*1 (25% ED)	6000 rpm, 15 kW (20 HP)	6000 rpm, 15 kW (20 HP)	6000 rpm, 15 kW (20 HP)	6000 rpm, 15 kW (20 HP)
Second spindle*1 (40% ED)	-	-	-	6000 rpm, 7.5 kW (10 HP)
Rotary tool spindle (25% ED)	-	6000 rpm, 5.5 kW (7.5 HP)	6000 rpm, 5.5 kW (7.5 HP)	6000 rpm, 5.5 kW (7.5 HP)
Bar work capacity	51 mm (2")	51 mm (2")	51 mm (2")	51 mm (2")
Turret tool capacity	12	12	12	12
	10	10M	10MY	10MSY
Universal	500U	500U	500U	500U
Chuck size (main / second)	10"	10"	10"	10" / 6"
Max. machining diameter	410 mm (16.14")	340 mm (13.5")	340 mm (13.5")	340 mm (13.5")
Max. machining length*1	577 mm (22.83")	511 mm (20.21")	511 mm (20.21")	554 mm (21.85")
Travel (X / Y / Z / W)	215 mm / - / 635 mm / - (8.5" / - / 25" / -)	215 mm / - / 605 mm / - (8.5" / - / 23.8" / -)	215 mm / 100 mm / 605 mm / - (8.5" / 3.9" / 23.8" / -)	215 mm / 100 mm / 605 mm / 585 mm (8.5" / 3.9" / 23.8" / 23")
Main Spindle*1 (25% ED)	4200 rpm, 15 kW (20 HP)	4200 rpm, 15 kW (20 HP)	4200 rpm, 15 kW (20 HP)	4200 rpm, 15 kW (20 HP)
Second spindle*1 (40% ED)	-	-	-	6000 rpm, 7.5 kW (10 HP)
Rotary tool spindle (25% ED)	-	6000 rpm, 5.5 kW (7.5 HP)	6000 rpm, 5.5 kW (7.5 HP)	6000 rpm, 5.5 kW (7.5 HP)
Bar work capacity	64 mm (2.5")	64 mm (2.5")	64 mm (2.5")	64 mm (2.5")
Turret tool capacity	12	12	12	12
	12	12M	12MY	12MSY
Universal	500U	500U	500U	500U
Chuck size (main / second)	12"	12"	12"	12" / 6"
Max. machining diameter	410 mm (16.14")	340 mm (13.5")	340 mm (13.5")	340 mm (13.5")
Max. machining length*1	545 mm (21.56")	479 mm (18.94")	479 mm (18.94")	523 mm (20.59")
Travel (X / Y / Z / W)	215 mm / - / 635 mm / - (8.5" / - / 25" / -)	215 mm / - / 605 mm / - (8.5" / - / 23.8" / -)	215 mm / 100 mm / 605 mm / - (8.5" / 3.9" / 23.8" / -)	215 mm / 100 mm / 605 mm / 585 mm (8.5" / 3.9" / 23.8" / 23")
Main Spindle*1 (25% ED)	3300 rpm, 22 kW (30 HP)	3300 rpm, 22 kW (30 HP)	3300 rpm, 22 kW (30 HP)	3300 rpm, 22 kW (30 HP)
Second spindle*1 (25% ED)	-	-	-	6000 rpm, 11 kW (15 HP)
Rotary tool spindle (25% ED)	-	6000 rpm, 7.5 kW (10 HP)	6000 rpm, 7.5 kW (10 HP)	6000 rpm, 7.5 kW (10 HP)
Bar work capacity	76 mm (3")	76 mm (3")	76 mm (3")	76 mm (3")
Turret tool capacity	12	12	12	12

*1 Depends on chuck specifications

QUICK TURN SERIES

The proven QUICK TURN Series of CNC turning centers, built in Florence, Kentucky, combines productivity, accuracy, and reliability, providing excellent performance and unsurpassed production value for small to medium-sized parts. The new direct-drive tool turret eliminates the use of belts for improved part surface finishes and reduced maintenance. Rotary tool milling spindles, second turning spindles and Y-axis capability give the machines Multi-Tasking and DONE IN ONE part-processing power.



	100MS	100MY	100MSY	200
Universal	300U	300U	300U	500U
Chuck size (main / second)	6" / 5"	6"	6" / 5"	8"
Max. machining diameter	Φ280 mm (Φ11")	Φ280 mm (Φ11")	Φ280 mm (Φ11")	Φ350 mm (Φ13.78")
Max. machining length ^{*1}	409 mm (16.10")	339 mm (13.35")	409 mm (16.10")	511 mm (20.12")
Travel (X / Y / Z)	187 mm / - / 510 mm (7.25" / - / 20")	187 mm / 100 mm / 440 mm (7.25" / 4" / 17.25")	187 mm / 100 mm / 510 mm (7.25" / 4" / 20")	225 mm / - / 535 mm (8.75" / - / 21.06")
Spindle (30 min. rating) ^{*1}	15 kW (20 HP)	15 kW (20 HP)	15 kW (20 HP)	26 kW (35 HP)
Second spindle (30 min. rating)	11 kW (15 HP)	-	11 kW (15 HP)	-
Mill spindle (10 min. rating)	5.5 kW (7.5 HP)	5.5 kW (7.5 HP)	5.5 kW (7.5 HP)	-
Max. bar material diameter ^{*1}	Φ52 mm (Φ2")	Φ52 mm (Φ2")	Φ52 mm (Φ2")	Φ52 mm (Φ2")
Tool storage capacity	12	12	12	12

	200M	200MS	200MY	200MSY
Universal	500U	500U	500U	500U
Chuck size (main / second)	8"	8" / 6"	8"	8" / 6"
Max. machining diameter	Φ350 mm (Φ13.78")	Φ350 mm (Φ13.78")	Φ350 mm (Φ13.78")	Φ350 mm (Φ13.78")
Max. machining length ^{*1}	538 mm (21.18")	575 mm (22.64")	538 mm (21.18")	575 mm (22.64")
Travel (X / Y / Z)	225 mm / - / 575 mm (8.75" / - / 22.75")	225 mm / - / 575 mm (8.75" / - / 22.75")	225 mm / 100 mm / 575 mm (8.75" / 3.9" / 22.75")	225 mm / 100 mm / 575 mm (8.75" / 3.9" / 22.75")
Spindle (30 min. rating) ^{*1}	26 kW (35 HP)	26 kW (35 HP)	26 kW (35 HP)	26 kW (35 HP)
Second spindle (25% ED)	-	11 kW (15 HP)	-	11 kW (15 HP)
Mill spindle (40% ED)	7.5 kW (10 HP)	7.5 kW (10 HP)	7.5 kW (10 HP)	7.5 kW (10 HP)
Max. bar material diameter ^{*1}	Φ52 mm (Φ2")	Φ52 mm (Φ2")	Φ52 mm (Φ2")	Φ52 mm (Φ2")
Tool storage capacity	12	12	12	12

^{*1} Depends on chuck specifications



QUICK TURN 250MY



QUICK TURN 350

	250	250M	250MS	250MY
Universal	500U · 1000U	500U	500U	500U · 1000U
Chuck size (main / second)	10"	10"	10" / 6"	10"
Max. machining diameter	Φ350 mm (Φ13.78")	Φ350 mm (Φ13.78")	Φ350 mm (Φ13.78")	Φ350 mm (Φ13.78")
Max. machining length* ¹	475 mm · 995 mm (18.73" · 39.11")	504 mm (19.84")	541 mm (21.3")	504 mm · 1024 mm (19.84" · 40.23")
Travel (X / Y / Z)	225 mm / - / 515 mm · 1035 mm (8.75" / - / 20.25" · 40.75")	225 mm / - / 575 mm (8.75" / - / 22.63")	225 mm / - / 575 mm (8.75" / - / 22.63")	225 mm / 100 mm / 575 mm · 1095 mm (8.75" / 3.9" / 22.63" · 43.12")
Spindle (30 min. rating)* ¹	26 kW (35 HP)	26 kW (35 HP)	26 kW (35 HP)	26 kW (35 HP)
Second spindle (25% ED)	-	-	11 kW (15 HP)	-
Mill spindle (40% ED)	-	7.5 kW (10 HP)	7.5 kW (10 HP)	7.5 kW (10 HP)
Max. bar material diameter* ¹	Φ76 mm (Φ3")	Φ76 mm (Φ3")	Φ76 mm (Φ3")	Φ76 mm (Φ3")
Tool storage capacity	12	12	12	12
	250MSY	350	350M	350MY
Universal	500U · 1000U	650U · 1500U	650U · 1500U	650U · 1500U · 2000U
Chuck size (main / second)	10" / 6"	12"	12"	12"
Max. machining diameter	Φ350 mm (Φ13.78")	Φ420 mm (Φ16.54")	Φ420 mm (Φ16.54")	Φ420 mm (Φ16.54")
Max. machining length* ¹	541 mm · 927 mm (21.3" · 36.5")	629.8 mm · 1565 mm (24.66" · 61.61")	629.8 mm · 1565 mm (24.66" · 61.61")	629.8 mm · 1565 mm · 2080 mm (24.66" · 61.61" · 81.91")
Travel (X / Y / Z)	225 mm / 100 mm / 575 mm · 1095 mm (8.75" / 3.9" / 22.63" · 43.12")	225 mm / - / 680 mm · 1615 mm (8.75" / - / 26.77" · 63.58")	260 mm / - / 670 mm · 1605 mm (10.24" / - / 26.38" · 63.19")	260 mm / 150 mm / 670 mm · 1605 mm · 2020 mm (10.24" / 5.91" / 26.38" · 63.19" · 79.53")
Spindle (30 min. rating)* ¹	26 kW (35 HP)	30 kW (40 HP)	30 kW (40 HP)	30 kW (40 HP)
Second spindle (25% ED)	11 kW (15 HP)	-	-	-
Mill spindle (40% ED)	7.5 kW (10 HP)	-	7.5 kW (10 HP)	7.5 kW (10 HP)
Max. bar material diameter* ¹	Φ76 mm (Φ3")	Φ102 mm (Φ4")	Φ102 mm (Φ4")	Φ102 mm (Φ4")
Tool storage capacity	12	12	12	12
	350MSY	450	450M	450MY
Universal	650U · 1500U	1000U · 2000U	1000U · 2000U	2000U · 3000U
Chuck size (main / second)	12" / 10"	15" ~ 24"	15" ~ 24"	15" ~ 24"
Max. machining diameter	Φ420 mm (Φ16.54")	Φ580 mm (Φ22.83")	Φ580 mm (Φ22.83")	Φ580 mm (Φ22.83")
Max. machining length* ¹	684.3 mm · 1619.3 mm (27.05" · 63.70")	1003 mm · 2053 mm (39.57" · 80.82")	1018 mm · 2068 mm (40.07" · 81.44")	2056 mm · 3106 mm (80.82" · 122.20")
Travel (X / Y / Z)	275 mm / 150 mm / 670 mm · 1605 mm (10.83" / 5.91" / 26.38" · 63.19")	310 mm / - / 1070 mm · 2120 mm (12.2" / - / 42.13" · 83.46")	340 mm / - / 1070 mm · 2120 mm (13.39" / - / 42.13" · 83.46")	340 mm / 200 mm / 2125 mm · 3175 mm (13.39" / 7.87" / 83.66" · 125")
Spindle (30 min. rating)* ¹	30 kW (40 HP)	37 kW (50 HP)	37 kW (50 HP)	37 kW (50 HP)
Second spindle (25% ED)	26 kW (35 HP)	-	-	-
Mill spindle (40% ED)	7.5 kW (10 HP)	-	7.5 kW (10.75 HP)	7.5 kW (10.75 HP)
Max. bar material diameter* ¹	Φ102 mm (Φ4")	Φ184 mm (Φ7.24")	Φ184 mm (Φ7.24")	Φ184 mm (Φ7.24")
Tool storage capacity	12	12	12	12

*¹Depends on chuck specifications

QTE SG SERIES

The QTE SG 2-axis turning center processes a wide variety of parts with high efficiency. It has an integral spindle/motor for high-accuracy, high-speed machining, and a 12-position drum turret with minimum interference. Moreover, its simple and compact machine design helps high value performance.



QTE-100 SG



	100 SG	100M SG	100MY SG	100MSY SG
Universal	300U	500U	500U	500U
Chuck size (main / second)	6" / -	6" / -	6" / -	6" / 6"
Max. machining diameter	Φ290 mm (Φ11.42")	Φ340 mm (Φ13.39")	Φ340 mm (Φ13.39")	Φ340 mm (Φ13.39")
Max. machining length*1	299 mm (11.77")	596 mm (23.46")	596 mm (23.46")	596 mm (23.46")
Travel (X / Y / Z)	195 mm / - / 325 mm (7.68" / - / 12.80")	215 mm / - / 605 mm (8.46" / - / 23.86")	215 mm / 100 mm / 605 mm (8.46" / 3.94" / 23.86")	215 mm / 100 mm / 605 mm (8.46" / 3.94" / 23.86")
Main Spindle	5000 rpm, 11 kW (15 HP) (25% ED)*1	6000 rpm, 15 kW (20 HP) (40% ED)	6000 rpm, 15 kW (20 HP) (40% ED)	6000 rpm, 15 kW (20 HP) (40% ED)
Second spindle (30 min. rating)	-	-	-	6000 rpm, 7.5 kW (10 HP)
Mill spindle (10 min. rating)	-	4500 rpm, 5.5 kW (7.5 HP)	4500 rpm, 5.5 kW (7.5 HP)	4500 rpm, 5.5 kW (7.5 HP)
Bar work capacity*1	Φ45 mm (Φ1.77")	Φ45 mm (Φ1.77")	Φ45 mm (Φ1.77")	Φ45 mm (Φ1.77")
Turret tool capacity	12	12	12	12

*1Depends on chuck specifications

CNC Turning Center for Large-Volume Production

QT-PRIMOS 100 SG

Compact turning center with minimum floor space requirements and a high-speed, high-accuracy integral spindle/motor. Both a quick loader and gantry loader are available for large-volume production of small to mid-size components.

QT-PRIMOS 100 SG	
Chuck size	6"
Max. machining diameter	Φ180 mm (Φ7.09")
Travel (X / Z)	110 mm / 240 mm (4.33" / 9.45")
Spindle (40% ED)*1	5000 rpm, 9 kW (12 HP)
Bar work capacity*1	Φ36 mm (Φ1.42")
Turret tool capacity	8

*1Depends on chuck specifications



QT-PRIMOS 100 SG



CNC Turning Centers



Many factory automation equipment options available

QT-PRIMOS 100 SG + GL01
Automated system for a wide variety of workpieces



Powerful, Heavy-Duty CNC Turning Centers

SLANT TURN SERIES

Designed for the heavy-duty machining of large shaft workpieces and is widely used in the oil industry. A wide range of spindle bores and distance between centers is available as well as steady rests for workpiece support.



SLANT TURN 550M (C)





SLANT TURN 500M (3000U)



SLANT TURN 600 (4000U)

	500	500M	550
Universal	C · 1000U · 2000U · 3000U · 4000U	C · 1000U · 2000U · 3000U · 4000U	C · 1000U · 2000U · 3000U · 4000U
Chuck size*1	18" ~	18" ~	21" ~
Max. swing	Φ1040 mm (Φ40.94")	Φ1040 mm (Φ40.94")	Φ1040 mm (Φ40.94")
Max. machining diameter	Φ910 mm (Φ35.83")	Φ910 mm (Φ35.83")	Φ910 mm (Φ35.83")
Travel (X / Z)	465 mm / 1175 mm · 2165 mm · 3300 mm · 4190 mm (18.31" / 46.26" / 85.24" / 129.92" / 164.96")	465 mm / 1175 mm · 2165 mm · 3300 mm · 4190 mm (18.31" / 46.26" / 85.24" / 129.92" / 164.96")	465 mm / 1175 mm · 2165 mm · 3300 mm · 4190 mm (18.31" / 46.26" / 85.24" / 129.92" / 164.96")
Spindle (40% ED)	1600 rpm, 45 kW (60 HP)	1600 rpm, 45 kW (60 HP)	1000 rpm, 45 kW (60 HP)
Spindle bore	Φ185 mm (Φ7.28")	Φ185 mm (Φ7.28")	Φ275 mm (Φ10.83"), Φ320 mm (Φ12.60")*
Rotary tool spindle (4 min. rating)	-	4000 rpm, 7.5 kW (10 HP)	-
Turret tool capacity	12	12	12
	550M	600	600M
Universal	C · 1000U · 2000U · 3000U · 4000U	2000U · 3000U · 4000U	2000U · 3000U · 4000U
Chuck size*1	21" ~	21" ~	21" ~
Max. swing	Φ1040 mm (Φ40.94")	Φ1040 mm (Φ40.94")	Φ1040 mm (Φ40.94")
Max. machining diameter	Φ910 mm (Φ35.83")	Φ910 mm (Φ35.83")	Φ910 mm (Φ35.83")
Travel (X / Z)	465 mm / 1175 mm · 2165 mm · 3300 mm · 4190 mm (18.31" / 46.26" / 85.24" / 129.92" / 164.96")	465 mm / 2165 mm · 3300 mm · 4190 mm (18.31" / 85.24" / 129.92" / 164.96")	465 mm / 2165 mm · 3300 mm · 4190 mm (18.31" / 85.24" / 129.92" / 164.96")
Spindle (40% ED)	1000 rpm, 45 kW (60 HP)	500 rpm, 45 kW (60 HP)	500 rpm, 45 kW (60 HP)
Spindle bore	Φ275 mm (Φ10.83"), Φ320 mm (Φ12.60")*	Φ375 mm (Φ14.76")	Φ375 mm (Φ14.76")
Rotary tool spindle (4 min. rating)	4000 rpm, 7.5 kW (10 HP)	-	4000 rpm, 7.5 kW (10 HP)
Turret tool capacity	12	12	12

*Option **550 / 550M : Depends on spindle bore



CNC Vertical Turning Centers

MEGA TURN SERIES

Wide range of vertical turning centers designed for the machining of small to large workpieces from a wide variety of industries. The MEGA TURN 500, 600 and 900 series are available in a mirror image version for increased flexibility in machine floor layout.

Available with the MAZATROL SmoothEz.



MEGA TURN 900





MEGA TURN 600



MEGA TURN 1600

	500, 500S (Mirror image version)	500M, 500MS (Mirror image version)	600, 600S (Mirror image version)	600M, 600MS (Mirror image version)
Chuck size*	12", 15", 18"	12", 15", 18"	18", 21", 24"	18", 21", 24"
Max. swing	Φ700 mm (Φ27.56")	Φ700 mm (Φ27.56")	Φ700 mm (Φ27.56")	Φ700 mm (Φ27.56")
Max. machining diameter	Φ500 mm (Φ19.69")	Φ500 mm (Φ19.69")	Φ630 mm (Φ24.8")	Φ600 mm (Φ23.62")
Max. machining height**	462 mm (18.19")	462 mm (18.19")	550 mm (21.65")	550 mm (21.65")
Travel (X / Z)	345 mm / 520 mm (13.58" / 20.47")	345 mm / 520 mm (13.58" / 20.47")	345 mm / 520 mm (13.58" / 20.47")	345 mm / 520 mm (13.58" / 20.47")
Spindle (40% ED)*	3000 rpm, 26 kW (35 HP)	3000 rpm, 26 kW (35 HP)	2200 rpm, 30 kW (40 HP)	2200 rpm, 30 kW (40 HP)
Rotary tool spindle (10% ED)	-	4000 rpm, 7.5 kW (10 HP)	-	4000 rpm, 7.5 kW (10 HP)
Turret tool capacity	12	12	12	12

	900, 900S (Mirror image version)	900M, 900MS (Mirror image version)	1600	1600M
Chuck size*	21", 24", 28", 32", 36"	21", 24", 28", 32", 36"	Φ1250 mm (Φ49.21") (faceplate)*	Φ1250 mm (Φ49.21") (faceplate)*
Max. swing	Φ1000 mm (Φ39.37")	Φ1000 mm (Φ39.37")	Φ1650 mm (Φ64.96")	Φ1650 mm (Φ64.96")
Max. machining diameter	Φ920 mm (Φ36.22")	Φ920 mm (Φ36.22")	Φ1650 mm (Φ64.96")	Φ1650 mm (Φ64.96")
Max. machining height**	800 mm (31.5")	800 mm (31.5")	900 mm (35.43")	900 mm (35.43")
Travel (X / Y)	470 mm / 876 mm (18.50" / 34.49")	470 mm / 876 mm (18.50" / 34.49")	1140 mm / 905 mm (44.88" / 35.63")	1140 mm / 905 mm (44.88" / 35.63")
Spindle (40% ED)*	1250 rpm, 30 kW (40 HP)	1250 rpm, 30 kW (40 HP)	350 rpm, 45 kW (60 HP)	350 rpm, 45 kW (60 HP)
Rotary tool spindle (4 min. rating)	-	4000 rpm, 7.5 kW (10 HP)	-	3000 rpm, 11 kW (15 HP)
Turret tool capacity	12	12	12	12

*Option **Depends on chuck specifications



High-Efficiency 2 Turret 2 Spindle CNC Turning Centers

HQR SERIES

High-productivity 4-axis turning plus high-speed rotary tool machining of bar material. Integral spindle / motors in both left and right headstocks perform high-efficiency machining as well as high-accuracy C-axis indexing. A variety of automation equipment, such as bar feeders, workpiece load / unload systems and robots, is optionally available.



HQR-200MSY

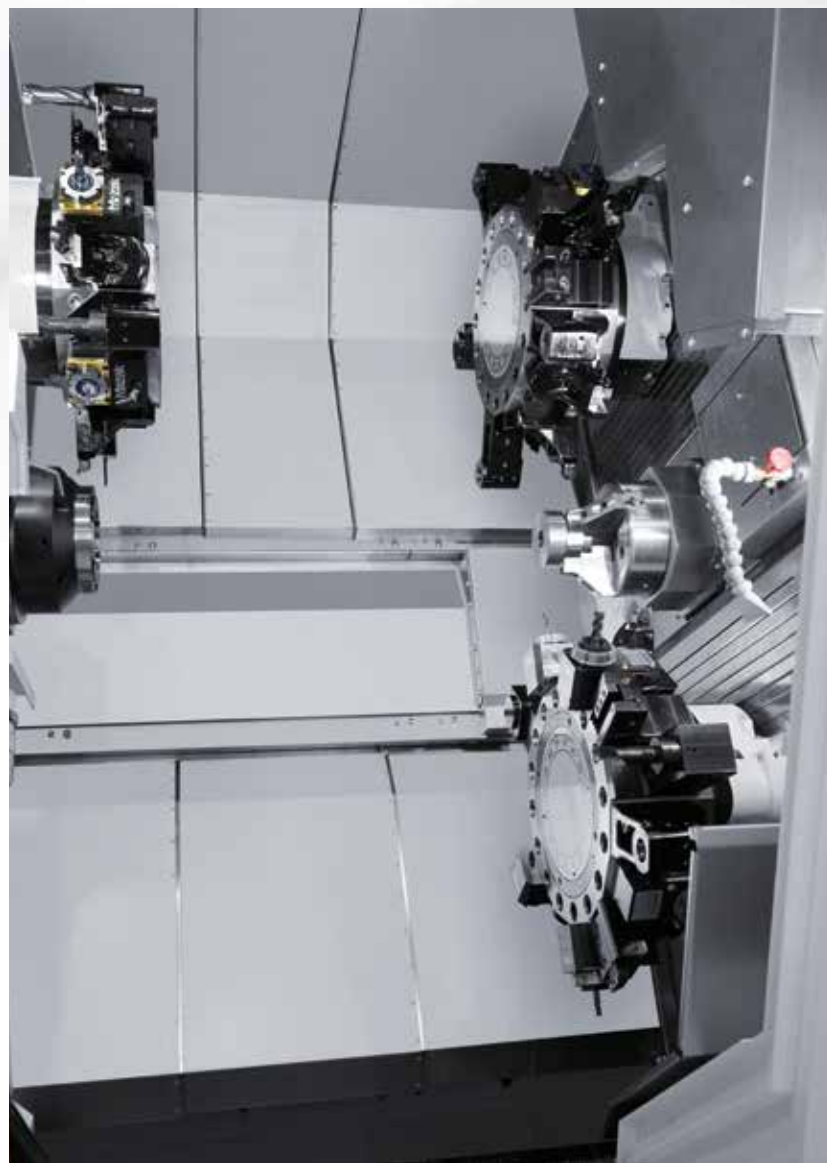
	100MSY	150MSY
Universal	600U	600U
Max. machining diameter (upper / lower turret)	Φ300 mm (Φ11.625") / Φ172 mm (Φ6.77")	Φ300 mm (Φ11.625") / Φ172 mm (Φ6.77")
Travel (X1 / Y1 / Z1)	175 mm / 100 (±50) mm / 520 mm (6.875" / 4" (±2") / 20.375")	175 mm / 100 (±50) mm / 520 mm (6.875" / 4" (±2") / 20.375")
(X2 / Y2 / Z2)	111 mm / 100 (±50) mm / 580 mm (4.3125" / 4" (±2") / 22.75")	111 mm / 100 (±50) mm / 580 mm (4.3125" / 4" (±2") / 22.75")
Main spindle (30 min. rating)*1	6000 rpm, 11 kW (15 HP)	5000 rpm, 15 kW (20 HP)
Second spindle (30 min. rating)*1	6000 rpm, 11 kW (15 HP)	6000 rpm, 11 kW (15 HP)
Rotary tool spindle (10 min. rating)	6000 rpm, 5.5 kW (7.5 HP)	6000 rpm, 5.5 kW (7.5 HP)
Bar work capacity*1	Φ52 mm (Φ2.05")	Φ65 mm (Φ2.56")
Turret tool capacity (upper / lower)	12 / 12	12 / 12
	200MSY	250MSY
Universal	850U · 1300U	850U · 1300U
Max. machining diameter (upper / lower turret)	Φ344 mm (Φ13.54") / Φ212 mm (Φ8.35")	Φ344 mm (Φ13.54") / Φ212 mm (Φ8.35")
Travel (X1 / Y1 / Z1)	207 mm / 100 (±50) mm / 760 mm · 1225 mm (8.2" / 4" (±2") / 29.875" · 48.25")	207 mm / 100 (±50) mm / 760 mm · 1225 mm (8.2" / 4" (±2") / 29.875" · 48.25")
(X2 / Y2 / Z2)	141 mm / 100 (±50) mm / 815 mm · 1280 mm (5.5625" / 4" (±2") / 32.125" · 50.5")	141 mm / 100 (±50) mm / 815 mm · 1280 mm (5.5625" / 4" (±2") / 32.125" · 50.5")
Main spindle (30 min. rating)*1	5000 rpm, 22 kW (30 HP)	4000 rpm, 26 kW (35 HP)
Second spindle (30 min. rating)*1	5000 rpm, 22 kW (30 HP)	5000 rpm, 22 kW (30 HP)
Rotary tool spindle (10 min. rating)	6000 rpm, 5.5 kW (7.5 HP)	6000 rpm, 5.5 kW (7.5 HP)
Bar work capacity*1	Φ65 mm (Φ2.56")	Φ80 mm (Φ3.15")
Turret tool capacity (upper / lower)	12 / 12	12 / 12

*1 Depends on chuck specifications

HQR-200/3 NEO

HQR-250/3 NEO

The unique 3-turret / 2-spindle machine structure enables simultaneous machining of two workpieces while ensuring balanced cutting using upper and lower turrets. The inclusion of rotary tool spindles on the turrets and a long Y-axis stroke ensures high accuracy milling and facilitates advanced process integration.



HQR-200/3 NEO

HQR-200/3 NEO

Universal	850U
Max. machining diameter (left upper / right upper / lower turret)	Φ344 mm (Φ13.54") / Φ344 mm (Φ13.54") / Φ320 mm (Φ12.6")
Travel (X1 / Y1 / Z1)	207 mm / 100 (±50) mm / 600 mm (8.15" / 4" (±2") / 23.62")
(X2 / Y2 / Z2)	253 mm / 100 (±50) mm / 600 mm (9.96" / 4" (±2") / 23.62")
(X3 / Y3 / Z3)	195 mm / 100 (±50) mm / 815 mm (7.68" / 4" (±2") / 32.09")
Main spindle (30 min. rating)*1	5000 rpm, 22 kW (30 HP)
Second spindle (30 min. rating)*1	5000 rpm, 22 kW (30 HP)
Rotary tool spindle (10 min. rating)	6000 rpm, 5.5 kW (7.5 HP)
Bar work capacity*1	Φ65 mm (Φ2.56")
Turret tool capacity (upper / lower)	12 / 12

HQR-250/3 NEO

Universal	850U
Max. machining diameter (left upper / right upper / lower turret)	Φ344 mm (Φ13.54") / Φ344 mm (Φ13.54") / Φ320 mm (Φ12.6")
Travel (X1 / Y1 / Z1)	207 mm / 100 (±50) mm / 600 mm (8.15" / 4" (±2") / 23.62")
(X2 / Y2 / Z2)	253 mm / 100 (±50) mm / 600 mm (9.96" / 4" (±2") / 23.62")
(X3 / Y3 / Z3)	195 mm / 100 (±50) mm / 815 mm (7.68" / 4" (±2") / 32.09")
Main spindle (30 min. rating)*1	4000 rpm, 26 kW (35 HP)
Second spindle (30 min. rating)*1	5000 rpm, 22 kW (30 HP)
Rotary tool spindle (10 min. rating)	6000 rpm, 5.5 kW (7.5 HP)
Bar work capacity*1	Φ80 mm (Φ3.15")
Turret tool capacity (upper / lower)	12 / 12

*1Depends on chuck specifications



2-Spindle, 2-Turret CNC Turning Centers

MULTIPLEX W SERIES

Symmetrical design with two integral spindle / motors and two turrets designed for the automatic, continuous machining of chuck workpieces. Available with milling capability, Y-axis specification and a gantry loader for even higher productivity. Thanks to the slant bed design, chips are smoothly removed from the machining area.



MULTIPLEX W-200Y
Gantry loader (GL-100) (option)

	W-200	W-200Y	W-300	W-300Y
Chuck size (left / right)	8" / 8"	8" / 8"	10" / 10"	10" / 10"
Max. swing	Φ320 mm (Φ12.6")	Φ320 mm (Φ12.6")	Φ430 mm (Φ16.93")	Φ430 mm (Φ16.93")
Max. machining length	180 mm (7.09")	180 mm (7.09")	225 mm (8.86")	225 mm (8.86")
Travel (X1 / Y1 / Z1)	275 mm / - / 490 mm (10.75" / - / 19.125")	275 mm / 100 (±50) mm / 490 mm (10.75" / 4" [±2"] / 19.125")	310 mm / - / 615 mm (12.125" / - / 24.125")	310 mm / 154 (±77) mm / 615 mm (12.125" / 6" [±3"] / 24.125")
(X2 / Y2 / Z2)	275 mm / - / 525 mm (10.75" / - / 20.625")	275 mm / 100 (±50) mm / 525 mm (10.75" / 4" [±2"] / 20.625")	310 mm / - / 615 mm (12.125" / - / 24.125")	310 mm / 154 (±77) mm / 615 mm (12.125" / 6" [±3"] / 24.125")
Spindle*1 (40% ED)	5000 rpm, 22 kW (30 HP)	5000 rpm, 22 kW (30 HP)	4000 rpm, 26 kW (35 HP)	4000 rpm, 26 kW (35 HP)
Rotary tool spindle (40% ED)	5000 rpm, 5.5 kW (7.5 HP)	5000 rpm, 5.5 kW (7.5 HP)	5000 rpm, 7.5 kW (10 HP)	5000 rpm, 7.5 kW (10 HP)
Bar work capacity*1	Φ65 mm (Φ2.56")	Φ65 mm (Φ2.56")	Φ80 mm (Φ3.15")	Φ80 mm (Φ3.15")
Turret tool capacity	12 × 2	12 × 2	12 × 2	12 × 2

*1 Depends on chuck specifications

2-Spindle, 2-Turret CNC Turning Center

DUAL TURN 200

Double-spindle, double-turret turning center designed for high productivity. The mirror image design for headstocks and turrets realizes high-efficiency machining.



DUAL TURN 200

DUAL TURN 200	
Chuck size (left / right)	8" / 8"
Max. swing	Φ320 mm (Φ12.6")
Travel (X1 / Z1)	230 mm / 500 mm (9.06" / 19.69")
(X2 / Z2)	230 mm / 500 mm (9.06" / 19.69")
Spindle*1 (40% ED)	5000 rpm, 15 kW (20 HP)
Max. bar material diameter*1	Φ52 mm (Φ2.05")
Turret tool capacity	12 × 2

*1Depends on chuck specifications

Heavy-Duty Flat Bed CNC Turning Centers

TURNING CENTER M-5, POWER MASTER SERIES

Designed for heavy-duty turning of large, long shaft workpieces such as those found in the oil industry. Maxium turning diameter of Φ1000 mm (Φ39.37") of the POWER MASTER CHUCKER is the largest for its turning center class.



TURNING CENTER M-5

	TURNING CENTER M-5	POWER MASTER Chucker	POWER MASTER Universal
Universal	2000U · 3000U	-	3000U · 4000U
Swing over bed	Φ610 mm (Φ24.02")	Φ870 mm (Φ34.25")	Φ870 mm (Φ34.25")
Max. machining diameter	Φ580 mm (Φ22.83")	Φ1000 mm (Φ39.37")	Φ840 mm (Φ33.07")
Travel (X / Z)	560 mm / 2055 mm · 3075 mm (22.05" / 80.91" · 121.06")	635 mm / 1170 mm (25" / 46.27")	670 mm / 3075 mm · 4095 mm (26"38 / 121.06" · 161.22")
Spindle (40% ED)	2200 rpm, 22 kW (30 HP)	1200 rpm, 45 kW (60 HP)	1200 rpm, 45 kW (60 HP)
Spindle bore	Φ181 mm (Φ7.13")	Φ118 mm (Φ4.65")	Φ118 mm (Φ4.65")
Turret type	Octagonal disc turret + Hexagonal boring turret	Octagonal boring turret	Octagonal disc turret + Hexagonal boring turret

Vertical Machining Centers

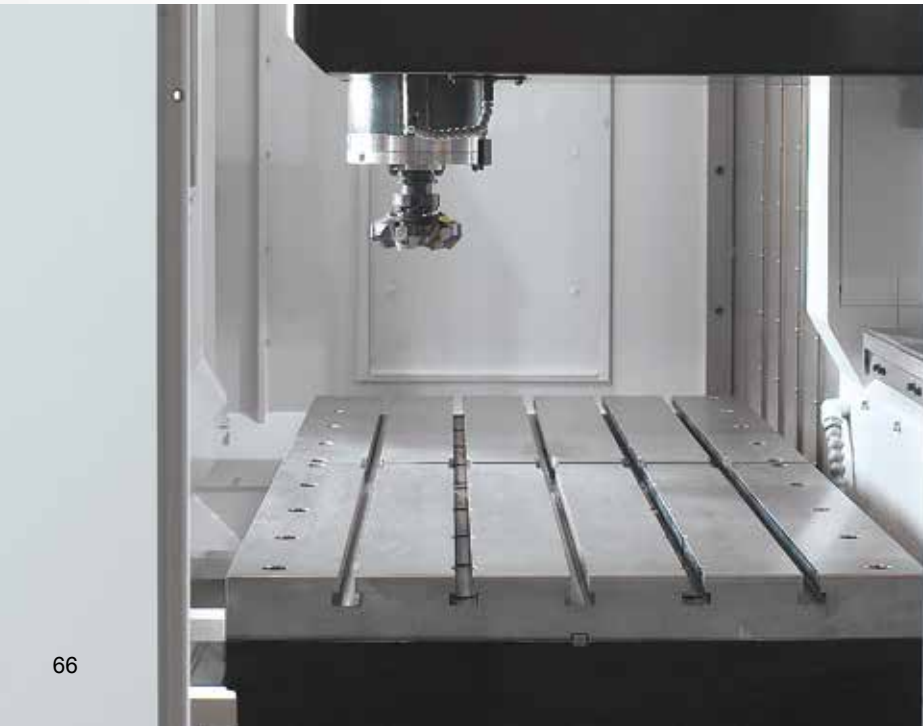
Vertical Traveling Column for Long, Heavy Workpieces

VTC SERIES

Designed and built in Florence, Kentucky, the VERTICAL TRAVELING COLUMN (VTC) Series of vertical machining centers features a full traveling-column design and fixed tables for extremely long and heavy workpieces. An optional table center partition divides the work envelope into two separate work areas that allow the machine to be in use in one area while a part unloads/loads in the other. Machines also can be outfitted with rotary tables for increased part-processing versatility.



VTC-250D





VTC-300C

200C

Table size	2000 mm × 510 mm (78.74" × 20.08")
Travel (X / Y / Z)	1660 mm / 510 mm / 510 mm (65.35" / 20.08" / 20.08")
Rapid traverse rate (X / Y / Z)	40 m/min / 40 m/min / 40 m/min (1574 IPM / 1574 IPM / 1574 IPM)
Spindle (30 min. rating)	12000 rpm, 11 kW (15 HP)
Tool shank	CAT No.40
Tool storage capacity	24, 48*

300C

Table size	2000 mm × 760 mm (78.74" × 30")
Travel (X / Y / Z)	1660 mm / 760 mm / 660 mm (65.35" / 29.92" / 25.98")
Rapid traverse rate (X / Y / Z)	40 m/min / 40 m/min / 40 m/min (1574 IPM / 1574 IPM / 1574 IPM)
Spindle (30 min. rating)	15000 rpm, 11 kW (15 HP)
Tool shank	CAT No.40
Tool storage capacity	24, 48*

800/30SR

Table size	3500 mm × 820 mm (138" × 32.3")
Travel (X / Y / Z)	3000 mm / 800 mm / 720 mm (118" / 31.5 / 28.3")
Rapid traverse rate (X / Y / Z)	50 m/min / 50 m/min / 50 m/min (1968 IPM / 1968 IPM / 1968 IPM)
Spindle (30 min. rating)	18000 rpm, 35 kW (47 HP)
Tool shank	CAT No.40
Tool storage capacity	30, 48*, 84*

250D

Table size	2100 mm × 635 mm (87.7" × 25")
Travel (X / Y / Z)	1760 mm / 635 mm / 660 mm (69.3" / 25" / 25.98")
Rapid traverse rate (X / Y / Z)	40 m/min / 40 m/min / 40 m/min (1574 IPM / 1574 IPM / 1574 IPM)
Spindle (30 min. rating)	6000 rpm, 22 kW (30 HP)
Tool shank	CAT No.50
Tool storage capacity	24

800/30SD

Table size	-
Travel (X / Y / Z)	3000 mm / 800 mm / 720 mm (118.11" / 31.50" / 28.3")
Rapid traverse rate (X / Y / Z)	50 m/min / 50 m/min / 50 m/min (1968 IPM / 1968 IPM / 1968 IPM)
Spindle (30 min. rating)	18000 rpm, 35 kW (47 HP)
Tool shank	CAT No.40
Tool storage capacity	30, 48*

800/30HD

Table size	3500 mm × 820 mm (138" × 32.3")
Travel (X / Y / Z)	3000 mm / 800 mm / 720 mm (118" / 31.5 / 28.3")
Rapid traverse rate (X / Y / Z)	50 m/min / 50 m/min / 50 m/min (1968 IPM / 1968 IPM / 1968 IPM)
Spindle (30 min. rating)	10000 rpm, 30 kW (40 HP)
Tool shank	CAT No.50
Tool storage capacity	36

*Option

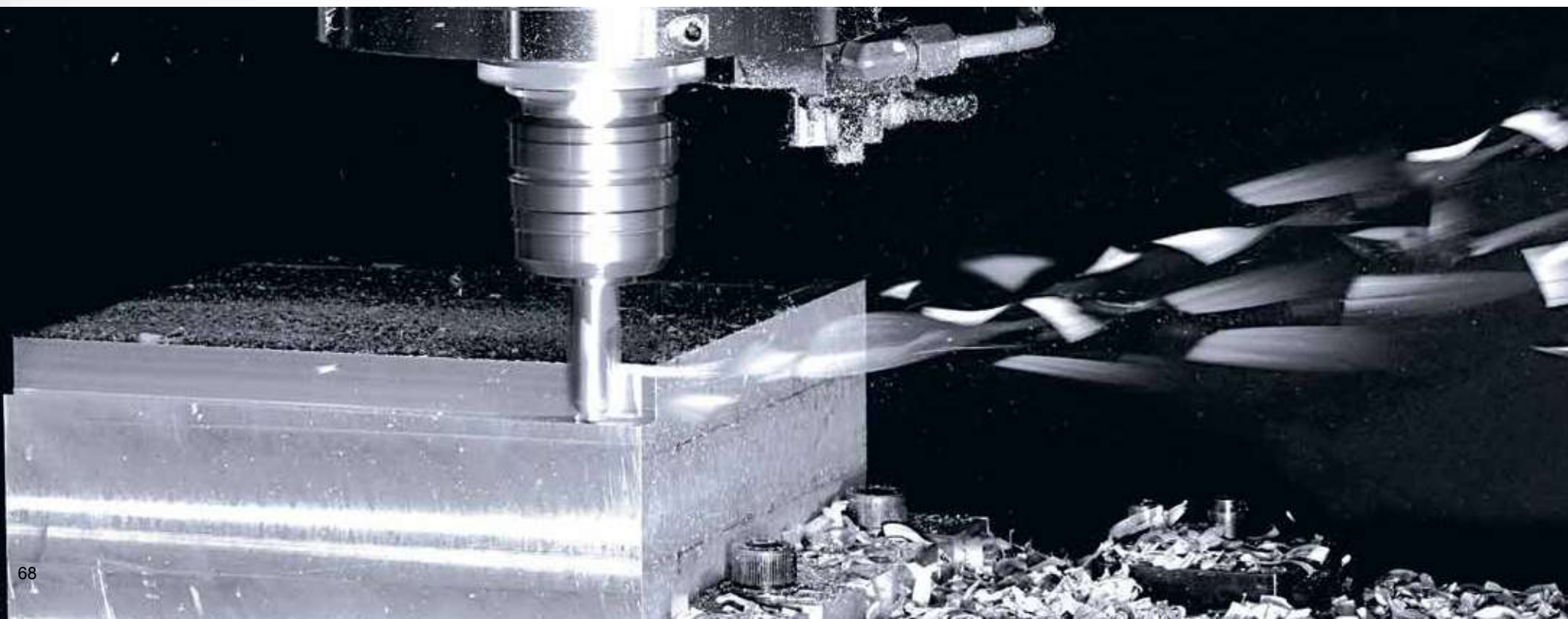
Vertical Machining Centers

VC-Ez SERIES

The VC-Ez Series offers high-value solutions backed by the industry's best warranty and customer support. A range of spindle configurations and tool magazine sizes with auto tool change capability offer exceptional part-processing versatility for a wide range of applications in a space-saving footprint.



VC-Ez 20 2PC





VC-Ez 16



VC-Ez 26



VC-Ez 32

16

Table size	950 mm × 360 mm (37.40" × 14.17")
Travel (X / Y / Z)	762 mm / 410 mm / 510 mm (30.00" / 16.14" / 20.08")
Rapid traverse rate (X / Y / Z)	36 m/min / 36 m/min / 36 m/min (1417 IPM / 1417 IPM / 1417 IPM)
Spindle (5 min.rating)	12000 rpm, 18.5 kw (25HP)
Tool shank	CAT No.40
Tool storage capacity	30, 50*

26

Table size	1400 mm × 610 mm (55.12" × 24.02")
Travel (X / Y / Z)	1270 mm / 660 mm / 635 mm (50.00" / 25.98" / 25.00")
Rapid traverse rate (X / Y / Z)	36 m/min / 36 m/min / 36 m/min (1417 IPM / 1417 IPM / 1417 IPM)
Spindle (5 min.rating)	12000 rpm, 18.5 kw (25HP)
Tool shank	CAT No.40
Tool storage capacity	30, 50*

20

Table size	1250 mm × 492 mm (49.21" × 19.37")
Travel (X / Y / Z)	1050 mm / 510 mm / 635 mm (41.34" / 20.08" / 25.00")
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min (1654 IPM / 1654 IPM / 1654 IPM)
Spindle (5 min.rating)	12000 rpm, 18.5 kw (25HP)
Tool shank	CAT No.40
Tool storage capacity	30, 50*

32 (CAT No.40)

Table size	1630 mm × 720 mm (64.17" × 28.35")
Travel (X / Y / Z)	1630 mm / 815 mm / 765mm (64.17" / 32.09" / 30.12")
Rapid traverse rate (X / Y / Z)	32 m/min / 32 m/min / 32 m/min (1259IPM / 1259IPM / 1259 IPM)
Spindle (5 min.rating)	12000 rpm, 18.5 kw (25 HP)
Tool shank	CAT No.40
Tool storage capacity	30, 50*

20 2PC

Table size	2-1000 mm × 500 mm (39.37" × 19.69")
Travel (X / Y / Z)	1145 mm / 510 mm / 510 mm (45.07" / 20.08" / 20.08")
Rapid traverse rate (X / Y / Z)	32 m/min / 32 m/min / 32 m/min (1259 IPM / 1259 IPM / 1259 IPM)
Spindle (5 min.rating)	12000 rpm, 18.5 kW (25 HP)
Tool shank	CAT No.40
Tool storage capacity	30, 50*

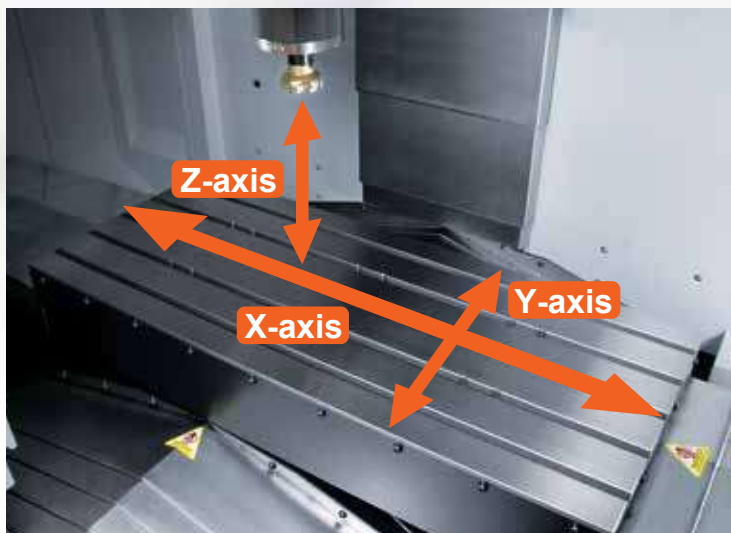
32 (CAT No.50)

Table size	1630 mm × 720 mm (64.17" × 28.35")
Travel (X / Y / Z)	1630 mm / 815 mm / 700 mm (64.17" / 32.09" / 27.56")
Rapid traverse rate (X / Y / Z)	32 m/min / 32 m/min / 32 m/min (1259 IPM / 1259 IPM / 1259 IPM)
Spindle (5 min.rating)	6000 rpm, 26.4 kW (35 HP)
Tool shank	CAT No.50
Tool storage capacity	24, 40*

*Option

VCN-575C

The VCN-575C of vertical machining center is built in Florence, Kentucky, and includes more productivity-enhancing features than any other verticals in this class. The VCN-575C combines advanced technology, productivity and value for a wide variety of machining applications, perfect for shops large and small. This machine delivers the capability and productivity necessary for today's technology-driven shops.



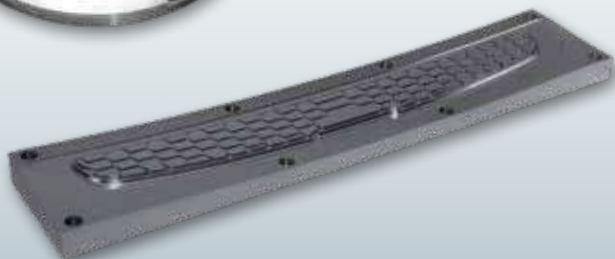
VCN-575C

VCN-575C

Table size	1300 mm × 570 mm (51.18" × 22.44")
Travel (X / Y / Z)	1050 mm / 570 mm / 510 mm (41.34" / 22.44" / 20.08")
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min (1654 IPM / 1654 IPM / 1654 IPM)
Spindle (30 min.rating)	6000 rpm, 22 kW (30 HP)
Tool shank	CAT No.50
Tool storage capacity	24



Sample Workpieces

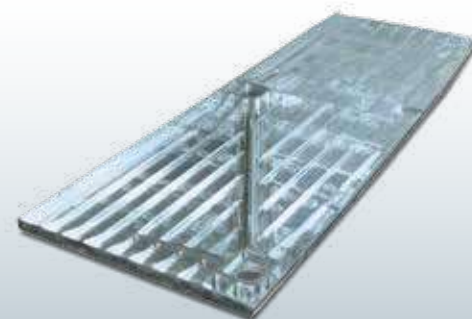
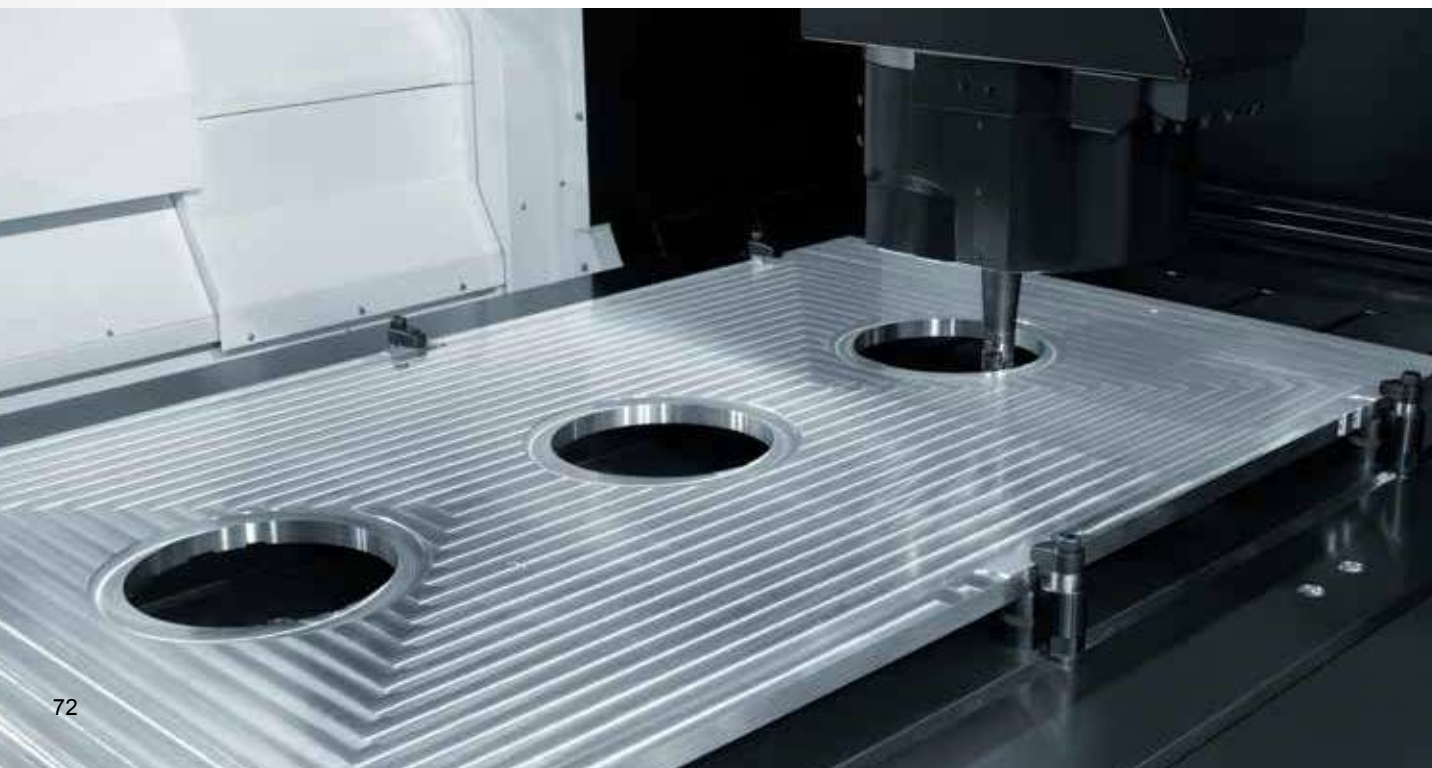


FJV SERIES

These machines offer the high-rigidity, double-column construction and high-performance spindle for high-accuracy, high-efficiency machining of large workpieces. A wide range of spindle specifications is available to meet a large variety of machining requirements. Multi-surface attachment is available as an option for the FJV-35, FJV-60 and FJV-100.



FJV-35/60





FJV-60/80



FJV-250



FJV-100/120

	200	250	35/60	35/80	35/120
Table size	800 mm × 460 mm (31.50" × 18.11")	1200 mm × 550 mm (47.24" × 21.65")	1740 mm × 750 mm (68.50" × 29.53")	2240 mm × 750 mm (88.19" × 29.53")	3240 mm × 750 mm (127.56" × 29.53")
Travel (X / Y / Z)	560 mm / 410 mm / 410 mm (22.05" / 16.14" / 16.14")	1020 mm / 510 mm / 460 mm (40.16" / 20.08" / 18.11")	1500 mm / 800 mm / 660 mm (59.06" / 31.50" / 25.98")	2000 mm / 800 mm / 660 mm (78.74" / 31.50" / 25.98")	3000 mm / 800 mm / 660 mm (118.11" / 31.50" / 25.98")
Rapid traverse rate (X / Y / Z)	52 m/min / 52 m/min / 52 m/min (2047 IPM / 2047 IPM / 2047 IPM)	52 m/min / 52 m/min / 52 m/min (2047 IPM / 2047 IPM / 2047 IPM)	40 m/min / 40 m/min / 30 m/min (1575 IPM / 1575 IPM / 1181 IPM)	40 m/min / 40 m/min / 30 m/min (1575 IPM / 1575 IPM / 1181 IPM)	32 m/min / 40 m/min / 30 m/min (1260 IPM / 1575 IPM / 1181 IPM)
Spindle (40% ED)	12000 rpm, 22 kW (30 HP)	12000 rpm, 22 kW (30 HP)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.40	CAT No.40	CAT No.50	CAT No.50	CAT No.50
Tool storage capacity	30, 40*, 60*	30, 40*, 60*	30, 60*	30, 60*	30, 60*

	60/80	60/120	60/160	100/120	100/160
Table size	2240 mm × 1250 mm (88.19" × 49.21")	3000 mm × 1250 mm (118.11" × 49.21")	4000 mm × 1250 mm (157.48" × 49.21")	3000 mm × 2000 mm (118.11" × 78.74")	4000 mm × 2000 mm (157.48" × 78.74")
Travel (X / Y / Z)	2000 mm / 1400 mm / 660 mm (78.74" / 55.12" / 25.98")	3200 mm / 1400 mm / 660 mm (125.98" / 55.12" / 25.98")	4200 mm / 1400 mm / 660 mm (165.35" / 55.12" / 25.98")	3200 mm / 2450 mm / 660 mm (125.98" / 96.46" / 25.98")	4200 mm / 2450 mm / 660 mm (165.35" / 96.46" / 25.98")
Rapid traverse rate (X / Y / Z)	40 m/min / 40 m/min / 30 m/min (1575 IPM / 1575 IPM / 1181 IPM)	32 m/min / 40 m/min / 30 m/min (1260 IPM / 1575 IPM / 1181 IPM)	22 m/min / 40 m/min / 30 m/min (866 IPM / 1575 IPM / 1181 IPM)	30 m/min / 40 m/min / 30 m/min (1181 IPM / 1575 IPM / 1181 IPM)	30 m/min / 40 m/min / 30 m/min (1181 IPM / 1575 IPM / 1181 IPM)
Spindle (40% ED)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50	CAT No.50	CAT No.50	CAT No.50	CAT No.50
Tool storage capacity	30, 60*	30, 60*	30, 60*	60	60

*Option

FJV 5 Face SERIES

Machine workpiece top and side surfaces in a single machine setup. The Mazak 5-Face Angle Head produces workpieces with high precision and high efficiency while it boosts versatility.



FJV 5 Face-60/80

Mazak 5 Face Angle Head

Continuous 4 side machining



0°



90°



180°



270°

	35/60	35/80	35/120	60/80
Table size	1740 mm × 750 mm (68.50" × 29.53")	2240 mm × 750 mm (88.19" × 29.53")	3240 mm × 750 mm (127.56" × 29.53")	2240 mm × 1250 mm (88.19" × 49.21")
Travel (X / Y / Z)	1500 mm / 800 mm / 660 mm (59.06" / 31.50" / 25.98")	2000 mm / 800 mm / 660 mm (78.74" / 31.50" / 25.98")	3000 mm / 800 mm / 660 mm (118.11" / 31.50" / 25.98")	2000 mm / 1400 mm / 660 mm (78.74" / 55.12" / 25.98")
Rapid traverse rate (X / Y / Z)	40 m/min / 40 m/min / 30 m/min (1575 IPM / 1575 IPM / 1181 IPM)	40 m/min / 40 m/min / 30 m/min (1575 IPM / 1575 IPM / 1181 IPM)	32 m/min / 40 m/min / 30 m/min (1260 IPM / 1575 IPM / 1181 IPM)	40 m/min / 40 m/min / 30 m/min (1575 IPM / 1575 IPM / 1181 IPM)
Spindle (40% ED)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50	CAT No.50	CAT No.50	CAT No.50
Tool storage capacity	30, 60*	30, 60*	30, 60*	30, 60*

	60/120	60/160	100/120	100/160
Table size	3000 mm × 1250 mm (118.11" × 49.21")	4000 mm × 1250 mm (157.48" × 49.21")	3000 mm × 2000 mm (118.11" × 78.74")	4000 mm × 2000 mm (157.48" × 78.74")
Travel (X / Y / Z)	3200 mm / 1400 mm / 660 mm (125.98" / 55.12" / 25.98")	4200 mm / 1400 mm / 660 mm (165.35" / 55.12" / 25.98")	3200 mm / 2450 mm / 660 mm (125.98" / 96.46" / 25.98")	4200 mm / 2450 mm / 660 mm (165.35" / 96.46" / 25.98")
Rapid traverse rate (X / Y / Z)	32 m/min / 40 m/min / 30 m/min (1260 IPM / 1575 IPM / 1181 IPM)	22 m/min / 40 m/min / 30 m/min (866 IPM / 1575 IPM / 1181 IPM)	30 m/min / 40 m/min / 30 m/min (1181 IPM / 1575 IPM / 1181 IPM)	30 m/min / 40 m/min / 30 m/min (1181 IPM / 1575 IPM / 1181 IPM)
Spindle (40% ED)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50	CAT No.50	CAT No.50	CAT No.50
Tool storage capacity	30, 60*	30, 60*	60	60

*Option



SVC SERIES

X-axis linear motor reduces non-cut time for high-speed machining of long workpieces. Use the long table for long workpieces and to machine multiple small parts.

	2000L/120	2000L/200
Table size	3400 mm × 510 mm (133.86" × 20.08")	5400 mm × 510 mm (212.60" × 20.08")
Travel (X / Y / Z)	3048 mm / 510 mm / 510 mm (120" / 20.08" / 20.08")	5080 mm / 510 mm / 510 mm (200" / 20.08" / 20.08")
Rapid traverse rate (X)	120 m/min (4724 IPM)	120 m/min (4724 IPM)
(Y / Z)	50 m/min / 50 m/min (1969 IPM / 1969 IPM)	50 m/min / 50 m/min (1969 IPM / 1969 IPM)
Spindle (15 min. rating)	15000 rpm, 22 kW (30 HP)	15000 rpm, 22 kW (30 HP)
Tool shank	CAT No.40	CAT No.40
Tool storage capacity	30	30



SVC-2000L/200

Vertical Machining Centers with High-Torque

MTV SERIES

Large machining area and No. 50 taper spindle designed for heavy-duty machining of steel and difficult-to-cut workpiece materials.



MTV-655/80

	515/40	655/60	655/80	815/80	815/120
Table size	1300 mm × 550 mm (51.18" × 21.65")	1740 mm × 650 mm (68.50" × 25.59")	2240 mm × 650 mm (88.19" × 25.59")	2240 mm × 810 mm (88.19" × 31.89")	3240 mm × 810 mm (127.56" × 31.89")
Travel (X / Y / Z)	1050 mm / 510 mm / 560 mm (41.33" / 20.08" / 22.05")	1500 mm / 650 mm / 650 mm (59.06" / 25.59" / 25.59")	2000 mm / 650 mm / 650 mm (78.74" / 25.59" / 25.59")	2032 mm / 810 mm / 750 mm (80" / 31.89" / 29.53")	3048 mm / 810 mm / 750 mm (120" / 31.89" / 29.53")
Rapid traverse rate (X / Y / Z)	26 m/min / 26 m/min / 20 m/min (1024 IPM / 1024 IPM / 787 IPM)	26 m/min / 26 m/min / 20 m/min (1024 IPM / 1024 IPM / 787 IPM)	26 m/min / 26 m/min / 20 m/min (1024 IPM / 1024 IPM / 787 IPM)	24 m/min / 24 m/min / 18 m/min (945 IPM / 945 IPM / 709 IPM)	24 m/min / 24 m/min / 18 m/min (945 IPM / 945 IPM / 709 IPM)
Spindle (40% ED)	6000 rpm, 18.5 kW (25 HP)	6000 rpm, 18.5 kW (25 HP)	6000 rpm, 18.5 kW (25 HP)	6000 rpm, 26 kW (35 HP)	6000 rpm, 26 kW (35 HP)
Tool shank	CAT No.50	CAT No.50	CAT No.50	CAT No.50	CAT No.50
Tool storage capacity	30, 60*	30, 60*	30, 60*	30, 60*	30, 60*

*Option



5-Face Double-Column Machining Center

FJW-100/160

The FJW-100/160 is designed for powerful machining of large workpieces and enhanced process integration, with a 6000 rpm spindle and maximum torque of 828 N·m (611 ft·lbs). Standard equipment includes a 90° angle attachment tool for four-face machining. Use the W-axis control rail for tall-workpiece machining, with a column height of 1.65 m (64.96").



FJW-100/160

FJW-100/160

Table size	2000 mm × 4000 mm (78.74" × 157.48")
Travel (X / Y / Z / W)	4250 mm / 3200 mm / 800 mm / 1000 mm (167.32" / 125.98" / 31.5" / 39.37")
Effective width between columns	2650 mm (104.33")
Rapid traverse rate (X / Y / Z)	30 m/min / 32 m/min / 20 m/min (1181 IPM / 1260 IPM / 787 IPM)
(W)	3 m/min (118 IPM)
Spindle (40% ED)	6000 rpm, 26 kW (35 HP)
Tool shank	CAT No.50
Tool storage capacity	50, 80*, 120*

*Option



Horizontal Machining Centers

High-Speed, High-Accuracy Horizontal Machining Centers

HCN SERIES

High-performance horizontal machining centers with pallet sizes ranging from 400 mm (15.75") to 1250 mm (49.21") with high-rigidity construction to ensure high-accuracy. A large variety of spindle specifications is available to meet the requirements of a wide range of workpiece materials. Designed to easily incorporate optional automation systems for high efficient large volume production.



HCN-4000



HCN-8800



HCN-5000/50S



HCN-10800

4000

Pallet size	400 mm × 400 mm (15.75" × 15.75")
Travel (X / Y / Z)	560 mm / 640 mm / 640 mm (22.05" / 25.2" / 25.2")
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 60 m/min (2362 IPM / 2362 IPM / 2362 IPM)
Spindle (40% ED)	12000 rpm, 18.5 kW (25 HP)
Tool shank	BIG-PLUS No.40, HSK-A63*
Tool storage capacity	40, 60*, 80*, 120*, 160*, 240*, 348*

6000

Pallet size	500 mm × 500 mm (19.69" × 19.69")
Travel (X / Y / Z)	800 mm / 800 mm / 800 mm (31.50" / 31.50" / 31.50")
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 60 m/min (2362 IPM / 2362 IPM / 2362 IPM)
Spindle (30 min. rating)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50, HSK-A100*, BIG-PLUS No.50*
Tool storage capacity	43, 60*, 80*, 120*, 160*, 206*, 240*, 276*, 348*

12800

Pallet size	1250 mm × 1250 mm (49.21" × 49.21")
Travel (X / Y / Z)	2200 mm / 1600 mm / 1850 mm (86.61" / 62.99" / 72.83")
Rapid traverse rate (X / Y / Z)	43 m/min / 43 m/min / 43 m/min (1693 IPM / 1693 IPM / 1693 IPM)
Spindle (30 min. rating)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50, HSK-A100*, BIG-PLUS No.50*
Tool storage capacity	80, 120*, 160*, 206*, 240*, 348*

5000, 5000S (Single table)

Pallet size	500 mm × 500 mm (19.69" × 19.69")
Travel (X / Y / Z)	730 mm / 730 mm / 800 mm (28.74" / 28.74" / 31.50")
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 60 m/min (2362 IPM / 2362 IPM / 2362 IPM)
Spindle (40% ED)	12000 rpm, 18.5 kW (25 HP)
Tool shank	BIG-PLUS No.40, HSK-A63*
Tool storage capacity	40, 60*, 80*, 120*, 160*, 240*, 348*

8800

Pallet size	800 mm × 800 mm (31.50" × 31.50")
Travel (X / Y / Z)	1400 mm / 1200 mm / 1325 mm (55.12" / 47.24" / 52.17")
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 60 m/min (2362 IPM / 2362 IPM / 2362 IPM)
Spindle (30 min. rating)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50, HSK-A100*, BIG-PLUS No.50*
Tool storage capacity	60, 80*, 120*, 160*, 206*, 240*, 348*

5000/50, 5000/50S (Single table)

Pallet size	500 mm × 500 mm (19.69" × 19.69")
Travel (X / Y / Z)	730 mm / 730 mm / 800 mm (28.74" / 28.74" / 31.50")
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 60 m/min (2362 IPM / 2362 IPM / 2362 IPM)
Spindle (40% ED)	10000 rpm, 30 kW (40 HP)
Tool shank	CAT No.50, HSK-A100*, BIG-PLUS No.50*
Tool storage capacity	43, 60*, 80*, 120*, 160*, 240*, 348*

10800

Pallet size	1000 mm × 1000 mm (39.37" × 39.37")
Travel (X / Y / Z)	1700 mm / 1400 mm / 1525 mm (66.93" / 55.12" / 60.04")
Rapid traverse rate (X / Y / Z)	52 m/min / 52 m/min / 52 m/min (2047 IPM / 2047 IPM / 2047 IPM)
Spindle (30 min. rating)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50, HSK-A100*, BIG-PLUS No.50*
Tool storage capacity	80, 120*, 160*, 206*, 240*, 348*

*Option

HCN NEO SERIES

The high rigidity spindle can perform heavy duty machining of steel as well as high speed machining of non-ferrous materials such as aluminum. High speed and high torque specifications are optionally available. High rigidity machine construction and compensation ensure high accuracy machining over extend periods of time.



HCN-4000 NEO



HCN-5000 NEO

4000 NEO

Pallet size	400 mm × 400 mm (15.75" × 15.75")
Travel (X / Y / Z)	560 mm / 640 mm / 640 mm (22.05" / 25.20" / 25.20")
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 60 m/min (2362 IPM / 2362 IPM / 2362 IPM)
Spindle (40% ED)	18000 rpm, 35 kW (47 HP)
Tool shank	BIG-PLUS No.40, HSK-A63*
Tool storage capacity	40, 60*, 80*, 120*, 160*, 240*, 348*

*Option

5000 NEO

Pallet size	500 mm × 500 mm (19.69" × 19.69")
Travel (X / Y / Z)	730 mm / 730 mm / 800 mm (28.74" / 28.74" / 31.50")
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 60 m/min (2362 IPM / 2362 IPM / 2362 IPM)
Spindle (40% ED)	18000 rpm, 35 kW (47 HP)
Tool shank	BIG-PLUS No.40, HSK-A63*
Tool storage capacity	40, 60*, 80*, 120*, 160*, 240*, 348*

*Option



HCN-6800 NEO

6800 NEO

Pallet size	630 mm × 630 mm (24.8" × 24.8")
Travel (X / Y / Z)	1050 mm / 900 mm / 980 mm (41.34" / 35.43" / 38.58")
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 60 m/min (2362 IPM / 2362 IPM / 2362 IPM)
Spindle (40% ED)	10000 rpm, 45 kW (60 HP)
Tool shank	CAT No.50
Tool storage capacity	43, 60*, 80*, 120*, 160*, 206*, 240*, 348*

*Option



Horizontal Machining Centers



High-Rigidity Horizontal Machining Centers with Quill

HCN-Q SERIES

High-torque 3000 rpm (45 kW (60 HP)), 1849 N·m (1364 ft·lbs) (40% ED) quill spindle for deep boring and machining. Large workpiece capacity thanks to the large pallet and long axes strokes.



HCN-16000QS



	12500Q, 12500QS (Single table)	16000Q, 16000QS (Single table)	16800Q, 16800QS (Single table)
Pallet size	1000 mm × 1250 mm (39.37" × 49.21")	1250 mm × 1600 mm (49.21" × 62.99")	1250 mm × 1600 mm (49.21" × 62.99")
Travel (X / Y / Z)	2030 mm / 1400 mm / 1525 mm (79.92" / 55.12" / 60.04")	2800 mm / 1600 mm / 1850 mm (110.24" / 62.99" / 72.83")	2800 mm / 2000 mm / 1850 mm (110.24" / 62.99" / 72.83")
Rapid traverse rate (X / Y / Z / W)	30 m/min / 30 m/min / 30 m/min / 9 m/min (1181 IPM / 1181 IPM / 1181 IPM / 354 IPM)	24 m/min / 24 m/min / 24 m/min / 9 m/min (945 IPM / 945 IPM / 945 IPM / 354 IPM)	24 m/min / 24 m/min / 24 m/min / 9 m/min (945 IPM / 945 IPM / 945 IPM / 354 IPM)
Spindle (40% ED)	3000 rpm, 45 kW (60 HP)	3000 rpm, 45 kW (60 HP)	3000 rpm, 45 kW (60 HP)
Tool shank	CAT No.50	CAT No.50	CAT No.50
Tool storage capacity	80, 120*, 160*, 240*, 348*	80, 120*, 160*, 240*, 348*	80, 120*, 160*, 240*, 348*

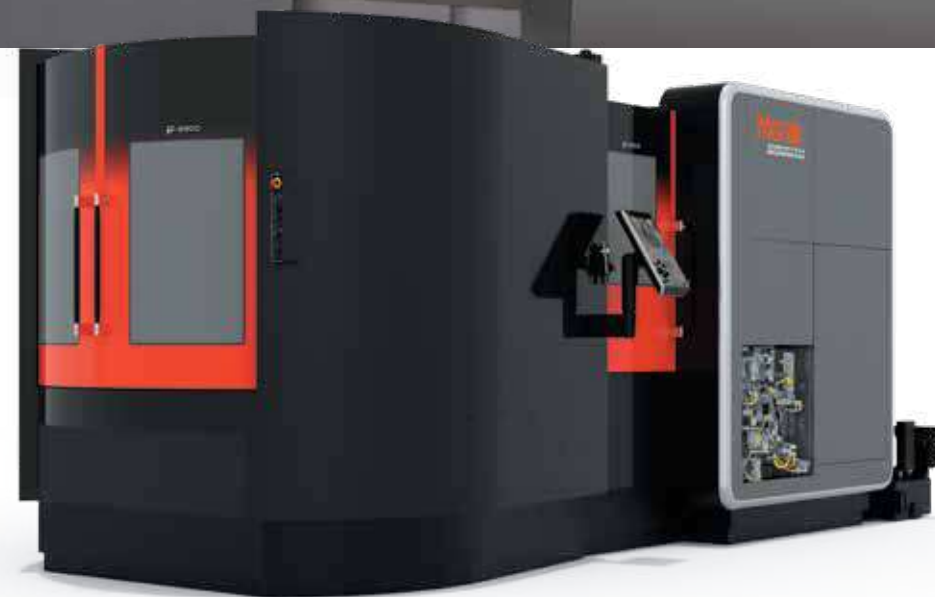
*Option



High-Precision Horizontal Machining Centers

μ SERIES

High-accuracy scale on linear guides and rotary table, and heat control by chiller core cooling realize high-accuracy machining. 8 times better accuracy than the ISO standard is ensured.



μ-8800

	8800	10800
Pallet size	800 mm × 800 mm (31.50" × 31.50"), 1000 mm × 1000 mm (39.37" × 39.37")*, 800mm × 1000mm (31.50" × 39.37")*	1000 mm × 1000 mm (39.37" × 39.37"), 1250 mm × 1250 mm (49.21" × 49.21")*, 1000mm × 1250mm (39.37" × 49.21")*
Travel (X / Y / Z)	1400 mm / 1200 mm / 1325 mm (55.12" / 47.24" / 52.17")	1700 mm / 1400 mm / 1525 mm (66.93" / 55.12" / 60.04")
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 60 m/min (2362 IPM / 2362 IPM / 2362 IPM)	52 m/min / 52 m/min / 52 m/min (2047 IPM / 2047 IPM / 2047 IPM)
Spindle (30 min. rating)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT No.50, HSK-A100*, BIG-PLUS No.50*	CAT No.50, HSK-A100*, BIG-PLUS No.50*
Tool storage capacity	60, 80*, 120*, 160*, 206*, 240*, 348*	80, 120*, 160*, 206*, 240*, 348*

*Option

High-Efficiency Horizontal Machining Center for Difficult to Cut Materials

MEGA 8800

High-output (85 kW (113 HP)), high-torque (1249 N·m) (921 ft·lbs) No.50 taper spindle for difficult-to-cut materials.



MEGA 8800

MEGA 8800	
Pallet size	800 mm × 800 mm (31.50" × 31.50")
Travel (X / Y / Z)	1400 mm / 1200 mm / 1325 mm (55.12" / 47.24" / 52.17")
Rapid traverse rate (X / Y / Z)	48 m/min / 40 m/min / 48 m/min (1889 IPM / 1574 IPM / 1889 IPM)
Spindle (40% ED)	4000 rpm, 85 kW (113 HP)
Tool shank	CAT No.50, BIG-PLUS No.50, HSK-A100*
Tool storage capacity	60, 80*, 120*, 160*, 206*, 240*, 348*

*Option

Horizontal Machining Centers
for High-Speed, Large Volume Production

FF SERIES

Designed with the high productivity, high-reliability and ease of maintenance required for automated lines for large volume production of automotive components. Fastest acceleration for this class of machining center, A-, B-axis tables optionally available.



FF-5000/40



	n5000/40	5000/40	5000/50
Pallet size	500 mm × 500 mm (19.69" × 19.69")	500 mm × 500 mm (19.69" × 19.69")	500 mm × 500 mm (19.69" × 19.69")
Travel (X / Y / Z)	510 mm / 550 mm / 550 mm (20.08" / 21.65" / 21.65")	660 mm / 660 mm / 550 mm (25.98" / 25.98" / 21.65")	660 mm / 660 mm / 555 mm (25.98" / 25.98" / 21.85")
Rapid traverse rate (X / Y / Z)	62 m/min / 62 m/min / 62 m/min (2441 IPM / 2441 IPM / 2441 IPM)	62 m/min / 62 m/min / 62 m/min (2441 IPM / 2441 IPM / 2441 IPM)	62 m/min / 62 m/min / 62 m/min (2441 IPM / 2441 IPM / 2441 IPM)
Spindle (40% ED) MAZATROL SmoothC FANUC 32i-B	12000 rpm, 18.5 kW (25 HP) 22 kW (30 HP)	12000 rpm, 18.5 kW (25 HP) 22 kW (30 HP)	10000 rpm, 30 kW (40 HP) 37 kW (47 HP)
Tool shank	CAT No.40, HSK-A63*, BIG-PLUS No.40*	CAT No.40, HSK-A63*, BIG-PLUS No.40*	CAT No.50, HSK-A100*, BIG-PLUS No.40*
Tool storage capacity	20, 30*	20, 30*	20

*Option



"Ultra Narrow" Machining Centers
for Large Volume Production

UN SERIES

Extremely narrow No.30 taper spindle machining centers designed for the large volume production of automotive components. The width of the vertical UN-600/30V is 695 mm (27.36") and the horizontal UN-600/30H is 990 mm (38.98") making extremely compact production lines possible.



UN-600/30V : 2 machines UN-600/30H : 1 machine

	600/30V	600/30H
Pallet size	400 mm × 400 mm (15.75" × 15.75")	400 mm × 400 mm (15.75" × 15.75")
Travel	C : 360° Y : 350 mm Z : 400 mm (C : 360° Y : 13.78" Z : 15.75")	X : 510 mm Y : 400 mm Z : 380 mm (X : 20.08" Y : 15.75" Z : 14.96")
Rapid traverse rate	C : 100 rpm Y, Z : 60 m/min (C : 100 rpm Y, Z : 2362.20 IPM)	X : 120 m/min Y, Z : 60 m/min (X : 4724 IPM Y, Z : 2362.20 IPM)
Spindle (40% ED)	20000 rpm, 18.5 kW (25 HP)	20000 rpm, 18.5 kW (25 HP)
Tool shank	BT30	BT30
Tool storage capacity	20	20, 30*

*Option

Laser Processing Machines

State-of-the-art Beam Control technology achieves high-speed and high-quality cutting of a wide range of materials.

Fiber Laser Processing Machines

OPTIPLEX NEO SERIES

The OPTIPLEX NEO series is a 2D fiber laser processing machine incorporating technology that provides exceptional control of the beam shape and diameter. Featuring state-of-the-art Variable Beam fiber laser technology, the NEO series achieves high-speed and high-quality cutting. The result is optimal laser-cutting performance of a wide range of materials.



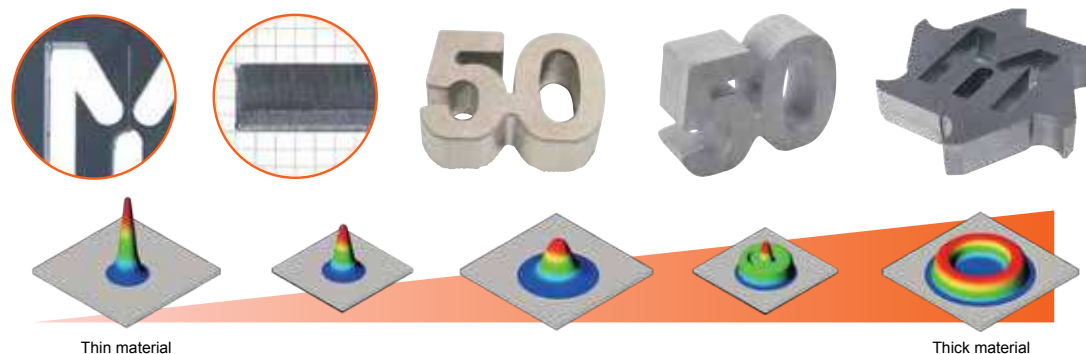
OPTIPLEX 3015 NEO



	3015 NEO	4220 NEO
Laser power	4.0 kW, 7.0 kW, 10.0 kW, 15.0 kW, 20.0 kW	4.0 kW, 7.0 kW, 10.0 kW, 15.0 kW, 20.0 kW
Max. worksheet size	1525 mm × 3050 mm (60.04" × 120.08")	2050 mm × 4120 mm (80.71" × 162.20")
Axis travel (X / Y / Z)	3110 mm / 1595 mm / 135 mm (122.44" / 62.80" / 5.31")	4200 mm / 2100 mm / 135 mm (165.35" / 82.68" / 5.31")
Positioning accuracy (X, Y)	±0.05 mm / 500 mm (±0.002" / 19.69")	±0.05 mm / 500 mm (±0.002" / 19.69")
(Z)	±0.01 mm / 100 mm (±0.0004" / 3.94")	±0.01 mm / 100 mm (±0.0004" / 3.94")

Beam Diameter Control function / Variable Beam Mode function

Mazak's OPTIPLEX NEO series automatically adjusts the beam diameter to accommodate optimum cutting of various materials and thicknesses. Additionally, the Beam Shaping Technology controls where the power density of the laser beam is concentrated. Together, these functions improve the speed and quality of cutting a wide range of materials.



Thin material

Thick material

OPTIPLEX Ez SERIES

The OPTIPLEX Ez series is an affordable, entry-level laser processing machine with the superior design of the OPTIPLEX NEO. It provides maximum value for cutting thin to medium-thick worksheets with the lowest operational cost, thanks to its gas-saving cutting technology.



OPTIPLEX 3015 Ez

	3015 Ez	4220 Ez
Laser power	4.0 kW, 6.0 kW	4.0 kW, 6.0 kW
Max. worksheet size	1525 mm × 3050 mm (60.04" × 120.08")	2050 mm × 4120 mm (80.71" × 162.20")
Axis travel (X / Y / Z)	3110 mm / 1595 mm / 135 mm (122.44" / 62.80" / 5.31")	4200 mm / 2100 mm / 135 mm (165.35" / 82.68" / 5.31")
Positioning accuracy (X, Y)	±0.05 mm / 500 mm (±0.002" / 19.69")	±0.05 mm / 500 mm (±0.002" / 19.69")
(Z)	±0.01 mm / 100 mm (±0.0004" / 3.94")	±0.01 mm / 100 mm (±0.0004" / 3.94")

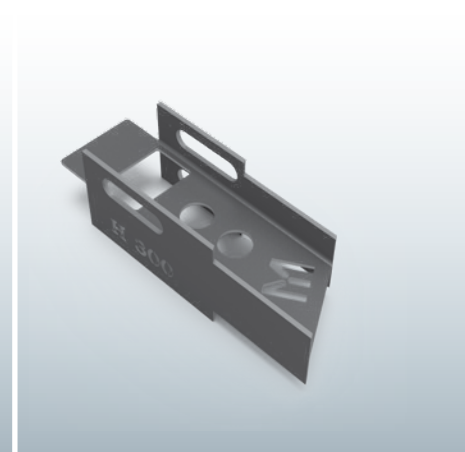
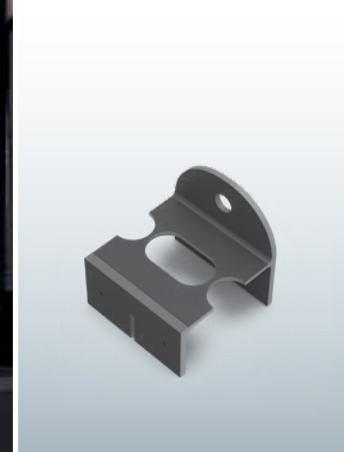
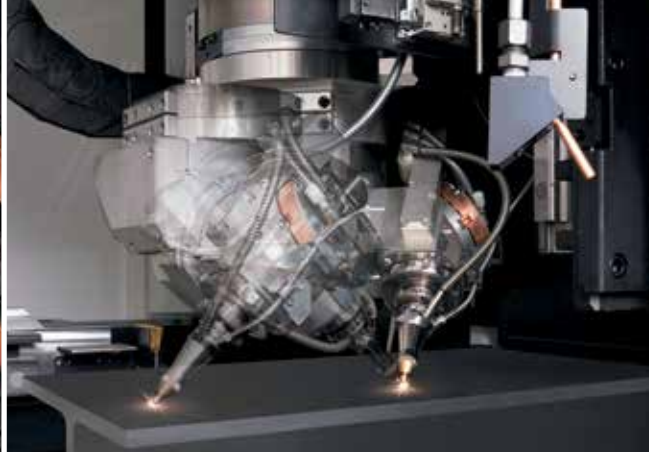
SUPER TURBO-X FIBER SERIES

Fiber laser processing machine with excellent table accessibility for high-mix, small-lot production. High-accuracy cutting is ensured thanks to the machine cast base.



SUPER TURBO-X 3015 FIBER

	2412 FIBER	3015 FIBER
Laser power	2.0 kW, 3.0 kW	2.0 kW, 3.0 kW
Max. worksheet size	1250 mm × 2500 mm (49.21" × 98.43")	1525 mm × 3050 mm (60.04" × 120.08")
Axis travel (X / Y / Z)	2520 mm / 1270 mm / 168 mm (99.21" / 50" / 6.61")	3070 mm / 1545 mm / 168 mm (120.87" / 60.83" / 6.61")
Positioning accuracy (X, Y)	±0.01 mm / 500 mm (±0.0004" / 19.69")	±0.01 mm / 500 mm (±0.0004" / 19.69")
(Z)	±0.01 mm / 100 mm (±0.0004" / 3.94")	±0.01 mm / 100 mm (±0.0004" / 3.94")



3D Fiber Laser Processing Machine for Long Pipes and Structural Materials

FG-400 NEO

The FG-400 NEO completes all cutting processes in one machine, streamlining production processing and performance, covering all processes from material supply to a finished part. It offers a wide range of benefits including a reduction in machine setup, production lead time, in-process inventory, the number of machines, fixtures, operators and floor space.



FG-400 NEO

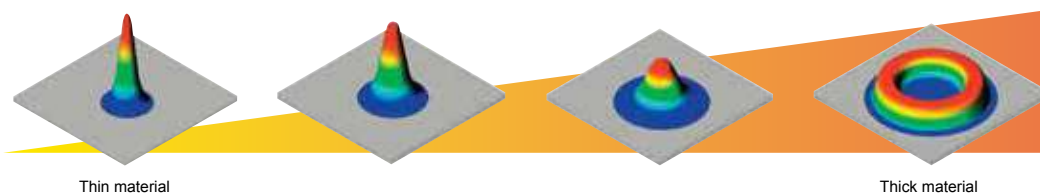
FG-400 NEO

Laser power	4.0 kW
Workpiece shape	Round, square pipe, L / H / I beam and channel
Workpiece diameter (Round pipe)	Φ20 mm ~ Φ406.4 mm (Φ0.79" ~ Φ16")
(Square pipe)	20 mm × 20 mm ~ 305 mm × 305 mm (0.79" × 0.79" ~ 12.01" × 12.01")
Max. workpiece length (for loading)	8080 mm, 6180 mm*, 12280 mm*, 15180 mm* (318.11", 243.31", 483.46", 597.64")
(for unloading)	8000 mm, 6100 mm*, 12200 mm*, 15100 mm* (314.96", 240.16", 480.31", 594.49")

*Option

Beam Diameter Control function / Variable Beam Mode function

Mazak's FG-400 NEO automatically adjusts the beam diameter to accommodate optimum cutting of various materials and thicknesses. Additionally, the Beam Shaping Technology controls where the power density of the laser beam is concentrated. Together, these functions improve the speed and quality of cutting a wide range of materials.



FG-220

The FG-220 is a 3D fiber laser processing machine for long tubes and structural materials, which is equipped with energy saving fiber laser resonator for high-speed cutting and 3D head for continuous 3D cutting. FG-220 can complete all cutting processes with high-accuracy in one machine.



FG-220

FG-220	
Laser power	4.0 kW
Workpiece shape	Round, square pipe, L / H / I beam and channel
Workpiece diameter (Round pipe)	Φ20 mm ~ Φ220 mm (Φ0.79" ~ Φ8.66")
(Square pipe)	20 mm × 20 mm ~ 152.4 mm × 152.4 mm (0.79" × 0.79" ~ 6.0" × 6.0")
Max. workpiece length (for loading)	8150 mm, 6250 mm*, 12350 mm* (320.87", 246.06"*, 486.22"*)
(for unloading)	8000 mm, 3000 mm*, 6100 mm*, 12200 mm* (314.96", 118.11"*, 240.16"*, 480.31"*)

*Option

Laser Processing Machine for High-Speed Cutting of Pipe Materials

FT-150 FIBER

With the FT-150 FIBER, materials are automatically loaded once long pipe materials are placed in the bundle loader. And after laser processing, cut parts of various lengths are automatically unloaded. Fully automated large lot pipe processing with high productivity is achieved.



FT-150 FIBER

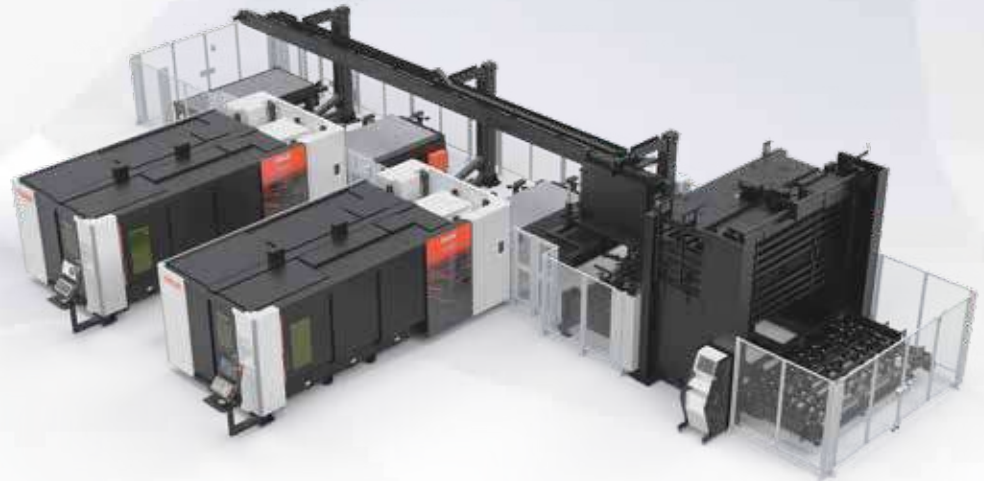
FT-150 FIBER	
Laser power	3.0 kW
Workpiece shape	Round, square, rectangle pipe
Workpiece diameter (Round pipe)	Φ12 mm* ~ Φ152.4 mm (Φ0.47" ~ Φ6.0")
(Square pipe)	12 mm × 12 mm* ~ 125 mm × 125 mm (0.47" × 0.47"* ~ 4.92" × 4.92")
Max. workpiece length (for loading)	6500 mm, 8000 mm* (225.91", 314.96"*)
(for unloading)	3000 mm, 4500 mm*, 6500 mm* (118.11", 177.17"*, 255.91"*)

*Option

Automation Systems for Laser Cutting

EXTENSIBLE MANUFACTURING CELL

Worksheets stored in the material stocker are loaded onto the machine sheet by loader and the cut sheets are unloaded automatically according to the schedule. It can be extended to a maximum of 4 machines after the initial system installation.



OPTIPLEX 3015 NEO + EXTENSIBLE MANUFACTURING CELL
(material stocker [10 shelves] + loader / unloader + finished work table)

QUICK CELL 3015

Worksheets stored in the material stocker are loaded onto the machine sheet by loader and the cut sheets are unloaded automatically according to the schedule. It effectively minimizes material handling time for loading and unloading within a limited space.



OPTIPLEX 3015 NEO +
QUICK CELL 3015 (6-pallet stocker)

COMPACT MANUFACTURING CELL 3015

Worksheets both before and after processing are on pallets and stored in the stocker. The number of micro-joints can be minimized since the finished worksheets are unloaded on pallets, which makes finishing process easier.



OPTIPLEX 3015 NEO +
COMPACT MANUFACTURING CELL 3015

MAZATROL CNC and CAD / CAM system ever evolving with Mazak laser machines

The system achieves high-speed and high-quality processing for a variety of materials and conditions, thanks to over 30 years of accumulated expertise and advancements in control technology.



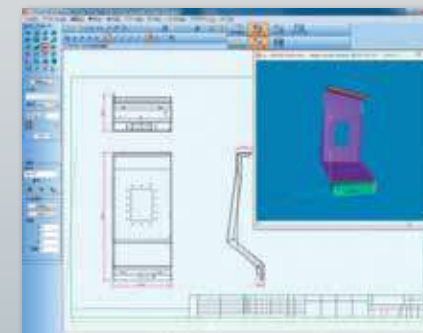
MAZATROL **PREVIEW 3**



MAZATROL
SMOOTH Lx

2D CAD / CAM system

MAZAK SMART SYSTEM
MAZAK SMART SYSTEM JR.



The system can rapidly generate processing data with the highest yield rate of worksheets, not only minimizing programming lead time, but also coping with interruption works against urgent order, which helps enhance the overall productivity.

New generation CNC system and CAD / CAM system for 3D laser machines

Through years of development, the system has incorporated accumulated expertise to greatly enhance operability and productivity, and ensures 3D laser processing of pipes and structural materials easily and reliably.

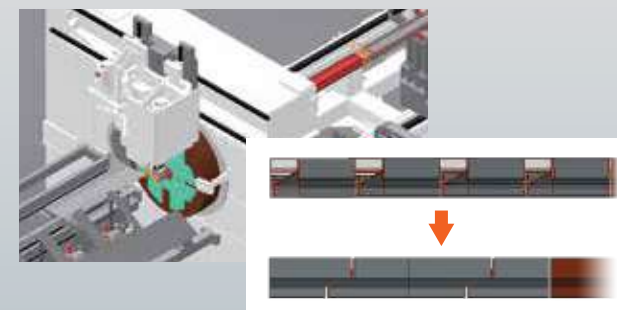
- New graphical user interface specialized for tube processing ensures easier operation
- With the flow from preparation to processing displayed on one screen, easy to operate just following the flow
- Condition setting of scheduled operation can be changed and reprocessing can be done on the CNC system easily



SMOOTH TUBE

3D CAD / CAM system

TUBE DX



With TUBE DX, processing programs for 3D shape parts of pipes and structural materials can be generated instantly with easy operation. TUBE DX has various functions to help enhance productivity, such as automatic nesting and scheduling that assist production management.

Global Manufacturing

MAZAK Worldwide Support Network

GLOBAL SERVICE & SUPPORT

Mazak has been at the forefront of global expansion within the industry. With production plants and technology and technical centers worldwide, we have developed strong relationships of trust with customers from various industries.

Production Plants



2000 Ningxia Little Giant
Machine Tool Co., Ltd. (China)



1961 Yamazaki Mazak
Corporation, Oguchi Plant (Japan)



2006 Yamazaki Mazak
Manufacturing Corporation,
Minokamo Plant 2 (Japan)



1987 Yamazaki Mazak
U.K. Ltd. (United Kingdom)



2013 Yamazaki Mazak
Machine Tool (Liaoning) Co., Ltd.
(China)



1983 Yamazaki Mazak
Manufacturing Corporation,
Minokamo Plant 1 (Japan)



1968 Yamazaki Mazak
Manufacturing Corporation,
Seiko Plant (Japan)



1974 Mazak Corporation
(U.S.A.)



2023 Yamazaki Mazak
Machine Tools Pvt. Ltd. (India)



1992 Yamazaki Mazak
Singapore Pte. Ltd. (Singapore)



2018 Yamazaki Mazak
Manufacturing Corporation,
Inabe Plant (Japan)

Production Facilities

Machines developed and produced worldwide

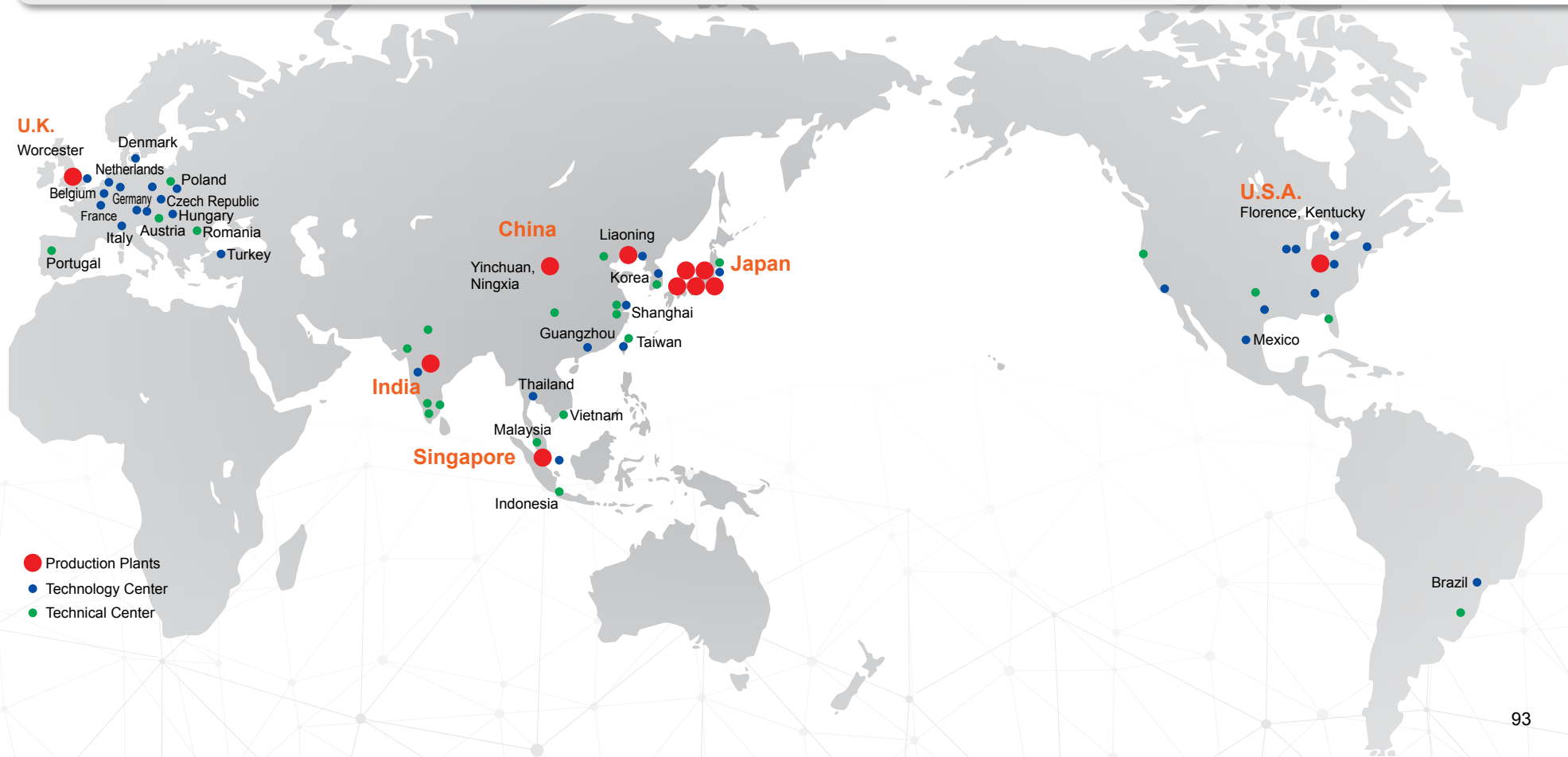
Production plants and R & D centers have been established in the U.S.A. (1974), the U.K. (1987), Singapore (1992), Ningxia, China (2000), Liaoning, China (2013), and India (2023). They have been established based on the concept of producing machines at a location that is close to customers.



Innovation from Mazak Corporation (U.S.A.)
SYNCREX 25/9



Innovation from Yamazaki Mazak U.K. Ltd
(European Headquarters)
CV5-500



MAZAK Worldwide Service & Support Network

Comprehensive service and support
provided locally – worldwide

JAPAN

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