



DISCOVER MORE WITH
Mazak

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Yamazaki Mazak is celebrating our 100th anniversary in business this year. We have reached this significant milestone thanks to the support of customers and for which we are deeply grateful. Since our foundation, we have been continuously committed to being a leader in the machine tool industry in many areas, such as the establishment

of overseas production and support systems and the development of the MAZATROL interactive CNC system, as well as the INTEGEX, which has become a generic name for multi-tasking machines. Continuous efforts such as these have allowed us to grow the Mazak brand worldwide and build a strong relationship with customers. We will continue to challenge ourselves and work diligently to maintain the confidence shown to us by our customers.

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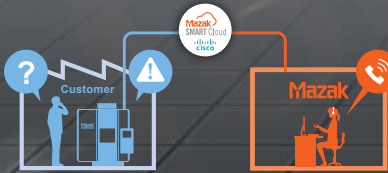
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Customer Factory Solution and Service based in the cloud



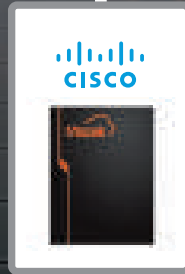
Connect your machines with Mazak

MAZA-CARE 4.0



MAZA-CARE 4.0 is a service based in the cloud using the latest technology to assist you in using your Mazak machine tools to their full potential. To do so, a wide range of support functions are available, such as machining assist, machine status reports, maintenance support and many others.

Safe and secure network connection by Cisco Systems



MAZA-CARE 4.0 support system

WEB support
Portal site designed to conveniently provide you useful information

- Status Log Report
- CNC Backup
- Maintenance Videos
- Machine Information
- Machine FAQ

Diagnostic support
Connecting machines for higher productivity

- E-mail Notification
- Remote diagnosis



Total support for IoT and AI digitalized factory network

Today IoT and AI technologies are being installed to increase production efficiency and are considered by management to be an important investment. By collecting and analyzing big data, production can be optimized and production quality can be improved. However, digitalization and networking are frequently regarded as difficult and expensive. Yamazaki Mazak has begun digitalization and networking of its own factories to maximize production efficiency over many years. Using this expertise, we have developed products and software that will make your production smart.

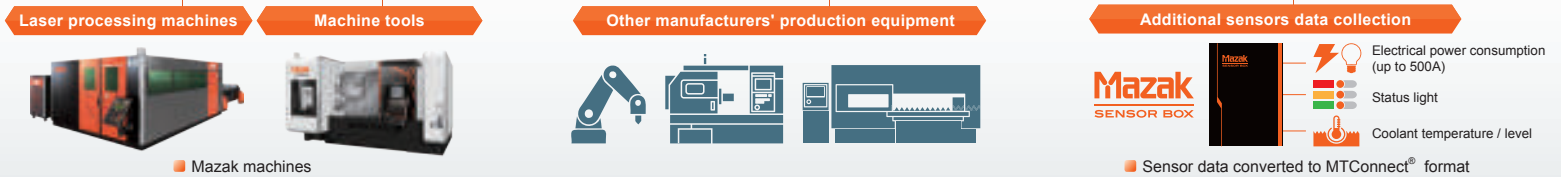
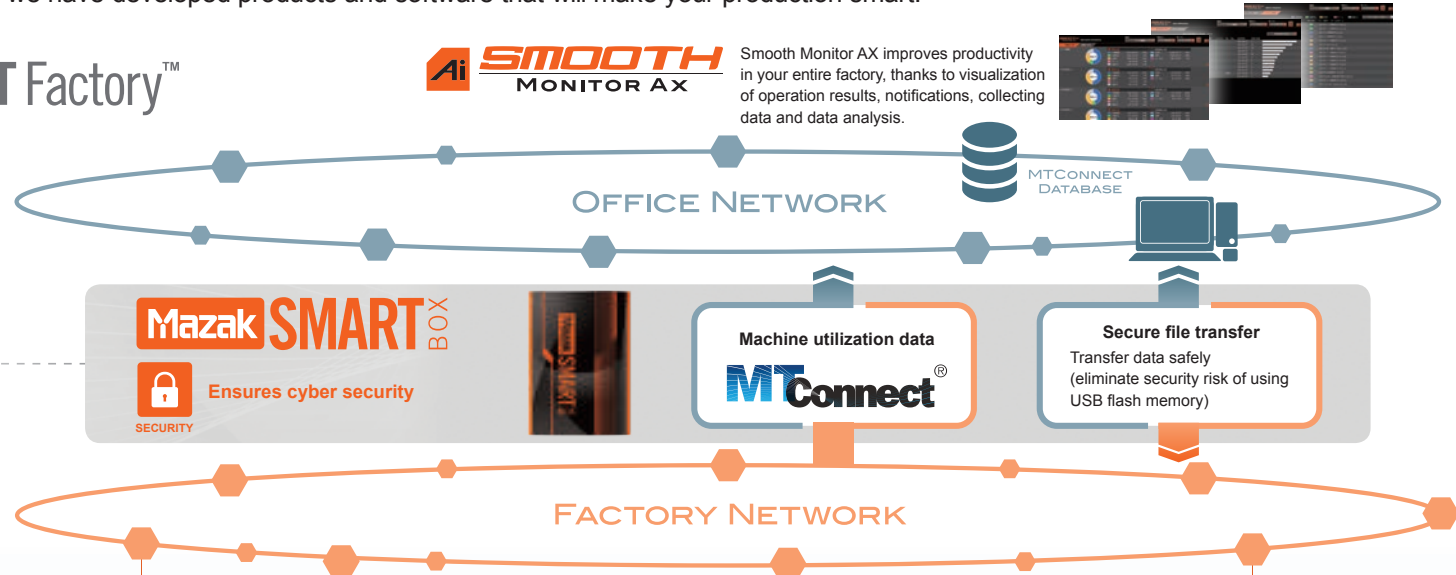
Mazak iSMART Factory™

Ai SMOOTH MONITOR AX

Smooth Monitor AX improves productivity in your entire factory, thanks to visualization of operation results, notifications, collecting data and data analysis.



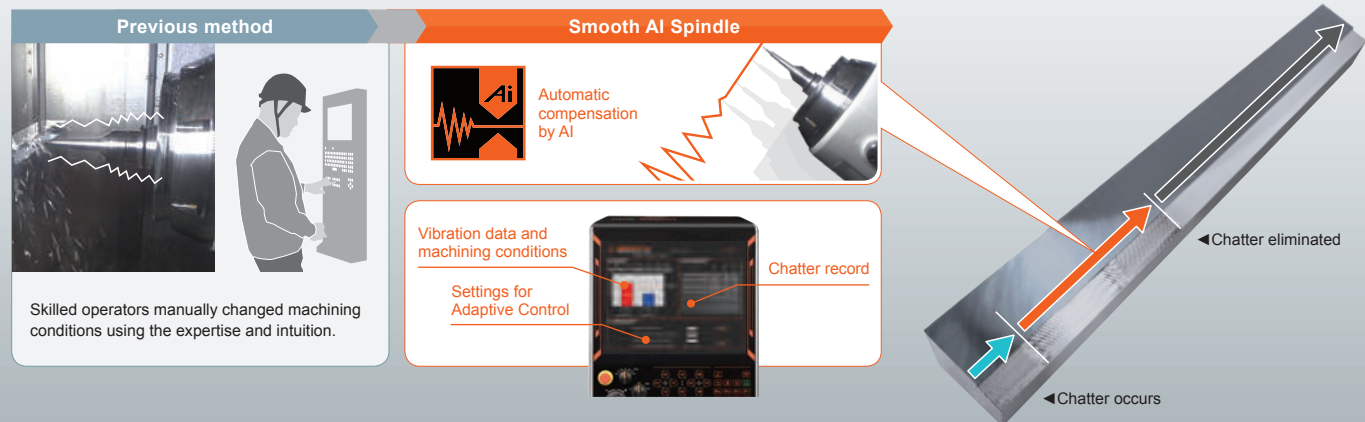
MTCONNECT®
Open network communication protocol for production equipment. Easily integrate machine tools from any manufacturer in a factory network.



Ai SMOOTH AI SPINDLE

[Smooth AI Spindle]

Using AI, milling spindle vibration is detected and machining conditions are automatically changed to realize unsurpassed surface finishes and high productivity.



Newest version of the MAZATROL

World leader for conversational CNC system since 1981

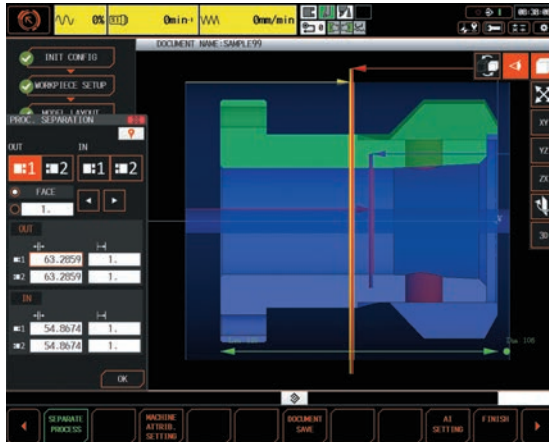
- Designed for unsurpassed operation and machining efficiency
- Latest hardware and software for unprecedented speed and precision
- Smart factory network ready
- Touch screen operation - similar to your smartphone and tablet



Machine tools equipped with the MAZATROL SmoothCNC will make your parts faster, better and with lower cost

MAZATROL
SMOOTH Ai

These new and improved MAZATROL functions will boost your productivity



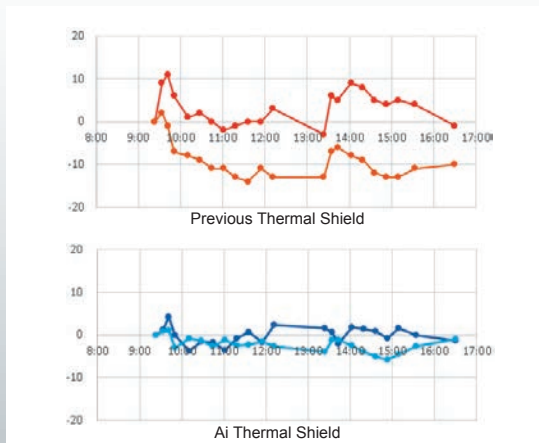
Solid MAZATROL

Improved 3D CAD data import for faster programming



Cutting Adviser

Improved management of cutting data



Ai Thermal Shield

Improved automatic compensation to temperature changes

STORAGE AREA LIST	WORK No.	SIZE PROGRAM	CREATE DATE	WRITE DATE
STANDARD PROGRAM	1000	9 BYTE	2019/05/22 10:31	2019/05/22 10:31
NEW OPERATION PROGRAM	2000	209 BYTE	2019/05/22 10:31	2019/05/22 10:31
BACKUP PROGRAM	3000	22 BYTE	2019/05/22 10:31	2019/05/22 10:31

PROJECT DATA LIST	CREATE DATE
NEC	2019/05/10 17:40
NEST	2019/05/10 17:40
POP	2019/05/21 14:50
PROJECT1	2019/05/10 17:39
PROJECT2	2019/05/10 17:40
PROJECT3	2019/05/10 17:40
SAMPLE	2019/05/22 10:31

USED TOOL LIST	Wkg. No.	TOOL PART	MON.	FW/RV	R/L	MAT.	TOOL MODEL
1	END MILL	10	A		HSS		ENDMILL10
5	GENERAL	OUT	2	A	LF		
9	GENERAL	OUT	3	A	LF		
11	GENERAL	IN	3	A	LF		ONL-IN-3
12	GROOVE	OUT	5	A	LF		ONL-OUT-5A

Smooth Project Manager

Improved management of job data

Automation

Yamazaki Mazak introduced the MAZATROL FMS in 1985 and has been developing automation systems ever since. Using this extensive accumulated knowledge of automation, we will provide the optimum production system to meet your requirements.

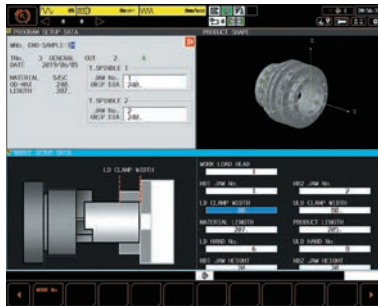
We provide the optimum production systems to customers who request a turn key. Through meetings with your staff, we coordinate tools, fixtures, and peripheral equipment. In addition, production startup support is provided after equipment installation.

Robot teaching assist

MAZATROL
SMOOTH*Ai*

Robot teaching assist provides extremely easy robot setup for an automated cell.

Complex robot teaching is eliminated. The robot program is easily made by inputting the material length, diameter, and clamping width.



SMOOTH RCC

Smooth RCC is management software for the robot cell, which can perform high-mix, low-volume production. This provides a convenient display of operation status and production scheduling to the operator on the optional CNC second monitor.



HCN-4000 + 2-pallet changer

2-pallet changer

ROBOT AUTOMATION

Automated continuous machining by a robot system integrated with machine tools reduces tact time and ensures stable accuracy as well as increases productivity. Different robot interfaces are available to meet your production requirements.



QT-PRIMOS SG + VC-PRIMOS 400 L



QUICK TURN 250MSY + TA-12/200

TURN ASSIST

The TURN ASSIST robot system does not require complicated robot teaching. Thanks to the setup software, loading of workpieces on the stocker and robot movement are efficiently performed.

6-pallet changer



HCN-6800 + 6-pallet changer



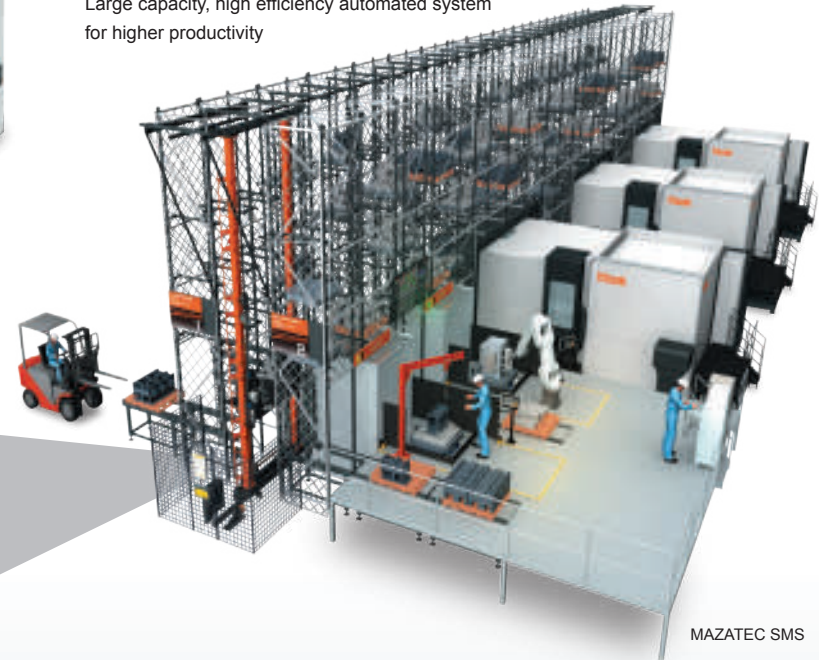
HCN-6800 +
PALLETECH
HIGH RISE SYSTEM

PALLETECH SYSTEM

Designed for convenient system expansion after the initial installation in response to increased production requirements.

MAZATEC SMART MANUFACTURING SYSTEM

Large capacity, high efficiency automated system for higher productivity



MAZATEC SMS



QUICK TURN 200MA + GL-50

Gantry loader

High speed, high accuracy workpiece transfer and loading / unloading make it possible to perform automatic operation over extended periods of time. Different specification work loader hands and work conveyors are available to meet a wide variety of production requirements.



VARIAXIS i-300 AWC

Auto Work Changer

Space-efficient system for the production of small to mid-size workpieces in small lots. The integration of an Auto Work Changer (AWC), tool stocker and Smooth AWC automatic operation software with a compact 5-axis machining center.

MULTI-PALLET POOL SYSTEM

Compact multi-pallet stoker system - maximum 18-pallets can be stored in pallet stoker



VARIAXIS i-600 + MPP (18PC)

NEW



INTEGREX i-450H ST

INTEGREX i-H SERIES

Multi-tasking machines

- Wide range of spindle specifications and lower turret available to meet your production requirements
- New compact milling spindle for expanded machining area and minimum interference
- Increased machining area thanks to 210mm Y-axis stroke for the INTEGREX i-150H and 300mm for the INTEGREX i-400H
- Next generation MAZATROL SmoothAi CNC control for data driven manufacturing

	i-200H ST	i-450H ST
Universal	850U	1500U
Max.machining diameter (upper / lower turret)	Φ600 mm / Φ400 mm	Φ670 mm / Φ420 mm
Travel (X / Y / Z / B) (upper turret)	535 mm / 210 mm / 640 mm / -30° ~ 210°	690 mm / 300 mm / 1585 mm / -30° ~ 210°
(X2 / Z2) (lower turret)	210 mm / 900 mm	220 mm / 1539 mm
Tool storage capacity	38, *74, *112, *157, *277	38, *74, *112, *157, *277
Turning spindle (40% ED)	5000 rpm, 22 kW (30 HP)	3300 rpm, 37 kW (50 HP)
Second spindle (40% ED)	5000 rpm, 18.5 kW (25 HP)	4000 rpm, 26 kW (35 HP)
Milling spindle (40% ED)	12000 rpm, 12 kW (16 HP)	12000 rpm, 24 kW (32 HP)

*Option

NEW



VARIAXIS C SERIES

5-axis Simultaneous Vertical Machining Centers

- Wide variety of spindle specifications which is designed for machining workpiece found in various field
- Wide variety of tool magazines- 30 tools (standard) and 60 tools, 90 tools and 120 tools (option)
- Next generation MAZATROL SmoothAi CNC system for data driven manufacturing

	VARIAXIS C-600
Pallet size	Φ600 mm × 500 mm
Travel (X / Y / Z)	650 mm / 550 mm / 530 mm
(B / C)	+120° ~ -30° / ±360°
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min
Spindle (40% ED)	12000 rpm, 11 kW (15 HP), *15000 rpm, 46 kW (62 HP), *18000 rpm, 30 kW (40 HP), *20000 rpm, 42 kW (56 HP)
Tool shank	MAS BT-40, BBT-40, CAT-40, HSK-A63
Tool storage capacity	30, *60, *90, *120

*Option

NEW



CV5-500

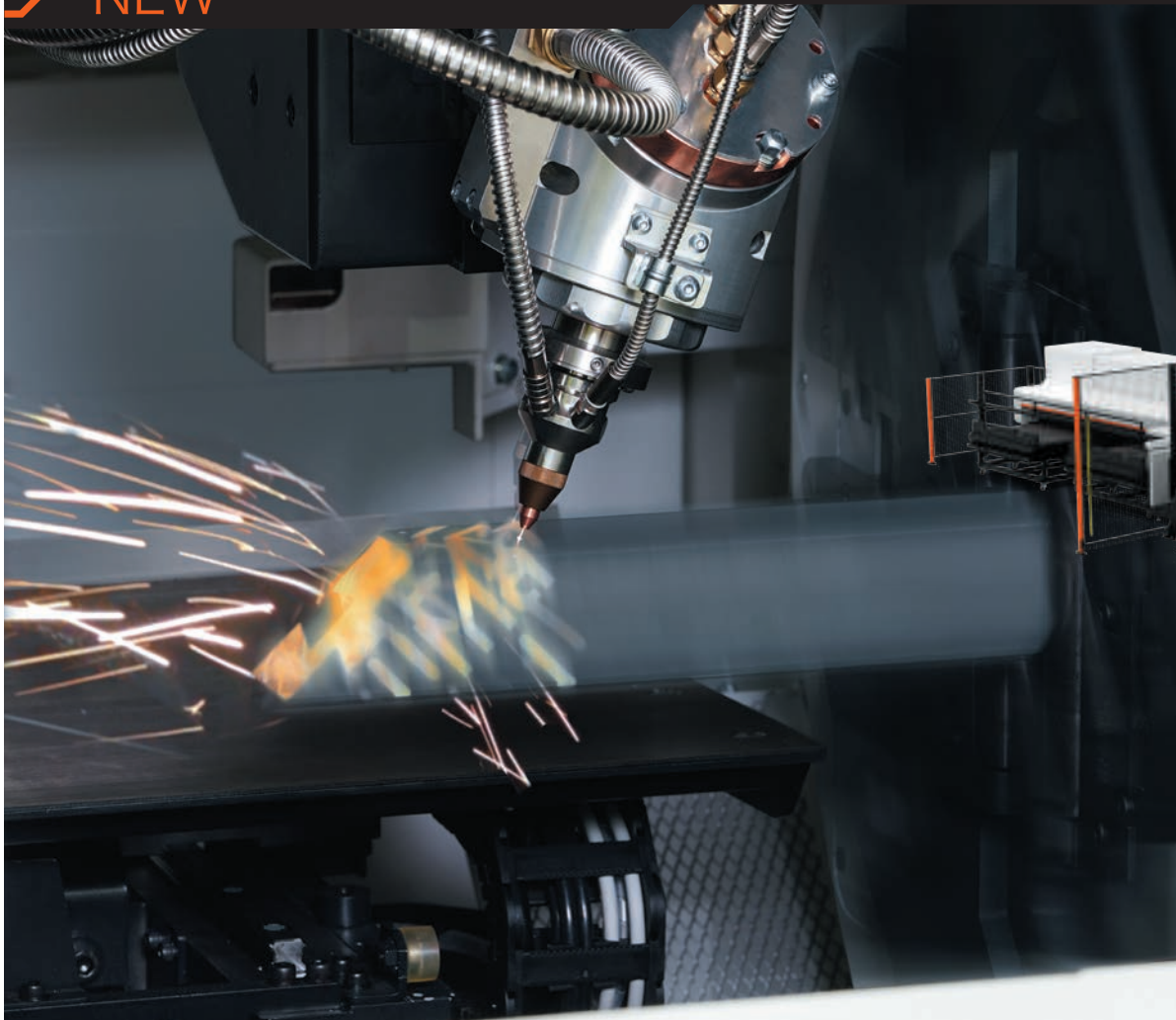
Highly versatile compact 5-axis machining centre offering performance and value

- $\Phi 500$ mm \times H320 mm workpiece capacity (200 kg)
- New 12000 rpm, 11 kW / 70 N·m (40% ED) spindle
- Compact floor space 'best in class'
- Fully simultaneous 5-axis with MAZATROL SmoothX CNC
- Designed for ease of automation

CV5-500	
Table size	$\Phi 500$ mm
Travel (X / Y / Z)	730 mm / 450 mm / 470 mm
(B / C)	220° / 360°
Rapid traverse rate (X / Y / Z)	36 m/min / 36 m/min / 36 m/min
Spindle (40% ED)	12000 rpm, 11 kW (15 HP)
Tool shank	CAT-40, HSK-A63
Tool storage capacity	30, 48

*Option

NEW



FT-150 FIBER

High speed fiber laser processing machine for cutting of small structural material

- High performance thanks to advanced control and drive technology
- Loader / unloader specifications are available to meet your production requirements
- Can load / unload materials at front of machine for higher efficiency
- Bundle loader with large capacity of structural material enables continuous operation for higher productivity

FT-150 FIBER	
Laser continuous rated output	3.0 kW
Max. cutting size (Round material)	Φ20 mm ~ Φ152.4 mm
(Square material)	20 mm × 20 mm ~ 125 mm × 125 mm
Max. workpiece length (Loading)	6500 mm
(Unloading)	3000 mm

Gear machining integrated with multi-tasking machines

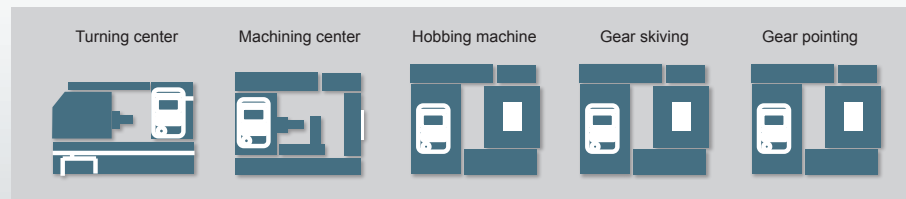
Gear machining, such as skiving and hobbing that previously required dedicated machines, and other machining processes can now be done in one machine - the INTEGRIX AG



Gear machining by the INTEGRIX AG

Gear production requires dedicated gear cutting machines as well as CNC turning centers and machining centers. However, with multi-tasking machines, these processes can now be done in one machine without changing the setup.

Compared with previous machining methods for high-mix, small-lot production, production efficiency can be improved, and thanks to process integration, machining time and the number of machines can be reduced and as well as improving accuracy.



INTEGRIX AG



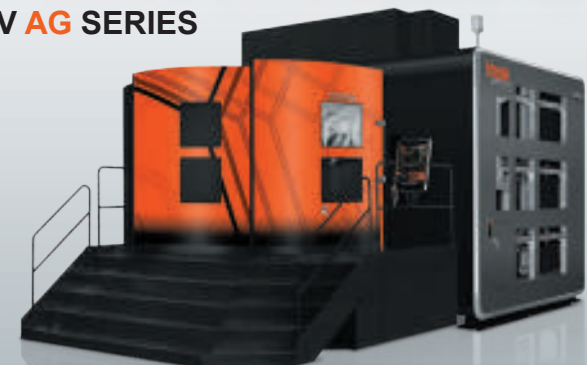
- 4 machines → 1 machine
- In-process time reduced (high-mix, small-lot production)
- setup time reduced
- Automatic deburring
- Automatic gear inspection
- Produce in-specification gear from the first part

INTEGRIX i AG SERIES



INTEGRIX i-500S AG

INTEGRIX e-V AG SERIES



INTEGRIX e-1250V/8S AG

■ Simplified programming of a wide variety of gears



GEAR SKIVING

Both outer diameter and inner diameter gears can be machined by conversational programming.



GEAR MILLING

Easily machines spur gears with end mill and ball nose end mill with MAZATROL program.



GEAR HOBBING

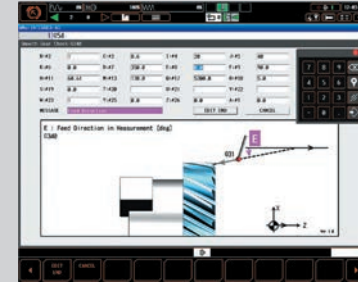
By using the hobbing function to synchronize the rotation of the milling spindle and main spindle, gears can be hobbled.



Smooth Gear Cutting display

Gear cutting software is standard equipment. By entering gear data in a conversational programming method, the cutting path is automatically generated.

■ Conventionally programmed gear inspection



Smooth GEAR Check

Instead of manually performing gear inspection on other inspection equipment, it can now be done automatically in the same machine setup as machining.



	i-200 AG	i-200S AG	i-200ST AG
Universal	1000U	1000U	1500U
Chuck size (main / second)	8" / -	8" / 8"	8" / 8"
Max. machining length*1	1011 mm	1011 mm	1519 mm
Max. machining diameter (upper / lower turret)	Φ658 mm / -	Φ658 mm / -	Φ658 mm / Φ420 mm
Travel (X / Y / Z / W / B) (upper turret)	615 mm / 260 mm / 1077 mm / -30° ~ 210°	615 mm / 260 mm / 1077 mm / -30° ~ 210°	615 mm / 260 mm / 1585 mm / -30° ~ 210°
(X2 / Z2) (lower turret)	-	-	230 mm / 1388 mm
Tool storage capacity (upper / lower turret)	36, *72, *110 / -	36, *72, *110 / -	36, *72, *110 / 9
Spindle*1 (40% ED)	5000 rpm, 22 kW (30 HP)	5000 rpm, 22 kW (30 HP)	5000 rpm, 22 kW (30 HP)
Second spindle*1 (40% ED)	-	5000 rpm, 18.5 kW (25 HP)	5000 rpm, 18.5 kW (25 HP)
Milling spindle (40% ED)	12000 rpm, 24 kW (32 HP)	12000 rpm, 24 kW (32 HP)	12000 rpm, 24 kW (32 HP)

*Option **Depends on chuck specifications

	i-500 AG	i-500S AG	i-500ST AG
Universal	1500U	1500U	1500U
Chuck size (main / second)	10" / -	10" / 10"	10" / 10"
Max. machining length*1	1500 mm	1500 mm	1500 mm
Max. machining diameter (upper / lower turret)	Φ700 mm / -	Φ700 mm / -	Φ700 mm / Φ490 mm
Travel (X / Y / Z / W / B) (upper turret)	845 mm / 430 mm / 1640 mm / -30° ~ 210°	845 mm / 430 mm / 1640 mm / -30° ~ 210°	845 mm / 430 mm / 1640 mm / -30° ~ 210°
(X2 / Z2) (lower turret)	-	-	267 mm / 1373 mm
Tool storage capacity (upper / lower turret)	36, *72, *108 / -	36, *72, *108 / -	36, *72, *108 / 9
Spindle*1 (40% ED)	2500 rpm, 37 kW (50 HP)	2500 rpm, 37 kW (50 HP)	2500 rpm, 37 kW (50 HP)
Second spindle*1 (40% ED)	-	2500 rpm, 37 kW (50 HP)	2500 rpm, 37 kW (50 HP)
Milling spindle (40% ED)	12000 rpm, 37 kW (50 HP)	12000 rpm, 37 kW (50 HP)	12000 rpm, 37 kW (50 HP)

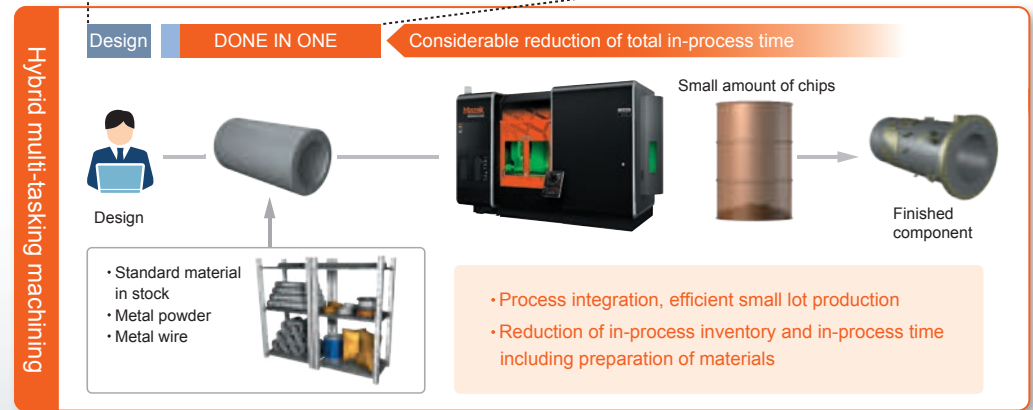
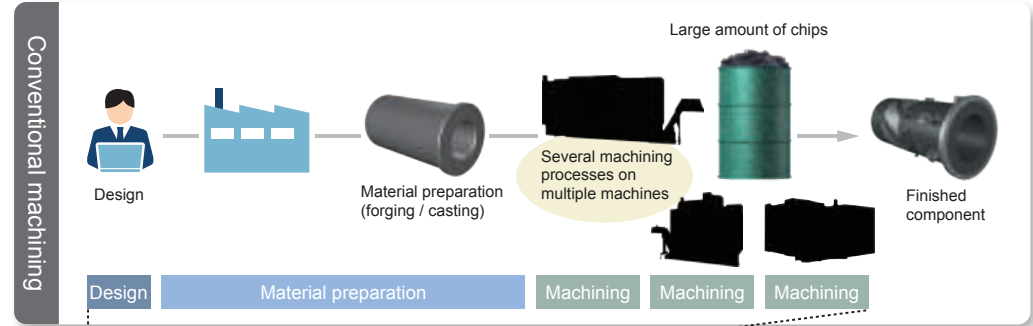
	e-1250V/8S AG (Single table)	e-1250V/8 AG
Max. workpiece dimensions*1	Φ1500 mm × 1600 mm	Φ1450 mm × 1600 mm
Pallet size	*Φ800 mm, *Φ1000 mm, *Φ1250 mm	*□800 mm, *□1000 mm, *Φ1000 mm
Travel (X / Y / Z)	1875 mm / 1250 mm / 1345 mm	1875 mm / 1250 mm / 1345 mm
(B / C)	150° / 360°	150° / 360°
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min	42 m/min / 42 m/min / 42 m/min
Turning spindle (cont. rating)*2	500 rpm, 40 kW (53 HP)	500 rpm, 40 kW (53 HP)
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT-50	CAT-50
Tool storage capacity	42, *84, *120, *162, *180, *216, *252, *288, *324, *360	42, *84, *120, *162, *180, *216, *252, *288, *324, *360

*Option **Maximum workpiece dimensions depend on pallet and table specifications **Turning speed is limited by round pallet and chuck specifications. 50 rpm for square pallet

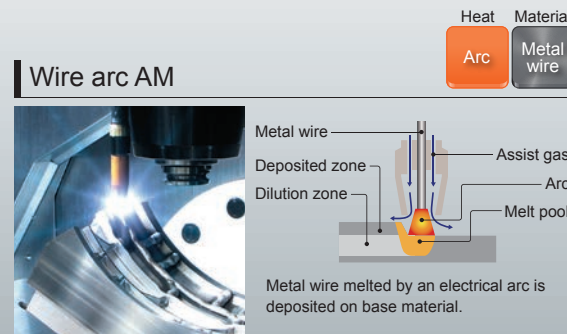
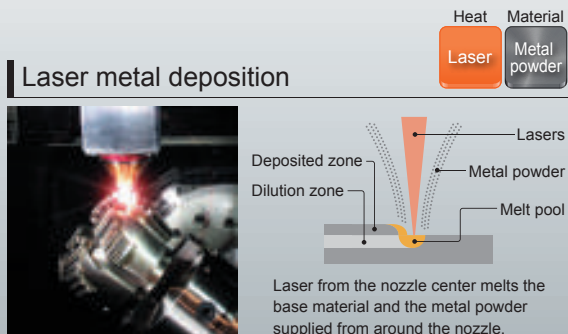
	e-1600V/10S AG (Single table)	e-1600V/10 AG
Max. workpiece dimensions*1	Φ2300 mm × 1684 mm	Φ2050 mm × 1600 mm
Pallet size	*□1000 mm, *Φ1400 mm, *Φ1650 mm	*□1000 mm, *Φ1400 mm
Travel (X / Y / Z)	2165 mm / 1600 mm / 1345 mm	2315 mm / 1600 mm / 1345 mm
(B / C)	150° / 360°	150° / 360°
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min	42 m/min / 42 m/min / 42 m/min
Turning spindle (cont. rating)*2	500 rpm, 40 kW (53 HP)	500 rpm, 40 kW (53 HP)
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT-50	CAT-50
Tool storage capacity	42, *84, *120, *162, *180, *216, *252, *288, *324, *360	42, *84, *120, *162, *180, *216, *252, *288, *324, *360

Integration of additive manufacturing and multi-tasking machines

Multi-tasking machines have been integrated with additive manufacturing technology - AM series. All processes from material to finished components are done in a single machine. This will provide many benefits, such as reduced cost of machines, smaller floor space, lower number of fixtures, lower operator expense, and shorter in-process time as well as higher accuracy.



2 types of hybrid multi-tasking machines using AM technologies to meet your production requirements



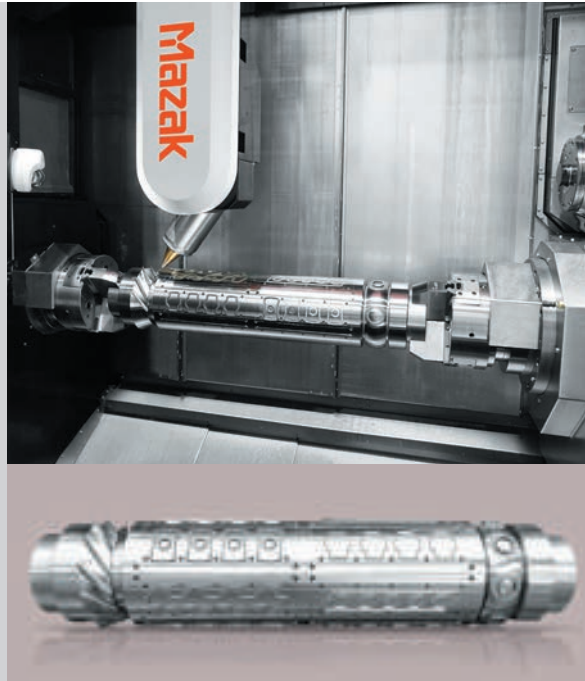
INTEGREX i AM and VARIAXIS j AM application examples

- Near net shape
- Repair / modification

Roll die cutter

Machine : INTEGREX i-300S AM
Laser Metal Deposition
Deposited material : SKD61
Base material : S45C

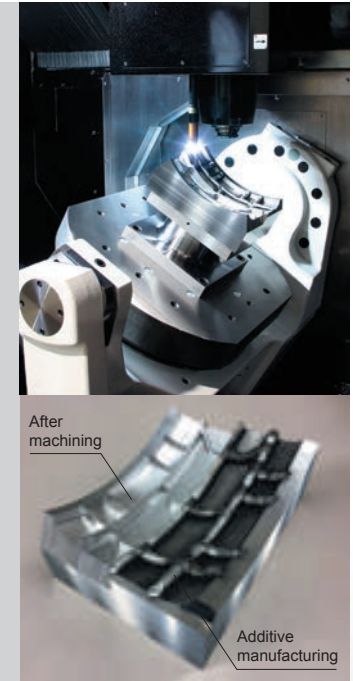
Processes are integrated by hybrid multi-tasking machine. Previously, this component was made complete from S45C which required heat treatment after machining. By using the hybrid multi-tasking machine, a harder material is deposited on the S45C base material, eliminating the heat treatment process.



Tire mold

Machine : VARIAXIS J-600/5X AM
Wire Arc AM
Deposited material : A5356
Base material : A5052

Near net shape reduces machining time and material cost. Repair by additive manufacturing of mold can also be done.



INTEGREX i-400S AM

LASER METAL DEPOSITION

i-400S AM	
Universal	1500U
Max. machining length	1519 mm
Max. machining diameter	Φ658 mm
Travel (X1 / Y1 / Z1 / B1)	615 mm / 260 mm / 1585 mm / -30° ~ 210°
(AM) (X2 / Y2 / Z2 / B2)	730 mm / 260 mm / 1423 mm / 0° ~ 180°
Tool storage capacity	36, *72, *110
Main spindle (40% ED)	3300 rpm, 30 kW (40 HP)
Second spindle (40% ED)	4000 rpm, 26 kW (35 HP)
Milling spindle	12000 rpm, 22 kW (30 HP)



VARIAXIS j-600/5X AM

LASER METAL DEPOSITION

WIRE ARC

j-600/5X AM	
Table size	Φ600 mm × 500 mm
Travel*1 (X / Y / Z)	850 mm / 530 mm / 510 mm
(B / C)	-120° ~ 90° / ±360°
Tool storage capacity	18, *30
Spindle (40% ED)	12000 rpm, 11 kW (15 HP)
Tool shank	CAT-40
Tool capacity	18

*Option *X and Y strokes depends on AM type

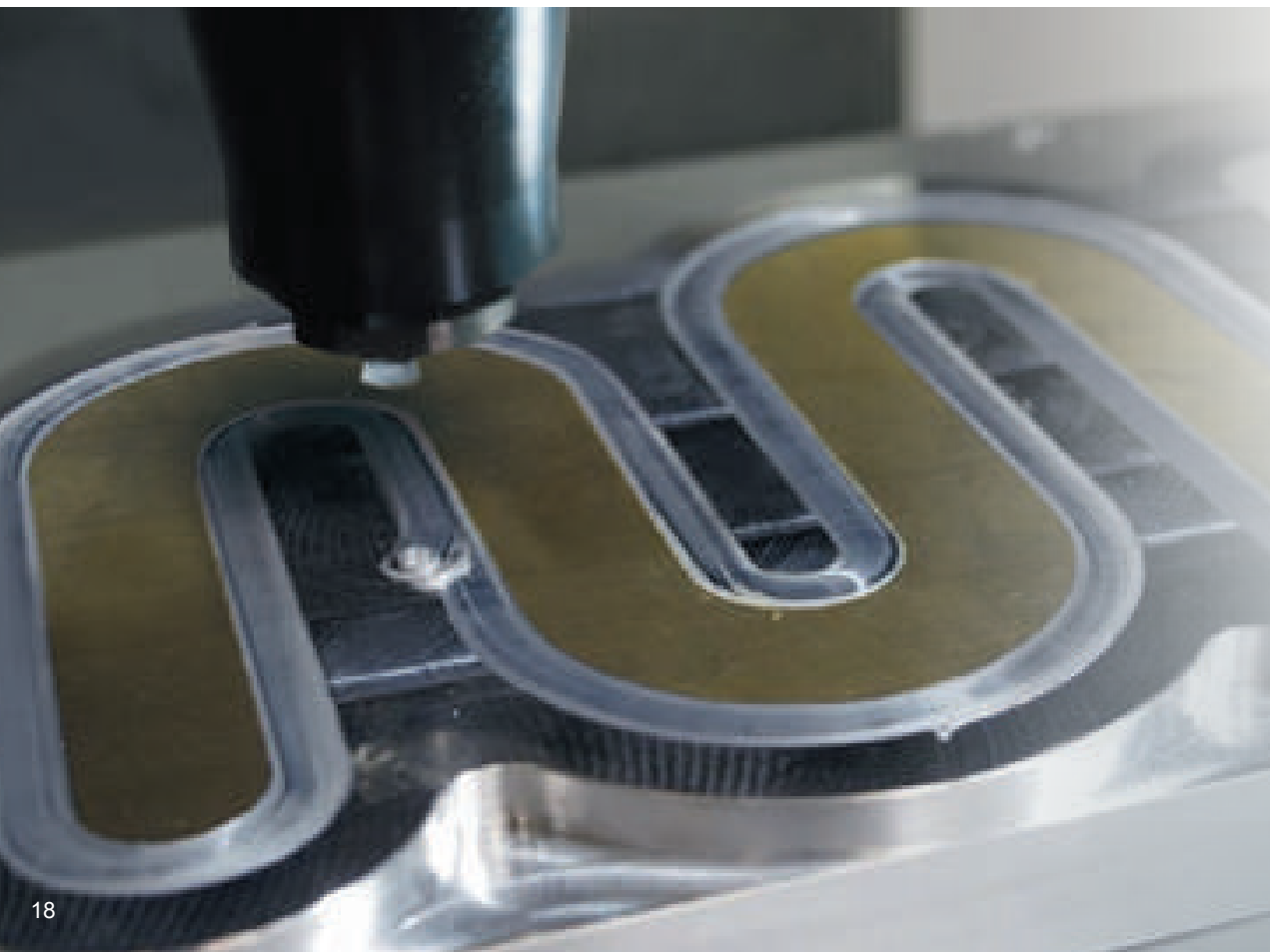
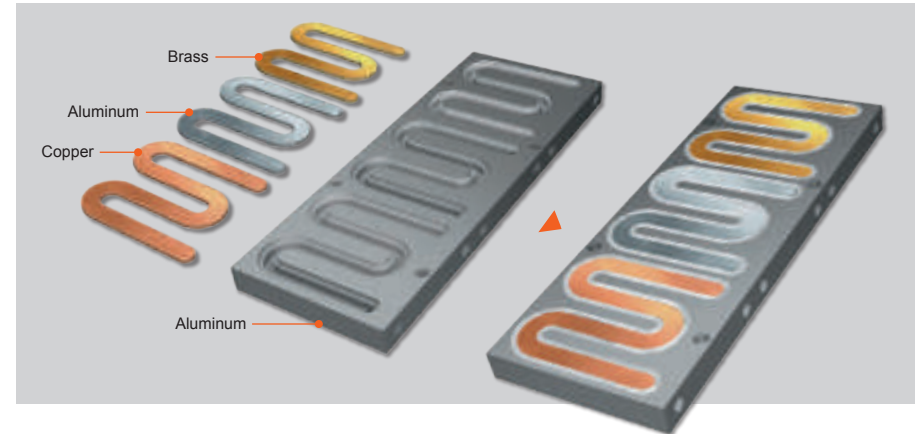


Wire Arc shown

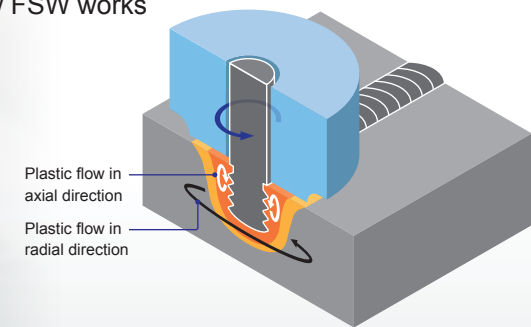
Integration of friction stir welding and machining

Stationary shoulder FSW + machining

Friction Stir Welding (FSW) technologies have been integrated with a machining center. All processes from raw material to finished workpiece can be done in one machine. Friction Stir Welding creates heat by friction by exerting pressure on a round tool to weld the materials. After welding, the welded surface is finish machined to meet the accuracy and surface finish requirements.

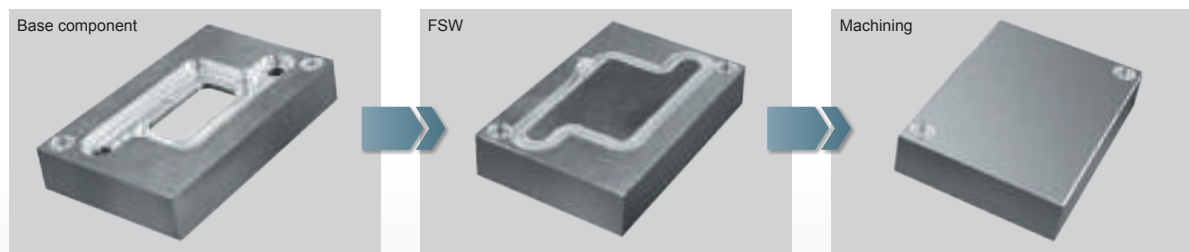
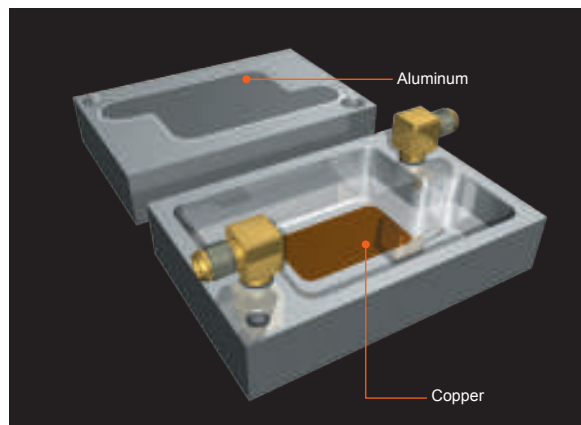


How FSW works



- **Joined with low deformation / distortion**
Strong welds made with minimum material deformation / distortion.
- **Capability of welding dissimilar materials**
FSW can also weld dissimilar materials, such as aluminum and steel.
- **Safe and convenient working environment**
Zero emissions (no fumes, dust, spatter, plasma or UV-rays) produced during the process.

Welding of cooling plate for power control component (Aluminum A6061)



VTC-530/20 FSW

- 2300 mm × 530 mm long table can load long workpiece or multiple workpieces
- By using optional center partition, setup can be performed on one side during machining
- Thanks to the fixed table, hydraulic fixtures, wiring and piping can be conveniently mounted

VTC-530/20 FSW	
Table size	2300 mm × 530 mm
Travel (X / Y / Z)	1950 mm / 530 mm / 510 mm
Spindle (40% ED)	12000 rpm, 11 kW (15 HP)
Tool shank	CAT-40
Tool capacity	30
CNC	MAZATROL SmoothG

FJV-60/80 FSW

- FSW integrated with No.50 taper spindle double column vertical machining center for high accuracy
- Thanks to the large 2240 mm × 1250 mm table, wide range of applications from large workpieces, thin worksheets and multi-surface machining can be performed

FJV-60/80 FSW	
Table size	2240 mm × 1250 mm
Travel (X / Y / Z)	2000 mm / 1400 mm / 660 mm
Spindle (40% ED)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT-50
Tool capacity	30
CNC	MAZATROL SmoothG



FJV-60/80 FSW

Multi-Tasking Machines

Simultaneous 5-axis Multi-Tasking Machines

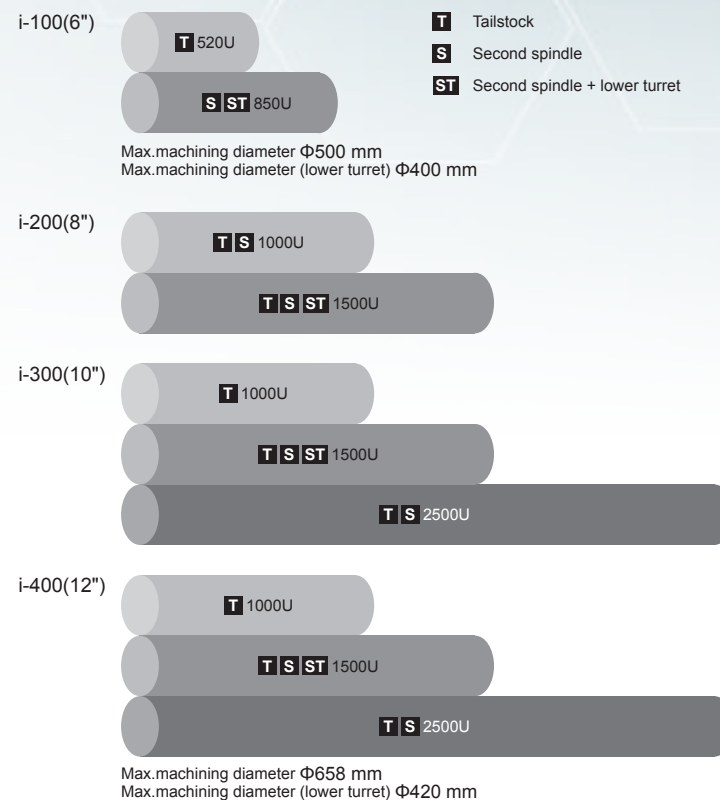
INTEGREX i SERIES

The INTEGREX i series is designed to provide you unsurpassed versatility as well as the capability to meet an extremely wide range of workpiece requirements. The machining of multiple surfaces and complex surfaces requiring simultaneous 5-axis machining can be done by a single machine in a single machine setup. With the longest Y-axis strokes for this machine class and available capacities for long workpieces, the INTEGREX i series can effectively meet a wide variety of your production requirements.



INTEGREX i-400ST

Long workpiece capacity



Multi-Tasking
Machines

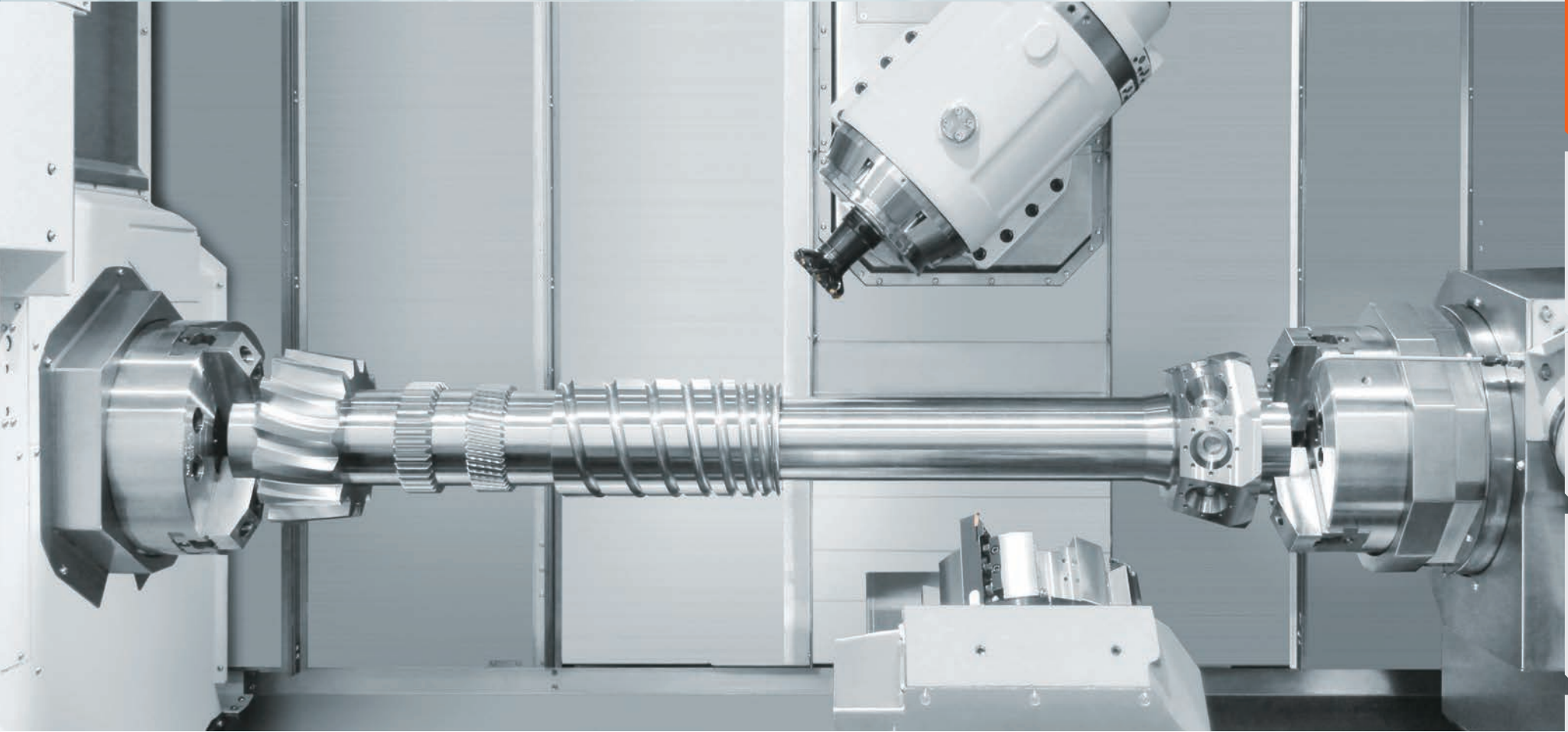
5-axis
Machining Centers

CNC Turning Centers

Vertical
Machining Centers

Horizontal
Machining Centers

Laser Processing
Machines



Multi-Tasking
Machines

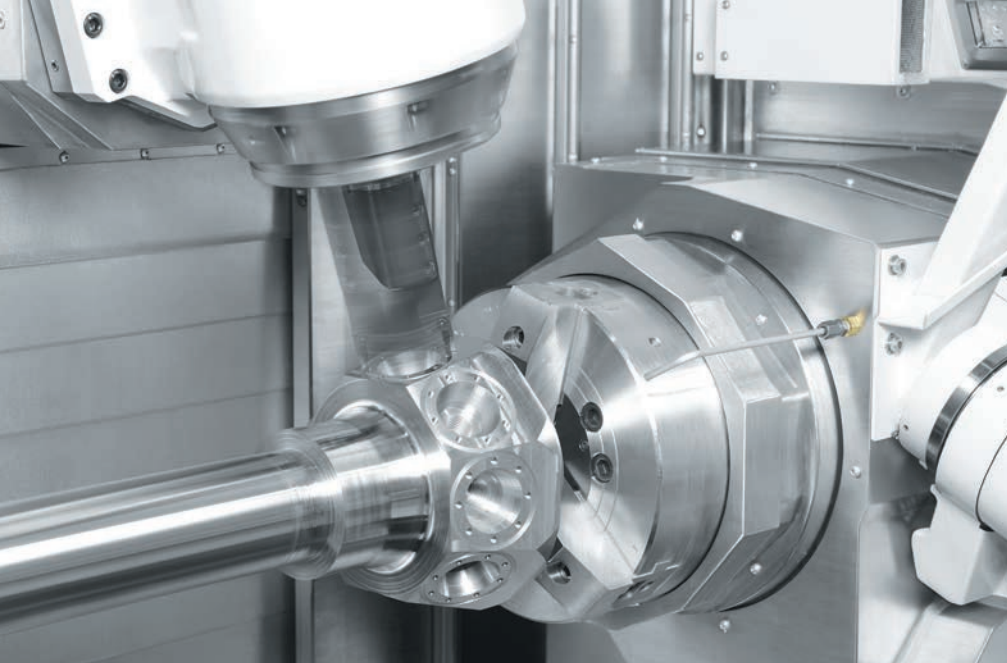
5-axis
Machining Centers

CNC Turning Centers

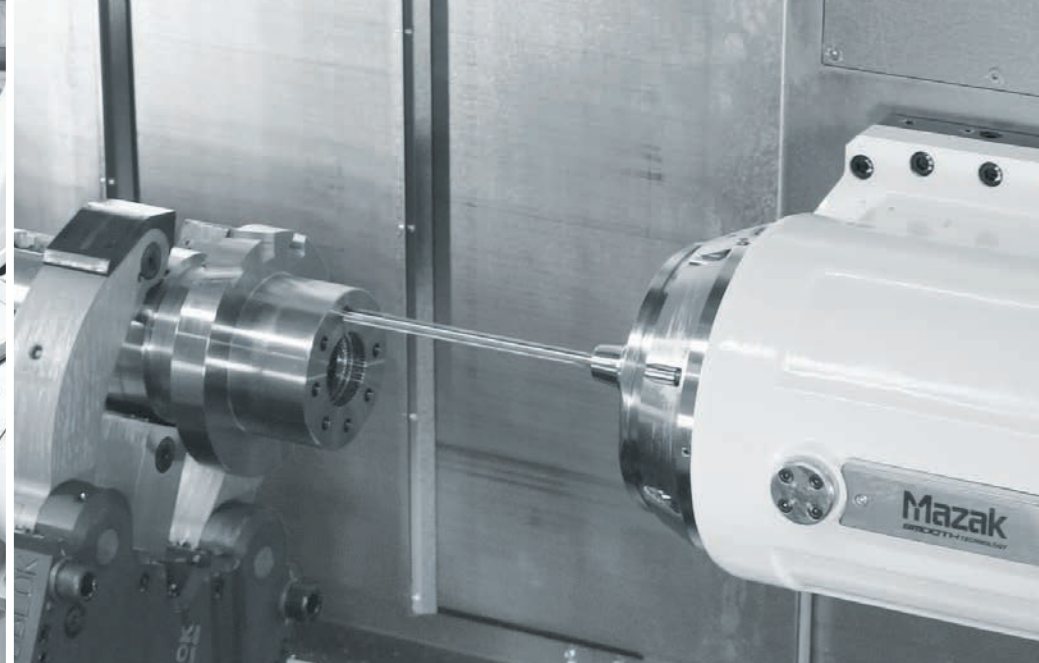
Vertical
Machining Centers

Horizontal
Machining Centers

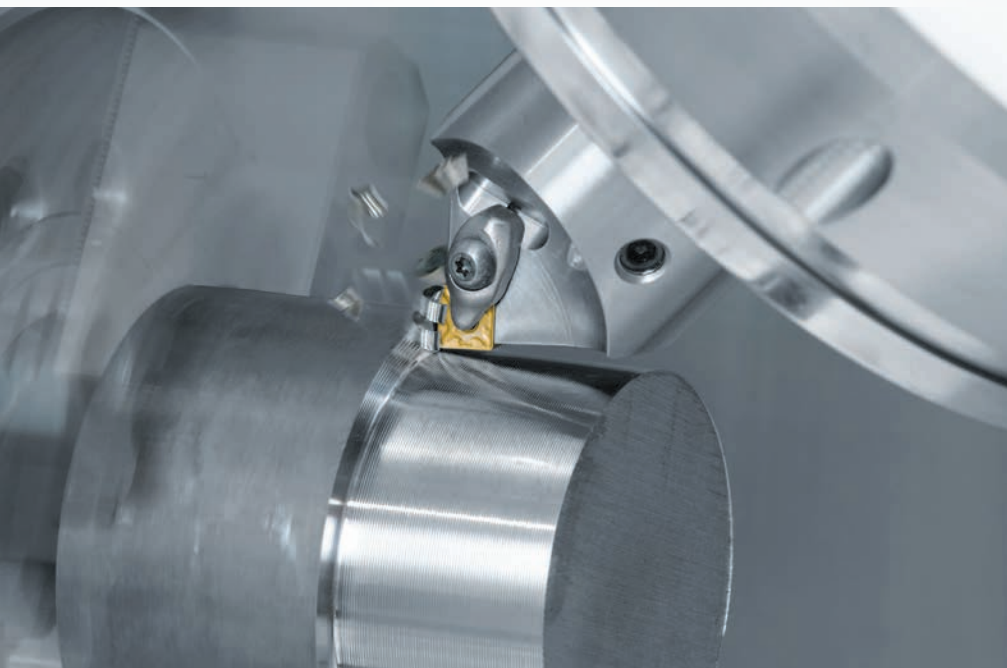
Laser Processing
Machines



Shaping



Long drill deep hole drilling



Turning



Lower turret



INTEGREX i-100ST



INTEGREX i-200 (1000U)



INTEGREX i-400 (1500U)

	i-100	i-100S	i-100ST	i-200
Universal	520U	850U	850U	1000U · 1500U
Chuck size (main / second)	6" / -	6" / 6"	6" / 6"	8" / -
Max. machining length	519 mm	854 mm	854 mm	1011 mm / 1519 mm
Max. machining diameter	Φ500 mm	Φ500 mm	Φ500 mm	Φ658 mm
Max. machining diameter (lower turret)	-	-	Φ400 mm	-
Travel (X / Y / Z / B) (upper turret)	450 mm / 210 mm / 569 mm / -30° ~ 210°	450 mm / 210 mm / 904 mm / -30° ~ 210°	450 mm / 210 mm / 904 mm / -30° ~ 210°	615 mm / 260 mm / 1077 mm · 1585 mm / -30° ~ 210°
(X2 / Z2) (lower turret)	-	-	220 mm / 903 mm	-
Tool storage capacity (upper / lower turret)	36, *72 / -	36, *72 / -	36, *72 / 9	36, *72, *110, *220 / -
Main spindle** (40% ED)	6000 rpm, 11 kW (15 HP)	6000 rpm, 11 kW (15 HP)	6000 rpm, 11 kW (15 HP)	5000 rpm, 22 kW (30 HP)
Second spindle (40% ED)	-	6000 rpm, 11 kW (15 HP)	6000 rpm, 11 kW (15 HP)	-
Milling spindle (40% ED)	12000 rpm, 7.5 kW (10 HP)	12000 rpm, 7.5 kW (10 HP)	12000 rpm, 7.5 kW (10 HP)	12000 rpm, 22 kW (30 HP)

	i-200S	i-200ST	i-300	i-300S
Universal	1000U · 1500U	1500U	1000U · 1500U · 2500U	1500U · 2500U
Chuck size (main / second)	8" / 8"	8" / 8"	10" / -	10" / 10"
Max. machining length	1011 mm / 1519 mm	1519 mm	1011 mm / 1519 mm / 2497 mm	1519 mm / 2497 mm
Max. machining diameter	Φ658 mm	Φ658 mm	Φ658 mm	Φ658 mm
Max. machining diameter (lower turret)	-	Φ420 mm	-	-
Travel (X / Y / Z / B) (upper turret)	615 mm / 260 mm / 1077 mm · 1585 mm / -30° ~ 210°	615 mm / 260 mm / 1585 mm / -30° ~ 210°	615 mm / 260 mm / 1077 mm · 1585 mm · 2563 mm / -30° ~ 210°	615 mm / 260 mm / 1585 mm · 2563 mm / -30° ~ 210°
(X2 / Z2) (lower turret)	-	230 mm / 1388 mm	-	-
Tool storage capacity (upper / lower turret)	36, *72, *110, *220 / -	36, *72, *110, *220 / 9	36, *72, *110, *220 / -	36, *72, *110, *220 / -
Main spindle** (40% ED)	5000 rpm, 22 kW (30 HP)	5000 rpm, 22 kW (30 HP)	4000 rpm, 30 kW (40 HP)	4000 rpm, 30 kW (40 HP)
Second spindle (40% ED)	5000 rpm, 18.5 kW (25 HP)	5000 rpm, 18.5 kW (25 HP)	-	4000 rpm, 26 kW (35 HP)
Milling spindle (40% ED)	12000 rpm, 22 kW (30 HP)	12000 rpm, 22 kW (30 HP)	12000 rpm, 22 kW (30 HP)	12000 rpm, 22 kW (30 HP)

	i-300ST	i-400	i-400S	i-400ST
Universal	1500U	1000U · 1500U · 2500U	1500U · 2500U	1500U
Chuck size (main / second)	10" / 10"	12" / -	12" / 10"	12" / 10"
Max. machining length	1519 mm	1011 mm / 1519 mm / 2497 mm	1519 mm / 2497 mm	1519 mm
Max. machining diameter	Φ658 mm	Φ658 mm	Φ658 mm	Φ658 mm
Max. machining diameter (lower turret)	Φ420 mm	-	-	Φ420 mm
Travel (X / Y / Z / B) (upper turret)	615 mm / 260 mm / 1585 mm / -30° ~ 210°	615 mm / 260 mm / 1077 mm · 1585 mm · 2563 mm / -30° ~ 210°	615 mm / 260 mm / 1585 mm · 2563 mm / -30° ~ 210°	615 mm / 260 mm / 1585 mm / -30° ~ 210°
(X2 / Z2) (lower turret)	230 mm / 1388 mm	-	-	230 mm / 1388 mm
Tool storage capacity (upper / lower turret)	36, *72, *110, *220 / 9	36, *72, *110, *220 / -	36, *72, *110, *220 / -	36, *72, *110, *220 / 9
Main spindle** (40% ED)	4000 rpm, 30 kW (40 HP)	3300 rpm, 30 kW (40 HP)	3300 rpm, 30 kW (40 HP)	3300 rpm, 30 kW (40 HP)
Second spindle (40% ED)	4000 rpm, 26 kW (35 HP)	-	4000 rpm, 26 kW (35 HP)	4000 rpm, 26 kW (35 HP)
Milling spindle (40% ED)	12000 rpm, 22 kW (30 HP)	12000 rpm, 22 kW (30 HP)	12000 rpm, 22 kW (30 HP)	12000 rpm, 22 kW (30 HP)

*Option **Depends on chuck specifications

Multi-Tasking Machines for Bar Work

INTEGREX i-100 BARTAC SERIES

INTEGREX i-100 BARTAC series performs DONE IN ONE processing of bar material up to $\Phi 102$ mm.

	i-100 BARTAC-S	i-100 BARTAC-ST
Chuck size (main / second)	8" / 6"	8" / 6"
Max. machining length**	854 mm	854 mm
Max. machining diameter	$\Phi 500$ mm	$\Phi 500$ mm
Max. machining diameter (lower turret)	-	$\Phi 400$ mm
Travel (X / Y / Z / B) (upper turret)	450 mm / 210 mm / 904 mm / -30° ~ 210°	450 mm / 210 mm / 904 mm / -30° ~ 210°
(X2 / Z2) (lower turret)	-	220 mm / 903 mm
Tool storage capacity (upper / lower turret)	36, *72 / -	36, *72 / 9
Main spindle** (40% ED)	2000 rpm, 11 kW (15 HP)	2000 rpm, 11 kW (15 HP)
Second spindle** (40% ED)	6000 rpm, 11 kW (15 HP)	6000 rpm, 11 kW (15 HP)
Milling spindle (40% ED)	12000 rpm, 7.5 kW (10 HP)	12000 rpm, 7.5 kW (10 HP)

*Option **Depends on chuck specifications



INTEGREX i-100 BARTAC-ST

Compact Multi-Tasking Machine

INTEGREX i-150

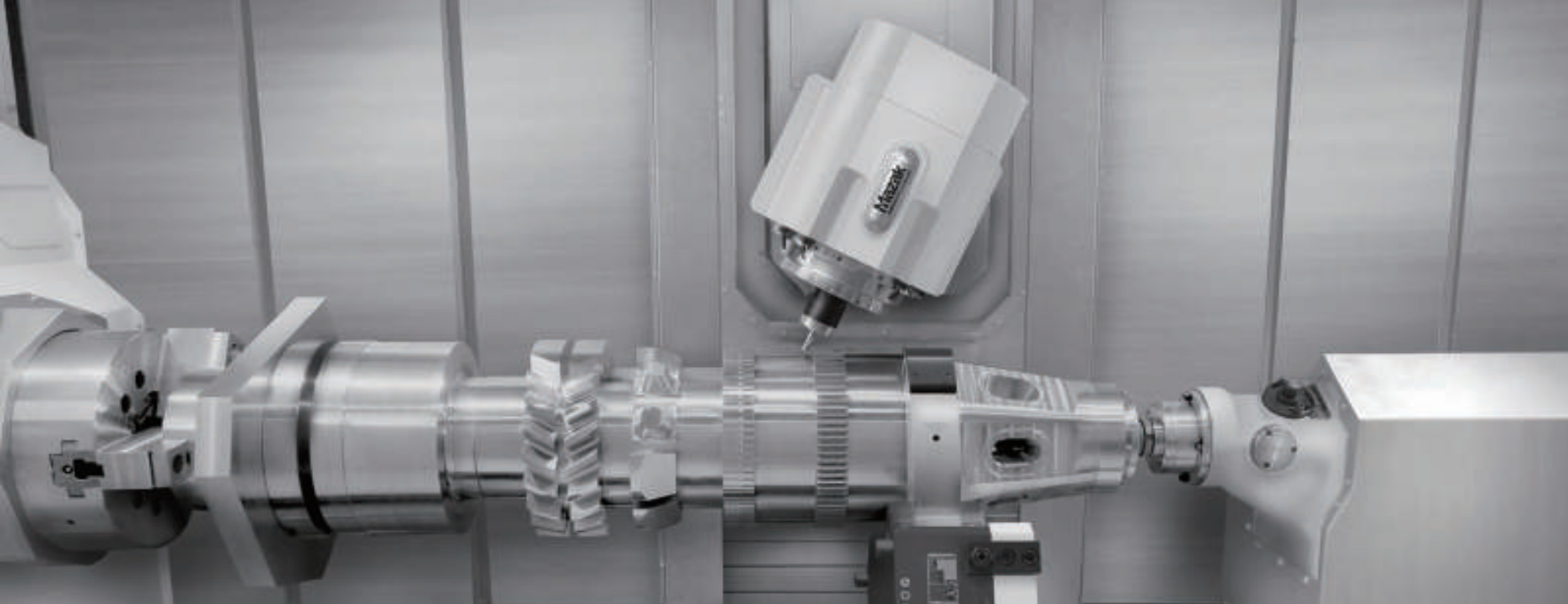
Multi-tasking machine with small floor space requirements

	i-150
Chuck size (main)	6", *8"
Max. machining length**	385 mm
Max. machining diameter	$\Phi 340$ mm
Travel (X / Y / Z / B)	370 mm / 200 mm / 435 mm / -10° ~ 190°
Tool storage capacity	36, *72
Turning spindle** (40% ED)	5000 rpm, 11 kW (15 HP)
Milling spindle (20% ED)	12000 rpm, 7.5 kW (10 HP)

*Option **Depends on chuck specifications



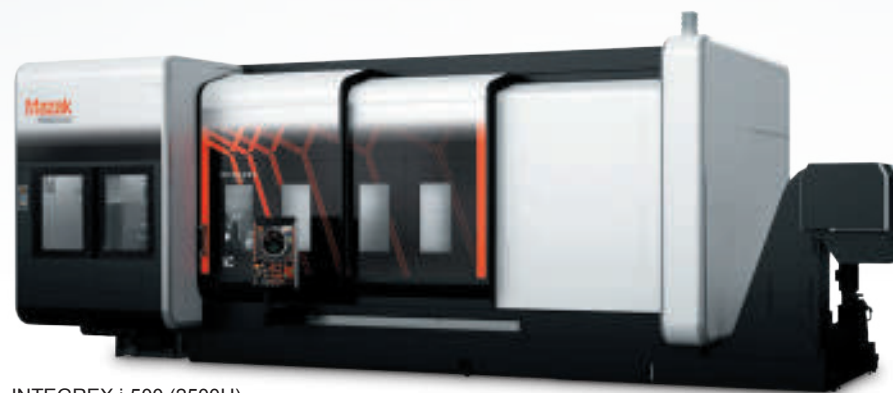
INTEGREX i-150



Multi-Tasking Machine for Large Workpieces

INTEGREX i-500 SERIES

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 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	Φ700 mm	Φ700 mm
Travel (X / Y / Z / B)	845 mm / 430 mm / 1640 mm · 2660 mm · 3140 mm / -30° ~ 210°	845 mm / 430 mm / 1640 mm · 2660 mm · 3140 mm / -30° ~ 210°	845 mm / 430 mm / 1640 mm · 2660 mm / -30° ~ 210°
Tool storage capacity	36, *72, **108, **210	36, *72, **108, **210	36, *72, **108, **210
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 **#50 taper only **#40 taper only

Multi-Tasking
Machines

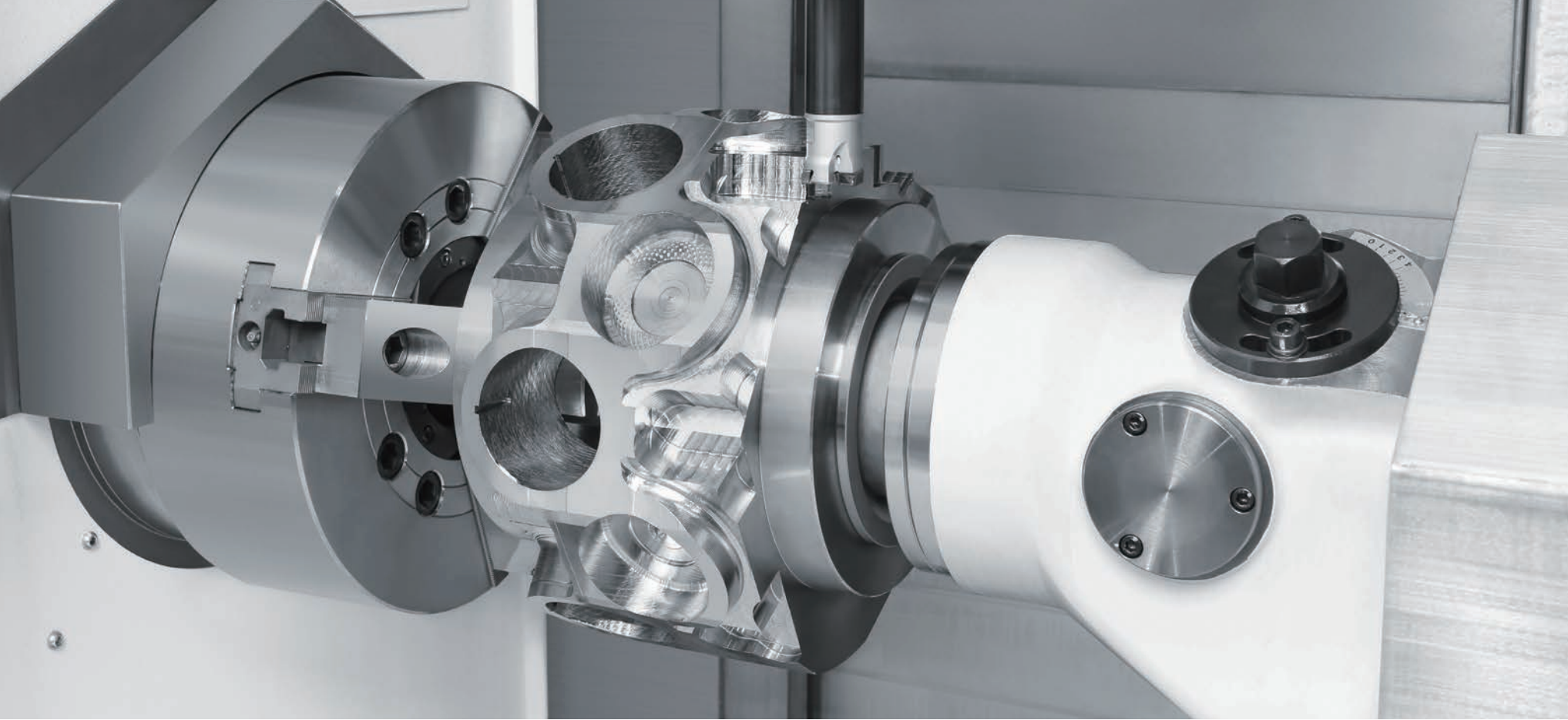
5-axis
Machining Centers

CNC Turning Centers

Vertical
Machining Centers

Horizontal
Machining Centers

Laser Processing
Machines



Horizontal Multi-Tasking Machines

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

T Tailstock

S Second spindle

j-200(8")

T 500U

T S 1000U

j-300(10")

T 650U

T 1200U

j-400(12")

T 650U

T 1200U

Max.machining diameter Φ 500 mm

	j-200	j-200S
Universal	500U · 1000U	1000U
Chuck size (main / second)	8" / -	8" / 8"
Max. machining length*1	500 mm / 1016 mm	910 mm
Max. machining diameter	Φ 500 mm	Φ 500 mm
Travel (X / Y / Z / B) (upper turret)	450 mm / 200 mm / 550 mm · 1066 mm / -30° ~ 190°	450 mm / 200 mm / 960 mm / -30° ~ 210°
Tool storage capacity	20, *36, *72	20, *36, *72
Main spindle**1 (40% ED)	5000 rpm, 11 kW (15 HP), *15 kW (20 HP)	5000 rpm, 11 kW (15 HP), *15 kW (20 HP)
Second spindle**1 (40% ED)	-	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	629 mm · 1165 mm
Max. machining diameter	Φ 500 mm	Φ 500 mm
Travel (X / Y / Z / B) (upper turret)	615 mm / 260 mm / 695 mm · 1231 mm / -30° ~ 190°	615 mm / 260 mm / 695 mm · 1231 mm / -30° ~ 190°
Tool storage capacity	20, *36, *72	20, *36, *72
Main spindle**1 (40% ED)	4000 rpm, 18.5 kW (25 HP)	3300 rpm, 22 kW (30 HP)
Second spindle**1 (40% ED)	-	-
Milling spindle (40% ED)	12000 rpm, 22 kW (30 HP)	12000 rpm, 22 kW (30 HP)

*Option **Depends on chuck specifications

Horizontal Multi-Tasking Machines for Large Workpieces

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.



INTEGREX e-500H (1500U)

Long workpiece capacity

e-500H

T S 1500U

T S 3000U

T 4000U
Max.machining diameter Φ 820 mm

- T** Tailstock
- S** Second spindle
- ST** Second spindle + lower turret

e-670H

T S 2000U

T S 3000U

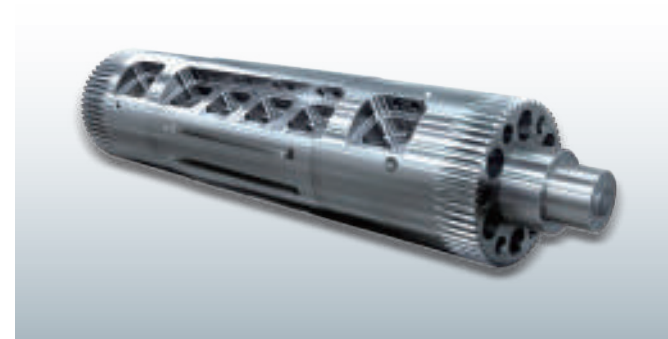
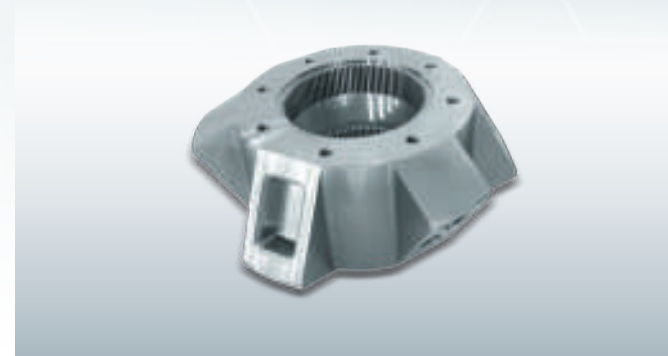
T S 4000U

T 6000U
Max.machining diameter Φ 1070 mm

e-800H

T 4000U

T 6000U

T 8000U
Max.machining diameter Φ 1300 mm



INTEGREX e-670H (4000U)

INTEGREX e-800H (6000U)

	e-500H	e-500H (SIEMENS SINUMERIK 840D sl)	e-500H-S
Universal	1500U · 3000U · 4000U	3000U	1500U · 3000U
Max. machining diameter	Φ820 mm	Φ820 mm	Φ820 mm
Travel (X / Y / Z / B) (upper turret)	870 mm / 500 mm / 1598 mm · 3122 mm · 4138 mm / -30° ~ 210°	870 mm / 500 mm / 3122 mm / -30° ~ 210°	870 mm / 500 mm / 1598 mm · 3122 mm / -30° ~ 210°
(X2 / Z2) (lower turret)	-	-	-
Tool storage capacity	40, *80, *120	40, *80, *120	40, *80, *120
Main spindle (40% ED)* ¹	3300 rpm, 30 kW (40 HP)	3300 rpm, 30 kW (40 HP)	3300 rpm, 30 kW (40 HP)
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)	8000 rpm, 45 kW (60 HP)	10000 rpm, 37 kW (50 HP)

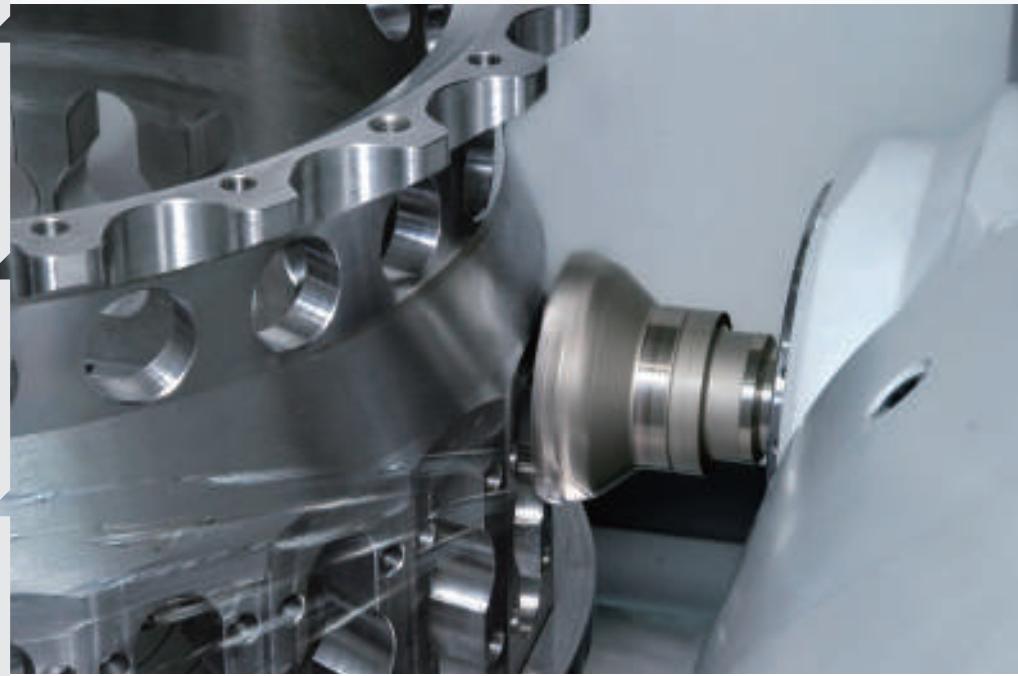
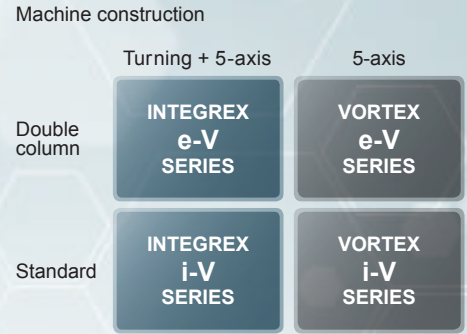
	e-670H	e-670H (SIEMENS SINUMERIK 840D sl)	e-670H-S	e-800H
Universal	2000U · 3000U · 4000U · 6000U	4000U	2000U · 3000U · 4000U	4000U · 6000U · 8000U
Max. machining diameter	Φ1070 mm* ²	Φ1070 mm	Φ1070 mm	Φ1300 mm
Travel (X / Y / Z / B) (upper turret)	1025 mm / 670 mm / 2106 mm · 3122 mm · 4138 mm · 6170 mm / -30° ~ 210°	1025 mm / 670 mm / 4138 mm / -30° ~ 210°	1025 mm / 670 mm / 2106 mm · 3122 mm · 4138 mm / -30° ~ 210°	1300 mm / 800 mm / 4380 mm · 6380 mm · 8380 mm / -30° ~ 210°
(X2 / Z2) (lower turret)	-	-	-	-
Tool storage capacity	40, *80, *120	40, *80, *120	40, *80, *120	40, *80, *120
Main spindle (40% ED)* ¹	1600 rpm, 45 kW (60 HP)* ³	1600 rpm, 45 kW (60 HP)	1600 rpm, 45 kW (60 HP)	700 rpm, 45 kW (60 HP)
Milling 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)

* Option ¹ Depends on chuck specifications ² Max. swing is smaller when equipped with long boring bar system ³ 6000U : 1000 rpm, 45 kW (60 HP)

Vertical Multi-Tasking Machines for Large Workpieces

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 realize 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 where as the INTEGREX e-V series can perform simultaneous 5-axis machining plus turning operation. These machines were developed to meet your production requirements and to provide unsurpassed versatility.



Multi-Tasking Machines

5-axis Machining Centers

CNC Turning Centers

Vertical Machining Centers

Horizontal Machining Centers

Laser Processing Machines



INTEGRIX e-1850V/25S

	INTEGRIX VORTEX e-1250V/8S	INTEGRIX VORTEX e-1600V/10S	INTEGRIX e-1850V/25S
Single pallet			
Max. workpiece size	Φ1500 mm x 1600 mm	Φ2300 mm x 1669 mm	Φ3500 mm x 1800 mm
Max. load (including pallet weight)	4000 kg	7000 kg	15000 kg

2-pallet
changer

Max. workpiece size

Max. load
(including pallet weight)

2-pallet
changer

Max. workpiece size

Max. load
(including pallet weight)

	INTEGRIX VORTEX e-1250V/8	INTEGRIX VORTEX e-1600V/10	INTEGRIX e-1850V/12
2-pallet changer			
Max. workpiece size	Φ1450 mm x 1600 mm	Φ2050 mm x 1600 mm	Φ2350 mm x 1800 mm
Max. load (including pallet weight)	2700 kg	5000 kg	7000 kg
	INTEGRIX e-RAMTEC V/8	INTEGRIX e-RAMTEC V/10	INTEGRIX e-RAMTEC V/12
2-pallet changer			
Max. workpiece size	Φ1250 mm x 1250 mm	Φ2000 mm x 1440 mm	Φ2350 mm x 1800 mm
Max. load (including pallet weight)	2700 kg	5000 kg	7000 kg

Vertical Multi-Tasking Machines for Large Workpieces

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. Single table and 2-pallet changer versions are available as well as the ability of being integrated into a PALLETECH MANUFACTURING CELL.



INTEGREX e-1250V/8



INTEGREX e-1600V/10S

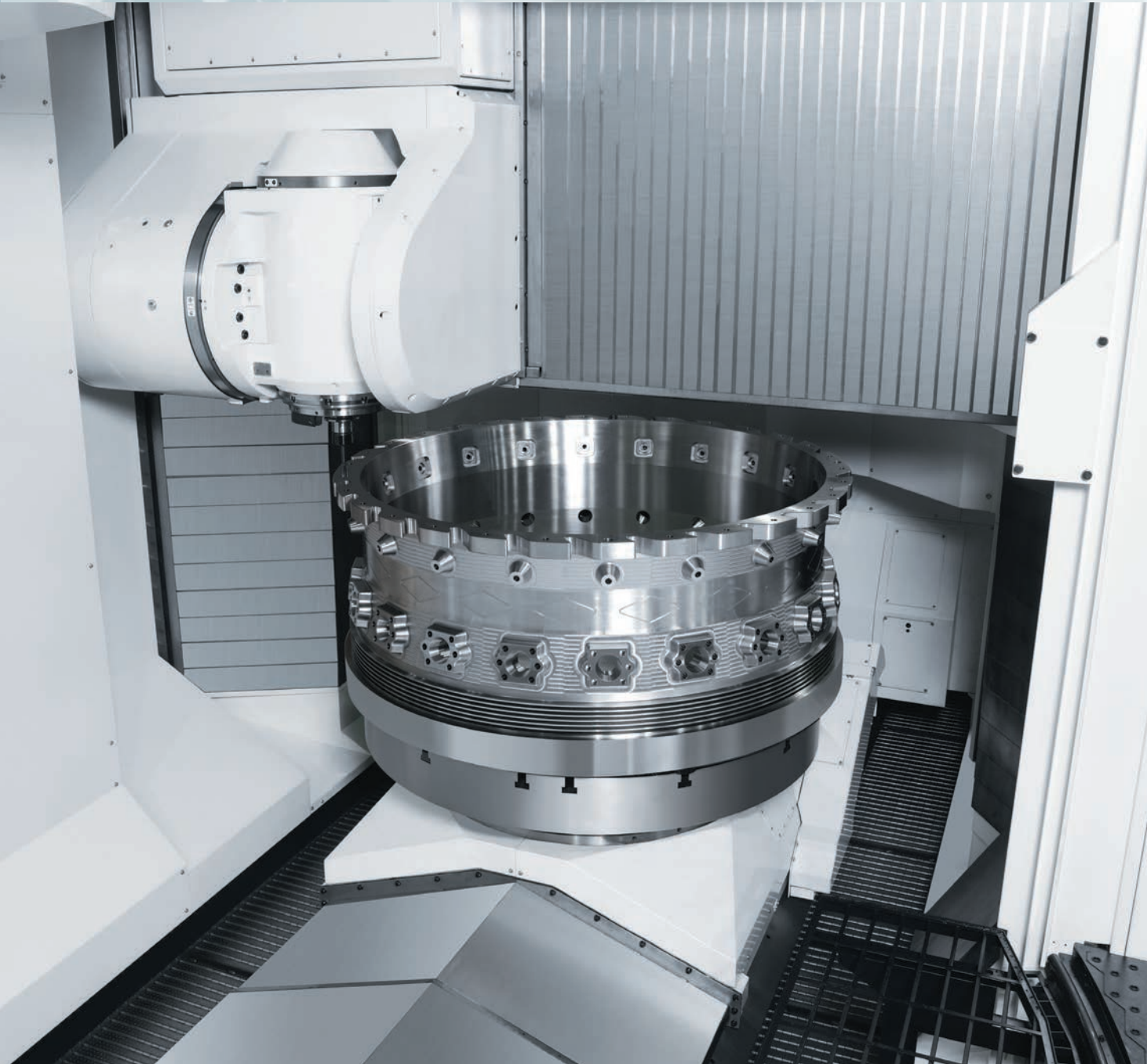


INTEGREX e-1850V/12

	e-1250V/8	e-1250V/8 (SIEMENS SINUMERIK 840D sl)	e-1250V/8S (Single table)
Max. workpiece dimensions*1	Φ1450 mm × 1600 mm, □800 mm (tapped pallet)	Φ1450 mm × 1600 mm, □800 mm (tapped pallet)	Φ1500 mm × 1600 mm, Φ1250 mm (faceplate)
Pallet size	*□800 mm, *□1000 mm, *Φ1000 mm	*□800 mm, *□1000 mm, *Φ1000 mm	*□1000 mm, *Φ1250 mm
Travel (X / Y / Z) (B / C)	1875 mm / 1250 mm / 1345 mm 150° / 360°	1875 mm / 1250 mm / 1345 mm 150° / 360°	1875 mm / 1250 mm / 1345 mm 150° / 360°
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min	42 m/min / 42 m/min / 42 m/min	42 m/min / 42 m/min / 42 m/min
Turning spindle (cont. rating)*2	500 rpm, 40 kW (53 HP)	500 rpm, 40 kW (53 HP)	500 rpm, 40 kW (53 HP)
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)	8000 rpm, 45 kW (60 HP)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT-50	CAT-50	CAT-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/10	e-1600V/10S (Single table)	e-1850V/12	e-1850V/25S (Single table)
Max. workpiece dimensions*1	Φ2050 mm × 1600 mm, □1000 mm (tapped pallet)	Φ2300 mm × 1669 mm, Φ1400 mm (faceplate)	Φ2350 mm × 1800 mm, □1250 mm (tapped pallet)	Φ3500 mm × 1800 mm, Φ2500 mm (tapped pallet)
Pallet size	*□1000 mm, *Φ1250 mm, *Φ1400 mm	*Φ1250 mm, *Φ1500 mm, *Φ1650 mm	*□1250 mm, *1200 mm × 1600 mm, *Φ1650 mm, *Φ1850 mm	*Φ2500 mm, *Φ3000 mm
Travel (X / Y / Z) (B / C)	2315 mm / 1600 mm / 1345 mm 150° / 360°	2165 mm / 1600 mm / 1345 mm 150° / 360°	3055 mm / 1850 mm / 1800 mm 150° / 360°	3055 mm / 1850 mm / 1800 mm 150° / 360°
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min	42 m/min / 42 m/min / 42 m/min	40 m/min / 40 m/min / 40 m/min	20 m/min / 40 m/min / 40 m/min
Turning spindle (cont. rating)*2	300 rpm, 40 kW (53 HP)	300 rpm, 40 kW (53 HP)	250 rpm, 37 kW (50 HP)	100 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)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT-50	CAT-50	CAT-50	CAT-50
Tool storage capacity	42, *84, *120, *162, *180, *216, *252, *288, *324, *360	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 *1Depends on pallet and table specifications *2Depends on chuck specifications. 50 rpm for square pallet



Multi-Tasking
Machines

5-axis
Machining
Centers

CNC Turning
Centers

Vertical
Machining
Centers

Horizontal
Machining
Centers

Laser
Processing
Machines

Double Column Simultaneous 5-axis Machining Centers

VORTEX e-V SERIES

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. Single table and 2-pallet changer versions are available as well as the ability of being integrated into a PALLETECH MANUFACTURING CELL.



VORTEX e-1250V/8S



VORTEX e-1600V/10

	e-1250V/8	e-1250V/8S (Single table)	e-1600V/10	e-1600V/10S (Single table)
Max. workpiece dimensions	Φ1450 mm × 1600 mm, *□800 mm (tapped pallet)	Φ1500 mm × 1655 mm, *□1000 mm (tapped pallet)	Φ2050 mm × 1600 mm, *□1000 mm (tapped pallet)	Φ2300 mm × 1669 mm, *Φ1400 mm (faceplate)
Pallet size	*□800 mm, *□1000 mm, *Φ1000 mm	*□800 mm, *Φ800 mm, *□1000 mm, *Φ1000 mm, *Φ1250 mm	*□1000 mm, *Φ1400 mm	*Φ1250 mm, *Φ1400 mm, *Φ1500 mm, *Φ1650 mm
Travel (X / Y / Z / B / C)	1875 mm / 1250 mm / 1345 mm / 150° / 360°	1875 mm / 1250 mm / 1345 mm / 150° / 360°	2315 mm / 1600 mm / 1345 mm / 150° / 360°	2165 mm / 1600 mm / 1345 mm / 150° / 360°
Milling 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)
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min	42 m/min / 42 m/min / 42 m/min	42 m/min / 42 m/min / 42 m/min	42 m/min / 42 m/min / 42 m/min
Tool shank	CAT-50	CAT-50	CAT-50	CAT-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	42, *84, *120, *162, *180, *216, *252, *288, *324, *360

*Option



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/10

	e-RAMTEC V/8	e-RAMTEC V/10
Max. workpiece dimensions	Φ1250 mm × 1250 mm, □800 mm (tapped pallet)	Φ2000 mm × 1440 mm, □1000 mm (tapped pallet)
Pallet size	*□800 mm, *□1000 mm, *Φ1000 mm	*□1000 mm, *Φ1250 mm, *Φ1400 mm
Travel (X / Y / Z)	1875 mm / 1060 mm / 1595 mm	1725 mm / 1060 mm / 1450 mm
(B / C)	150° / 360°	150° / 360°
(W)	900 mm	900 mm
Rapid traverse rate (X / Y / Z / W)	42 m/min / 42 m/min / 42 m/min / 30 m/min	42 m/min / 42 m/min / 42 m/min / 30 m/min
Turning spindle (40% ED)*1	500 rpm, 37 kW (40 HP)	300 rpm, 37 kW (50 HP)
Milling spindle (40% ED)	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-50 / CAPTO C6	CAT-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, □1250 mm (tapped pallet)	
Pallet size	*□1250 mm, *1250 mm × 1600 mm, *Φ1650 mm, *Φ1850 mm	
Travel (X / Y / Z)	3055 mm / 1700 mm / 1800 mm	
(B / C)	150° / 360°	
(W)	900 mm	
Rapid traverse rate (X / Y / Z / W)	40 m/min / 40 m/min / 40 m/min / 30 m/min	
Turning spindle (40% ED)*1	250 rpm, 45 kW (60 HP)	
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)	
Ram spindle (10 min. rating)	3000 rpm, 7.5 kW (10 HP)	
Tool shank (milling / ram spindle)	CAT-50 / CAPTO C6	
Tool storage capacity (milling / ram spindle)	40, *80, *120, *160, *180, *204, *240, *288, *312, *348 / 40	

*Option *1 Depends on chuck specifications. 50 rpm for square pallet

Vertical Multi-Tasking / Simultaneous 5-axis Machines for Large Workpieces

INTEGREX i-V, VORTEX i-V SERIES

The INTEGREX i-V and VORTEX i-V series, with its design based on a horizontal machining center, has slightly smaller machining areas when compared with the INTEGREX e-V and VORTEX e-V series. The VORTEX i-V series can perform simultaneous 5-axis machining and the INTEGREX i-V series can perform simultaneous 5-axis machining plus turning operation. These advanced multi-tasking machines were developed to provide you exceptional versatility and unsurpassed performance.

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

INTEGREX VORTEX

Single Table

	i-630V/6S	i-800V/8S
Max. workpiece size	Φ1250 mm × 1400 mm	Φ1700 mm × 1665 mm
Max. load (including pallet weight)	1750 kg	3500 kg

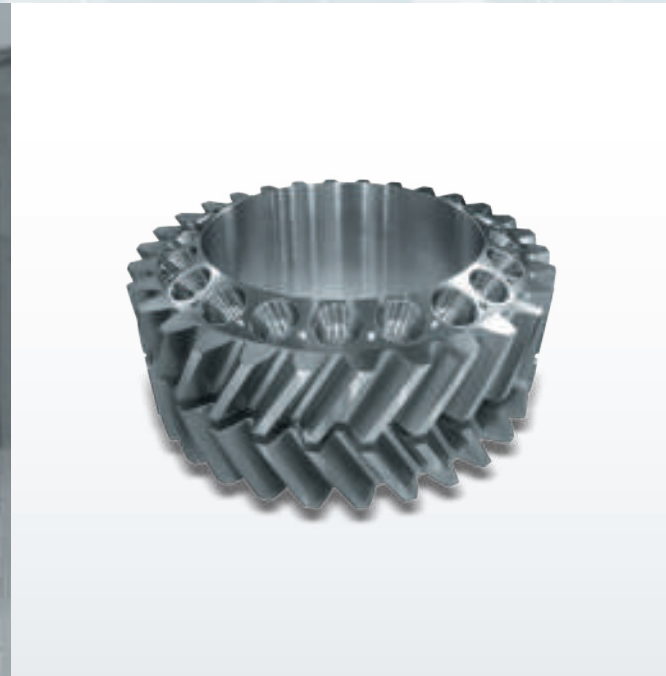
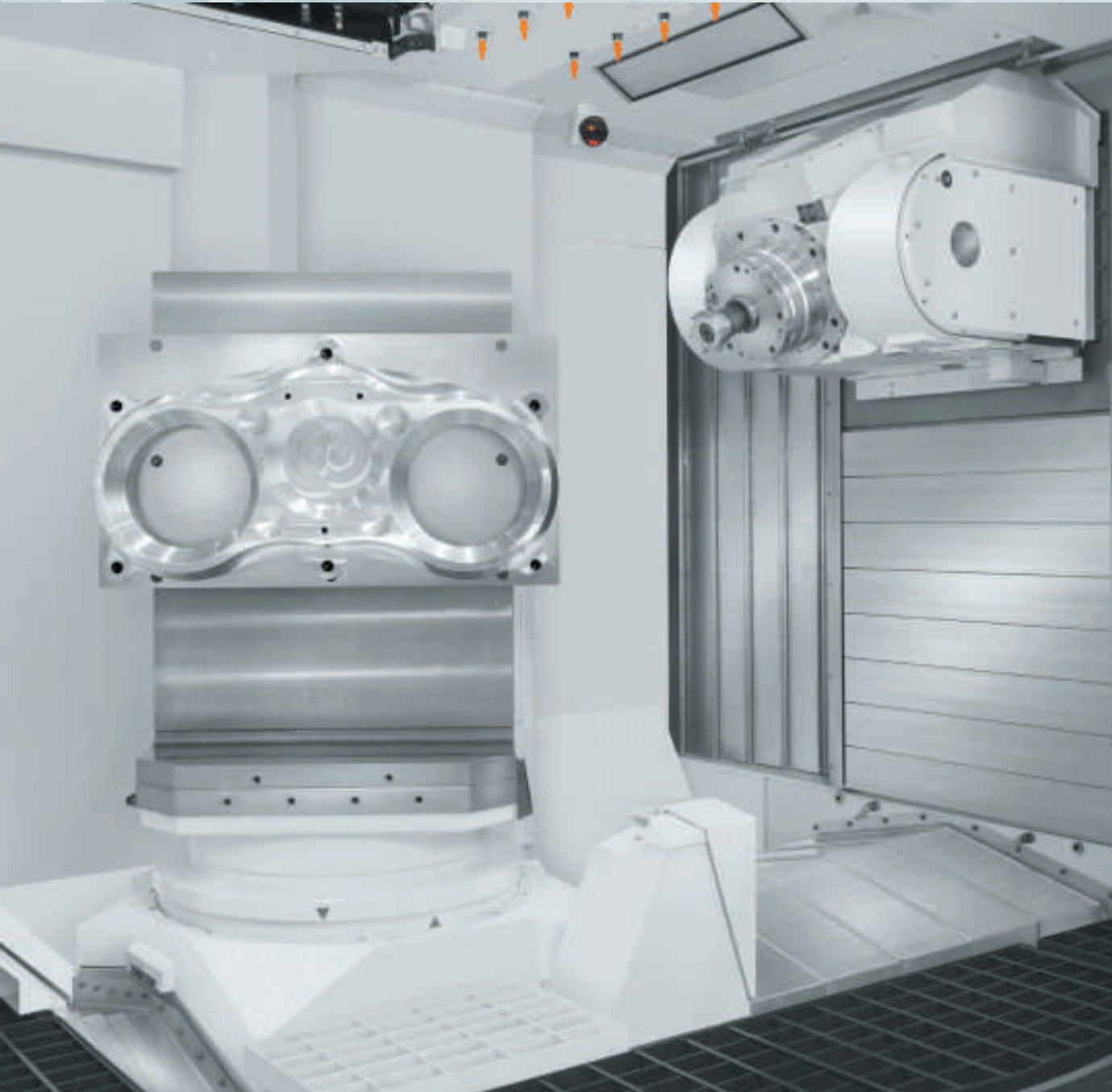
INTEGREX VORTEX

2-pallet changer

	i-500V/5	i-600V/6	i-800V/8
Max. workpiece size	Φ730 mm × 1000 mm	Φ1050 mm × 1000 mm	Φ1500 mm × 1500 mm
Max. load (including pallet weight)	880 kg	1750 kg	3000 kg



INTEGREX i-800V/8S



Multi-Tasking
Machines

5-axis
Machining Centers

CNC Turning Centers

Vertical
Machining Centers

Horizontal
Machining Centers

Laser Processing
Machines

Vertical Multi-Tasking Machines for Large Workpieces

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/8

	i-500V/5	i-630V/6	i-630V/6S (Single Table)
Max. workpiece dimensions*1	Φ730 mm × 1000 mm (□500 mm tapped pallet)	Φ1050 mm × 1000 mm (□630 mm tapped pallet)	Φ1250 mm × 1400 (□630 mm tapped pallet)
Pallet size	*□500 mm, *Φ610 mm	*□630 mm, *□800 mm, *Φ800 mm, *Φ1000 mm	*□630 mm, *□800 mm, *Φ800 mm, *Φ1000 mm
Travel (X / Y / Z)	1100 mm / 800 mm / 900 mm	1425 mm / 1050 mm / 1050 mm	1425 mm / 1050 mm / 1050 mm
(B / C)	150° / 360°	150° / 360°	150° / 360°
Rapid traverse rate (X / Y / Z)	50 m/min / 50 m/min / 50 m/min	52 m/min / 52 m/min / 52 m/min	52 m/min / 52 m/min / 52 m/min
Spindle (cont. rating)*2	1000 rpm, 22 kW (30 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-40	CAT-50	CAT-50
Tool storage capacity	40, *80, *120	43, *80, *120, *160, *180, *206, *240, *276, *348	43, *80, *120, *160, *180, *206, *240, *276, *348

	i-800V/8	i-800V/8S (Single Table)
Max. workpiece dimensions*1	Φ1500 mm × 1500 mm (□800 mm tapped pallet)	Φ1700 mm × 1600 mm
Pallet size	*□800 mm, *□1000 mm, *800 mm × 1000 mm, *Φ1000 mm	*Φ1000 mm, *Φ1250 mm
Travel (X / Y / Z)	1700 mm / 1500 mm / 1150 mm	1700 mm / 1500 mm / 1150 mm
(B / C)	150° / 360°	150° / 360°
Rapid traverse rate (X / Y / Z)	52 m/min / 52 m/min / 52 m/min	52 m/min / 52 m/min / 52 m/min
Spindle (cont. rating)*2	500 rpm, 45 kW (60 HP)	500 rpm, 45 kW (60 HP)
Milling spindle	10000 rpm, 37 kW (50 HP) (40% ED)	10000 rpm, 37 kW (50 HP) (40% ED)
Tool shank	CAT-50	CAT-50
Tool storage capacity	43, *80, *120, *160, *180, *206, *240, *276, *348	43, *80, *120, *160, *180, *206, *240, *276, *348

*Option *1Depends on pallet and table specifications *2Depends on chuck specifications. 50 rpm for square pallet/palle

5-axis Simultaneous Vertical Machining Centers

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-800V/8S



VORTEX i-630V/6S



VORTEX i-800V/8

	i-630V/6	i-630V/6S (Single table)
Max. workpiece dimensions	Φ1050 mm × 1000 mm	Φ1250 mm × 1400 mm
Pallet size	*□630 mm, *□800 mm, *800 mm × 630 mm	*□630 mm, *Φ800 mm
Travel (X / Y / Z)	1425 mm / 1050 mm / 1050 mm	1425 mm / 1050 mm / 1050 mm
(B / C)	150° / 360°	150° / 360°
Rapid traverse rate (X / Y / Z)	52 m/min / 52 m/min / 52 m/min	52 m/min / 52 m/min / 52 m/min
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT-50	CAT-50
Tool storage capacity	43, *80, *120, *160, *180, *206, *240, *276, *348	43, *80, *120, *160, *180, *206, *240, *276, *348

	i-800V/8	i-800V/8S (Single table)
Max. workpiece dimensions	Φ1500 mm × 1500 mm	Φ1700 mm × 1665 mm (Φ1000 mm bolt-on-table)
Pallet size	*□800 mm, *□1000 mm, *800 mm × 1000 mm, *Φ800 mm, *Φ1000 mm	*□800 mm, *□1000 mm, *800 mm × 1000 mm, *Φ800 mm, *Φ1000 mm
Travel (X / Y / Z)	1700 mm / 1500 mm / 1150 mm	1700 mm / 1500 mm / 1150 mm
(B / C)	150° / 360°	150° / 360°
Rapid traverse rate (X / Y / Z)	52 m/min / 52 m/min / 52 m/min	52 m/min / 52 m/min / 52 m/min
Milling spindle (40% ED)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT-50	CAT-50
Tool storage capacity	43, *80, *120, *160, *180, *206, *240, *276, *348	43, *80, *120, *160, *180, *206, *240, *276, *348

*Option

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

VARIAXIS i-500



Max. workpiece size

Φ500 mm × 350 mm

Max. load

300 kg

VARIAXIS i-600



Φ700 mm × 450 mm

500 kg

VARIAXIS i-700
VARIAXIS i-700T



Φ850 mm × 500 mm

700 kg

VARIAXIS i-800
VARIAXIS i-800T



Φ1000 mm × 375 mm
Φ800 mm × 500 mm

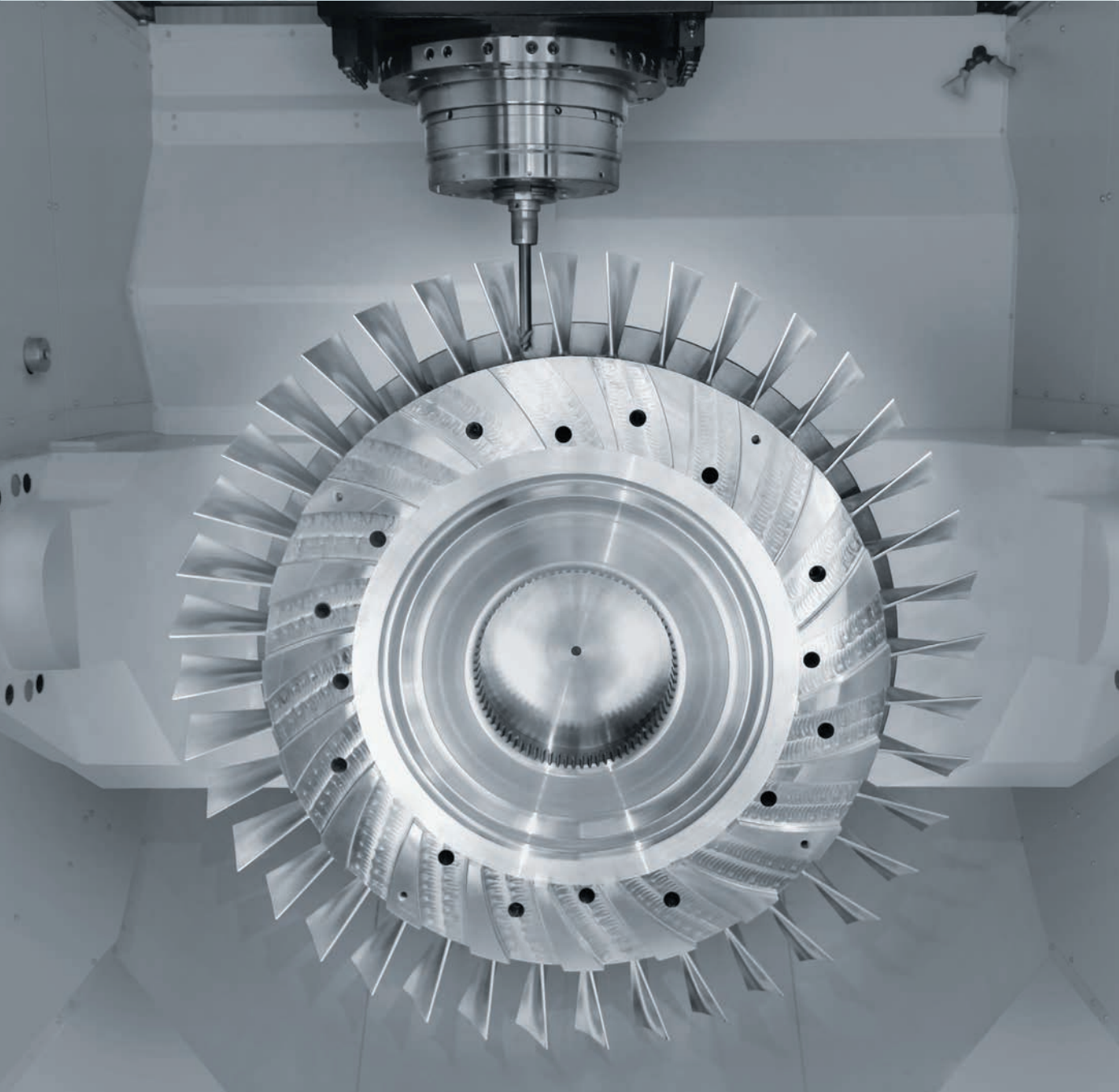
1000 kg

VARIAXIS i-1050
VARIAXIS i-1050T



Φ1250 mm × 900 mm

2000 kg



Multi-Tasking
Machines

5-axis
Machining
Centers

CNC Turning
Centers

Vertical
Machining
Centers

Horizontal
Machining
Centers

Laser Processing
Machines



VARIAXIS i-500

VARIAXIS i-600

	i-500	i-500 (SIEMENS SINUMERIK 840D sl)	i-600	i-600 (SIEMENS SINUMERIK 840D sl)
CNC	MAZATROL SmoothX	SIEMENS SINUMERIK 840D sl	MAZATROL SmoothX	SIEMENS SINUMERIK 840D sl
Pallet size	Φ500 mm × 400 mm	Φ500 mm × 400 mm	Φ600 mm × 500 mm	Φ600 mm × 500 mm
Travel (X / Y / Z)	350 mm / 550 mm / 510 mm	350 mm / 550 mm / 510 mm	510 mm / 910 mm / 510 mm	510 mm / 910 mm / 510 mm
(A / C)	-120° ~ +30° / ±360°	-120° ~ +30° / ±360°	-120° ~ +30° / ±360°	-120° ~ +30° / ±360°
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 56 m/min	60 m/min / 60 m/min / 56 m/min	60 m/min / 60 m/min / 56 m/min	60 m/min / 60 m/min / 56 m/min
(A / C)	18000° /min / 18000° /min	18000° /min / 18000° /min	18000° /min / 18000° /min	18000° /min / 18000° /min
Spindle (40% ED)	12000 rpm, 22 kW (30 HP)	18000 rpm, 37.5 kW (50 HP) (cont. rating)	12000 rpm, 22 kW (30 HP)	18000 rpm, 37.5 kW (50 HP) (cont. rating)
Tool shank	CAT-40, BT-40, HSK-A63	CAT-40, BT-40, HSK-A63	CAT-40, BT-40, HSK-A63	CAT-40, BT-40, HSK-A63
Tool storage capacity	30, *40, *60, *80, *120	40, *80	30, *40, *80, *120, *160, *200, *240, *280, *320, *360	40, *80

	i-700	i-800	i-1050
CNC	MAZATROL SmoothX	MAZATROL SmoothX	MAZATROL SmoothX
Pallet size	Φ700 mm × 500 mm	Φ800 mm × 630 mm	Φ1050 mm × 800 mm
Travel (X / Y / Z)	630 mm / 1100 mm / 600 mm	730 mm / 850 mm / 560 mm	1200 mm / 1385 mm / 900 mm
(A / C)	-120° ~ +30° / ±360°	-120° ~ +30° / ±360°	-150° ~ +130° / ±360°
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 56 m/min	42 m/min / 42 m/min / 42 m/min	40 m/min / 40 m/min / 40 m/min
(A / C)	18000° /min / 18000° /min	18000° /min / 18000° /min	5400° /min / 10800° /min
Spindle (40% ED)	12000 rpm, 22 kW (30 HP)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT-40, BT-40, HSK-A63	CAT-50, BT-50, HSK-A100	CAT-50, BT-50, HSK-A100
Tool storage capacity	30, *40, *80, *120, *160, *200, *240, *280, *320, *360	30, *40, *80, *120, *180, *216, *252, *288, *324, *360, *396, *432	30, *40, *80, *120

*Option



VARIAXIS i-700T



VARIAXIS i-800T



VARIAXIS i-1050T

	i-700T	i-800T
CNC	MAZATROL SmoothX	MAZATROL SmoothX
Pallet size	Φ630 mm	Φ800 mm
Travel (X / Y / Z)	630 mm / 1100 mm / 600 mm	730 mm / 850 mm / 560 mm
(A / C)	-120° ~ +30° / ±360°	-130° ~ +30° / ±360°
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 56 m/min	42 m/min / 42 m/min / 42 m/min
(A / C)	18000° /min / 3600° /min	10800° /min / 36000° /min
Spindle (40% ED)	18000 rpm, 30 kW (40 HP)	10000 rpm, 37 kW (50 HP)
Turning spindle (cont. rating)	1100 rpm, 18.3 kW (24.5 HP)	800 rpm, 25 kW (33.5 HP)
Tool shank	CAT-40, BT-40, HSK-T63	CAT-50, BT-50, HSK-T100
Tool storage capacity	30, *40, *80, *120, *160, *200, *240, *280, *320, *360	30, *40, *80, *120

	i-1050T
CNC	MAZATROL SmoothX
Pallet size	Φ1050 mm
Travel (X / Y / Z)	1200 mm / 1385 mm / 900 mm
(A / C)	-150° ~ +130° / ±360°
Rapid traverse rate (X / Y / Z)	40 m/min / 40 m/min / 40 m/min
(A / C)	5400° /min / 10800° /min
Spindle (40% ED)	10000 rpm, 37 kW (50 HP)
Turning spindle (cont. rating)	500 rpm, 25 kW (33.5 HP)
Tool shank	CAT-50, BT-50, HSK-T100
Tool storage capacity	30, *40, *80, *120

*Option

Multi-Tasking
Machines

5-axis
Machining
Centers

CNC Turning
Centers

Vertical
Machining
Centers

Horizontal
Machining
Centers

Laser
Processing
Machines

Multiple-Surface Vertical Machining Centers

VARIAXIS j 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 and j-600/5X.

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

VARIAXIS j-500
VARIAXIS j-500/5X



Max. work piece size
Max. load

Φ500 mm × 350 mm
200 kg

VARIAXIS j-600
VARIAXIS j-600/5X



Max. work piece size
Max. load

Φ730 mm × 450 mm
500 kg



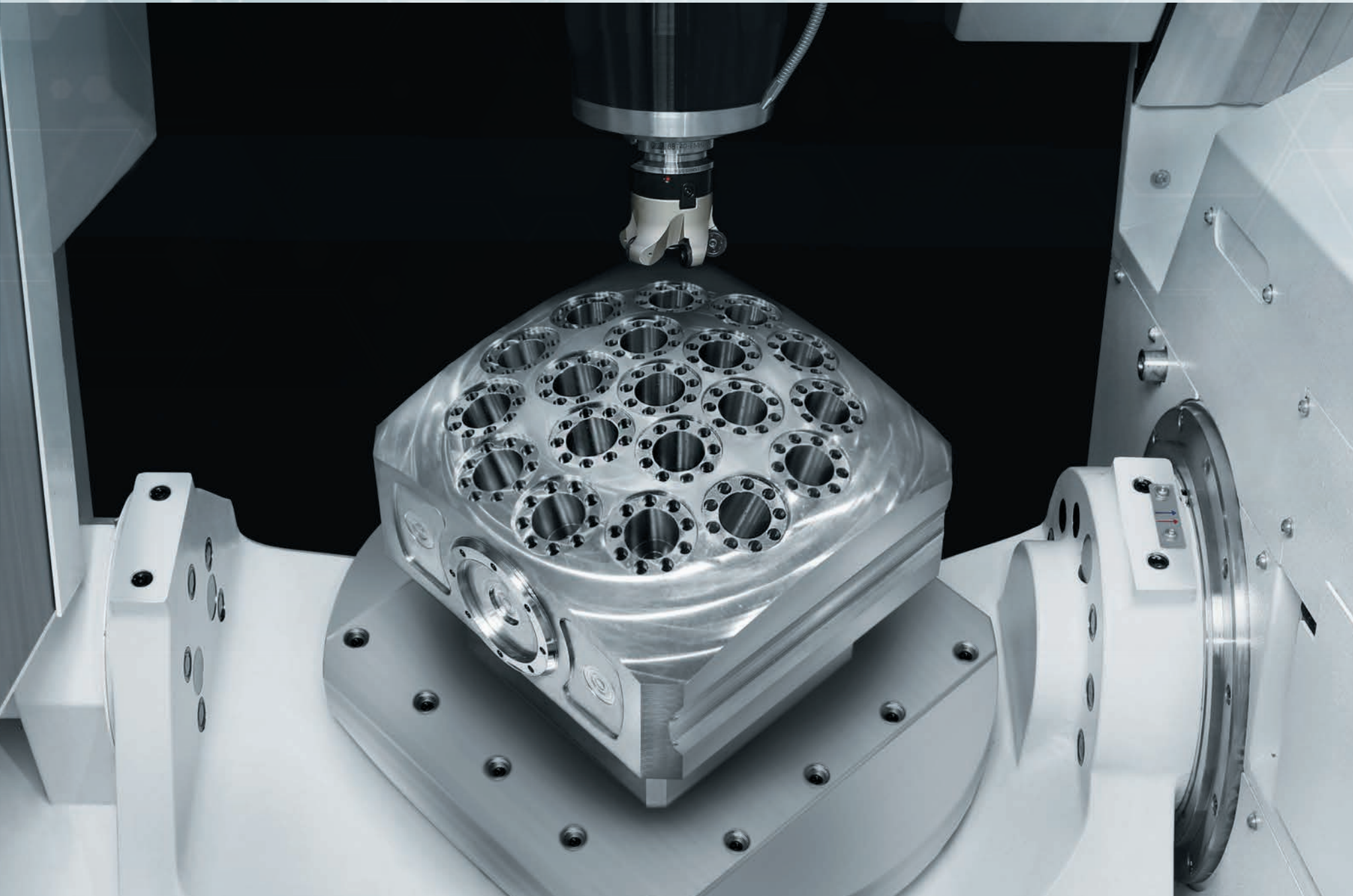
VARIAXIS j-500



VARIAXIS j-600/5X

	j-500, j-500/5X	j-600, j-600/5X
Pallet size	Φ500 mm × 400 mm	Φ600 mm × 500 mm
Travel (X / Y / Z)	350 mm / 550 mm / 510 mm	850 mm / 550 mm / 510 mm
(A / C) (j-500, j-500/5X)	-120° ~ +30° / 360° (A / C)	-120° ~ +90° / 360° (B / C)
(B / C) (j-600, j-600/5X)		
Rapid traverse rate (X / Y / Z)	30 m/min / 30 m/min / 30 m/min	30 m/min / 30 m/min / 30 m/min
(A / C) (j-500, j-500/5X)	10800° /min / 10800° /min (A / C)	10800° /min / 10800° /min (B / C)
(B / C) (j-600, j-600/5X)		
Spindle (40% ED)	12000 rpm, 11 kW (15 HP)	12000 rpm, 11 kW (15 HP)
Tool shank	CAT-40, BT-40	CAT-40, BT-40
Tool storage capacity	18, *30	18, *30

*Option



Multi-Tasking
Machines

5-axis
Machining Centers

CNC Turning Centers

Vertical
Machining Centers

Horizontal
Machining Centers

Laser Processing
Machines

Compact 5-axis Machining Center with Auto Work Changer

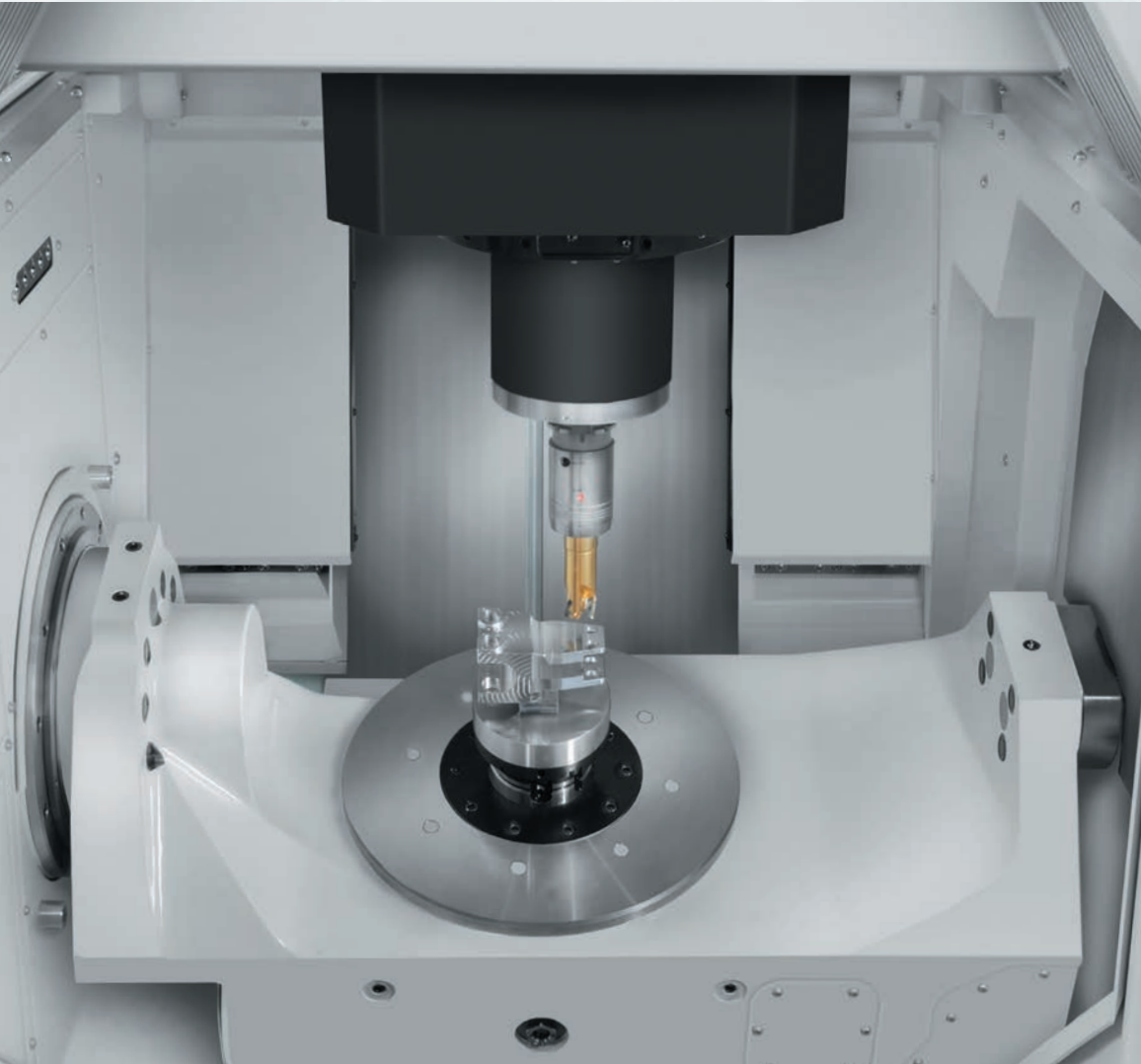
VARIAXIS i-300 AWC

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



VARIAXIS i-300 AWC	
Work holder interface	HSK-A100
Travel (X / Y / Z)	350 mm / 550 mm / 510 mm
(A / C)	-120° ~ +30° / ±360°
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 56 m/min
(A / C)	50 rpm / 50 rpm
Milling spindle (40% ED)	12000 rpm, 22 kW (30 HP)
Tool shank	CAT-40
Tool storage capacity	145, *205, *265, *325, *385, *445, *505

*Option

Multi-Tasking Machines

5-axis Machining Centers

CNC Turning Centers

Vertical Machining Centers

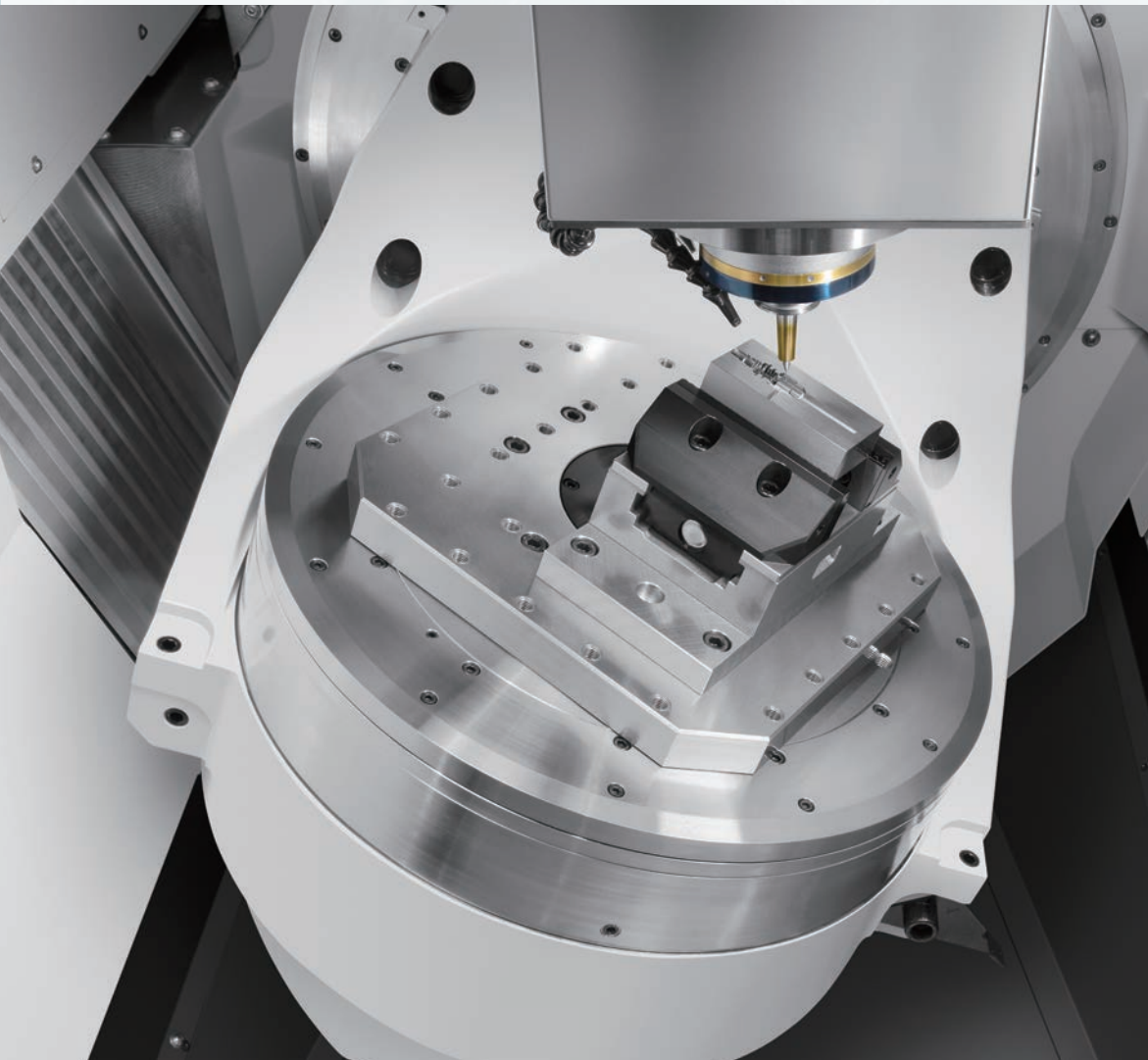
Horizontal Machining Centers

Laser Processing Machines

High-Accuracy 5-axis Machining Center

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

UD-400/5X	
Pallet size	Φ400 mm × 300 mm
Travel (X / Y / Z / B / C)	550 mm / 400 mm / 350 mm / -120° ~ +30° / ±360°
Rapid traverse rate (X / Y / Z / B / C)	48 m/min / 48 m/min / 48 m/min / 60 rpm / 150 rpm
Spindle (40% ED)	45000 rpm, 13.8 kW (18.5 HP)
Tool shank	HSK-E40
Tool storage capacity	40, *80

*Option

Multi-Tasking
Machines

5-axis
Machining Centers

CNC Turning Centers

Vertical
Machining Centers

Horizontal
Machining Centers

Laser Processing
Machines

High-Speed 5-axis Horizontal Machining Centers

HCR-5000 SERIES

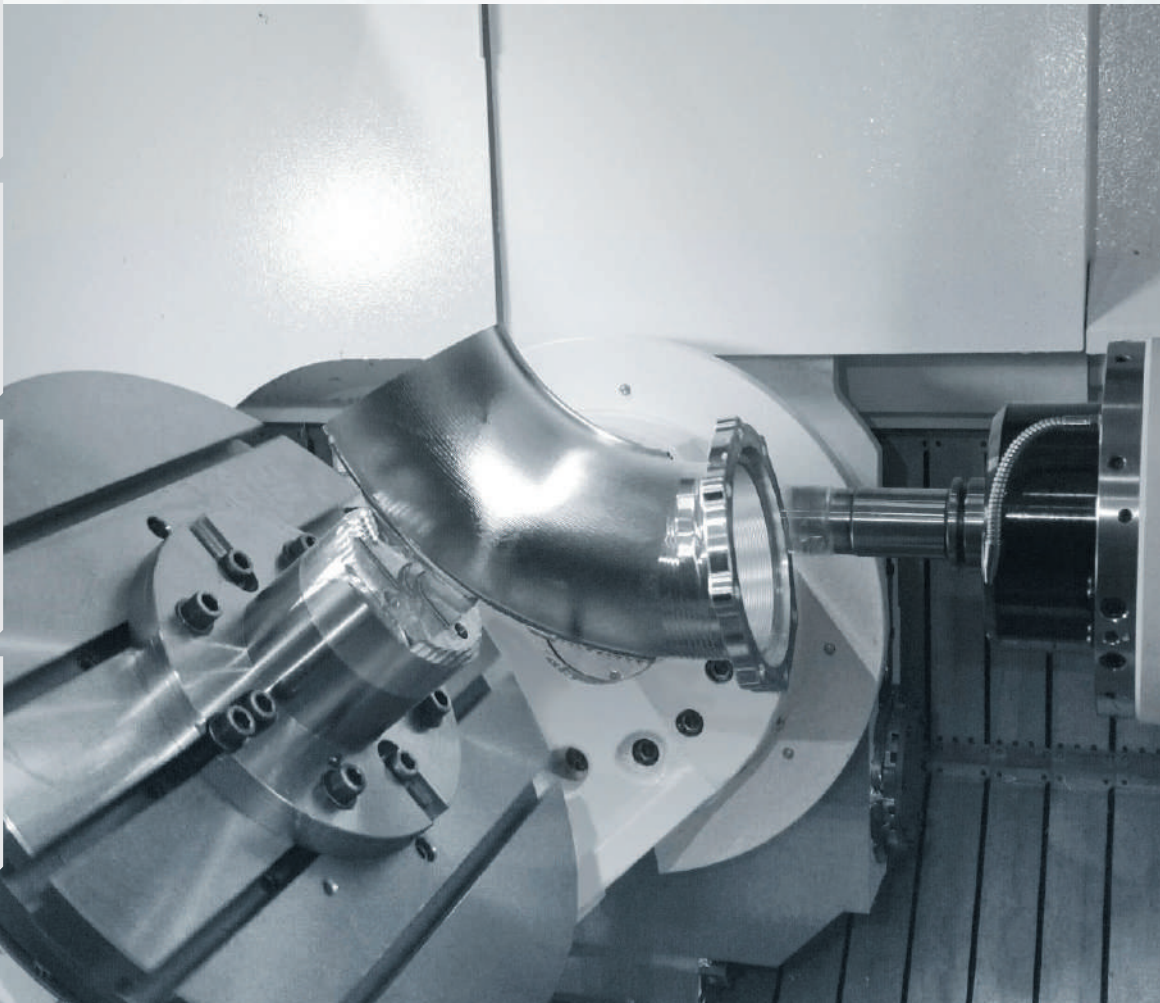
The HCR series is designed for high-efficiency machining of small-medium size components, such as those found in the aerospace, semiconductor equipment machinery, and automotive component machinery industries. To meet your production requirements, 4 types of spindle specifications are available – 12000 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



HCR-5000



HCR-5000	
Max. workpiece dimensions	Φ700 mm × 643.6 mm
Pallet size	□500 mm
Travel (X / Y / Z)	730 mm / 730 mm / 730 mm
(A / C)	225° / 360°
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 60 m/min
Milling spindle (40% ED)	12000 rpm, 18.5 kW (25 HP)
Tool shank	CAT-40
Tool storage capacity	40, *60, *80, *120, *160, *180, *240, *348

HCR-5000S (Single table)	
Max. workpiece dimensions	Φ700 mm × 643.6 mm
Pallet size	Φ630 mm
Travel (X / Y / Z)	730 mm / 730 mm / 730 mm
(A / C)	225° / 360°
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 60 m/min
Milling spindle (40% ED)	12000 rpm, 18.5 kW (25 HP)
Tool shank	CAT-40
Tool storage capacity	40, *60, *80, *120, *160, *180, *240, *348

*Option

Simultaneous 5-axis Horizontal Profiler

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	4000 mm × 1600 mm
Travel (X / Y / Z)	4200 mm / 1500 mm / 550 mm	4200 mm / 1500 mm / 550 mm
(A / C)	±110° / ±200°, *±360°	±110° / ±360°
Rapid traverse rate (X / Y / Z)	35 m/min / 30 m/min / 30 m/min	35 m/min / 30 m/min / 30 m/min
(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



VORTEX HORIZONTAL PROFILER 160 XP

Simultaneous 5-axis Vertical Machining Centers

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	4000 mm × 1250 mm
Travel (X / Y / Z)	3048 mm / 810 mm / 610 mm	4200 mm / 1400 mm / 610 mm
(A / B)	±40° / ±40°	±40° / ±40°
Rapid traverse rate (X / Y / Z)	24 m/min / 24 m/min / 20 m/min	20 m/min / 32 m/min / 20 m/min
(A / B)	3600°/min / 3600°/min	3600°/min / 3600°/min
Spindle (30 min. rating)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT-50	CAT-50
Tool storage capacity	30, *60	30, *60, *120

*Option



VORTEX 1400/160-II

Large Multiple-Surface, Double Column 5-axis Machining Centers

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 high-speed feedrate for the X-, Y-, Z-axis and the No.50 taper integral spindle / motor.



VERSATECH V-140N/280

	V-100N/160	V-100N/200	V-100N/240
Distance between columns	2750 mm	2750 mm	2750 mm
Table size	2100 mm × 3000 mm	2100 mm × 4000 mm	2100 mm × 5000 mm
Travel (X / Y / Z / W / B / C)	4000 mm / 3600 mm / 710 mm / 1250 mm / ±100° / ±180°	5000 mm / 3600 mm / 710 mm / 1250 mm / ±100° / ±180°	6000 mm / 3600 mm / 710 mm / 1250 mm / ±100° / ±180°
Rapid traverse rate (X / Y / Z / W)	30 m/min / 30 m/min / 30 m/min / 3 m/min	30 m/min / 30 m/min / 30 m/min / 3 m/min	30 m/min / 30 m/min / 30 m/min / 3 m/min
Spindle (40% ED)*1	8000 rpm (40 kW), 12000 rpm (45 kW)	8000 rpm (40 kW), 12000 rpm (45 kW)	8000 rpm (40 kW), 12000 rpm (45 kW)
Tool shank	CAT-50, *HSK-A100	CAT-50, *HSK-A100	CAT-50, *HSK-A100
Tool storage capacity	30, *60, *120	30, *60, *120	30, *60, *120

	V-140N/280	V-140N/360	V-140N/440
Distance between columns	3750 mm	3750 mm	3750 mm
Table size	3100 mm × 6000 mm	3100 mm × 8000 mm	3100 mm × 10000 mm
Travel (X / Y / Z / W / B / C)	7000 mm / 4600 mm / 710 mm / 1250 mm / ±100° / ±180°	9000 mm / 4600 mm / 710 mm / 1250 mm / ±100° / ±180°	11000 mm / 4600 mm / 710 mm / 1250 mm / ±100° / ±180°
Rapid traverse rate (X / Y / Z / W)	30 m/min / 30 m/min / 30 m/min / 3 m/min	15 m/min / 30 m/min / 30 m/min / 3 m/min	15 m/min / 30 m/min / 30 m/min / 3 m/min
Spindle (40% ED)*1	8000 rpm (40 kW), 12000 rpm (45 kW)	8000 rpm (40 kW), 12000 rpm (45 kW)	8000 rpm (40 kW), 12000 rpm (45 kW)
Tool shank	CAT-50, *HSK-A100	CAT-50, *HSK-A100	CAT-50, *HSK-A100
Tool storage capacity	30, *60, *120	30, *60, *120	30, *60, *120

*Option **Selectable 8000 rpm and 12000 rpm spindles



Multi-Tasking
Machines

5-axis
Machining Centers

CNC Turning Centers

Vertical
Machining Centers

Horizontal
Machining Centers

Laser Processing
Machines

Shown with optional equipment

CNC Turning Centers

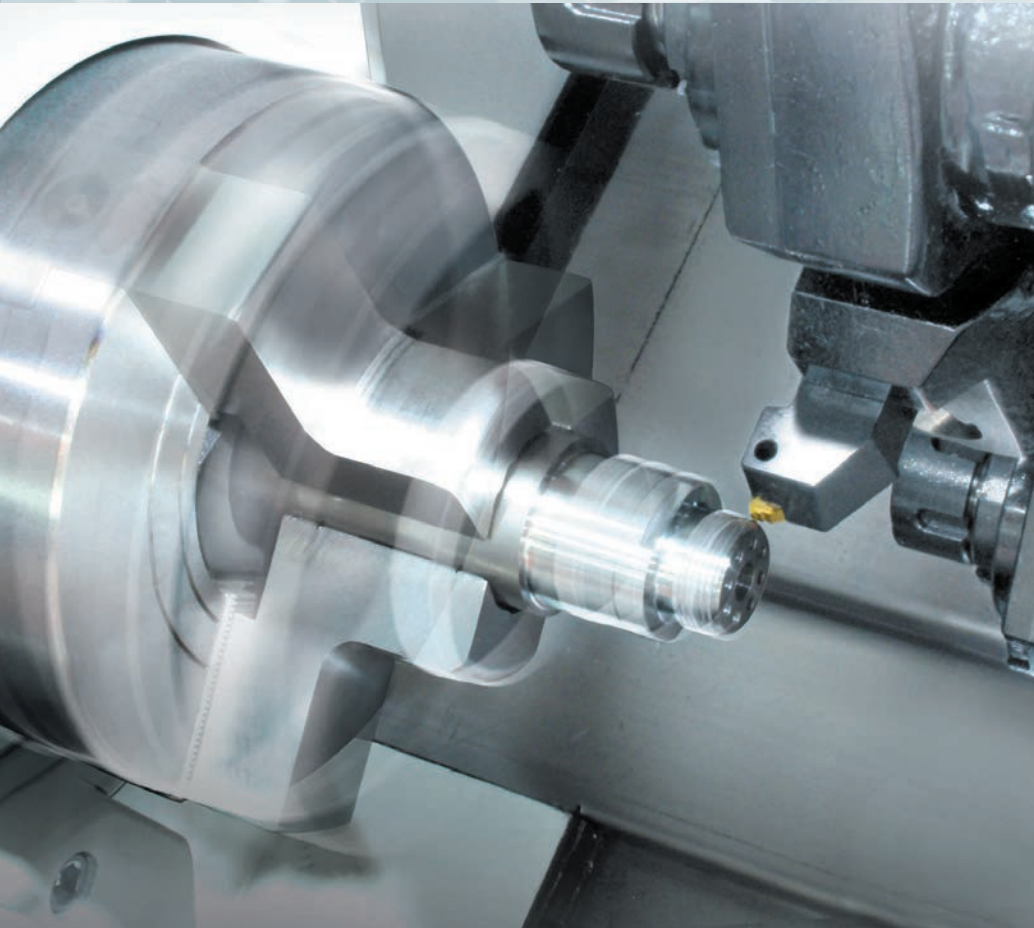
High-Versatility CNC Turning Centers

QUICK TURN SERIES

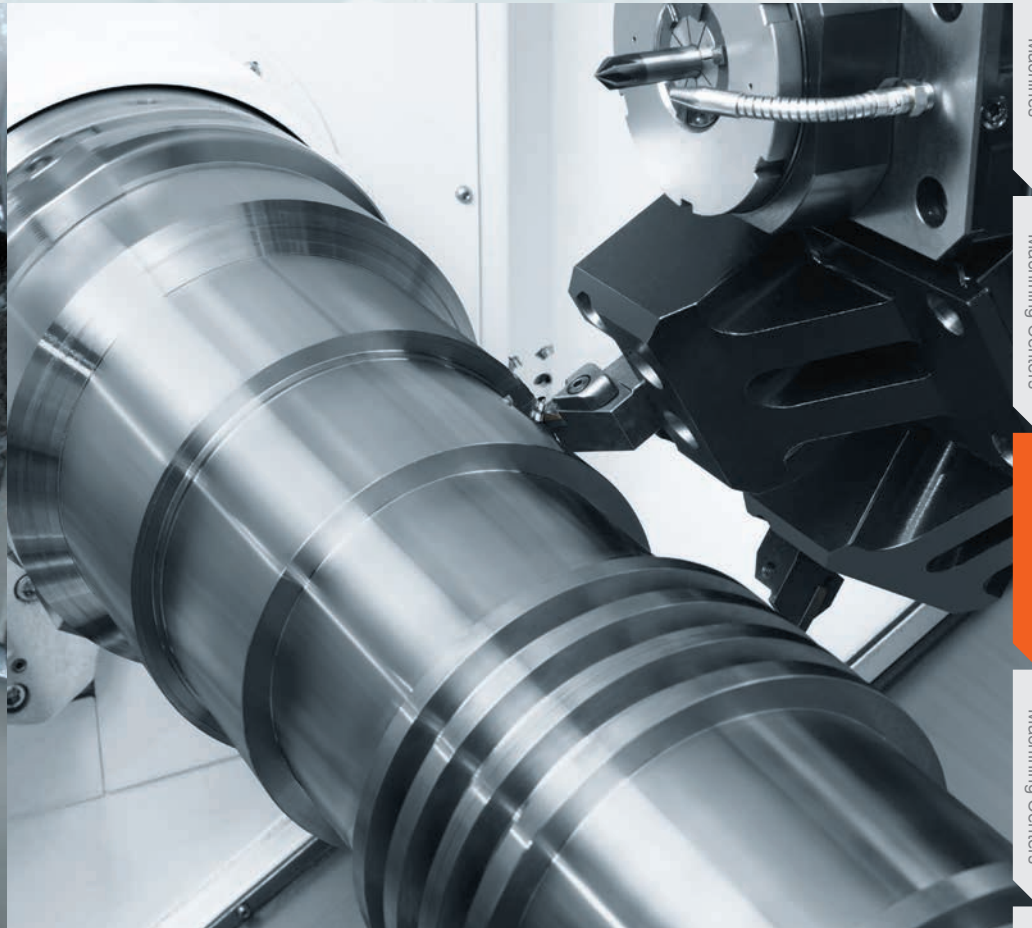
The QUICK TURN turning center series has been held in high regard by manufacturers worldwide since 1981. With their rigid construction, integral spindle motor and advanced MAZATROL CNC they provide exceptional machining stability, safe operation, and exceptional ease of operation. Available with specifications designed to meet your production requirements: turning, milling, Y-axis, second spindle and a wide range of factory automation equipment.



QUICK TURN 250MSY MAZATROL SmoothG



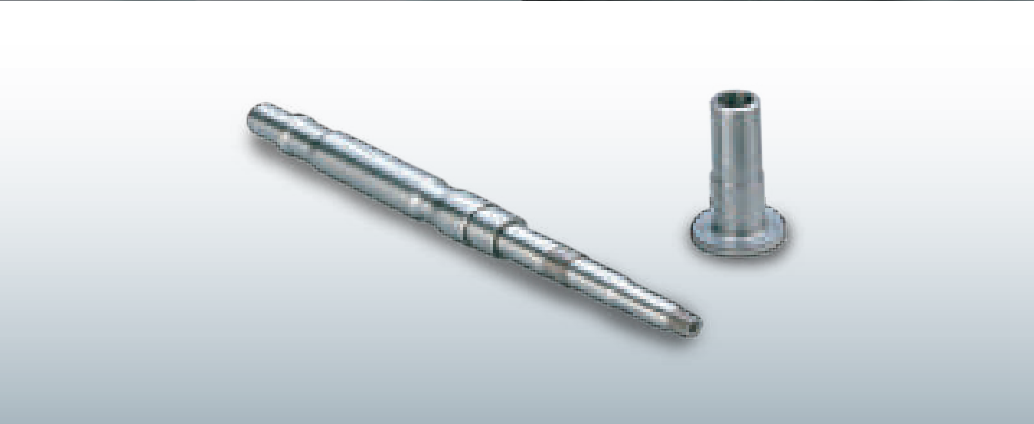
Multi-Tasking
Machines



5-axis
Machining Centers

CNC Turning Centers

Vertical
Machining Centers



Horizontal
Machining Centers



Laser Processing
Machines



QUICK TURN 100MS
MAZATROL SmoothG



QUICK TURN 200 L
MAZATROL SmoothG



QUICK TURN 250MSY
MAZATROL SmoothG

	100 SG	100M SG	100MY	100MS	100MSY	150 SG	150M SG
Universal	300U	400U	300U	300U	300U	300U · 500U	400U
Chuck size (main / second)	6" / -	6" / -	6" / -	6" / 5"	6" / 5"	8" / -	8" / -
Max. machining diameter (Bolt-on / VDI)	Φ280 mm	Φ280 mm	Φ280 mm	Φ280 mm	Φ280 mm	Φ330 mm / -	Φ280 mm / -
Max. machining length* ¹	310 mm	430 mm	340 mm	409 mm	409 mm	285 mm / 520 mm · 560 mm	405 mm
Travel (X / Y / Z)	200 mm / - / 340 mm	190 mm / - / 515 mm	187 mm / 100 mm / 440 mm	187 mm / - / 510 mm	187 mm / 100 mm / 510 mm	200 mm / - / 335 mm	190 mm / - / 490 mm
Spindle (40% ED)* ¹	6000 rpm, 15 kW (20 HP)	6000 rpm, 15 kW (20 HP)	6000 rpm, 15 kW (20 HP)	6000 rpm, 15 kW (20 HP)	6000 rpm, 15 kW (20 HP)	5000 rpm, 15 kW (20 HP)	5000 rpm, 15 kW (20 HP)
Second spindle* ¹	-	-	-	6000 rpm, 11 kW (15 HP)	6000 rpm, 11 kW (15 HP)	-	-
Rotary tool spindle	-	-	5000 rpm, 5.5 kW (7 HP)	-	5000 rpm, 5.5 kW (7 HP)	-	4500 rpm, 5.5 kW (7 HP)
Bar work capacity* ¹	Φ52 mm	Φ52 mm	Φ52 mm	Φ52 mm	Φ52 mm	Φ52 mm	Φ52 mm
Turret tool capacity	8 / *12 [Bolt on]	12 [Bolt on]	12 [Bolt on], *12 [VDI]	12 [Bolt on], *12 [VDI]	12 [Bolt on], *12 [VDI]	8 [Bolt on]	12 [Bolt on]

	200 L	200MA L	200MB	200MY	200MS	200MSY
Universal	500U · 1000U	500U · 1000U	500U · 1000U	500U · 1000U	500U	500U
Chuck size (main / second)	8" / -	8" / -	8" / -	8" / -	8" / 6"	8" / 6"
Max. machining diameter (Bolt-on / VDI)	Φ350 mm / -	Φ360 mm / -	Φ380 mm	Φ380 mm	Φ380 mm	Φ380 mm
Max. machining length* ¹	541 mm / 1063 mm	535 mm / 1055 mm	541 mm / 1047 mm	555 mm / 1020 mm	-	-
Travel (X / Y / Z)	195 mm / - / 560 mm · 1105 mm	225 mm / - / 605 mm · 1125 mm	234 mm / - / 625 mm · 1090 mm	234 mm / 100 (±50) mm / 625 mm · 1090 mm	234 mm / - / 625 mm	234 mm / 100 (±50) mm / 625 mm
Spindle (40% ED)* ¹	5000 rpm, 26 kW (35 HP)	5000 rpm, 26 kW (35 HP)	5000 rpm, 26 kW (35 HP)	5000 rpm, 26 kW (35 HP)	5000 rpm, 26 kW (35 HP)	5000 rpm, 26 kW (35 HP)
Second spindle* ¹	-	-	-	-	6000 rpm	6000 rpm
Rotary tool spindle	-	5000 rpm / *10000 rpm	5000 rpm / *10000 rpm [Bolt on]	5000 rpm / *10000 rpm [Bolt on]	5000 rpm / *10000 rpm [Bolt on]	5000 rpm / *10000 rpm [Bolt on]
Bar work capacity* ¹	Φ65 mm	Φ65 mm	Φ65 mm	Φ65 mm	Φ65 mm	Φ65 mm
Turret tool capacity	12 [Bolt on]	12 [Bolt on]	12 [VDI]	12 [VDI], *12 / *16 [Bolt on]	12 [VDI], *12 / *16 [Bolt on]	12 [VDI], *12 / *16 [Bolt on]

	250 L	250MA L	250MB	250MY	250MS	250MSY
Universal	500U · 1000U	500U · 1000U	500U · 1000U	500U · 1000U · 1500U	500U	500U
Chuck size (main / second)	10" / -	10" / -	10" / -	10" / -	10" / 6"	10" / 6"
Max. machining diameter (Bolt-on / VDI)	Φ380 mm / -	Φ360 mm / -	Φ380 mm	Φ380 mm	Φ380 mm	Φ380 mm
Max. machining length* ¹	510.5 mm / 1032.5 mm	504.5 mm / 1024.5 mm	512 mm / 1018 mm	555 mm / 991 mm / 1524 mm	-	-
Travel (X / Y / Z)	210 mm / - / 560 mm · 1105 mm	225 mm / - / 604 mm · 1125 mm	234 mm / - / 625 mm · 1090 mm	234 mm / 100 (±50) mm / 625 mm · 1090 mm · 1595 mm	234 mm / - / 625 mm	234 mm / 100 (±50) mm / 625 mm
Spindle (40% ED)* ¹	4000 rpm, 26 kW (35 HP)	4000 rpm, 26 kW (35 HP)	4000 rpm, 26 kW (35 HP)	4000 rpm, 26 kW (35 HP)	4000 rpm, 26 kW (35 HP)	4000 rpm, 26 kW (35 HP)
Second spindle* ¹	-	-	-	-	6000 rpm	6000 rpm
Rotary tool spindle	-	5000 rpm / *10000 rpm	5000 rpm / *10000 rpm [Bolt on]	5000 rpm / *10000 rpm [Bolt on]	5000 rpm / *10000 rpm [Bolt on]	5000 rpm / *10000 rpm [Bolt on]
Bar work capacity* ¹	Φ80 mm	Φ80 mm	Φ80 mm	Φ80 mm	Φ80 mm	Φ80 mm
Turret tool capacity	12 [Bolt on]	12 [Bolt on]	12 [VDI]	12 [VDI], *12 / *16 [Bolt on]	12 [VDI], *12 / *16 [Bolt on]	12 [VDI], *12 / *16 [Bolt on]

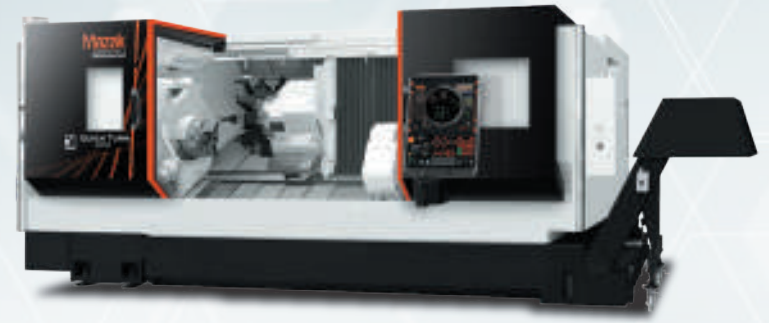
*Option *¹Depends on chuck specifications Note : Specifications vary by market



QUICK TURN 300MY (650U)
MAZATROL SmoothG



QUICK TURN 350MSY (650U)
MAZATROL SmoothG



QUICK TURN 400M
MAZATROL SmoothG

	300	300MA	300MB	300M	300MY	300MS
Universal	650U · 1250U · 1500U · 2000U	650U · 1250U · 1500U	650U · 1250U · 1500U	2000U	650U · 1250U · 1500U · 2000U	650U · 1250U
Chuck size (main / second)	10" / -	10" / -	10" / -	10" / -	10" / -	10" / 8" (*10" VDI turret only)
Max. machining diameter (Bolt-on / VDI)	Φ420 mm / -, Φ490 mm / - (2000U)	Φ420 mm / -	- / Φ420 mm	Φ430 mm / Φ420 mm	Φ430 mm / Φ420 mm	Φ430 mm / Φ420 mm
Max. machining length*1	662 mm / 1282 mm / 1597 mm	662 mm / 1282 mm / 1597 mm	652 mm / 1247 mm / 1587 mm	2108 mm	658 mm / 1253 mm / 1593 mm	-
Travel (X / Y / Z)	240 mm · 270 mm (2000U) / - / 710 mm · 1305 mm · 1645 mm · 2140 mm	265 mm / - / 730 mm · 1350 mm · 1665 mm	270 mm / - / 690 mm · 1285 mm · 1625 mm	270 mm / - / 2140 mm	270 mm / 150 (±75) mm / 690 mm · 1285 mm · 1625 mm · 2140 mm	270 mm / - / 690 mm · 1285 mm
Spindle (40% ED)*1	4000 rpm, 26 kW (35 HP)	4000 rpm, 26 kW (35 HP)	4000 rpm, 26 kW (35 HP)	4000 rpm, 26 kW (35 HP)	4000 rpm, 26 kW (35 HP)	4000 rpm, 26 kW (35 HP)
Second spindle*1	-	-	-	-	-	5000 rpm
Rotary tool spindle	-	5000 rpm	5000 rpm	5000 rpm	5000 rpm	5000 rpm
Bar work capacity*1	Φ80 mm	Φ80 mm	Φ80 mm	Φ80 mm	Φ80 mm	Φ80 mm
Turret tool capacity	12 [Bolt on]	12 [Bolt on]	12 [VDI]	12 / *16 [Bolt on], *12 [VDI]	12 / *16 [Bolt on], 12 [VDI]	12 / *16 [Bolt on], 12 [VDI]

	300MSY	350	350MA	350MB	350M	350MY
Universal	650U · 1250U	650U · 1250U · 1500U · 2000U	650U · 1250U · 1500U	650U · 1250U · 1500U	2000U	650U · 1250U · 1500U · 2000U
Chuck size (main / second)	10" / 8" (*10" VDI turret only)	12" / -	12" / -	12" / -	12" / -	12" / -
Max. machining diameter (Bolt-on / VDI)	Φ430 mm / Φ420 mm	Φ420 mm / -, Φ490 mm / - (2000U)	Φ420 mm / -	- / Φ420 mm	Φ430 mm / Φ420 mm	Φ430 mm / Φ420 mm
Max. machining length*1	-	614 mm / 1234 mm / 1549 mm	614 mm / 1234 mm / 1549 mm	604 mm / 1199 mm / 1539 mm	2060 mm	610 mm / 1205 mm / 1545 mm
Travel (X / Y / Z)	270 mm / 150 (±75) mm / 690 mm · 1285 mm	240 mm · 270 mm (2000U) / - / 710 mm · 1305 mm · 1645 mm · 2140 mm	265 mm / - / 730 mm · 1350 mm · 1665 mm	270 mm / - / 690 mm · 1285 mm · 1625 mm	270 mm / - / 2140 mm	270 mm / 150 (±75) mm / 690 mm · 1285 mm · 1625 mm · 2140 mm
Spindle (40% ED)*1	4000 rpm, 26 kW (35 HP)	3300 rpm, 30 kW (40 HP)	3300 rpm, 30 kW (40 HP)	3300 rpm, 30 kW (40 HP)	3300 rpm, 30 kW (40 HP)	3300 rpm, 30 kW (40 HP)
Second spindle*1	5000 rpm	-	-	-	-	-
Rotary tool spindle	5000 rpm	-	5000 rpm	5000 rpm	5000 rpm	5000 rpm
Bar work capacity*1	Φ80 mm	Φ102 mm	Φ102 mm	Φ102 mm	Φ102 mm	Φ102 mm
Turret tool capacity	12 / *16 [Bolt on], 12 [VDI]	12 [Bolt on]	12 [Bolt on]	12 [VDI]	12 / *16 [Bolt on], *12 [VDI]	12 / *16 [Bolt on], *12 [VDI]

	350MS	350MSY	400	400M	450	450M
Universal	650U · 1250U	650U · 1250U	2000U	2000U	2000U	2000U
Chuck size (main / second)	12" / 8" (*10" VDI turret only)	12" / 8" (*10" VDI turret only)	12" / -	12" / -	18", *21" / -	18", *21" / -
Max. machining diameter (Bolt-on / VDI)	Φ430 mm / Φ420 mm	Φ430 mm / Φ420 mm	Φ580 mm / -	Φ580 mm	Φ580 mm / -	Φ580 mm / -
Max. machining length*1	-	-	2074 mm	2075 mm	2040 mm	2046 mm
Travel (X / Y / Z)	270 mm / - / 690 mm · 1285 mm	270 mm / 150 (±75) mm / 690 mm · 1285 mm	320 mm / - / 2120 mm	350 mm / - / 2120 mm	320 / - / 2120 mm	350 mm / - / 2120 mm
Spindle (40% ED)*1	3300 rpm, 30 kW (40 HP)	3300 rpm, 30 kW (40 HP)	2500 rpm, 37 kW (49 HP)	2500 rpm, 37 kW (49 HP)	2000 rpm, 37 kW (49 HP)	2000 rpm, 37 kW (49 HP)
Second spindle*1	5000 rpm	5000 rpm	-	-	-	-
Rotary tool spindle	5000 rpm	5000 rpm	-	5000 rpm	-	5000 rpm
Bar work capacity*1	Φ102 mm	Φ102 mm	Φ103 mm	Φ103 mm	Φ165 mm	Φ165 mm
Turret tool capacity	12 / *16 [Bolt on], *12 [VDI]	12 / *16 [Bolt on], *12 [VDI]	12 [Bolt on]	12 / *16 [Bolt on], *12 [VDI]	12 [Bolt on]	12 / *16 [Bolt on], *12 [VDI]

*Option **Depends on chuck specifications Note : Specifications vary by market



CNC Turning Centers

QT-COMPACT SERIES

Designed to provide you high-performance and the maximum value. Integral spindle / motor for high productivity. Turret is equipped with rotary tool spindle.

Spindle C-axis can be indexed in 0.0001° increments.



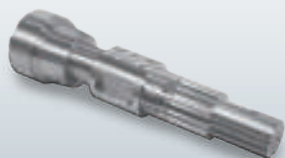
QT-COMPACT 300MY (500U)

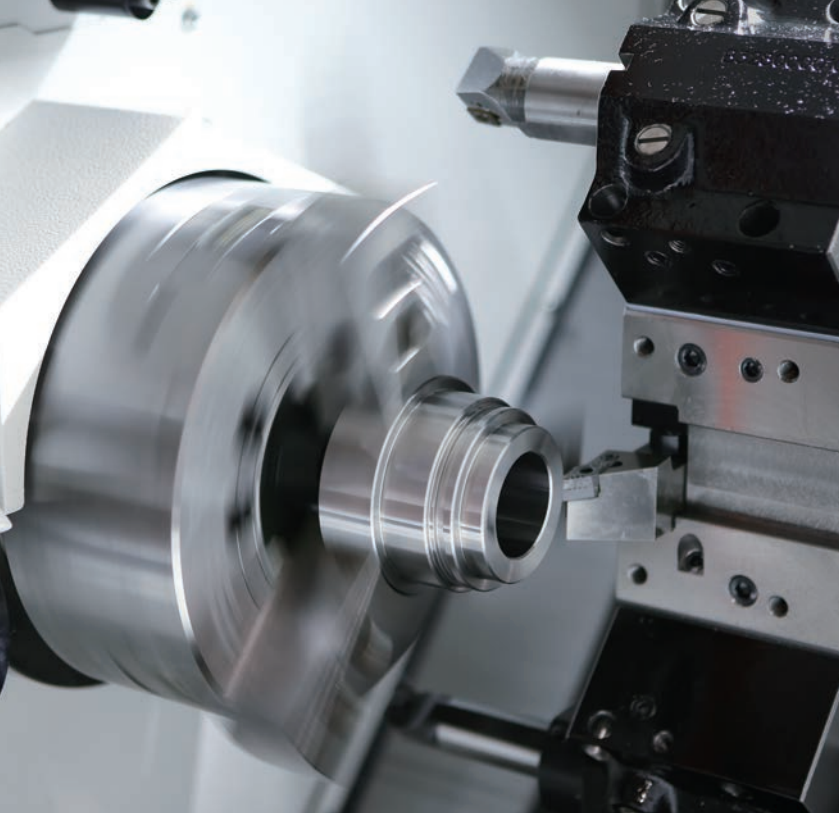
	100M	100MY	100MS	100MSY
Universal	500U	500U	500U	500U
Chuck size	6"	6"	6"	6"
Max. machining diameter	Φ340 mm	Φ340 mm	Φ340 mm	Φ340 mm
Max. machining length*1	554 mm	554 mm	-	-
Travel (X / Y / Z)	215 mm / - / 605 mm	215 mm / 100 (±50) mm / 605 mm	215 mm / - / 605 mm	215 mm / 100 (±50) mm / 605 mm
Main spindle (40% ED)*1	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 (cont. rating)*1	-	-	6000 rpm, 7.5 kW (10 HP)	6000 rpm, 7.5 kW (10 HP)
Rotary tool spindle (40% ED)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)
Bar work capacity*1	Φ51 mm	Φ52 mm	Φ52 mm	Φ52 mm
Turret tool capacity	12	12	12	12

	200M	200MY	200MS	200MSY
Universal	500U · 1000U	500U · 1000U	500U	500U
Chuck size	8"	8"	8"	8"
Max. machining diameter	Φ340 mm	Φ340 mm	Φ340 mm	Φ340 mm
Max. machining length*1	535 mm · 1085 mm	535 mm · 1085 mm	-	-
Travel (X / Y / Z)	215 mm / - / 605 mm · 1155 mm	215 mm / 100 (±50) mm / 605 mm	215 mm / - / 605 mm	215 mm / 100 (±50) mm / 605 mm
Main spindle (40% ED)*1	5000 rpm, 15 kW (20 HP)	5000 rpm, 15 kW (20 HP)	5000 rpm, 15 kW (20 HP)	5000 rpm, 15 kW (20 HP)
Second spindle (cont. rating)*1	-	-	6000 rpm, 7.5 kW (10 HP)	6000 rpm, 7.5 kW (10 HP)
Rotary tool spindle (40% ED)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)
Bar work capacity*1	Φ65 mm	Φ65 mm	Φ65 mm	Φ65 mm
Turret tool capacity	12	12	12	12

	300M	300MY	300MS	300MSY
Universal	500U · 1000U	500U · 1000U	500U	500U
Chuck size	10"	10"	10"	10"
Max. machining diameter	Φ340 mm	Φ340 mm	Φ340 mm	Φ340 mm
Max. machining length*1	496.5 mm · 1046.5 mm	496.5 mm · 1046.5 mm	-	-
Travel (X / Y / Z)	215 mm / - / 605 mm · 1155 mm	215 mm / 100 (±50) mm / 605 mm	215 mm / - / 605 mm	215 mm / 100 (±50) mm / 605 mm
Main spindle (40% ED)*1	4000 rpm, 15 kW (20 HP)	4000 rpm, 15 kW (20 HP)	4000 rpm, 15 kW (20 HP)	4000 rpm, 15 kW (20 HP)
Second spindle (cont. rating)*1	-	-	6000 rpm, 7.5 kW (10 HP)	6000 rpm, 7.5 kW (10 HP)
Rotary tool spindle (40% ED)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)
Bar work capacity*1	Φ80 mm	Φ80 mm	Φ80 mm	Φ80 mm
Turret tool capacity	12	12	12	12

*Option *1Depends on chuck specifications Note : Specifications vary by market





CNC Turning Centers for Large Volume Production

QT-PRIMOS SERIES

Compact turning center with minimum floor space requirements and high-speed and high-accuracy integral spindle / motor. Quick loader and gantry loader are available to perform large volume production of small to mid size components. Available with MAZATROL SmoothC or Mazak FZ CNC system.

QT-PRIMOS 150 SG
MAZATROL SmoothC



	50 SG	100 SG	150 SG
Chuck size	5"	6"	8"
Max. machining diameter	Φ180 mm	Φ180 mm	Φ250 mm
Travel (X / Z)	110 mm / 240 mm	110 mm / 240 mm	140 mm / 305 mm
Spindle (40% ED)*1	5000 rpm, 7.5 kW (10 HP)	5000 rpm, 9 kW (12 HP)	4000 rpm, 11 kW (15 HP)
Bar Work capacity*1	Φ32 mm	Φ36 mm	Φ51 mm
Turret tool capacity	8	8	8

*1Depends on chuck specifications

Compact, Gang-Tooling CNC Turning Center

QTG-50 SG

Compact turning center with minimum floor space requirements and high-speed and high-accuracy integral spindle / motor. Gantry loader is available to perform large volume production of small to mid size components.

QTG-50 SG



	QTG-50 SG
Chuck size	5"
Max. machining diameter	Φ95 mm
Travel (X / Z)	300 mm / 240 mm
Bar Work capacity*1	Φ32 mm
Spindle (30 min. rating)*1	7000 rpm, 5.5 kW (7.5 HP)

*1Depends on chuck specifications



High-Efficiency 2 Turret 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	200MS	200MS	200MY
Universal	-	-	850U	1300U	700U
Max. machining diameter	Φ300 mm	Φ300 mm	Φ344 mm	Φ344 mm	Φ344 mm
Travel (X1 / Y1 / Z1)	175 mm / 100 (±50) mm / 520 mm	175 mm / 100 (±50) mm / 520 mm	207 mm / - / 760 mm	207 mm / - / 1225 mm	207 mm / 100 (±50) mm / 760 mm
(X2 / Y2 / Z2)	111 mm / 70 (+20 ~ -50) mm / 580 mm	111 mm / 70 (+20 ~ -50) mm / 580 mm	141 mm / - / 815 mm	141 mm / - / 1280 mm	141 mm / 100 (±50) mm / 815 mm
Main spindle (30 min. rating)*1	6000 rpm, 11 kW (15 HP)	5000 rpm, 15 kW (20 HP)	5000 rpm, 22 kW (30 HP)	5000 rpm, 22 kW (30 HP)	5000 rpm, 22 kW (30 HP)
Second spindle (30 min. rating)*1	6000 rpm, 11 kW (15 HP)	6000 rpm, 11 kW (15 HP)	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)	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*1	Φ51 mm	Φ65 mm	Φ65 mm	Φ65 mm	Φ65 mm
Turret tool capacity (upper / lower)	12 / 12	12 / 12	12 / 12	12 / 12	12 / 12

	200MSY	200MSY	250MS	250MS	250MY	250MSY	250MSY
Universal	850U	1300U	850U	1300U	700U	850U	1300U
Max. machining diameter	Φ344 mm	Φ344 mm	Φ344 mm	Φ344 mm	Φ344 mm	Φ344 mm	Φ344 mm
Travel (X1 / Y1 / Z1)	207 mm / 100 (±50) mm / 760 mm	207 mm / 100 (±50) mm / 1225 mm	207 mm / - / 760 mm	207 mm / - / 1225 mm	207 mm / 100 (±50) mm / 760 mm	207 mm / 100 (±50) mm / 760 mm	207 mm / 100 (±50) mm / 1225 mm
(X2 / Y2 / Z2)	141 mm / 100 (±50) mm / 815 mm	141 mm / 100 (±50) mm / 1280 mm	141 mm / - / 815 mm	141 mm / - / 1280 mm	141 mm / 100 (±50) mm / 815 mm	141 mm / 100 (±50) mm / 815 mm	141 mm / 100 (±50) mm / 1280 mm
Main spindle (30 min. rating)*1	5000 rpm, 22 kW (30 HP)	5000 rpm, 22 kW (30 HP)	4000 rpm, 26 kW (35 HP)	4000 rpm, 26 kW (35 HP)	4000 rpm, 26 kW (35 HP)	4000 rpm, 26 kW (35 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)	5000 rpm, 22 kW (30 HP)	5000 rpm, 22 kW (30 HP)	-	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)	6000 rpm, 5.5 kW (7.5 HP)	6000 rpm, 5.5 kW (7.5 HP)	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*1	Φ65 mm	Φ65 mm	Φ80 mm	Φ80 mm	Φ80 mm	Φ80 mm	Φ80 mm
Turret tool capacity (upper / lower)	12 / 12	12 / 12	12 / 12	12 / 12	12 / 12	12 / 12	12 / 12

*1Depends on chuck specifications



1 Spindle, 2 Turret CNC Turning Centers

SQR SERIES

Double turret CNC turning centers for high-efficiency machining of shaft workpieces by simultaneous machining by both upper and lower turrets. Milling capability is optionally available for increased versatility.

SQR-200M



	200	250	200M	250M
Universal	600U · 1000U	600U · 1000U	600U · 1000U	600U · 1000U
Chuck size	8"	10"	8"	10"
Max. machining diameter	Φ350 mm	Φ350 mm	Φ300 mm	Φ300 mm
Travel (X1 / Z1)	190 mm / 645 mm · 1075 mm	190 mm / 645 mm · 1075 mm	190 mm / 645 mm · 1085 mm	190 mm / 645 mm · 1085 mm
(X2 / Z2)	150 mm / 630 mm · 925 mm	150 mm / 630 mm · 925 mm	150 mm / 630 mm · 925 mm	150 mm / 630 mm · 925 mm
Spindle (40% ED)*1	5000 rpm, 22 kW (30 HP)	4000 rpm, 22 kW (30 HP)	5000 rpm, 22 kW (30 HP)	4000 rpm, 22 kW (30 HP)
Rotary tool spindle (10 min. rating)	-	-	4500 rpm, 3.7 kW (5 HP)	4500 rpm, 3.7 kW (5 HP)
Bar work capacity*1	Φ52 mm	Φ64 mm	Φ52 mm	Φ64 mm
Turret tool capacity (upper / lower)	12 / 8	12 / 8	12 / 8	12 / 8

*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)



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

W-200	
Chuck size (left / right)	8" / 8"
Max. swing	Φ320 mm
Max. machining length	180 mm
Travel (X1 / Y1 / Z1)	275 mm / - / 490 mm
(X2 / Y2 / Z2)	275 mm / - / 525 mm
Spindle*1 (40% ED)	5000 rpm, 22 kW (30 HP)
Rotary tool spindle (40% ED)	5000 rpm, 5.5 kW (7.5 HP)
Bar work capacity*1	Φ65 mm
Turret tool capacity	12 × 2

W-200Y	
Chuck size (left / right)	8" / 8"
Max. swing	Φ320 mm
Max. machining length	180 mm
Travel (X1 / Y1 / Z1)	275 mm / 100 (±50) mm / 490 mm
(X2 / Y2 / Z2)	275 mm / 100 (±50) mm / 525 mm
Spindle*1 (40% ED)	5000 rpm, 22 kW (30 HP)
Rotary tool spindle (40% ED)	5000 rpm, 5.5 kW (7.5 HP)
Bar work capacity*1	Φ65 mm
Turret tool capacity	12 × 2

W-300	
Chuck size (left / right)	10" / 10"
Max. swing	Φ430 mm
Max. machining length	225 mm
Travel (X1 / Y1 / Z1)	310 mm / - / 615 mm
(X2 / Y2 / Z2)	310 mm / - / 615 mm
Spindle*1 (40% ED)	4000 rpm, 26 kW (35 HP)
Rotary tool spindle (40% ED)	5000 rpm, 7.5 kW (10 HP)
Bar work capacity*1	Φ80 mm
Turret tool capacity	12 × 2

W-300Y	
Chuck size (left / right)	10" / 10"
Max. swing	Φ430 mm
Max. machining length	225 mm
Travel (X1 / Y1 / Z1)	310 mm / 154 (±77) mm / 615 mm
(X2 / Y2 / Z2)	310 mm / 154 (±77) mm / 615 mm
Spindle*1 (40% ED)	4000 rpm, 26 kW (35 HP)
Rotary tool spindle (40% ED)	5000 rpm, 7.5 kW (10 HP)
Bar work capacity*1	Φ80 mm
Turret tool capacity	12 × 2

*1Depends on chuck specifications

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

*1Depends on chuck specifications

Powerful, Heavy-Duty CNC Turning Centers

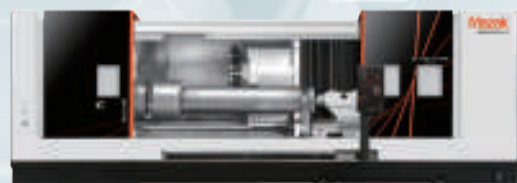
SLANT TURN SERIES

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.

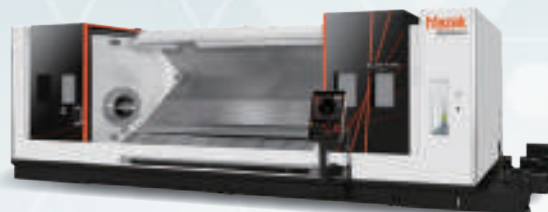


SLANT TURN 550M
MAZATROL SmoothG





SLANT TURN 500M
MAZATROL SmoothC



SLANT TURN 600
MAZATROL SmoothG



SLANT TURN 800
MAZATROL SmoothG

	500	500M	550	550M
Universal	C · 1000U · 2000U · 3000U · 4000U	C · 1000U · 2000U · 3000U · 4000U	C · 1000U · 2000U · 3000U · 4000U	C · 1000U · 2000U · 3000U · 4000U
Chuck size	18" ~	18" ~	21" ~	21" ~
Max. swing / Max. machining diameter	Φ1040 / Φ910 mm	Φ1040 mm / Φ910 mm	Φ1040 mm / Φ910 mm	Φ1040 mm / Φ910 mm
Max. machining length*1	1047 mm · 1047 mm · 2040 mm · 3175 mm · 4064 mm	1082 mm · 2075 mm · 3210 mm · 4099 mm	1016 mm · 2009 mm · 3144 mm · 4033 mm	1051 mm · 2044 mm · 3179 mm · 4068 mm
Spindle (30 min. rating)*1	1600 rpm, 45 kW (60 HP)	1600 rpm, 45 kW (60 HP)	1000 rpm, 45 kW (60 HP)	1000 rpm, 45 kW (60 HP)
Spindle bore	Φ185 mm	Φ185 mm	Φ275 mm	Φ275 mm
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	12

	600	600M	800
Universal	2000U · 3000U · 4000U	2000U · 3000U · 4000U	2000U · 3000U · 4000U · 6000U
Chuck size	21"~	21"~	18" ~
Max. swing / Max. machining diameter	Φ1040 mm / Φ910 mm	Φ1040 mm / Φ910 mm	Φ1070 mm · Φ1070 mm · Φ1070 mm · Φ1040 mm / Φ860 mm
Max. machining length*1	2009 mm · 3144 mm · 4033 mm	2044 mm · 3179 mm · 4068 mm	*2044 mm · *3064 mm · *4084 mm · *6124 mm
Spindle (30 min. rating)*1	500 rpm, 45 kW (60 HP)	500 rpm, 45 kW (60 HP)	1000 rpm, 60 kW (80 HP)
Spindle bore	Φ375 mm	Φ375 mm	Φ180 mm
Rotary tool spindle (4 min. rating)	-	4000 rpm, 7.5 kW (10 HP)	-
Turret tool capacity	12	12	15 (Outside / Inside 10 + Inside 5)

*Option *1Depends on chuck specifications



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.



MEGA TURN 900
MAZATROL SmoothG



MEGA TURN 400
MAZATROL SmoothC



MEGA TURN 600
MAZATROL SmoothC



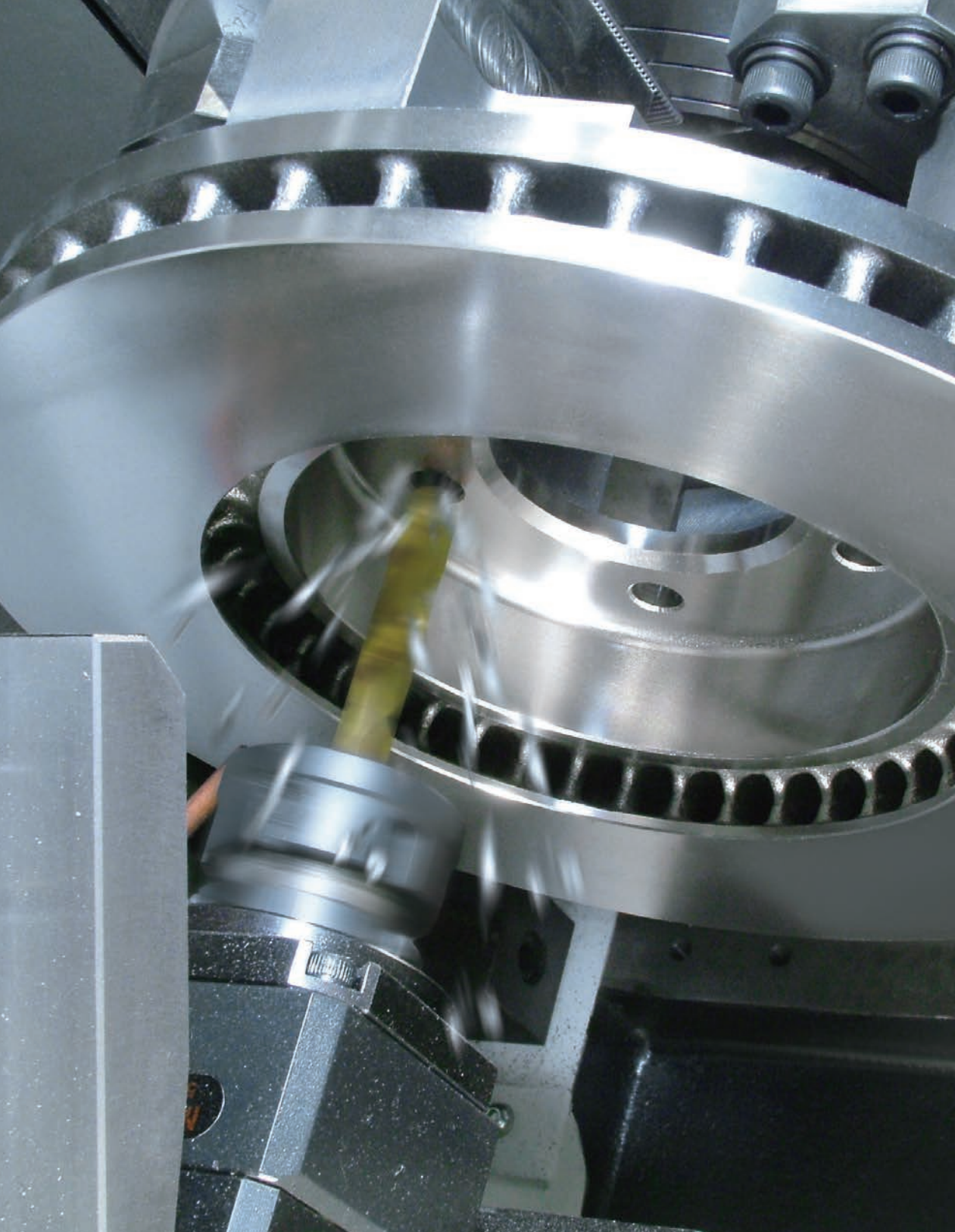
MEGA TURN 1600
MAZATROL SmoothG

	400	500, 500S (Mirror image version)	500M, 500MS (Mirror image version)	600, 600S (Mirror image version)	600M, 600MS (Mirror image version)
Chuck size*	10", 12", 15"	12", 15", 18"	12", 15", 18"	18", 21", 24"	18", 21", 24"
Max. machining diameter	Φ400 mm	Φ500 mm	Φ500 mm	Φ630 mm	Φ600 mm
Max. machining height*1	440 mm	462 mm	462 mm	550 mm	550 mm
Travel (X / Z)	265 mm / 480 mm	345 mm / 520 mm	345 mm / 520 mm	345 mm / 520 mm	345 mm / 520 mm
Spindle (40% ED)*1	4000 rpm, 26 kW (35 HP)	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	12

	900, 900S (Mirror image version)	900M, 900MS (Mirror image version)
Chuck size*	15" ~ 36"	15" ~ 36"
Max. machining diameter	Φ920 mm	Φ920 mm
Max. machining height*1	800 mm	800 mm
Travel (X / Y)	470 mm / 876 mm	470 mm / 876 mm
Spindle (30 min. rating)*1	1250 rpm, 30 kW (40 HP)	1250 rpm, 30 kW (40 HP)
Rotary tool spindle (4 min. rating)	-	4000 rpm, 7.5 kW (10 HP)
Turret tool capacity	12	12

	1600	1600M
Chuck size	Φ1250 mm (faceplate)	Φ1250 mm (faceplate)
Max. machining diameter	Φ1650 mm	Φ1650 mm
Max. machining length*1	900 mm	900 mm
Travel (X / Z)	1140 mm / 905 mm	1140 mm / 905 mm
Spindle (40% ED)*1	350 rpm, 45 kW (60 HP)	350 rpm, 45 kW (60 HP)
Rotary tool spindle (40% ED)	-	3000 rpm, 11 kW (15 HP)
Turret tool capacity	12	12

*Option **Depends on chuck specifications



Inverted Vertical Spindle Turning Centers
for Small to Mid-size Workpieces

IVS SERIES

High productivity for high-volume production of workpieces such as automotive brake discs with smooth removal of machined chips. Traveling spindle eliminates requirement of gantry loader for automated operation.



IVS-300M

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. Maximum turning diameter of $\Phi 1000$ mm of the POWER MASTER CHUCKER is the largest for its turning center class.



TURNING CENTER M-5

	200	200M
Chuck size	8"	8"
Max. swing	$\Phi 280$ mm	$\Phi 280$ mm
Max. machining diameter*1	$\Phi 180$ mm	$\Phi 180$ mm
Max. machining length*1	100 mm	100 mm
Travel (X + stroke to conveyor)	320 mm + 560 mm	320 mm + 560 mm
(Z)	280 mm	280 mm
Rapid traverse rate (X / Z)	110 m/min / 60 m/min	110 m/min / 60 m/min
Spindle (30 min. rating)	7000 rpm, 26 kW (35 HP)	7000 rpm, 26 kW (35 HP)
Rotary tool spindle (10 min. rating)	-	4500 rpm, 5.5 kW (7.5 HP)
Turret tool capacity	12	12

	300	300M
Chuck size	10", 12"	10", 12"
Max. swing	$\Phi 350$ mm	$\Phi 350$ mm
Max. machining diameter*1	$\Phi 350$ mm	$\Phi 350$ mm
Max. machining length*1	180 mm	180 mm
Travel (X + stroke to conveyor)	235 mm + 645 mm	235 mm + 645 mm
(Z)	280 mm	280 mm
Rapid traverse rate (X / Z)	60 m/min / 45 m/min	60 m/min / 45 m/min
Spindle (30 min. rating)	4000 rpm, 26 kW (35 HP)	4000 rpm, 26 kW (35 HP)
Rotary tool spindle (10 min. rating)	-	4500 rpm, 5.5 kW (7.5 HP)
Turret tool capacity	12	12

	400
Chuck size	12", 15", 18"
Max. swing	$\Phi 500$ mm
Max. machining diameter*1	$\Phi 450$ mm
Max. machining length*1	300 mm
Travel (X + stroke to conveyor)	425 mm + 725 mm
(Z)	550 mm
Rapid traverse rate (X / Z)	60 m/min / 36 m/min
Spindle (30 min. rating)	3300 rpm, 30 kW (40 HP)
Rotary tool spindle (10 min. rating)	-
Turret tool capacity	12

*1 Maximum machining diameter and maximum machining length vary according to the workpiece conveyor specifications

	TURNING CENTER M-5	POWER MASTER Chucker
Universal	2000U · 3000U	-
Swing over bed	$\Phi 610$ mm	$\Phi 870$ mm
Max. machining diameter	$\Phi 580$ mm	$\Phi 1000$ mm
Travel (X / Z)	560 mm / 2055 mm · 3075 mm	635 mm / 1170 mm
Spindle (30 min. rating)	2200 rpm, 22 kW (30 HP)	1200 rpm, 45 kW (60 HP), *750 rpm, *500 rpm
Spindle bore	$\Phi 104$ mm	$\Phi 118$ mm
Turret type	Octagonal disc turret + Hexagonal boring turret	Octagonal disc turret

	POWER MASTER Universal
Universal	3000U · 4000U
Swing over bed	$\Phi 870$ mm
Max. machining diameter	$\Phi 840$ mm
Travel (X / Z)	670 mm / 3075 mm · 4095 mm
Spindle (30 min. rating)	1200 rpm, 45 kW (60 HP), *750 rpm, *500 rpm
Spindle bore	$\Phi 118$ mm
Turret type	Octagonal disc turret + Hexagonal boring turret

*Option

5-axis Machining Centers + Vertical Machining Centers

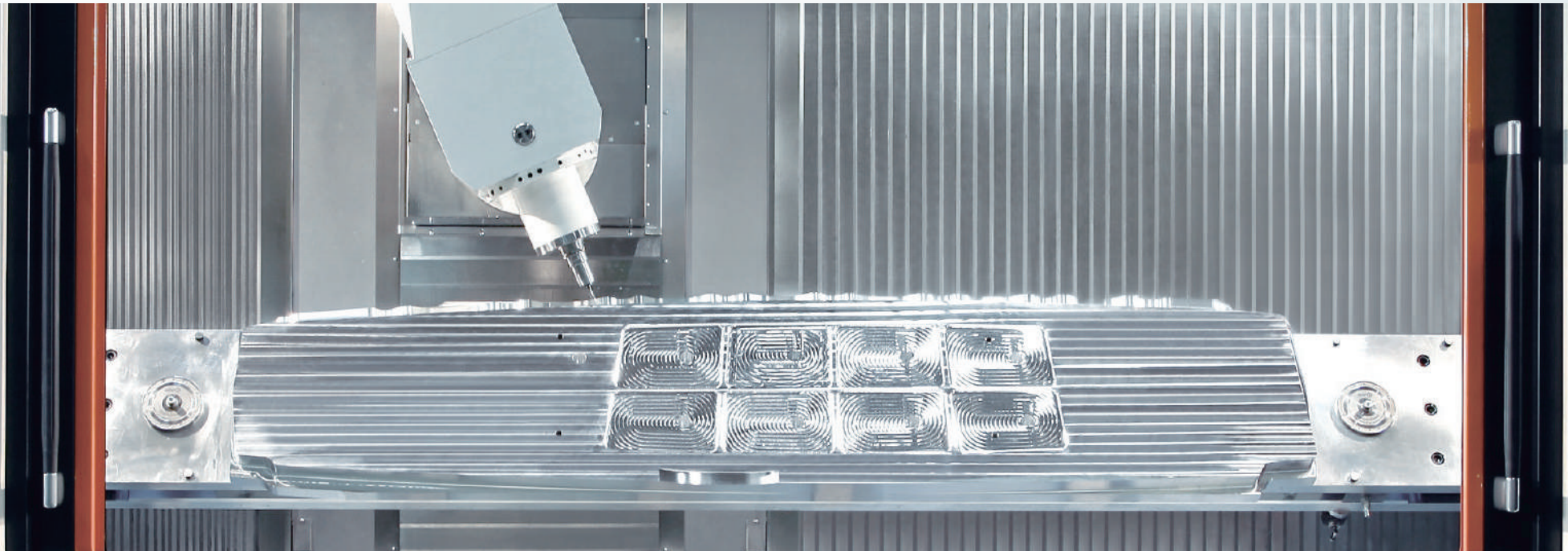
Travelling Column Vertical Machining Centers

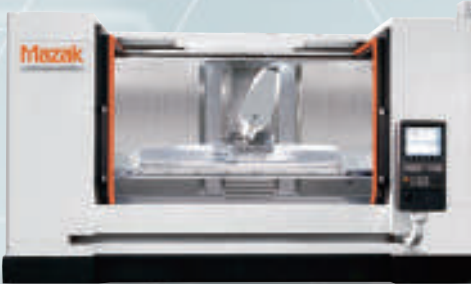
VTC-SR, SDR, SLR SERIES

Exceptional versatility provided by the long, stationary table. The traveling column design of the VTC series, with its small floor space requirement, is extremely suitable for large, long workpieces. By mounting a center partition on the table of some models, the two machining areas make it possible to perform operation comparable to a machine equipped with a 2-pallet changer.

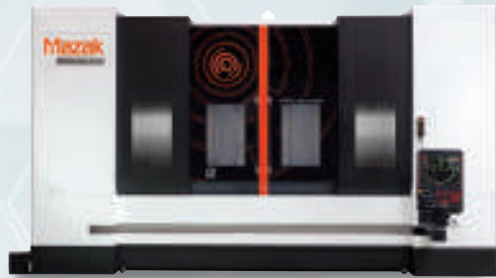


VTC-820/20 MAZATROL SmoothG





VTC-800/30SDR SIEMENS SINUMERIK 840D sl



VTC-800/30SR MAZATROL SmoothX



VTC-760C MAZATROL SmoothG

	800/20SR		800/30SR		800/20SDR		800/30SDR		800/30SLR	
CNC	MAZATROL SmoothX	SIEMENS SINUMERIK 840D sl	MAZATROL SmoothX	SIEMENS SINUMERIK 840D sl	MAZATROL SmoothX	SIEMENS SINUMERIK 840D sl	MAZATROL SmoothX	SIEMENS SINUMERIK 840D sl	MAZATROL SmoothX	SIEMENS SINUMERIK 840D sl
Table size	2500 mm × 820 mm	2500 mm × 820 mm	3500 mm × 820 mm	3500 mm × 820 mm	-	-	-	-	3500 mm × 820 mm	3500 mm × 820 mm
NCRT Diameter	-	-	-	-	Φ500 mm (Dual NCRT)	Φ500 mm (Dual NCRT)	Φ500 mm (Dual NCRT)	Φ500 mm (Dual NCRT)	Φ1000 mm	Φ1000 mm
Travel (X / Y / Z / B / C)*1	2000 mm / 800 mm / 720 mm / ±110° / 360°	2000 mm / 800 mm / 720 mm / ±110° / 360°	3000 mm / 800 mm / 720 mm / ±110° / 360°	3000 mm / 800 mm / 720 mm / ±110° / 360°	2000 mm / 800 mm / 720 mm	2000 mm / 800 mm / 720 mm	3000 mm / 800 mm / 720 mm	3000 mm / 800 mm / 720 mm	3000 mm / 820 mm / 720 mm / ±110° / 360°	3000 mm / 820 mm / 720 mm / ±110° / 360°
Rapid traverse rate (X / Y / Z)	50 m/min / 50 m/min / 50 m/min	50 m/min / 50 m/min / 50 m/min	50 m/min / 50 m/min / 50 m/min	50 m/min / 50 m/min / 50 m/min	50 m/min / 50 m/min / 50 m/min	50 m/min / 50 m/min / 50 m/min	50 m/min / 50 m/min / 50 m/min	50 m/min / 50 m/min / 50 m/min	50 m/min / 50 m/min / 50 m/min	50 m/min / 50 m/min / 50 m/min
Spindle	18000 rpm, 35 kW (47 HP) (50% ED)	18000 rpm, 33 kW (44 HP) (S1)	18000 rpm, 35 kW (47 HP) (50% ED)	18000 rpm, 33 kW (44 HP) (S1)	18000 rpm, 35 kW (47 HP) (50% ED)	18000 rpm, 33 kW (44 HP) (S1)	18000 rpm, 35 kW (47 HP) (50% ED)	18000 rpm, 33 kW (44 HP) (S1)	18000 rpm, 35 kW (47 HP) (50% ED)	18000 rpm, 33 kW (44 HP) (S1)
Tool shank type	MAS BT-40, CAT-40, HSK A-63	MAS BT-40, CAT-40, HSK A-63	MAS BT-40, CAT-40, HSK A-63	MAS BT-40, CAT-40, HSK A-63	MAS BT-40, CAT-40, HSK A-63	MAS BT-40, CAT-40, HSK A-63	MAS BT-40, CAT-40, HSK A-63	MAS BT-40, CAT-40, HSK A-63	MAS BT-50, CAT-40, HSK A-63	MAS BT-50, CAT-40, HSK A-63
Tool storage capacity	30, *48, *84, *125	30, *48, *84, *125	30, *48, *84, *155	30, *48, *84, *125, *155	30, *48, *84, *125	30, *48, *84, *125	30, *48, *84, *155	30, *48, *84, *155	30, *48, *84, *155	30, *48, *84, *155

*Option *1C-axis / rotary table optional

	530C		760C		820/20		820/30		800/20HD		800/30HD	
CNC	MAZATROL SmoothG	SIEMENS 828D	MAZATROL SmoothG	SIEMENS 828D	MAZATROL SmoothG	MAZATROL SmoothG	MAZATROL SmoothG	MAZATROL SmoothG	MAZATROL SmoothG	MAZATROL SmoothG	MAZATROL SmoothG	MAZATROL SmoothG
Table Size	2300 mm × 530 mm	2300 mm × 530 mm	2300 mm × 760 mm	2300 mm × 760 mm	2500 mm × 820 mm	3500 mm × 820 mm	2500 mm × 820 mm	3500 mm × 820 mm	2500 mm × 820 mm	3500 mm × 820 mm	2500 mm × 820 mm	3500 mm × 820 mm
Travel (X / Y / Z)	1740 mm / 530 mm / 510 mm	1740 mm / 530 mm / 510 mm	1740 mm / 760 mm / 660 mm	1740 mm / 760 mm / 660 mm	2000 mm / 820 mm / 720 mm	3000 mm / 820 mm / 720 mm	2000 mm / 800 mm / 720 mm	3000 mm / 820 mm / 720 mm	2000 mm / 800 mm / 720 mm	3000 mm / 800 mm / 720 mm	2000 mm / 800 mm / 720 mm	3000 mm / 800 mm / 720 mm
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min	42 m/min / 42 m/min / 42 m/min	42 m/min / 42 m/min / 42 m/min	42 m/min / 42 m/min / 42 m/min	50 m/min / 50 m/min / 50 m/min	50 m/min / 50 m/min / 50 m/min	50 m/min / 50 m/min / 50 m/min	50 m/min / 50 m/min / 50 m/min	50 m/min / 50 m/min / 50 m/min	50 m/min / 50 m/min / 50 m/min	50 m/min / 50 m/min / 50 m/min	50 m/min / 50 m/min / 50 m/min
Spindle	12000 rpm, 18.5 kW (25 HP) (5 min. rating)	12000 rpm, 12.6 kW (S6-40%)	12000 rpm, 18.5 kW (25 HP) (5 min. rating)	12000 rpm, 12.6 kW(S6-40%)	12000 rpm, 18.5 kW (25% ED), *18000 rpm, 35 kW (50% ED)	12000 rpm, 18.5 kW (25% ED), *18000 rpm, 35 kW (50% ED)	10000 rpm, 30 kW (40% ED)	10000 rpm, 30 kW (40% ED)	10000 rpm, 30 kW (40% ED)	10000 rpm, 30 kW (40% ED)	10000 rpm, 30 kW (40% ED)	10000 rpm, 30 kW (40% ED)
Tool shank	CAT-40	CAT-40	CAT-40	CAT-40	CAT-40, *HSK A-63	CAT-40, *HSK A-63	CAT-50	CAT-40, *HSK A-63	CAT-50	CAT-40, *HSK A-63	CAT-50	CAT-50
Tool storage capacity	30	30	30, *48	30, *48	30, *48, *84, *155	30, *48, *84, *155	36	30, *48, *84, *155	36	30, *48, *84, *155	36	36

*Option

Vertical Machining Centers

High-Efficiency Vertical Machining Centers

VCN SERIES

High-performance over a wide range of applications, from heavy-duty machining to high-speed milling. Designed to provide you with maximum value and reliability, plus excellent table access with wide opening front doors. Highest productivity for this class of vertical machining center. Reduced cycle times thanks to high-speed feed rate, acceleration / deceleration and tool change.



VCN-535C
MAZATROL SmoothG





VCN-430A
MAZATROL SmoothG



VCN-535C
MAZATROL SmoothG



VCN-700D
MAZATROL SmoothG

	430A	430A HS	530C	530C HS	535C	700D
Table size	900 mm × 430 mm	900 mm × 430 mm	1300 mm × 550 mm	1300 mm × 550 mm	1300 mm × 550 mm	1740 mm × 700 mm
Travel (X / Y / Z)	560 mm / 430 mm / 510 mm	560 mm / 430 mm / 510 mm	1050 mm / 530 mm / 510 mm	1050 mm / 530 mm / 510 mm	1050 mm / 530 mm / 560 mm	1530 mm / 700 mm / 650 mm
Rapid traverse rate (X / Y / Z)	42 m/min / 42 m/min / 42 m/min	52 m/min / 52 m/min / 52 m/min	42 m/min / 42 m/min / 42 m/min	52 m/min / 52 m/min / 52 m/min	42 m/min / 42 m/min / 42 m/min	30 m/min / 30 m/min / 30 m/min
Spindle	12000 rpm, 18.5 kW (25 HP) (5 min. rating)	18000 rpm, 30 kW (40 HP) (50% ED)	12000 rpm, 18.5 kW (25 HP) (5 min. rating)	18000 rpm, 30 kW (40 HP) (50% ED)	8000 rpm, 30 kW (40 HP) (30 min. rating)	8000 rpm, 30 kW (40 HP) (30 min. rating)
Tool shank	CAT-40	CAT-40	CAT-40	CAT-40	CAT-50	CAT-50
Tool storage capacity	30, *40	30, *40	30, *40	30, *40	24, *48	24, *48, *60

*Option

High-Accuracy Double Column Machining Centers

FJV SERIES

High-accuracy, high-efficiency machining of large workpieces thanks to high-rigidity, double column construction and the high-performance spindle. Wide range of sizes available to meet a large variety of machining requirements.

Multi-surface attachment is optionally available for FJV-35, FJV-60 and FJV-100.

FJV-35/60



Multi-Tasking
Machines

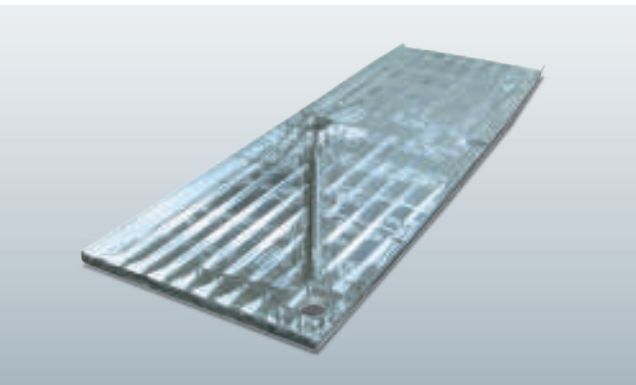
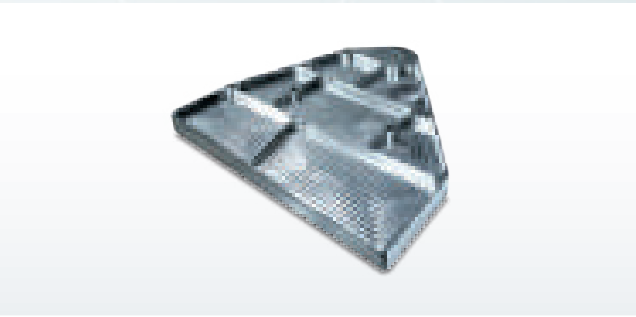
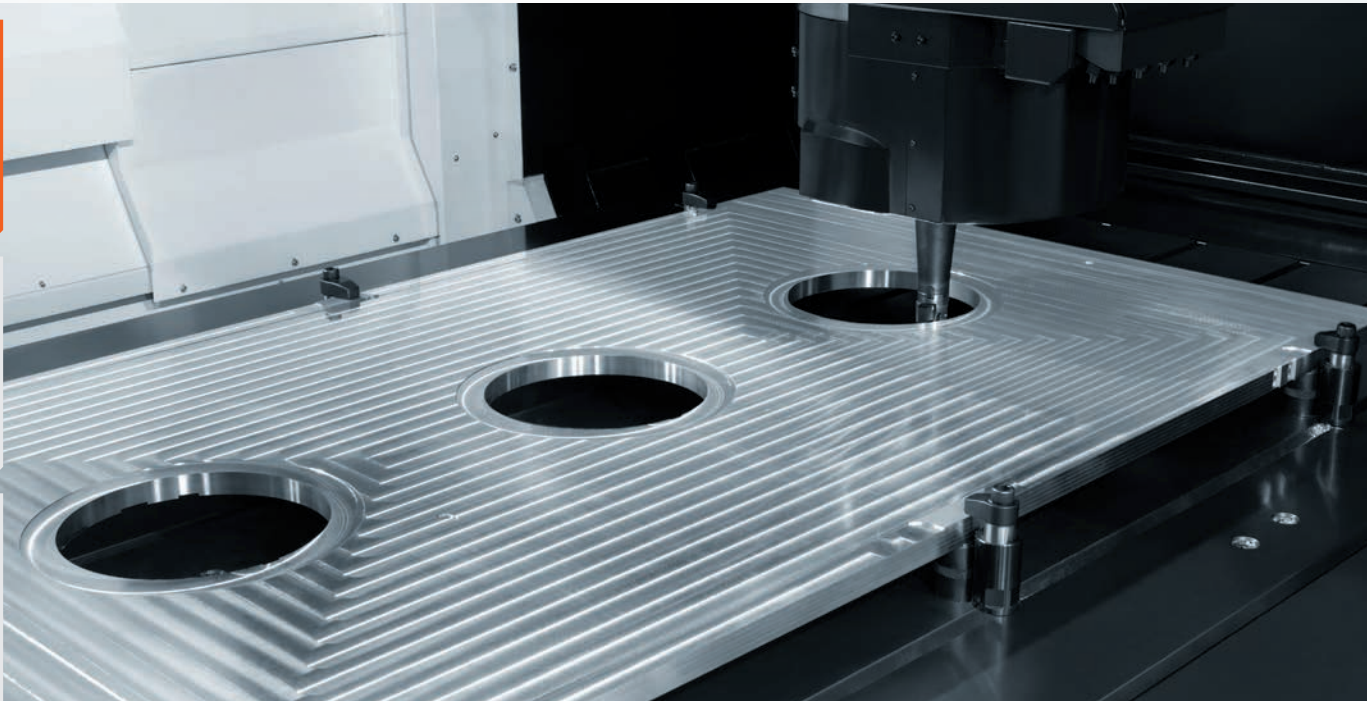
5-axis
Machining Centers

CNC Turning Centers

Vertical
Machining Centers

Horizontal
Machining Centers

Laser Processing
Machines



FJV-250
MAZATROL SmoothG

FJV-60/80

FJV-100/120

	200	250	35/60	35/80	35/120
Table size	800 mm × 460 mm	1200 mm × 550 mm	1740 mm × 750 mm	2240 mm × 750 mm	3240 mm × 750 mm
Travel (X / Y / Z)	560 mm / 410 mm / 410 mm	1020 mm / 510 mm / 460 mm	1500 mm / 800 mm / 660 mm	2000 mm / 800 mm / 660 mm	3000 mm / 800 mm / 660 mm
Rapid traverse rate (X / Y / Z)	52 m/min / 52 m/min / 52 m/min	52 m/min / 52 m/min / 52 m/min	40 m/min / 40 m/min / 30 m/min	40 m/min / 40 m/min / 30 m/min	32 m/min / 40 m/min / 30 m/min
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-40	CAT-40	CAT-50	CAT-50	CAT-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	3000 mm × 1250 mm	4000 mm × 1250 mm	3000 mm × 2000 mm	4000 mm × 2000 mm
Travel (X / Y / Z)	2000 mm / 1400 mm / 660 mm	3200 mm / 1400 mm / 660 mm	4200 mm / 1400 mm / 660 mm	3200 mm / 2450 mm / 660 mm	4200 mm / 2450 mm / 660 mm
Rapid traverse rate (X / Y / Z)	40 m/min / 40 m/min / 30 m/min	32 m/min / 40 m/min / 30 m/min	22 m/min / 40 m/min / 30 m/min	30 m/min / 40 m/min / 30 m/min	30 m/min / 40 m/min / 30 m/min
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-50	CAT-50	CAT-50	CAT-50	CAT-50
Tool storage capacity	30, *60	30, *60	30, *60	60	60

*Option

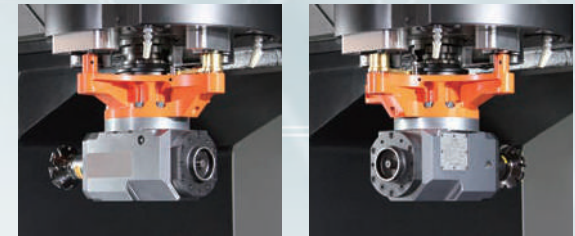
High-Accuracy Double Column 5 Face Machining Centers

FJV 5 Face SERIES

Machine workpiece top surface and side surfaces in a single machine setup. By incorporating the Mazak 5 Face Angle Head, workpieces are machined with high-precision and high-efficiency plus versatility is considerably increased.

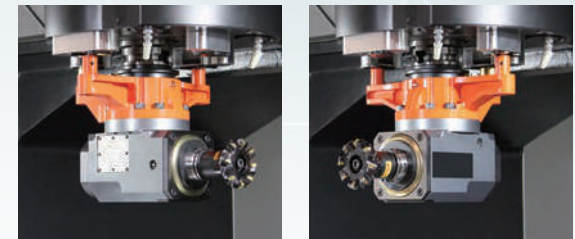
Mazak 5 Face Angle Head

Continuous 4 side machining



0°

90°



180°

270°

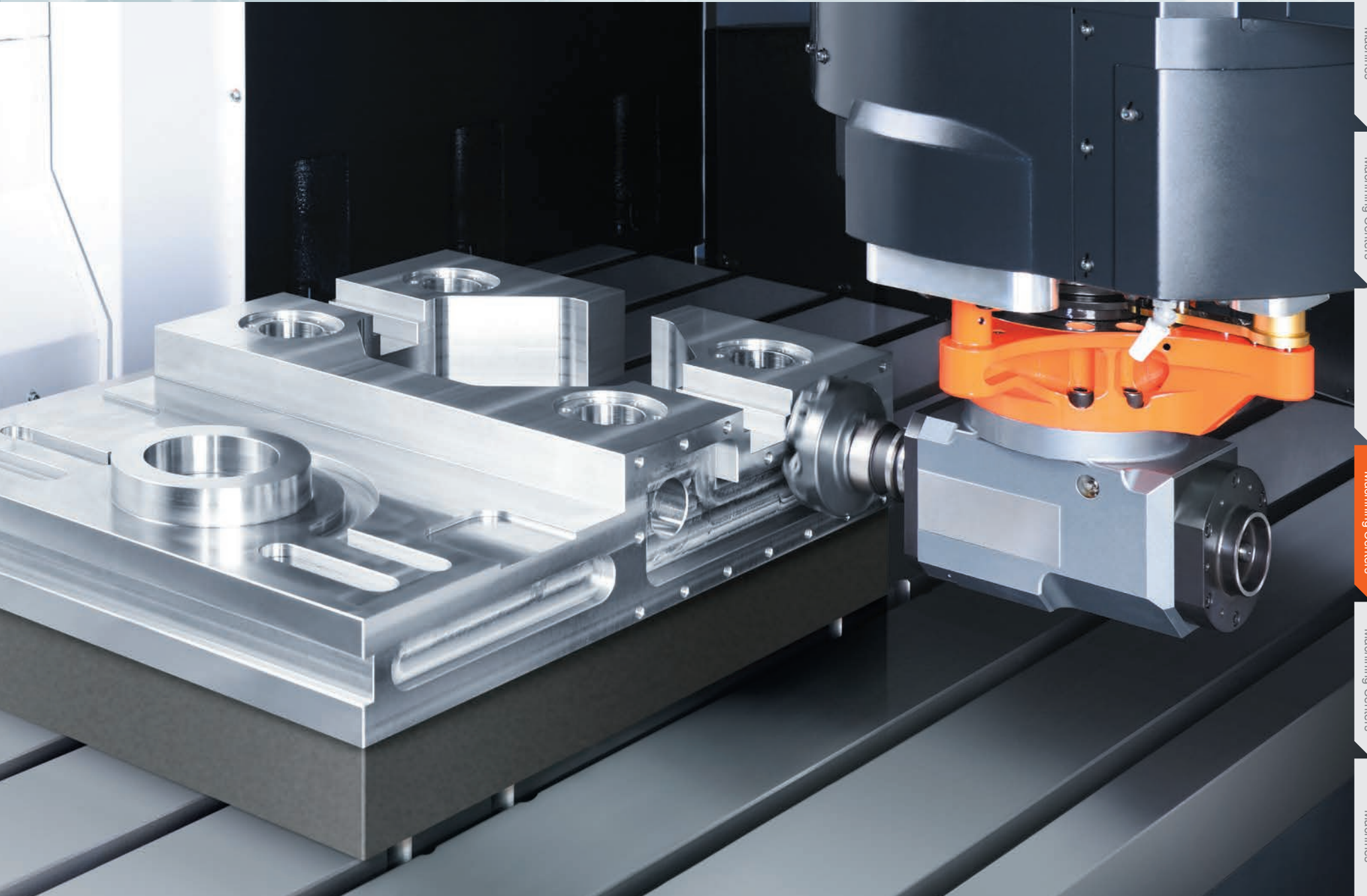


FJV 5 Face-60/80

	35/60	35/80	35/120	60/80
Table size	1740 mm × 750 mm	2240 mm × 750 mm	3240 mm × 750 mm	2240 mm × 1250 mm
Travel (X / Y / Z)	1500 mm / 800 mm / 660 mm	2000 mm / 800 mm / 660 mm	3000 mm / 800 mm / 660 mm	2000 mm / 1400 mm / 660 mm
Rapid traverse rate (X / Y / Z)	40 m/min / 40 m/min / 30 m/min	40 m/min / 40 m/min / 30 m/min	32 m/min / 40 m/min / 30 m/min	40 m/min / 40 m/min / 30 m/min
Spindle (30 min. rating)	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-50	CAT-50	CAT-50	CAT-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	4000 mm × 1250 mm	3000 mm × 2000 mm	4000 mm × 2000 mm
Travel (X / Y / Z)	3200 mm / 1400 mm / 660 mm	4200 mm / 1400 mm / 660 mm	3200 mm / 2450 mm / 660 mm	4200 mm / 2450 mm / 660 mm
Rapid traverse rate (X / Y / Z)	32 m/min / 40 m/min / 30 m/min	22 m/min / 40 m/min / 30 m/min	30 m/min / 40 m/min / 30 m/min	30 m/min / 40 m/min / 30 m/min
Spindle (30 min. rating)	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-50	CAT-50	CAT-50	CAT-50
Tool storage capacity	30, *60	30, *60	60	60

*Option



Multi-Tasking
Machines

5-axis
Machining Centers

CNC Turning Centers

Vertical
Machining Centers

Horizontal
Machining Centers

Laser Processing
Machines



Vertical Machining Centers with High-Torque

MTV SERIES

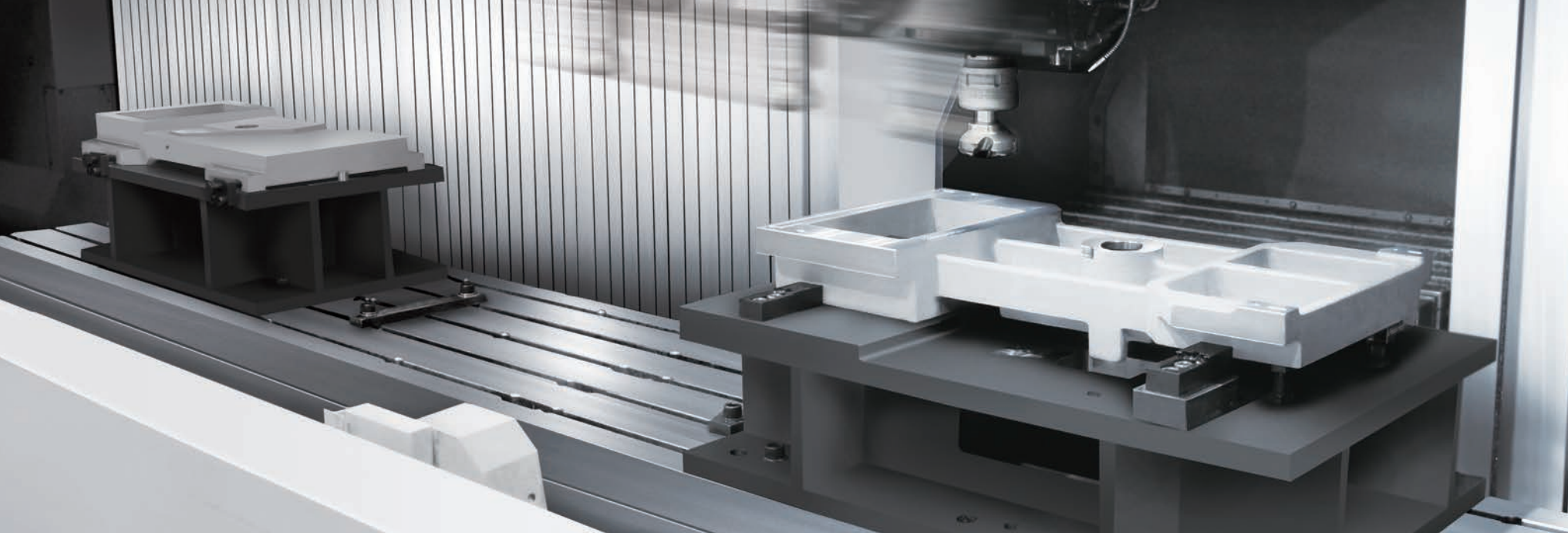
Large machining area and #50 taper spindle designed for the heavy-duty machining of steel and difficult to cut workpiece materials.



MTV-655/80
MAZATROL SmoothC

	515/40	655/60	655/80	815/80	815/120
Table size	1300 mm × 550 mm	1740 mm × 650 mm	2240 mm × 650 mm	2240 mm × 810 mm	3240 mm × 810 mm
Travel (X / Y / Z)	1050 mm / 510 mm / 560 mm	1500 mm / 650 mm / 650 mm	2000 mm / 650 mm / 650 mm	2032 mm / 810 mm / 750 mm	3048 mm / 810 mm / 750 mm
Rapid traverse rate (X / Y / Z)	26 m/min / 26 m/min / 20 m/min	26 m/min / 26 m/min / 20 m/min	26 m/min / 26 m/min / 20 m/min	24 m/min / 24 m/min / 18 m/min	24 m/min / 24 m/min / 18 m/min
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-50	CAT-50	CAT-50	CAT-50	CAT-50
Tool storage capacity	30, *60	30, *60	30, *60	30, *60	30, *60

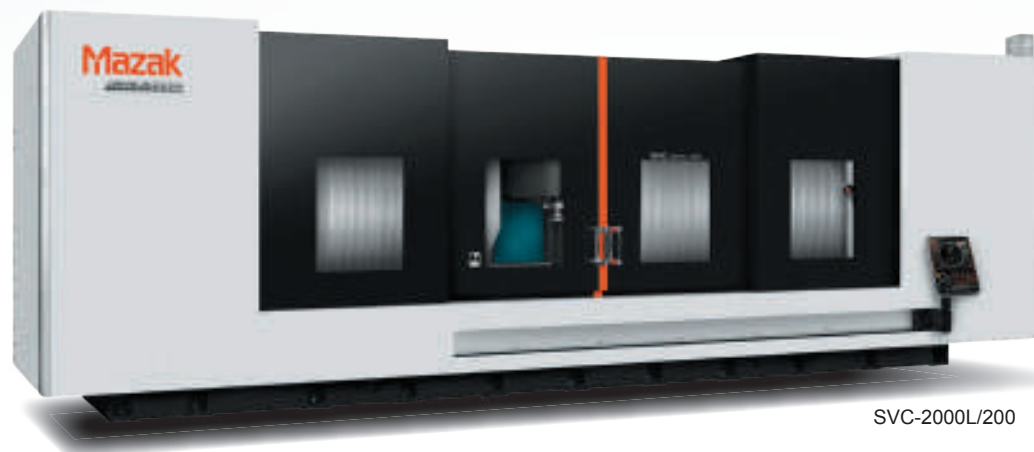
*Option



Travelling Column Vertical Machining Centers with Linear Motor on X-axis

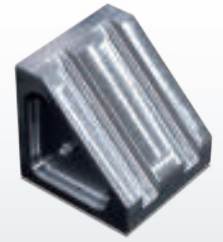
SVC SERIES

X-axis linear motor reduces non cutting time for the high-speed machining of long workpieces. The long table can be used for long workpieces as well as multiple small parts machining.



SVC-2000L/200

	2000L/120	2000L/200
Table size	3400 mm × 510 mm	5400 mm × 510 mm
Travel (X / Y / Z)	3048 mm / 510 mm / 510 mm	5080 mm / 510 mm / 510 mm
Rapid traverse rate (X)	120 m/min	120 m/min
(Y / Z)	50 m/min / 50 m/min	50 m/min / 50 m/min
Spindle (40% ED)	15000 rpm, 22 kW (30 HP)	15000 rpm, 22 kW (30 HP)
Tool shank	CAT-40	CAT-40
Tool storage capacity	30	30



High-Efficiency Compact Vertical Machining Center

VC-PRIMOS 400 L

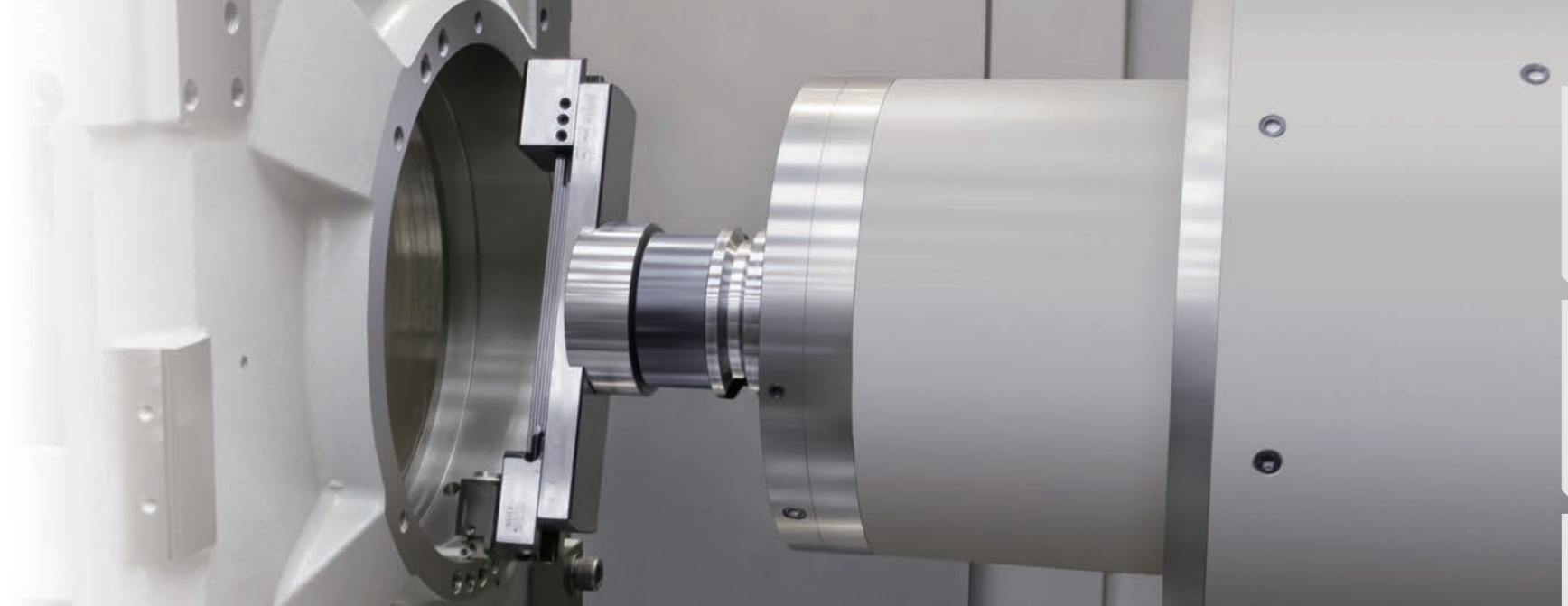
Stationary machine table with all drive elements above the machining area provides exceptional versatility and ensures smooth chip disposal. High-speed, high-accuracy, compact #30 taper spindle efficiently machines small parts. Available with the MAZATROL SmoothC or Mazak FZ CNC system.

VC-PRIMOS 400 L	
Table size	600 mm × 400 mm
Travel (X / Y / Z)	500 mm / 400 mm / 350 mm
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 60 m/min
Spindle (25 % ED)	12000 rpm, 9 kW (12 HP)
Tool shank	MAS BT-30, MAS BBT*, HSK-A50*
Tool storage capacity	14, *19, *21

*Option



VC-PRIMOS 400 L



Horizontal Machining Centers

High-Precision Horizontal Machining Center

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.

	8800	10800
Pallet size	800 mm × 800 mm	1000 mm × 1000 mm
Travel (X / Y / Z)	1400 mm / 1200 mm / 1325 mm	1700 mm / 1400 mm / 1525 mm
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 60 m/min	52 m/min / 52 m/min / 52 m/min
Spindle (30 min. rating)	10000 rpm, 37 kW (50 HP)	10000 rpm, 37 kW (50 HP)
Tool shank	CAT-50, *HSK-A100	CAT-50, *HSK-A100
Tool storage capacity	60, *80, *100, *120, *140, *160, *180, *204, *206, *240, *276, *288, *312, *348	80, *100, *120, *140, *160, *180, *204, *206, *240, *276, *288, *312, *348

*Option



μ-8800

High-Rigidity Horizontal Machining Centers with Quill

HCN-Q SERIES

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



HCN-16000QS

12500Q, 12500QS (Single table)

Pallet size	1250 mm × 1000 mm
Travel (X / Y / Z)	2030 mm / 1400 mm / 1525 mm
Rapid traverse rate (X / Y / Z / W)	30 m/min / 30 m/min / 30 m/min / 9 m/min
Spindle (40% ED)	3000 rpm, 45 kW (60 HP)
Tool shank	CAT-50
Tool storage capacity	80, *100, *120, *140, *160, *180, *204, *206, *240, *276, *288, *312, *348

16000Q, 16000QS (Single table)

Pallet size	1600 mm × 1250 mm
Travel (X / Y / Z)	2800 mm / 1600 mm / 1850 mm
Rapid traverse rate (X / Y / Z / W)	24 m/min / 24 m/min / 24 m/min / 9 m/min
Spindle (40% ED)	3000 rpm, 45 kW (60 HP)
Tool shank	CAT-50
Tool storage capacity	80, *100, *120, *140, *160, *180, *204, *206, *240, *276, *288, *312, *348

16800Q, 16800QS (Single table)

Pallet size	1600 mm × 1250 mm
Travel (X / Y / Z)	2800 mm / 2000 mm / 1850 mm
Rapid traverse rate (X / Y / Z / W)	24 m/min / 24 m/min / 24 m/min / 9 m/min
Spindle (40% ED)	3000 rpm, 45 kW (60 HP)
Tool shank	CAT-50
Tool storage capacity	80, *100, *120, *140, *160, *180, *204, *206, *240, *276, *288, *312, *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) No.50 taper spindle for difficult-to-cut materials.



MEGA 8800

	8800
Pallet size	800 mm × 800 mm
Travel (X / Y / Z)	1400 mm / 1200 mm / 1325 mm
Rapid traverse rate (X / Y / Z)	48 m/min / 40 m/min / 48 m/min
Spindle (40% ED)	4000 rpm, 85 kW (113 HP)
Tool shank	BBT-50
Tool storage capacity	60, *80, *100, *120, *140, *160, *180, *204, *206, *240, *276, *288, *312, *348

*Option



Multi-Tasking
Machines

5-axis
Machining Centers

CNC Turning Centers

Vertical
Machining Centers

Horizontal
Machining Centers

Laser Processing
Machines

High-Speed, High-Accuracy Horizontal Machining Centers

HCN SERIES

High-performance horizontal machining centers with pallet sizes ranging from 400 mm to 1250 mm 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.



HCN-4000
MAZATROL SmoothG



HCN-5000/50S
MAZATROL SmoothG



HCN-8800
MAZATROL SmoothG



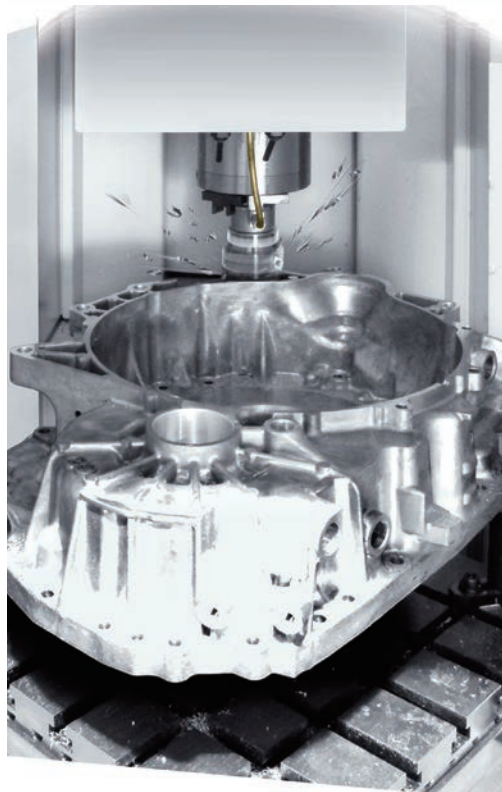
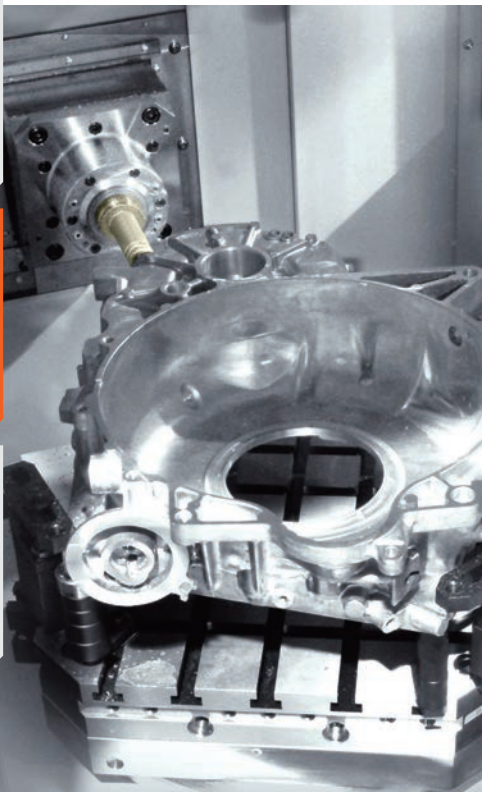
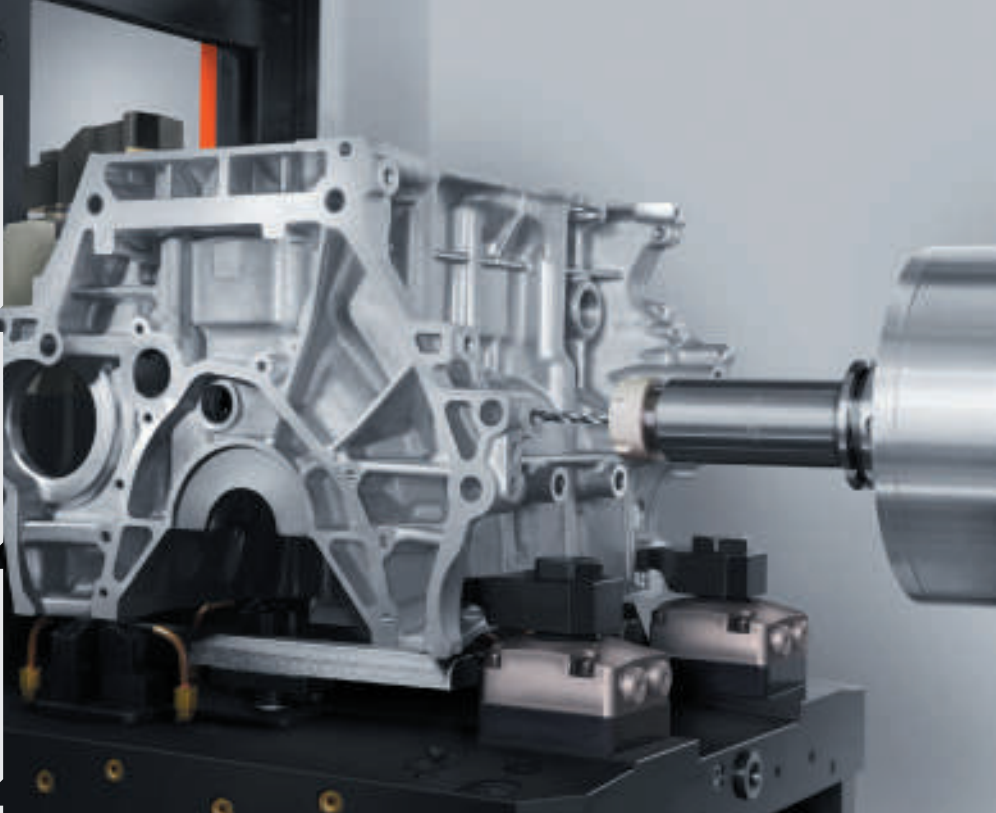
HCN-10800
MAZATROL SmoothG

	4000	5000, 5000S (Single table)	5000/50, 5000/50S (Single table)	6000
Pallet size	400 mm × 400 mm	500 mm × 500 mm	500 mm × 500 mm	500 mm × 500 mm
Travel (X / Y / Z)	560 mm / 640 mm / 640 mm	730 mm / 730 mm / 800 mm	730 mm / 730 mm / 800 mm	800 mm / 800 mm / 800 mm
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 60 m/min	60 m/min / 60 m/min / 60 m/min	60 m/min / 60 m/min / 60 m/min	60 m/min / 60 m/min / 60 m/min
Spindle	18000 rpm, 35 kW (47 HP) (40% ED)	18000 rpm, 35 kW (47 HP) (40% ED)	10000 rpm, 30 kW (40 HP) (40% ED)	10000 rpm, 37 kW (50 HP) (30 min. rating)
Tool shank	CAT-40, *HSK-A63	CAT-40, *HSK-A63	CAT-50, *HSK-A100	CAT-50, *HSK-A100
Tool storage capacity	40, *60, *80, *120, *160, *180, *204, *240, *288, *312, *348	40, *60, *80, *120, *160, *180, *204, *240, *288, *312, *348	43, *60, *80, *120, *160, *180, *204, *240, *288, *348	43, *60, *80, *100, *160, *180, *204, *206, *240, *276, *288, *312, *348
	6800	6800 HM Package	8800	8800 HM Package
Pallet size	630 mm × 630 mm	630 mm × 630 mm	800 mm × 800 mm	800 mm × 800 mm
Travel (X / Y / Z)	1050 mm / 900 mm / 980 mm	1050 mm / 900 mm / 980 mm	1400 mm / 1200 mm / 1325 mm	1400 mm / 1200 mm / 1325 mm
Rapid traverse rate (X / Y / Z)	60 m/min / 60 m/min / 60 m/min	60 m/min / 60 m/min / 60 m/min	60 m/min / 60 m/min / 60 m/min	60 m/min / 60 m/min / 60 m/min
Spindle	10000 rpm, 37 kW (50 HP) (30 min. rating)	6000 rpm, 37 kW (50 HP) (40% ED)	10000 rpm, 37 kW (50 HP) (30 min. rating)	6000 rpm, 37 kW (50 HP) (40% ED)
Tool shank	CAT-50, *HSK-A100	HSK-A100, BBT-50	CAT-50, *HSK-A100	HSK-A100, BBT-50
Tool storage capacity	43, *60, *80, *100, *120, *140, *160, *180, *204, *206, *240, *276, *288, *312, *348	43, *60, *80, *100, *120, *140, *160, *180, *204, *206, *240, *276, *288, *312, *348	60, *80, *100, *120, *140, *160, *180, *204, *206, *240, *276, *288, *312, *348	60, *80, *100, *120, *140, *160, *180, *204, *206, *240, *276, *288, *312, *348
	10800	10800 HM Package	12800	12800 HM Package
Pallet size	1000 mm × 1000 mm	1000 mm × 1000 mm	1250 mm × 1250 mm	1250 mm × 1250 mm
Travel (X / Y / Z)	1700 mm / 1400 mm / 1525 mm	1700 mm / 1400 mm / 1525 mm	2200 mm / 1600 mm / 1850 mm	2200 mm / 1600 mm / 1850 mm
Rapid traverse rate (X / Y / Z)	52 m/min / 52 m/min / 52 m/min	52 m/min / 52 m/min / 52 m/min	43 m/min / 43 m/min / 43 m/min	43 m/min / 43 m/min / 43 m/min
Spindle	10000 rpm, 37 kW (50 HP) (30 min. rating)	6000 rpm, 37 kW (50 HP) (40% ED)	10000 rpm, 37 kW (50 HP) (30 min. rating)	6000 rpm, 56 kW (75 HP) (40% ED)
Tool shank	CAT-50, *HSK-A100	HSK-A100, BBT-50	CAT-50, *HSK-A100	HSK-A100, BBT-50
Tool storage capacity	80, *100, *120, *140, *160, *180, *204, *206, *240, *276, *288, *312, *348	80, *100, *120, *140, *160, *180, *204, *206, *240, *276, *288, *312, *348	80, *100, *120, *140, *160, *180, *204, *206, *240, *276, *288, *312, *348	80, *100, *120, *140, *160, *180, *204, *206, *240, *276, *288, *312, *348

*Option

Multi-Tasking
Machines5-axis
Machining Centers

CNC Turning Centers

Vertical
Machining CentersHorizontal
Machining CentersLaser Processing
Machines

Horizontal Machining Centers for High-Speed, Large Volume Production

FF SERIES

Designed with the high productivity, high-reliability and ease of maintenance as 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.

	n5000/40	5000/40	5000/50
Pallet size	500 mm × 500 mm	500 mm × 500 mm	500 mm × 500 mm
Travel (X / Y / Z)	510 mm / 550 mm / 550 mm	660 mm / 660 mm / 550 mm	660 mm / 660 mm / 555 mm
Rapid traverse rate (X / Y / Z)	62 m/min / 62 m/min / 62 m/min	62 m/min / 62 m/min / 62 m/min	62 m/min / 62 m/min / 62 m/min
Spindle (40% ED) MAZATROL SmoothC FANUC 32i-B	18000 rpm, 35 kW (47 HP) 30 kW (40 HP)	18000 rpm, 35 kW (47 HP) 30 kW (40 HP)	10000 rpm, 30 kW (40 HP) 37 kW (47 HP)
Tool shank	CAT-40, *HSK-A63	CAT-40, *HSK-A63	CAT-50, *HSK-A100
Tool storage capacity	20, *30	20, *30	20

*Option

"Ultra Narrow" Machining Centers for Large Volume Production

UN SERIES

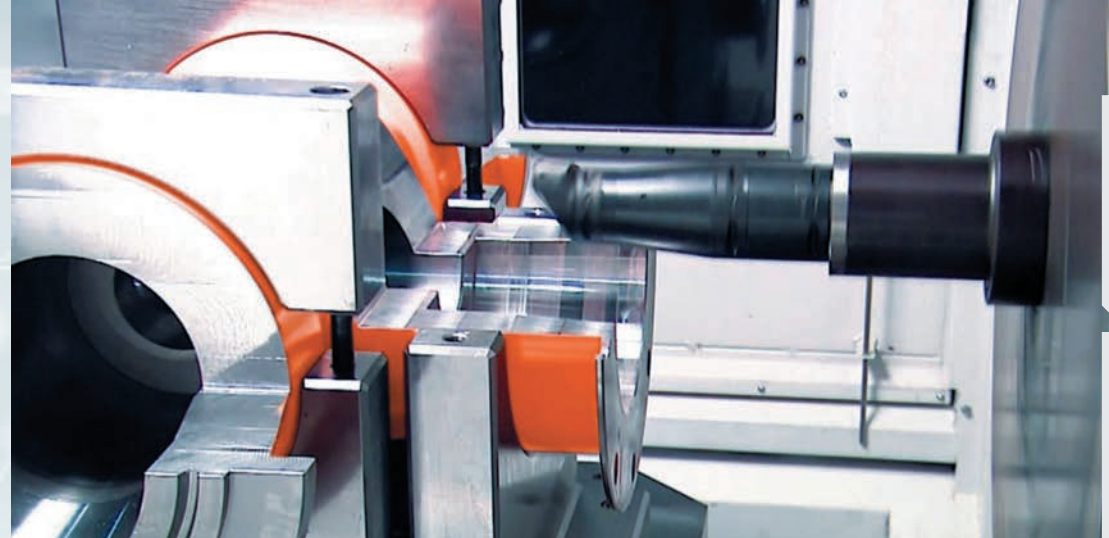
Extremely narrow #30 taper spindle machining centers designed for the large volume production of automotive components. The width of the vertical UN-600/30V is 695 mm and the horizontal UN-600/30H is 990 mm making extremely compact production lines possible.

	600/30V	600/30H
Pallet size	400 mm × 400 mm	400 mm × 400 mm
Travel	C : 360° Y : 350 mm Z : 400 mm	X : 510 mm Y : 400 mm Z : 380 mm
Rapid traverse rate	C : 100 rpm Y, Z : 60 m/min	X : 120 m/min Y, Z : 60 m/min
Spindle (10 min. rating)	20000 rpm, 18.5 kW (25 HP)	20000 rpm, 18.5 kW (25 HP)
Tool shank	MAS BT-30	MAS BT-30
Tool storage capacity	20	20, *30

*Option



FF-5000/40



Multi-Tasking
Machines

5-axis
Machining
Centers

Facing & Turning Head Type Machining Center

ORBITEC 20

Streamlined machining of valves and effective machining of irregularly shaped workpieces are thanks to unique high-accuracy headstock which requires no turning tools.

CNC Turning Centers



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

Vertical
Machining
Centers



ORBITEC 20

Horizontal
Machining
Centers

	20
Table size	630 mm × 630 mm
Travel (U / V / Z / X)	600 mm / 600 mm / 1230 mm / 280 mm
Rapid traverse rate (U / V / Z / X)	20 m/min / 20 m/min / 20 m/min / 15 m/min
Spindle (30 min.rating)	600 rpm, 30 kW (40 HP)
Tool shank	CAPTO-C8
Tool storage capacity	60

Laser Processing
Machines

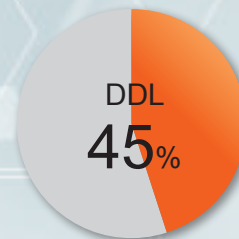
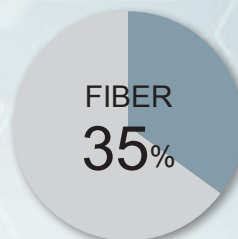
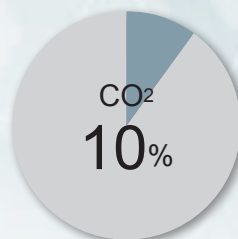
Laser Processing Machines

Direct Diode Laser Processing Machines

OPTIPLEX DDL SERIES

The first Mazak Laser Processing Machine with a Direct Diode Laser – a real gamechanger. Advanced technology DDL cuts thin worksheets faster than a fiber laser and can cut highly reflective material such as aluminum, copper, and brass. Productivity is further enhanced with the Multi-Control Torch and Intelligent Functions.

Energy conversion efficiency of DDL is approximately 45%



OPTIPLEX 3015 DDL



	3015 DDL	4020 DDL
Laser continuous rated output	4.0 kW, 6.0 kW	4.0 kW, 6.0 kW
Max. cutting size	1525 mm × 3050 mm	2000 mm × 4000 mm
Travel (X / Y / Z)	3110 mm / 1595 mm / 110 mm	4085 mm / 2070 mm / 110 mm
Positioning accuracy (X, Y)	±0.05 mm / 500 mm	±0.05 mm / 500 mm
Positioning accuracy (Z)	±0.01 mm / 100 mm	±0.01 mm / 100 mm



Multi-Tasking
Machines

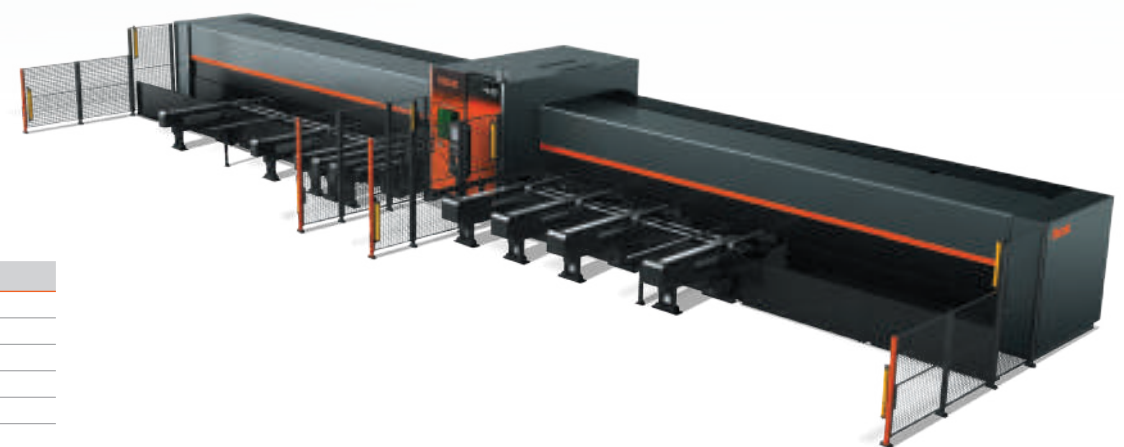
5-axis
Machining
Centers

CNC Turning
Centers

3D Direct Diode Laser Processing Machine for Long Tube and Structural Material

FG-220 DDL

The FG-220 DDL performs high-speed cutting of reflective materials (copper and brass) thanks to the Direct Diode Laser with short wave length. Just load long material in the loading station, and 3D cutting is performed automatically as well as transfer of finished parts to the unloading station. Additionally, all cutting processes from 3D cutting to tapping are performed in just one machine (when equipped with the optional tapping unit [Max. M12]).



FG-220 DDL
Chain conveyor (option)

FG-220 DDL	
Laser continuous rated output	4.0 kW
Workpiece shape	Round, square, L / H / I beam and channel
Max. cutting size (round material)	Φ20 mm ~ Φ220 mm
(square material)	20 mm × 20 mm ~ 152.4 mm × 152.4 mm
Max. workpiece length (loading)	8150 mm, *6250 mm, *12350 mm
(unloading)	8000 mm, *3000 mm, *6100 mm, *12200 mm

*Option

Vertical
Machining
Centers

Horizontal
Machining
Centers

Laser Processing
Machines

Fiber Laser Processing Machines

OPTIPLEX FIBER SERIES

The OPTIPLEX FIBER series is available with a wide range of fiber laser resonator power. Productivity is improved with the Multi-Control Torch and Intelligent Functions. A single machine can easily be integrated into a FMS after the initial machine installation.



OPTIPLEX 3015 FIBER III

The OPTIPLEX NEXUS 3015 FIBER is designed to provide the maximum value. The Multi-Control Torch and Intelligent Functions further enhance productivity.



OPTIPLEX NEXUS 3015 FIBER

Fiber Laser Processing Machines

SUPER TURBO-X FIBER SERIES

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



3015 FIBER III	
Laser continuous rated output	2.0 kW, 4.0 kW, 6.0 kW, 8.0 kW, 10.0 kW
Max. cutting size	1525 mm × 3050 mm
Travel (X / Y / Z)	3110 mm / 1595 mm / 110 mm
Positioning accuracy (X, Y)	±0.05 mm / 500 mm
Positioning accuracy (Z)	±0.01 mm / 100 mm

4020 FIBER III	
Laser continuous rated output	2.0 kW, 4.0 kW, 6.0 kW, 8.0 kW, 10.0 kW
Max. cutting size	2000 mm × 4000 mm
Travel (X / Y / Z)	4085 mm / 2070 mm / 110 mm
Positioning accuracy (X, Y)	±0.05 mm / 500 mm
Positioning accuracy (Z)	±0.01 mm / 100 mm



SUPER TURBO-X 3015 FIBER

NEXUS 3015 FIBER	
Laser continuous rated output	2.0 kW, 3.0 kW, 4.0 kW, 6.0 kW
Max. cutting size	1525 mm × 3050 mm
Travel (X / Y / Z)	3100 mm / 1580 mm / 150 mm
Positioning accuracy (X, Y)	±0.05 mm / 500 mm
Positioning accuracy (Z)	±0.01 mm / 100 mm

	2412 FIBER	3015 FIBER
Laser continuous rated output	2.0 kW, 3.0 kW	2.0 kW, 3.0 kW
Max. cutting size	1250 mm × 2500 mm	1525 mm × 3050 mm
Travel (X / Y / Z)	2520 mm / 1270 mm / 90 mm	3070 mm / 1545 mm / 90 mm
Positioning accuracy (X, Y)	±0.01 mm / 500 mm	±0.01 mm / 500 mm
Positioning accuracy (Z)	±0.01 mm / 100 mm	±0.01 mm / 100 mm

CO₂ Laser Processing Machines

OPTIPLEX SERIES

Laser processing machines with CO₂ laser resonator designed to meet your production requirements. Intelligent Functions such as Auto Nozzle Changing, Auto Focus Positioning are standard equipment as well as the Intelligent Monitoring Function to provide stable cutting performance.



OPTIPLEX 4020 II

	3015 II	4020 II
Laser continuous rated output	2.5 kW, 4.0 kW, 6.0 kW	4.0 kW
Max. cutting size	1525 mm × 3050 mm	2000 mm × 4000 mm
Travel (X / Y / Z)	3100 mm / 1580 mm / 110 mm	4075 mm / 2060 mm / 110 mm
Positioning accuracy (X, Y)	±0.05 mm / 500 mm	±0.05 mm / 500 mm
Positioning accuracy (Z)	±0.01 mm / 100 mm	±0.01 mm / 100 mm

CO₂ laser processing machine with the essential features of the OPTIPLEX II series, designed to provide you the maximum value.



OPTIPLEX NEXUS 3015

	NEXUS 3015
Laser continuous rated output	2.5 kW
Max. cutting size	1525 mm × 3050 mm
Travel (X / Y / Z)	3100 mm / 1580 mm / 150 mm
Positioning accuracy (X, Y)	±0.05 mm / 500 mm
Positioning accuracy (Z)	±0.01 mm / 100 mm

SUPER TURBO-X SERIES

SUPER TURBO-X series features excellent table accessibility for high-mix, small-volume production. Intelligent Functions such as Auto Nozzle Changing, Auto Focus Positioning as well as the Intelligent Monitoring Functions are standard equipment.



SUPER TURBO-X 3015



SUPER TURBO-X 3015 CHAMPION

	2412	3015	4020	2412 CHAMPION	3015 CHAMPION
Laser continuous rated output	2.5 kW, 4.0 kW	2.5 kW, 4.0 kW	2.5 kW, 4.0 kW	2.5 kW	2.5 kW
Max. cutting size	1250 mm × 2500 mm	1525 mm × 3050 mm	2000 mm × 4000 mm	1250 mm × 2500 mm	1525 mm × 3050 mm
Travel (X / Y / Z)	2520 mm / 1270 mm / 90 mm	3070 mm / 1545 mm / 90 mm	4020 mm / 2020 mm / 90 mm	2520 mm / 1270 mm / 90 mm	3070 mm / 1545 mm / 90 mm
Positioning accuracy (X, Y)	±0.01 mm / 500 mm	±0.01 mm / 500 mm	±0.01 mm / 500 mm	±0.01 mm / 500 mm	±0.01 mm / 500 mm
Positioning accuracy (Z)	±0.01 mm / 100 mm	±0.01 mm / 100 mm	±0.01 mm / 100 mm	±0.01 mm / 100 mm	±0.01 mm / 100 mm

Extremely compact machine with completely enclosed covers to maintain a safe and clean working environment. Equipped with a rotating table and movable operation for increased ease of operation.



SUPER TURBO-X 1212

	1212
Laser continuous rated output	2.5 kW, 4.0 kW
Max. cutting size	1250 mm × 1250 mm
Travel (X / Y / Z)	1270 mm / 1270 mm / 130 mm
Positioning accuracy (X, Y)	±0.01 mm / 500 mm
Positioning accuracy (Z)	±0.01 mm / 100 mm

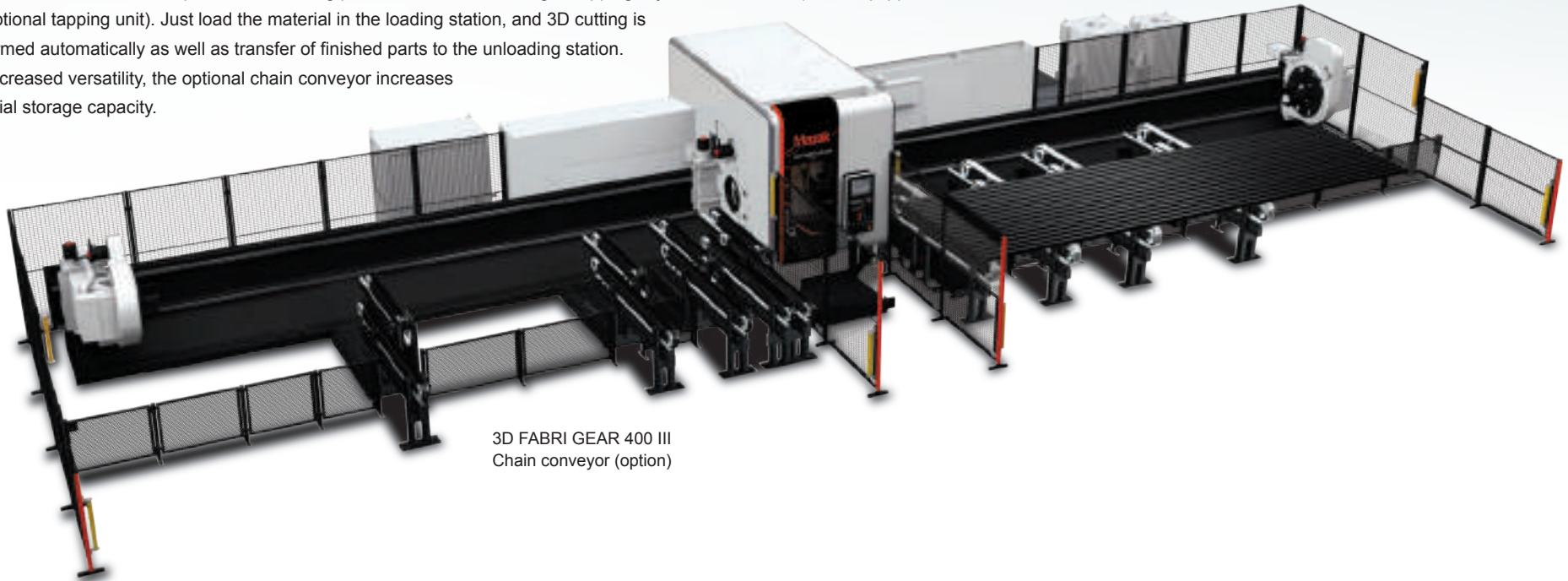


3D Laser Processing Machine for Long Pipes and Structural Material

3D FABRI GEAR SERIES

3D cutting of long pipes and structural material

The 3D FABRI GEAR series performs all cutting processes from 3D cutting to tapping in just one machine (when equipped with the optional tapping unit). Just load the material in the loading station, and 3D cutting is performed automatically as well as transfer of finished parts to the unloading station. For increased versatility, the optional chain conveyor increases material storage capacity.



3D FABRI GEAR 400 III
Chain conveyor (option)



2D / 3D CO₂ Laser Processing Machines

SPACE GEAR SERIES

Compact 2D / 3D CO₂ Laser Processing Machines

The SPACE GEAR U-44 can cut cubic workpieces high-efficiency. The total machine cover, which covers the entire processing area, protects operators from the laser beam and cutting spatter. Additionally, the movable operation panel provides ease of operation.



SPACE GEAR-U44

U44	
Laser continuous rated output	2.5 kW, 4.0 kW
Max. cutting size (flat sheet)	1250 mm × 1250 mm
(cubic material)	900 mm × 900 mm × 340 mm
Travel (X / Y / Z)	1270 mm / 1270 mm / 340 mm
(A / B / C)	±99999.999° / ±135° / ±99999.999°
Positioning accuracy (X, Y)	±0.01 mm / 500 mm

2D cutting of flat worksheets and 3D cutting of cubic workpieces

The SPACE GEAR 510 MK II performs cutting of 2D flat worksheets, cubic workpieces and pipe processing – all by one machine. Thanks to the constant-beam length system, stable cutting performance is ensured.



SPACE GEAR 510 Mk II

510 Mk II	
Laser continuous rated output	2.5 kW, 4.0 kW
Max. cutting size (flat sheet)	1525 mm × 3050 mm
(cubic material)	1175 mm × 2710 mm × 300 mm
Travel (X / Y / Z)	3070 mm / 1545 mm / 300 mm
(A / B / C)	±99999.999° / ±135° / ±99999.999°
Positioning accuracy (X, Y)	±0.01 mm / 500 mm

220 III	
Laser continuous rated output	2.5 kW, 4.0 kW
Max. cutting size (round material)	Φ20 - 220 mm
(square material)	□20 - 152.4 mm
Max. workpiece length (loading)	8150 mm, *6250 mm, *12350 mm
(unloading)	8000 mm, *3000 mm, *6100 mm, *12200 mm, *15100 mm
Positioning accuracy (X, U, V)	±0.05 mm / 500 mm
(Y, Z)	±0.01 mm / 500 mm

400 III	
Laser continuous rated output	2.5 kW, 4.0 kW
Max. cutting size (round material)	Φ20 - 406.4 mm
(square material)	□20 - 300 mm
Max. workpiece length (loading)	8080 mm, *6180 mm, *12280 mm, *15180 mm
(unloading)	8000 mm, *6100 mm, *12200 mm, *15100 mm
Positioning accuracy (X, U, V)	±0.05 mm / 500 mm
(Y, Z)	±0.01 mm / 500 mm

*option

Automation Cells for Laser Cutting

SMART MANUFACTURING CELL 3015/140

The SMART MANUFACTURING CELL performs automatic material loading, sorting by robot after laser processing, and worksheet remnant unloading. Thanks to accurate part sorting by robot, operator mistakes as well as manual part sorting are eliminated.



OPTIPLEX CHAMPION 3015 FIBER +
SMART MANUFACTURING CELL 3015/140
*Safety fence is not shown for clarity.

QUICK CELL

The QUICK CELL performs automatic changing of worksheets and finished parts in a compact floor space.



OPTIPLEX 3015 FIBER III +
QUICK CELL 3015

EXTENSIBLE MANUFACTURING CELL

The EXTENSIBLE MANUFACTURING CELL is an automated system for the automatic operation of laser cutting from material loading to finished workpiece unloading. It can be expanded to a maximum of 4 machines system after the initial system installation.



OPTIPLEX 3015 FIBER III +
EXTENSIBLE MANUFACTURING CELL

COMPACT MANUFACTURING CELL

10 pallets with material and finished worksheets can be stored in the stocker. The number of micro-joints used can be minimized since the finished worksheets are unloaded to the stocker with the pallet. Time for finishing operations can also be reduced.



OPTIPLEX 3015 FIBER III +
COMPACT MANUFACTURING CELL

Software

Mazak laser processing machine CNC systems

The revolutionary MAZATROL CNC, developed exclusively by Mazak has been used on Mazak lasers for over 30 years. By incorporating the most advanced technology and IIoT technologies, these systems provide unsurpassed ease of operation and high-performance. The continuous evolution of the MAZATROL ensures that Mazak laser machines can be operated at their full potential today as well as tomorrow.

Laser processing machine software

Software for Mazak laser processing machines incorporates the latest optimum cutting technologies to ensure that Mazak machines will be used to their full potential.



MAZATROL **PREVIEW G**



CAD / CAM fabrication system

MAZAK SMART SYSTEM MAZAK SMART SYSTEM JR.

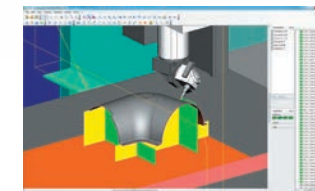
Innovative CAD / CAM system that uses 3D solid models. Even an inexperienced operator can easily make NC programs for complex shapes.



3D CAD / CAM system (SPACE GEAR)

FX 3D

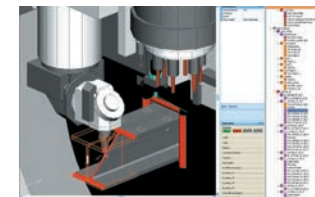
3D CAD files can be imported and used to make cutting programs in the minimum time. The same data can be used to automatically make the cutting programs used to produce fixture components for the workpiece.



3D CAD / CAM system for pipe processing
(3D FABRI GEAR, FG-220 DDL, FT-150 FIBER)

FX TUBE

Ease of programming of steel pipes and steel bars (including 3D).



Global Manufacturing

Mazak Worldwide Support Network

GLOBAL SERVICE & SUPPORT

Mazak has been performing business on a global basis for more than fifty years. Currently, 10 production plants and more than 80 technology and technical centers are located all over the world. (As of July, 2019)

Production Plants



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



1961 Yamazaki Mazak
Corporation, Oguchi Plant



2006 Yamazaki Mazak
Manufacturing Corporation,
Minokamo Plant 2



1987 Yamazaki Mazak
U.K. Ltd. (England)



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



1983 Yamazaki Mazak
Manufacturing Corporation,
Minokamo Plant



1968 Yamazaki Mazak
Manufacturing Corporation,
Seiko Plant



1974 Mazak Corporation
(Kentucky, U.S.A.)



1992 Yamazaki Mazak
Singapore Pte. Ltd.



2018 Yamazaki Mazak
Manufacturing Corporation,
Inabe Plant

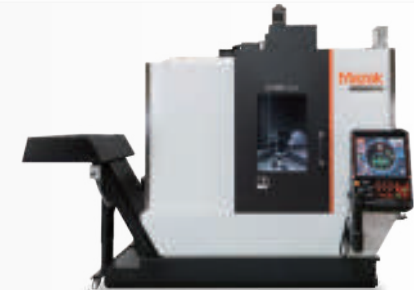
Production Facilities

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), and Liaoning, China (2013). 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.)
VC-500A/5X AM



Innovation from YMUK (U.K.)
CV5-500



MAZAK WORLD WIDE SERVICE & SUPPORT NETWORK

Comprehensive service and support
provided locally – worldwide

JAPAN

YAMAZAKI MAZAK CORPORATION
(WORLD HEADQUARTERS &
MANUFACTURING PLANT)
YAMAZAKI MAZAK TRADING CORPORATION
1-131 Takeda, Oguchi-cho, Niwa-gun, Aichi-Pref.
Tel : +(81)587-95-1131

YAMAZAKI MAZAK MANUFACTURING CORPORATION MINOKAMO PLANT
333 Yamazaki, Naka-Hachiya
Hachiya-cho, Minokamo City, Gifu-Pref.
Tel : +(81)574-25-8311

YAMAZAKI MAZAK MANUFACTURING CORPORATION MINOKAMO PLANT 2
1-2 Yata, Hachiya-cho, Minokamo City, Gifu-Pref.
Tel : +(81)574-24-1121

YAMAZAKI MAZAK MANUFACTURING CORPORATION INABE PLANT
1 Matsunashinden, Inabe-Cho,
Inabe-City, Mie-Pref.
Tel : +(81)594-84-1300

YAMAZAKI MAZAK MANUFACTURING CORPORATION SEIKO PLANT
413 Rengeji, Kuwana City, Mie-Pref.
Tel : +(81)594-22-3111

YAMAZAKI MAZAK OPTONICS CORPORATION
333 Yamazaki, Naka-Hachiya
Hachiya-cho, Minokamo City, Gifu-Pref.
Tel : +(81)574-28-2123

WORLD TECHNOLOGY CENTER
333 Yamazaki, Naka-Hachiya
Hachiya-cho, Minokamo City, Gifu-Pref.
Tel : +(81)574-28-2510

TOHOKU TECHNOLOGY CENTER
93-1 Kitaya, Masuda, Natori City, Miyagi-Pref.
Tel : +(81)22-382-1134

CHUBU TECHNOLOGY CENTER
1-131 Takeda, Oguchi-cho, Niwa-gun, Aichi-Pref.
Tel : +(81)587-95-9304

KANSAI TECHNOLOGY CENTER
3-24 Shinryo Nishi, Higashiosaka City, Osaka
Tel : +(81)6-6745-1251

SETOUCHI TECHNOLOGY CENTER
4962-23 Hayashima, Hayashima-cho,
Tsukubo-gun, Okayama-Pref.
Tel : +(81)86-480-1131

KYUSHU TECHNOLOGY CENTER
2-3-43 Tonokoga, Dazaifu City, Fukuoka-Pref.
Tel : +(81)92-921-5225

SAPPORO TECHNICAL CENTER
N34BLDG, Kita 34 Jo Nishi 4-2-26, Kita-ku,
Sapporo City, Hokkaido
Tel : +(81)11-806-0250

KITAKAMI TECHNICAL CENTER
2-3-10 Oodori, Kitakami City, Iwate-Pref.
Tel : +(81)197-64-0025

SENDAI TECHNICAL CENTER
93-1 Kitaya, Masuda, Natori City, Miyagi-Pref.
Tel : +(81)22-382-1134

KORIYAMA TECHNICAL CENTER
2-99 Minami, Koriyama City, Fukushima-Pref.
Tel : +(81)24-947-1138

NAGAOKA TECHNICAL CENTER
4-4049 Sekiharaminami, Nagaoka City, Niigata-Pref.
Tel : +(81)258-47-1131

UTSUNOMIYA TECHNICAL CENTER
3-19 Nakagawaramachi,
Utsunomiya City, Tochigi-Pref.
Tel : +(81)28-632-9005

TAKASAKI TECHNICAL CENTER
187-2 Azuma-cho, Takasaki City, Gunma-Pref.
Tel : +(81)27-341-7337

OTA TECHNICAL CENTER
214-2 Komaigi-cho, Ota City, Gunma-Pref.
Tel : +(81)276-46-1225

TSUKUBA TECHNICAL CENTER
2-7-3 Umezono, Tsukuba City, Ibaraki-Pref.
Tel : +(81)29-860-1131

TOKYO TECHNICAL CENTER
2-26-3 Shinkawa, Chuo-ku, Tokyo
Tel : +(81)3-5543-1313

TOKYO WEST TECHNICAL CENTER
2-34-5 Musashinodai, Fussa City, Tokyo
Tel : +(81)42-553-5531

SAITAMA TECHNICAL CENTER
4-2-8 Miyahara-cho, Kita-ku,
Saitama City, Saitama-Pref.
Tel : +(81)48-668-2345

KANAGAWA TECHNICAL CENTER
8-10-24 Fukami Nishi, Yamato City, Kanagawa-Pref.
Tel : +(81)46-263-6608

NAGANO TECHNICAL CENTER
3-104 Kassenba, Nagano City, Nagano-Pref.
Tel : +(81)26-292-6546

INA TECHNICAL CENTER
14016 Nakaminowa, Minowa-cho
Kamiina-gun, Nagano-Pref.
Tel : +(81)265-79-0305

TOYAMA TECHNICAL CENTER
55-3 Imaizumi, Toyama City, Toyama-Pref.
Tel : +(81)76-425-1233

KANAZAWA TECHNICAL CENTER
2-208 Morito, Kanazawa City, Ishikawa-Pref.
Tel : +(81)76-269-1131

FUJII TECHNICAL CENTER
1-28 Midori-cho, Fuji City, Shizuoka-Pref.
Tel : +(81)545-51-0811

HAMAMATSU TECHNICAL CENTER
5758 Koto-cho, Nishi-ku,
Hamamatsu City, Shizuoka-Pref.
Tel : +(81)53-546-1133

MIKAWA TECHNICAL CENTER
1-15-10 Mikawa-Anjo Minami-machi,
Anjo City, Aichi-Pref.
Tel : +(81)566-75-1641

NAGOYA TECHNICAL CENTER
1-131 Takeda, Oguchi-cho, Niwa-gun, Aichi-Pref.
Tel : +(81)587-95-9305

TOKAI TECHNICAL CENTER
413 Rengeji, Kuwana City, Mie-Pref.
Tel : +(81)594-22-3112

KEIJI TECHNICAL CENTER
6-9-61 Anyoji, Rittuto-city, Shiga-Pref.
Tel : +(81)77-554-2661

OSAKA TECHNICAL CENTER
3-24 Shinryo Nishi, Higashiosaka City, Osaka
Tel : +(81)6-6745-1251

OSAKA NORTH TECHNICAL CENTER
1-10-5 Kozushima, Toyonaka City, Osaka
Tel : +(81)6-6867-1131

HYOGO TECHNICAL CENTER
3-3-25 Higashinozoe, Harima-cho,
Kako-gun, Hyogo-Pref.
Tel : +(81)78-944-0039

OKAYAMA TECHNICAL CENTER
4962-23 Hayashima, Hayashima-cho,
Tsukubo-gun, Okayama-Pref.
Tel : +(81)86-480-1131

SHIKOKU TECHNICAL CENTER
2550-2 Shimobun, Kinsei-cho,
Shikokuchuo City, Ehime-Pref.
Tel : +(81)896-88-0037

FUKUYAMA TECHNICAL CENTER
7-23 Funamachi, Fukuyama City, Hiroshima-Pref.
Tel : +(81)84-920-1192

HIROSHIMA TECHNICAL CENTER
4-5-25 Osu, Fuchu-cho, Aki-gun, Hiroshima-Pref.
Tel : +(81)82-283-1131

FUKUOKA TECHNICAL CENTER
2-3-43 Tonokoga, Dazaifu City, Fukuoka-Pref.
Tel : +(81)92-921-5225

KUMAMOTO TECHNICAL CENTER
2-9-1 Kuwamizu, chuo-ku, Kumamoto City, Kumamoto-Pref.
Tel : +(81)96-386-1135

EUROPE

YAMAZAKI MAZAK U.K. LTD.
(EUROPEAN HEADQUARTERS,
MANUFACTURING PLANT & EUROPEAN
TECHNOLOGY CENTER)
Badgeworth Drive,
Worcester WR4 9NF United Kingdom
Tel : +(44)1905-757555

YAMAZAKI MAZAK Deutschland GmbH
GERMANY GOEPPINGEN TECHNOLOGY CENTER
Esslinger Strasse 4-6, D-73037 Goepplingen.
Tel : +(49)7161 675-0

YAMAZAKI MAZAK Deutschland GmbH
GERMANY DUESSELDORF TECHNOLOGY CENTER
Niederlassung Düsseldorf Theodorstrasse 176
D-40472 Düsseldorf
Tel : +(49)211 17166-0

YAMAZAKI MAZAK Deutschland GmbH
GERMANY MUENCHEN TECHNOLOGY CENTER
Niederlassung Muenchen Ammerthalstrasse 11
D-85551 Kirchheim,
Tel : +(49)89 9441992-0

YAMAZAKI MAZAK Deutschland GmbH
GERMANY LEIPZIG TECHNOLOGY CENTER
Niederlassung Leipzig Debyestrasse 7
D-04329 Leipzig, Germany
Tel : +(49)341 252752-0

YAMAZAKI MAZAK FRANCE S.A.S.
FRANCE TECHNOLOGY CENTER
10, avenue Lionel Terray, ZA de Courtaboeuf
91140 VILLEJUST, France
Tel : +(33)169-31 8100

YAMAZAKI MAZAK EUROPE N.V.
BELGIUM TECHNOLOGY CENTER
Research Park, Grauwmeer 7, 3001 Leuven, Belgium
Tel : +(32)16-39-1611

YAMAZAKI MAZAK DANMARK A/S
DANMARK TECHNOLOGY CENTER
Odinsvej 7 4100 Ringsted, Denmark
Tel : +(45)4422-7707

YAMAZAKI MAZAK NEDERLAND B.V.
NETHERLAND TECHNOLOGY CENTER
Peppelkade 54 NL-3992 AK Houten, Netherlands
Tel : +(31)30 634 40 30

YAMAZAKI MAZAK ITALIA S.r.l
ITALY TECHNOLOGY CENTER
Via J.F. Kennedy 16
20023 Cerro Maggiore Milan, Italy
Tel : +(39)0331-575800

YAMAZAKI MAZAK CENTRAL EUROPE s.r.o.
TECHNOLOGY CENTER CZECH REPUBLIC
Zdebradska 96, 251 01 Ricany,
Jazlovice, Czech Republic
Tel : +(420)226 21 1131



YAMAZAKI MAZAK CENTRAL EUROPE s.r.o.
POLAND TECHNOLOGY CENTER
 Trasa Renców 33, 40-865 Katowice, Poland
 Tel : +(48)32 350 04 60

YAMAZAKI MAZAK CENTRAL EUROPE s.r.o.
POZNAN TECHNOLOGY CENTER
 ul. Pokrzywno 4A 61-315 Poznań, Poland
 Tel : +(48) 61 877 17 33/28

YAMAZAKI MAZAK CENTRAL EUROPE s.r.o.
HUNGARY TECHNOLOGY CENTER
 2038 Sósút Banki Donat u. 1. Hungary
 Tel : +(36)23 920 480

YAMAZAKI MAZAK Turkey Makina Ltd. Sti.
TURKEY TECHNOLOGY CENTER
 SOGANLIK MEVKII, E5 YANYOL UZERI,
 KANUNI SOKAK, NO:3,34880
 KARTAL - ISTANBUL/ TURKEY
 Tel : +(90)216 309 2100

YAMAZAKI MAZAK LLC
RUSSIA TECHNICAL CENTER
 Russia, 117105, Moscow
 Varshavskoe Shosse 1, stroenie 17
 Tel : +(7)495 210 89 89

**NORTH, CENTRAL
 and SOUTH AMERICA**

MAZAK CORPORATION
 (HEADQUARTERS, MANUFACTURING PLANT,
 NATIONAL TECHNOLOGY CENTER & Mazak
 Customer Service and Support Center)
 8025 Production Drive, Florence KY 41042
 Tel : +(1)859-342-1700

MAZAK NORTHEAST TECHNOLOGY CENTER
 700 Old County Circle, Windsor Locks, CT 06096
 Tel : +(1)860-292-4400

MAZAK SOUTHEAST TECHNOLOGY CENTER
 1075 Northbrook Parkway,
 Suwanee, GA 30024-2931
 Tel : +(1)678-985-4400

MAZAK MIDWEST TECHNOLOGY CENTER
 300 East Commerce Drive, Schaumburg,
 IL 60173
 Tel : +(1)847-885-8311

MAZAK SOUTHWEST TECHNOLOGY CENTER
 10950 Greenbend Blvd. Houston, Texas 77067
 Tel : +(1)281-931-7770

MAZAK WESTERN TECHNOLOGY CENTER
 1333 West 190th Street, Gardena, CA 90248
 Tel : +(1)310-327-7172

MAZAK DALLAS TECHNICAL CENTER
 935 South Kimball, Suite 151, Southlake,
 Texas 76092
 Tel : +(1)817-329-6290

MAZAK OPTONICS CORPORATION
CHICAGO OPTONICS TECHNOLOGY CENTER
 2725 Galvin Court, Elgin, Illinois 60124
 Tel : +(1)847-252-4500

MAZAK CANADA TECHNOLOGY CENTER
 50 Commerce Court, Cambridge,
 Ontario, Canada N3C 4P7
 Tel : +(1)519-658-2021

MAZAK MEXICO, S.A. DE C.V.
MEXICO TECHNOLOGY CENTER
 AV. Spectrum No.100 Parque Industrial Finsa
 Monterrey, Apodaca, N.L. 66600 Mexico
 Tel : +(52)818-221-0910

MAZAK SULAMERICANA LTDA.
BRAZIL TECHNOLOGY CENTER
 RUA VASCO DA GAMA, 100
 BAIRRO CHÁCARAS DO TREVÓ
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