

# Machine Tools

A series of five horizontal blue lines of varying lengths, stacked vertically, serving as a decorative element for the list items.

Multitasking Machines /  
5-Axis Machining Centers

CNC Lathes

Machining Centers

Grinders

IT / CNC

A large, abstract graphic at the bottom of the page consisting of several overlapping, flowing blue lines that create a sense of motion and depth, set against a dark blue background.

## Okuma is a comprehensive machine tool manufacturer that provides support for production sites worldwide

Okuma is a comprehensive machine tool manufacturer which produces not only multitasking machines, lathes, machining centers and grinders, but also control systems and peripheral equipment.

Okuma has provided machine tools at the forefront of a wide variety of industrial fields over our long history. During this time, we have faced a variety of issues in the field, together with our customers, developed a wider range of models and products, and grown into a comprehensive manufacturer of machine tools used at production sites throughout the world.

As a trusted brand, we will work to further refine the quality of our products and services, backed by our advanced technologies, in order to continue to earn the support of our customers.



## “M-E-I-K Merging” technologies add information technology and knowledge creation to machines and electronics

Soliciting the most out of the high potential of machine tools requires not only a CNC, but also the combination of motors, encoders and other units in their best state. At Okuma we have achieved high performance and the best balance in control by developing all of these units in-house.

Okuma’s Single Source for M-E-I-K (Mechanics - Electronics - IT - Knowledge) DNA has been cultivated over a history of more than a century since the company was founded, and passed on to each generation.

We will continue to work for future-oriented value creation with Premium Solutions produced by “M-E-I-K Merging” technologies.



## Okuma's Intelligent Technologies which directly contribute to improving customer productivity



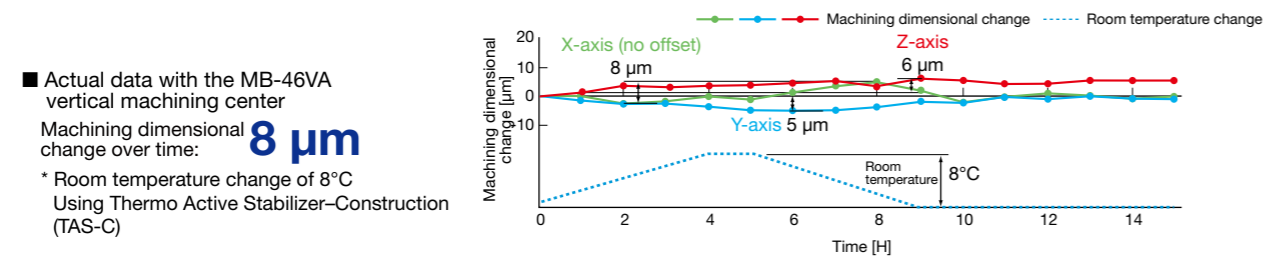
On machine shop floors there are many issues that can hinder accuracy and production efficiency. Examples include thermal deformation of the machine from temperature changes and misalignment of axes in multi-axis machining. Interference or collision of machine moving parts, chatter vibration when cutting—these phenomena have been accepted unavoidable.

However, we believe that overcoming these issues is the mission of the machine tool manufacturer. Okuma helps customers to improve productivity with intelligent technology originating from a Single Source for M-E-I-K (Mechanics - Electronics - IT - Knowledge).

## Realization of high precision through Intelligent Technologies

### Manageble Deformation — Accurately Controlled Thermo-Friendly Concept

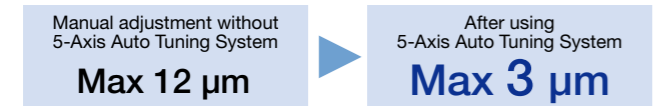
Changes in the ambient temperature around machines and heat generated during cutting have a serious effect on machining accuracy. Okuma therefore uses a machine design that adapts to these temperature changes for better control of thermal deformation. By checking the machine dimensions at startup, the need for compensation thereafter can be greatly reduced.



### Gauging and compensation of geometric error 5-Axis Auto Tuning System

Geometric error such as milling spindle misalignment often occurs on 5-axis machines cutting multiple surfaces with inclined machining axes. In the past much time has been needed to make manual corrections for four types of geometric error manually; now, with the 5-Axis Auto Tuning System, measurement and auto compensation for up to 11 types of error is done in only 10 minutes.

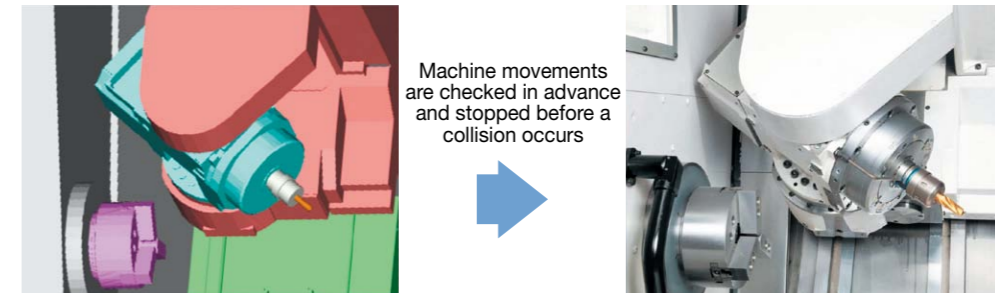
Actual data with the MU-6300V 5-axis vertical machining center  
Maximum machining surface error in multi-sided machining



## Improved ease of use with Intelligent Technologies

### Collision prevention Collision Avoidance System

The risk of collisions inside the machine increases in multi-surface machining with complex movements. We therefore developed a collision avoidance function utilizing advanced control technologies. This function stops the machine operation immediately before a collision in both automatic and manual operation as the world's first "Collision-Free Machines." This allows anyone to focus on machining without worry, and greatly reduces the time required for setup and first part cycle times.



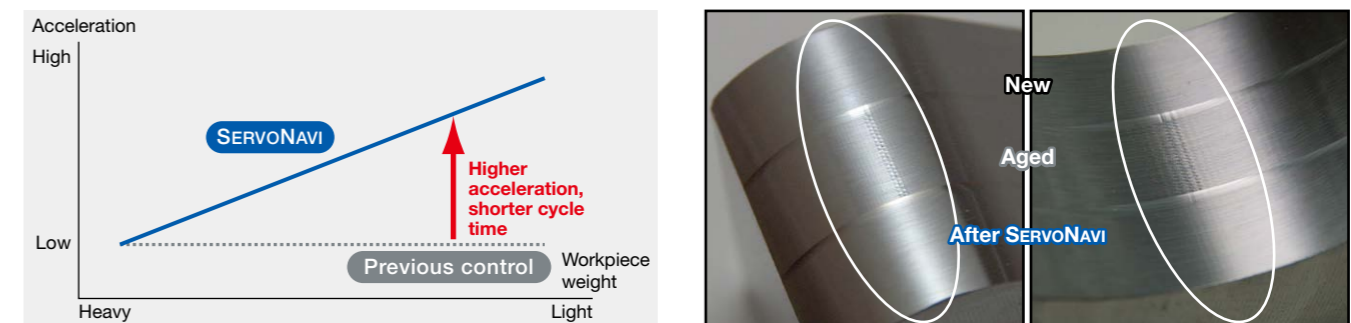
### Cutting condition search Machining Navi

Rotation speed can't be increased due to worries about occurrence of chatter. Machining Navi solves this worry. It finds the optimal machining conditions by utilizing superior detection and control functions. This contributes not only to surface refinement, but also reduction of processing time, improvement of productivity, longer usable life for tools and consolidation of work processes.



### Optimized Servo Control SERVONAVI

Machining accuracy and surface quality are improved with automatic optimization of servo control. This makes it possible to increase acceleration and reduce machining time, especially on machining centers. It can also immediately eliminate the reversal spikes, noise, vibration, crease marks, and "fish scales" that occur with long machine use over many years, maintaining long-term accuracy and stable movements.



# Okuma's product lineup responds to diverse needs

## Super Multitasking Machines

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MULTUS U3000 LASER EX  
MULTUS U4000 LASER EX



MU-5000V LASER EX  
MU-6300V LASER EX  
MU-8000V LASER EX

## 5-Axis Machining Centers / Multitasking Machines

P10

5-Axis Vertical Machining Centers



MU-4000V  
MU-5000V

P11



MU-S600V



MU-400V II

P12

5-Axis Horizontal Machining Center



MU-10000H

Large 5-Axis Machining Centers



MILLAC 800VH  
MILLAC 1000VH

5-Axis High-Speed Blade Machine



BLADE T400

P13

Intelligent Multitasking Machines



MULTUS U3000  
MULTUS U4000  
MULTUS U5000

P14



MULTUS B200II  
MULTUS B250II  
MULTUS B300II  
MULTUS B400II

P15

Horizontal Multitasking Machine



MACTURN550

Double-Column Multitasking Machines



VTR-160A  
VTR-350A

P16

5-Axis Vertical Multitasking Machines



VTM-1200YB  
VTM-2000YB  
VTM-80YB

Vertical Multitasking Machines



VTM-65  
VTM-100  
VTM-200

## CNC Lathes

P18

1-Saddle CNC Lathes



LB2000 EX II  
LB3000 EX II  
LB4000 EX II  
LB2500 EX II\*

P19



GENOS L250II-e  
GENOS L400II-e  
GENOS L2000-e  
GENOS L3000-e  
GENOS L300-M-e



HJ-250\*



HL-20\*  
HL-35\*

P20

Twin Spindle Turning Centers



LT2000 EX  
LT3000 EX

2-Saddle CNC Lathes



LU3000 EX  
LU4000 EX  
LU7000 EX

P21

Vertical Lathes



V760EX  
V920EX  
V40R  
V100R



2SP-V760EX  
2SP-V40



SV250\*

P22

Parallel Spindle CNC Lathes



2SP-150H  
2SP-250H  
2SP-10HG\*  
2SP-35HG\*

Aluminum Wheel Applications



LAW-2S  
LAW-V24  
LAW-FII

## Machining Centers

P24

Vertical Machining Centers



MB-46VA/B  
MB-56VA/B  
MB-66VA/B



MF-46VA/B



MP-46V



GENOS M460-VE-e  
GENOS M560-V-e



MA-550VB  
MA-650VB



MILLAC 44V II \*  
MILLAC 468V II \*  
MILLAC 561V II \*



MILLAC 611V II  
MILLAC 761V II



MILLAC 852V II  
MILLAC 1052V II

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Horizontal Machining Centers



MA-500HII  
MA-600HII



MA-400HA  
MA-800HB



MA-12500H



MB-4000H  
MB-5000H  
MB-8000H  
MB-10000H



MILLAC 44HII \*  
MILLAC 55HII \*

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Double-Column Machining Centers (5-Sided Applications)



MCR-A5CII



MCR-BIII



MCR-C

Double-Column Machining Centers



MCV-AII



MCR-AF

## Grinders

P30

CNC Cylindrical Grinders



GA14/15W  
GP14/15W



GA25/26W  
GP25/26W



GA-34/44FII  
GP-34/44FII



GA-36/47FII  
GP-36/47FII

CNC Internal Grinders



GI-2N-SP\*



GI-10NII  
GI-20NII

## IT/CNC

P31

Next-Generation Intelligent CNC



OSP-P300A  
OSP suite

P32

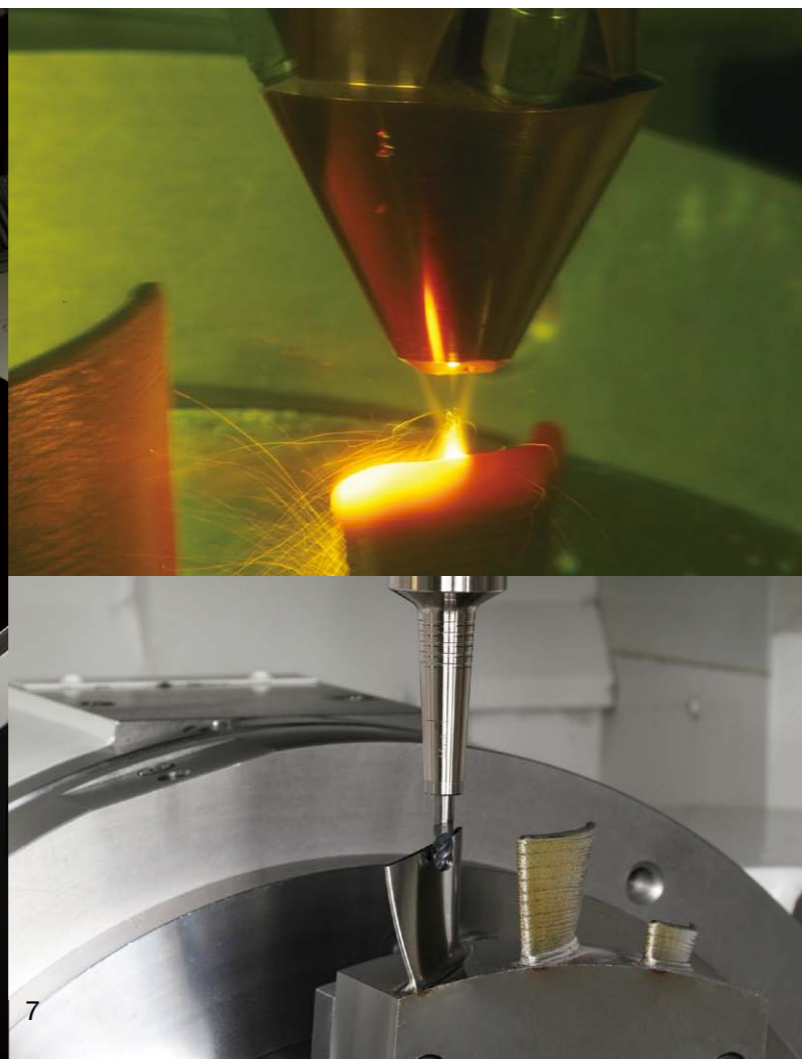
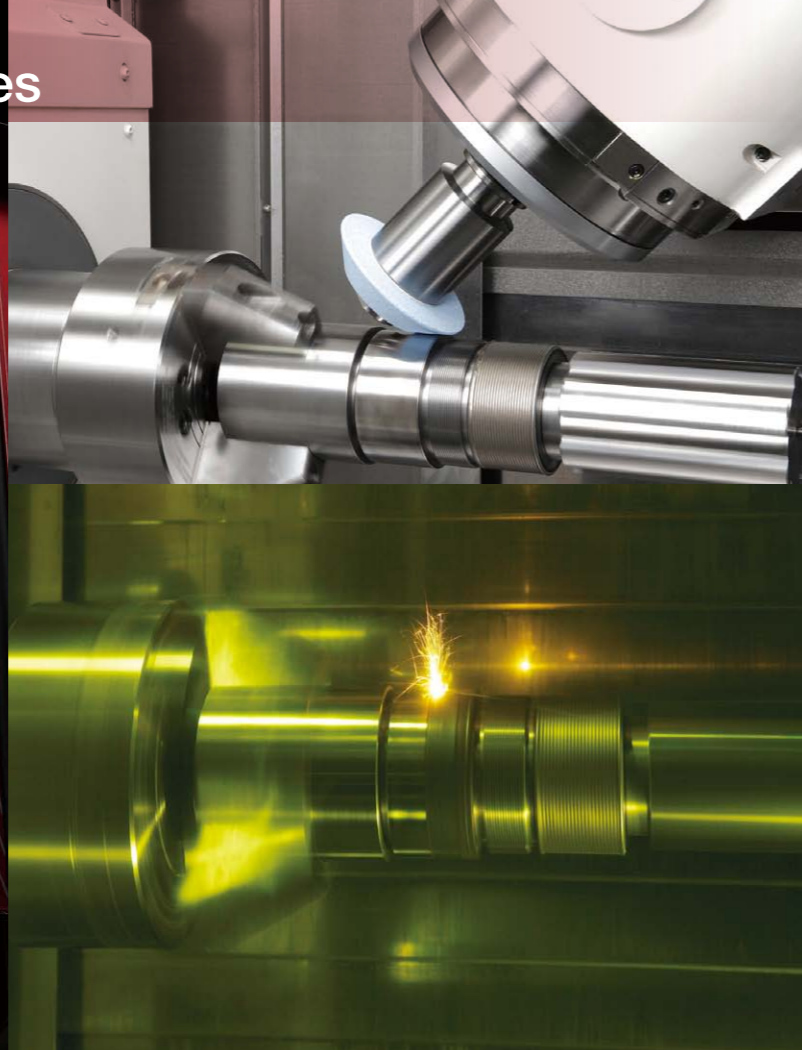
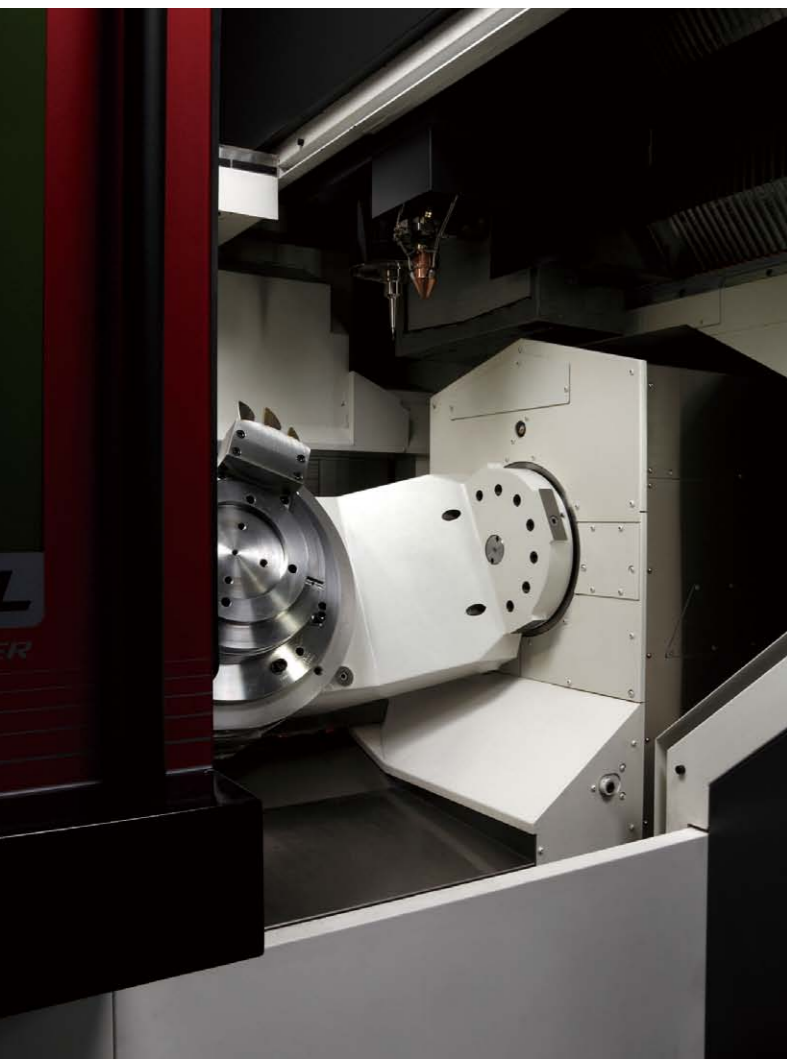
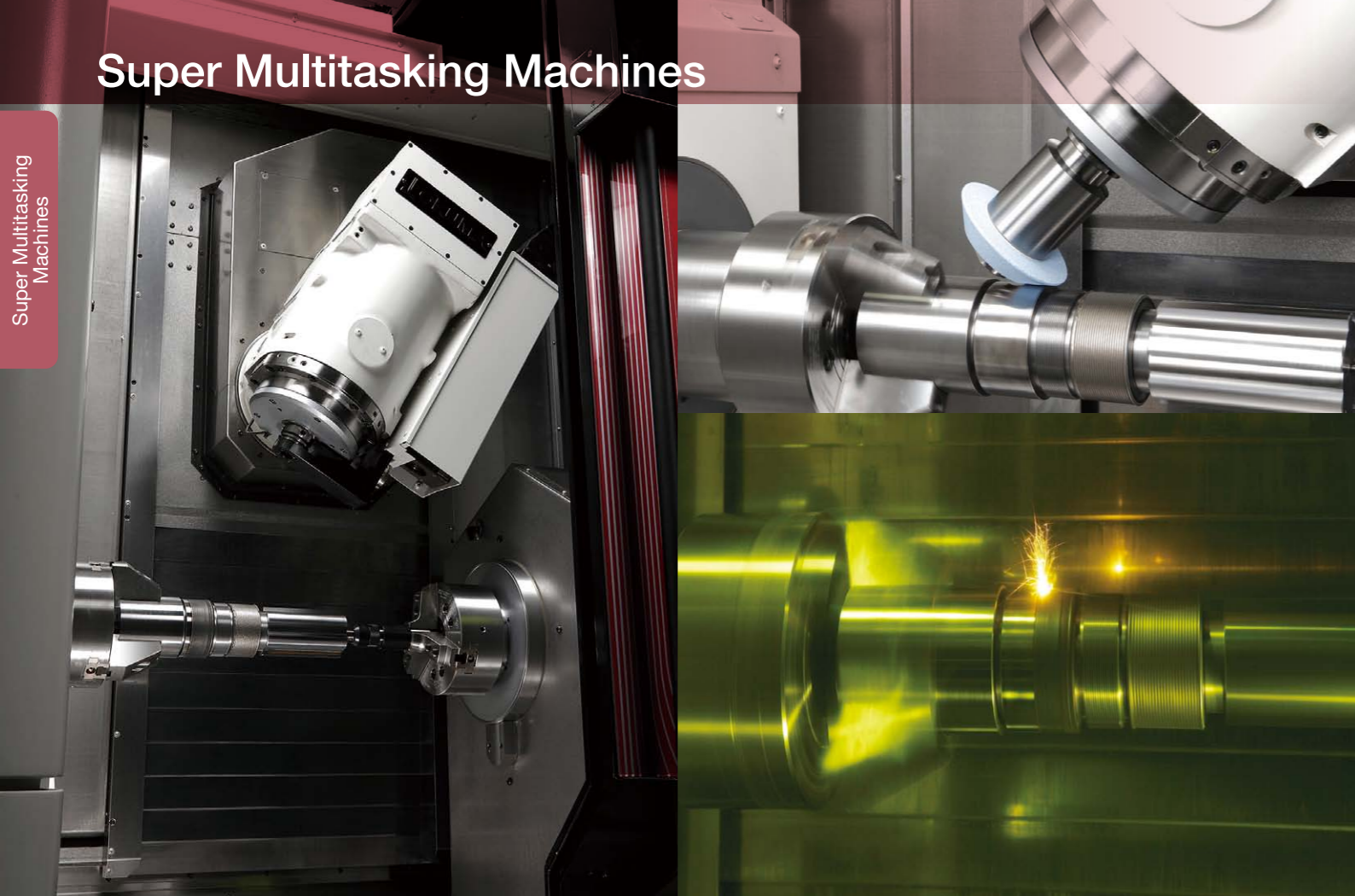
CAD/CAM System for Parts Machining

ADMAC-Parts  
[With 3D Virtual Monitor]

\* Not available with CE conformity certification.

# Super Multitasking Machines

Super Multitasking Machines



## Super Multitasking Machines

### LASER EX series

Going beyond conventional machine tools, doing the all of metalworking

The laser technology infused in these super multitasking machines (LASER EX Series) combine subtractive and additive manufacturing, hardening, and coating of workpiece blanks to the final product—done on one machine—the ultimate process-intensive machine.



**MULTUS  $\varnothing$ 3000 LASER EX**  
**MULTUS  $\varnothing$ 4000 LASER EX**



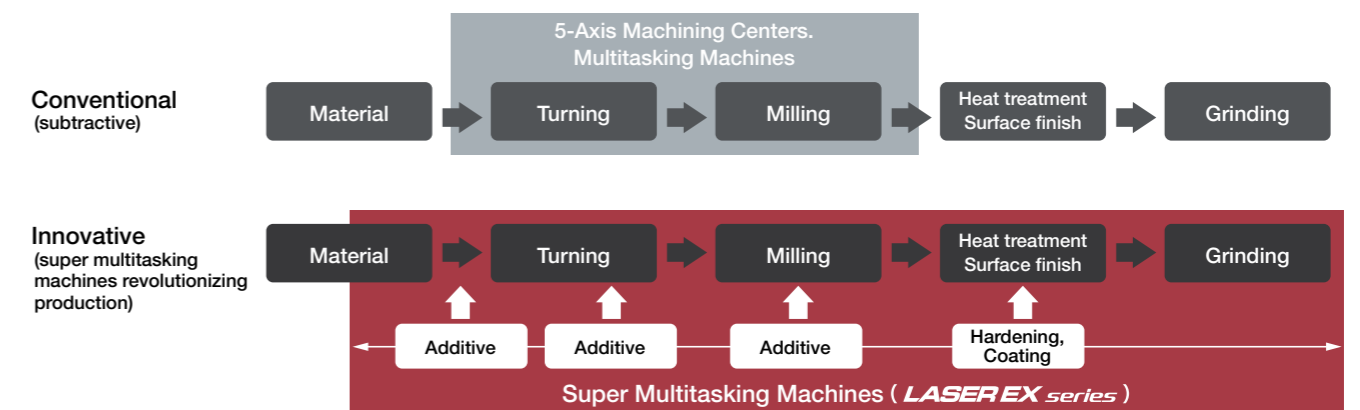
**MU-5000V LASER EX**  
**MU-6300V LASER EX**  
**MU-8000V LASER EX**

Handles workpieces of various sizes and shapes

Examples



**[LASER EX series produces manufacturing innovations]**



Super Multitasking Machines

# 5-Axis Machining Centers / Multitasking Machines

5-Axis Machining Centers  
Multitasking Machines



## 5-Axis Vertical Machining Centers

**UNIVERSAL CENTER *MU-V series***  
MU-4000V / MU-5000V / MU-6300V / MU-8000V



5-Axis Machining Centers  
Multitasking Machines



		MU-4000V	MU-5000V	MU-6300V	MU-8000V
Table size	mm (in.)	ø400 (ø15.75)	ø500 (ø19.69)	ø630 (ø24.80)	ø800 x 630 width (ø31.50 x 24.80)
Spindle speed	min <sup>-1</sup>	15,000	10,000, 6,000	10,000, 6,000	10,000, 6,000
Tool storage	tools	32	32	32	32
Motor	kW (hp)	VAC 22/18.5 (10 min/cont) (30/25)	VAC 11/7.5 (10 min/cont) (15/10)	VAC 11/7.5 (10 min/cont) (15/10)	VAC 11/7.5 (10 min/cont) (15/10)
Machine size (W x D x H)	mm (in.)	2,400 x 3,250 x 2,950 (94.49 x 127.95 x 116.14)	3,995 x 2,750 x 3,435 (157.28 x 108.27 x 135.24)	4,850 x 2,990 x 3,525 (190.94 x 117.72 x 138.78)	5,280 x 2,990 x 3,625 (207.87 x 117.72 x 142.72)
Spec extension		L	L	L	L

L: Turning specification

## 5-Axis Vertical Machining Centers

### MU-S600V

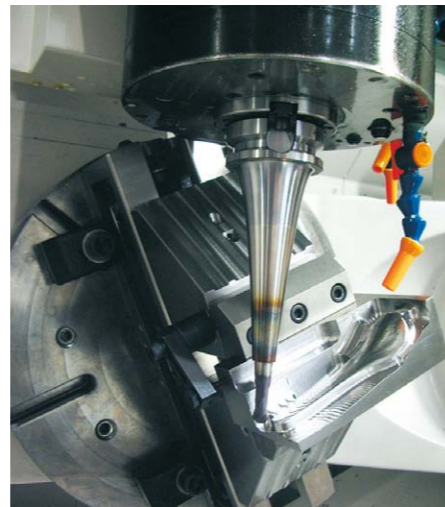


Specifications for single machine

Specifications for 2 connected machines

		MU-S600V
Table size	mm (in.)	400 × 400 (15.75 × 15.75)
Spindle speed	min <sup>-1</sup>	12,000
Tool storage	tools	16
Motor	kW (hp)	15/11 (25%ED/cont) (20/15)
Machine size (W × D × H)	mm (in.)	1,400 × 3,315 × 2,994 (55.12 × 130.51 × 117.87)

### UNIVERSAL CENTER MU-400V II



		MU-400V II
Table size	mm (in.)	ø400 (ø15.75)
Spindle speed	min <sup>-1</sup>	8,000
Tool storage	tools	20
Motor	kW (hp)	VAC 11/7.5 (10 min/cont) (15/10)
Machine size (W × D × H)	mm (in.)	2,160 × 2,810 × 2,946 (85.04 × 110.63 × 115.98)

## 5-Axis Horizontal Machining Center

### UNIVERSAL CENTER MU-10000H



		MU-10000H
Pallet size	mm (in.)	1,000 × 1,000 (39.37 × 39.37)
Max workpiece dimensions	mm (in.)	ø1,500 × 1,125 (ø59.06 × 44.29)
Spindle speed	min <sup>-1</sup>	6,000
Tool storage	tools	81
Motor	kW (hp)	VAC 45/37 (20 min/cont) (60/50)
Machine size (W × D × H)	mm (in.)	6,880 × 10,830 × 3,580 (270.87 × 426.38 × 140.94)

## Large 5-Axis Machining Centers

### MILLAC VH series

MILLAC 800VH / MILLAC 1000VH



		MILLAC 800VH	MILLAC 1000VH
Table size	mm (in.)	800 × 800 (31.50 × 31.50)	1,000 × 1,000 (39.37 × 39.37)
Spindle speed	min <sup>-1</sup>	10,000	6,000
Tool storage	tools	80	40
Motor	kW (hp)	VAC 22/18.5 (15 min/cont) (30/25)	VAC 22/18.5 (30 min/cont) (30/25)
Machine size (W × D × H)	mm (in.)	4,800 × 6,400 × 3,650 (188.98 × 251.97 × 143.70)	5,228 × 7,117 × 4,455 (205.83 × 280.20 × 175.39)
CNC		OSP / FANUC	OSP / FANUC

## 5-Axis High-Speed Blade Machine

### BLADE T400



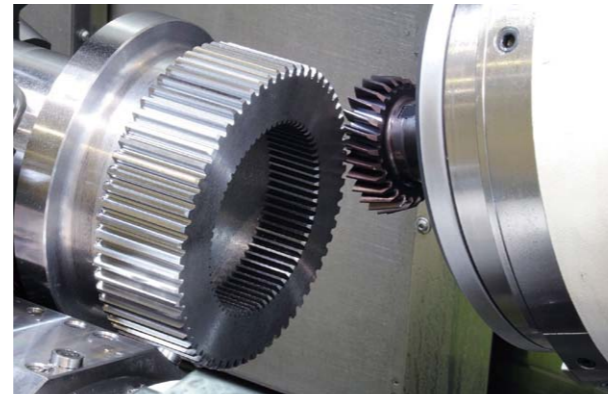
		BLADE T400
Max turning dia	ømm (in.)	400 (Max swing) (15.75)
Max work length	mm (in.)	1,500 (59.06)
Spindle speed	min <sup>-1</sup>	18,000
Tool storage	tools	40
Motor	kW (hp)	VAC 38/28 (30 min/cont) (51/37)
Machine size (W × D × H)	mm (in.)	6,750 × 3,236 × 3,065* (265.74 × 127.40 × 120.67)

\* Does not include coolant tank

## Intelligent Multitasking Machines

### MULTUS *Q* series

MULTUS U3000 / MULTUS U4000 / MULTUS U5000



		MULTUS U3000	MULTUS U4000	MULTUS U5000
Standard chuck size	in.	8	10	15
Max machining dia	ømm (in.)	650 (25.59)	650 (25.59)	650 (25.59)
Max work length	mm (in.)	1,000, 1,500 (39.37, 59.06)	1,500, 2,000 (59.06, 78.74)	1,500, 2,000 (59.06, 78.74)
Spindle speed	min <sup>-1</sup>	5,000	4,200	3,000
Tool storage	tools	40	40	40
Motor	kW (hp)	VAC 22/15 (30 min/cont) (30/20)	PREX 22/15 (30 min/cont) (30/20)	PREX 37/30 (30 min/cont) (50/40)
Machine size (W × D × H)	mm	4,925 × 2,995 × 2,955 (193.89 × 117.91 × 116.34)	5,425 × 2,995 × 2,955 (213.58 × 117.91 × 116.34)	5,530 × 2,995 × 2,955 (217.72 × 117.91 × 116.34)
	in.	5,425 × 2,995 × 2,955 (213.58 × 117.91 × 116.34)	6,175 × 2,995 × 2,955 (243.11 × 117.91 × 116.34)	6,280 × 2,995 × 2,955 (247.24 × 117.91 × 116.34)
Spec extension		W, 2S, 2SW	W, 2S, 2SW	W, 2S, 2SW

W: Opposing spindle, 2S: 2 saddle

## Intelligent Multitasking Machines

### MULTUS *BII* series

MULTUS B200II / MULTUS B250II / MULTUS B300II / MULTUS B400II



		MULTUS B200 II	MULTUS B250 II	MULTUS B300 II	MULTUS B400 II
Standard chuck size	in.	6	8	8	10
Max machining dia	ømm (in.)	600 (23.62)	600 (23.62)	630 (24.80)	710 (27.95)
Max work length	mm (in.)	550, 750 (21.65, 29.53)	750 (29.53)	900 (35.43)	1,500, 2,000 (59.06, 78.74)
Spindle speed	min <sup>-1</sup>	6,000	5,000	5,000	3,800
Tool storage	tools	20	20	20	20
Motor	kW (hp)	PREX 11/7.5 (20 min/cont) (15/10)	VAC 22/15 (30 min/cont) (30/20)	VAC 15/11 (20 min/cont) (20/15)	VAC 22/15 (50% ED/cont) (30/20)
Machine size (W × D × H)	mm	3,080 × 2,210 × 2,582 (121.26 × 87.01 × 101.65)	3,620 × 2,210 × 2,582 (142.52 × 87.01 × 101.65)	4,035 × 2,257 × 2,587 (158.86 × 88.86 × 101.85)	5,750 × 2,693 × 3,000 (226.38 × 106.02 × 118.11)
	in.	3,620 × 2,210 × 2,582 (142.52 × 87.01 × 101.65)	4,035 × 2,257 × 2,587 (158.86 × 88.86 × 101.85)	7,050 × 2,693 × 3,137 (277.56 × 106.02 × 123.50)	
Spec extension		W	W	W	W

W: Opposing spindle

### MULTUS *B* series

MULTUS B550 / MULTUS B750



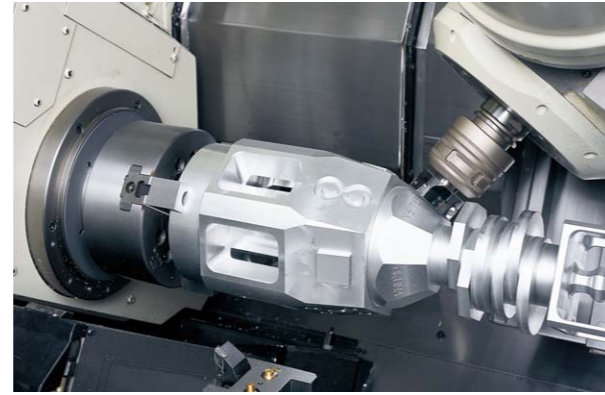
		MULTUS B550	MULTUS B750
Standard chuck size	in.	15	15
Max machining dia	ømm (in.)	830 (32.68)	1,050 (41.34)
Max work length	mm (in.)	2,000, 3,000 (78.74, 118.11)	3,000, 4,000, 6,000 (118.11, 157.48, 236.22)
Spindle speed	min <sup>-1</sup>	3,000	2,000
Tool storage	tools	40	40
Motor	kW (hp)	PREX 37/30 (30 min/cont) (50/40)	VAC 37/30 (30 min/cont) (50/40)
Machine size (W × D × H)	mm	8,030 × 3,258 × 3,307 (316.14 × 128.27 × 130.20)	9,130 × 3,532 × 3,557 (359.45 × 139.06 × 140.04)
	in.	9,130 × 3,258 × 3,307 (359.45 × 128.27 × 130.20)	10,565 × 3,532 × 3,607 (415.55 × 139.06 × 142.01)
Spec extension		W	W

W: Opposing spindle



## Multitasking Machine

### MACTURN 550



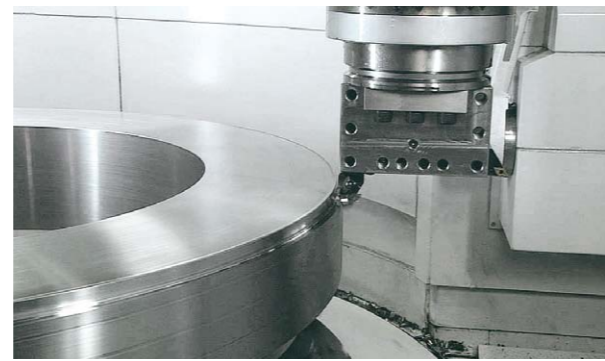
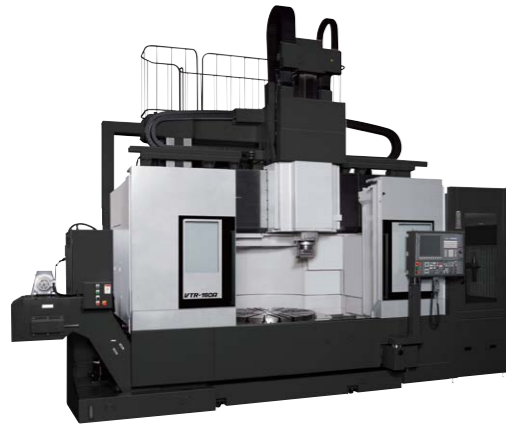
MACTURN 550		
Standard chuck size	in.	12
Max machining dia	ømm (in.)	720 (28.35)
Max work length	mm (in.)	2,100, 3,100 (82.68, 122.05)
Spindle speed	min <sup>-1</sup>	3,500
Tool storage	tools	32
Motor	kW (hp)	VAC30/25 (20 min/cont) (40/33)
Machine size (W x D x H)	mm (in.)	6,150 x 3,073 x 3,105 (242.13 x 120.98 x 122.24) 7,150 x 3,073 x 3,105 (281.50 x 120.98 x 122.24)
Spec extension		W, 2S

W: Opposing spindle, 2S: 2 saddle

## Double-Column Multitasking Machines

### VTR-A series

VTR-160A / VTR-350A



		VTR-160A	VTR-350A
Maximum table size	ømm (in.)	1,250 (49.21)	3,200 (125.98)
Max machining dia	ømm (in.)	1,600 (Max swing) (62.99)	3,500 (Max swing) (137.80)
Max work length (height)	mm (in.)	1,250 (49.21)	1,600 (62.99)
Spindle speed	min <sup>-1</sup>	400	160
Tool storage	tools	23	23
Motor	kW (hp)	VAC 45/37 (30 min/cont) (60/50)	VAC 55/45 (30 min/cont) (75/60)
Machine size (W x D x H)	mm (in.)	6,550 x 3,693 x 5,000 (257.87 x 145.39 x 196.85)	8,615 x 5,374 x 6,100 (339.17 x 211.57 x 240.16)

## 5-Axis Vertical Multitasking Machines

### VTM-YB series

VTM-1200YB / VTM-2000YB / VTM-80YB



		VTM-1200YB	VTM-2000YB	VTM-80YB
Applicable chuck sizes	in.	36, 40	—	28, 32
Maximum table size	ømm (in.)	1,250 (49.21)	2,000 (78.74)	915 (36.02)
Max machining dia	ømm (in.)	1,200 (47.24)	2,000 (78.74)	800 (31.50)
Max work length (height)	mm (in.)	1,080 (42.52)	1,400 (55.12)	1,135 (44.69)
Spindle speed	min <sup>-1</sup>	500	300	800
Tool storage	tools	36	36	36
Motor	kW (hp)	VAC 30/22 (30 min/cont) (40/30)	VAC 30/22 (30 min/cont) (40/30)	VAC 30/22 (30 min/cont) (40/30)
Machine size (W x D x H)	mm (in.)	5,512 x 5,471 x 4,273 (217.01 x 215.39 x 168.23)	5,970 x 6,973 x 4,967 (235.04 x 274.53 x 195.55)	5,256 x 4,860 x 4,350 (206.93 x 191.34 x 171.26)
CNC		OSP / FANUC	OSP / FANUC	OSP / FANUC

## Vertical Multitasking Machines

### VTM series

VTM-65 / VTM-100 / VTM-200



		VTM-65	VTM-100	VTM-200
Applicable chuck sizes	in.	18, 21, 24	24, 28, 32, 36	—
Maximum table size	ømm (in.)	610 (24.02)	915 (36.02)	2,000 (78.74)
Max machining dia	ømm (in.)	650 (25.59)	1,000 (39.37)	2,000 (78.74)
Max work length (height)	mm (in.)	635 (25.00)	840 (33.07)	1,200 (47.24)
Spindle speed	min <sup>-1</sup>	1,250	1,250	200
Tool storage	tools	36	36	36
Motor	kW (hp)	VAC 30/22 (30 min/cont) (40/30)	VAC 30/22 (30 min/cont) (40/30)	VAC 30/22 (30 min/cont) (40/30)
Machine size (W x D x H)	mm (in.)	4,001 x 2,990 x 4,000 (157.52 x 117.72 x 157.48)	4,286 x 3,175 x 4,300 (168.74 x 125.00 x 169.29)	5,561 x 5,258 x 4,603 (218.94 x 207.01 x 181.22)
CNC		OSP / FANUC	OSP / FANUC	OSP / FANUC



CNC Lathes

## 1-Saddle CNC Lathes

### SPACE TURN **LB EX II series**

LB2000 EX II / LB3000 EX III  
LB4000 EX II / LB2500 EX III



		LB2000 EX II	LB3000 EX III	LB4000 EX II	LB2500 EX III
Standard chuck size	in.	6	8	10	8
Max turning dia	ømm (in.)	430 (16.93)	410 (16.14)	480 (18.90)	410 (16.14)
Max work length	mm (in.)	300, 500 (11.81, 19.69)	500, 1,000, 1,300 (19.69, 39.37, 51.18)	750, 1,500, 2,150 (29.53, 59.06, 84.65)	150 (5.91)
Spindle speed	min <sup>-1</sup>	6,000	5,000	4,200	5,000
Turret		V12	V12	V12	V12
Motor	kW (hp)	PREX 11/7.5 (20 min/cont) (15/10)	VAC 22/15 (30 min/cont) (30/20)	PREX 30/22 (30 min/cont) (40/30)	VAC 22/15 (30 min/cont) (30/20)
Machine size (WxDxH)	mm (in.)	1,980 × 1,734 × 1,839 (77.95×68.27×72.40) 2,290 × 1,734 × 1,839 (90.16×68.27×72.40)	2,340 × 1,749 × 1,839 (92.13 × 68.86 × 72.40) 3,420 × 2,041 × 1,975 (134.65 × 80.35 × 77.76) 4,344 × 2,162 × 1,975 (171.02 × 85.12 × 77.76)	3,050 × 1,900 × 1,955 (120.08 × 74.80 × 76.97) 4,175 × 2,390 × 2,157 (164.37 × 94.09 × 84.92) 5,515 × 2,505 × 2,005 (217.13 × 98.62 × 78.94)	1,880 × 1,734 × 1,770 (74.02 × 68.27 × 69.69)
Spec extension		M, W, MY, MW	M, W, MY, MW, MYW	M, MY	M

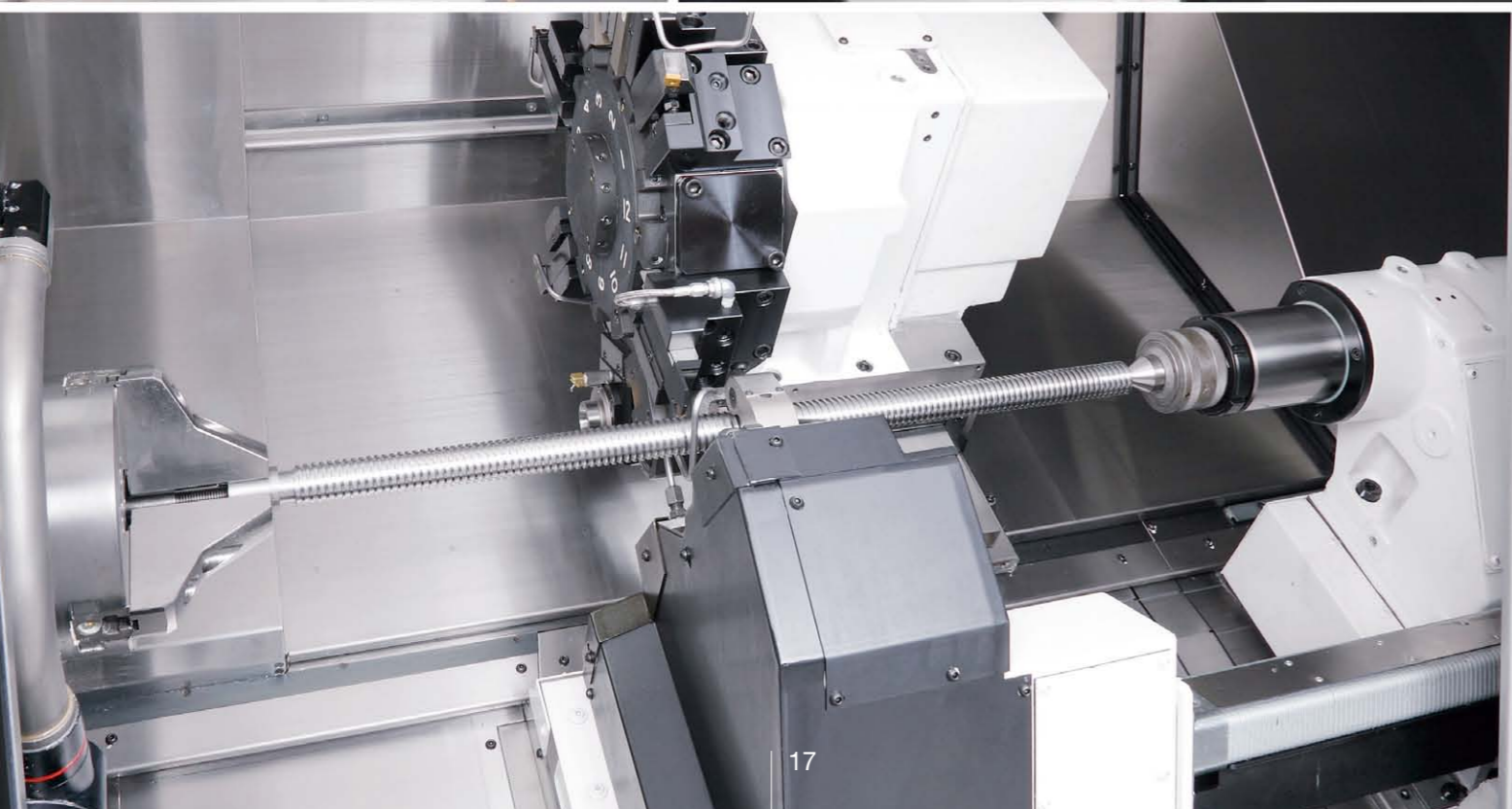
M: Milling, W: Sub-spindle, Y: Y-axis

### **LB35 III / LB45 III**



		LB35 III	LB45 III
Standard chuck size	in.	12	15
Max turning dia	ømm (in.)	460 (18.11)	660 (25.98)
Max work length	mm (in.)	850, 1,500, 2,000 (33.46, 59.06, 78.74)	1,000, 2,000, 3,000, 4,000 (39.37, 78.74, 118.11, 157.48)
Spindle speed	min <sup>-1</sup>	3,200	2,800
Turret		V12	V12
Motor	kW (hp)	VAC 30/22 (30 min/cont) (40/30)	VAC 37/30 (30 min/cont) (50/40)
Machine size (W × D × H)	mm (in.)	4,015 × 2,663 × 2,210 (158.07 × 104.84 × 87.01) 4,885 × 2,663 × 2,325 (192.32 × 104.84 × 91.54) 5,910 × 2,663 × 2,325 (232.68 × 104.84 × 91.54)	4,260 × 3,145 × 2,587 (167.72 × 123.82 × 101.85) 5,760 × 3,145 × 2,617 (226.77 × 123.82 × 103.03) 7,010 × 2,920 × 2,505 (275.98 × 114.96 × 98.62) 8,570 × 3,181 × 2,545 (337.40 × 125.24 × 100.20)
Spec extension		M	M, MY

M: Milling, Y: Y-axis



CNC Lathes

## 1-Saddle CNC Lathes

**GENOS L250II-e / GENOS L400II-e**  
**GENOS L2000-e / GENOS L3000-e**  
**GENOS L300-M-e**



**HJ-250 / HL series**

HL-20 / HL-35



	GENOS L250II-e*1	GENOS L400II-e*1	GENOS L2000-e*1	GENOS L3000-e*1	GENOS L300-M-e*1
Standard chuck size	in. 8	10	8	10	10
Max turning dia	ømm (in.) 280 (11.02)	390 (15.35)	280 (110.02)	390 (15.35)	300 (11.81)
Max work length	mm (in.) 290 (11.42)	500 (19.69)	290 (11.42)	500 (19.69)	450, 1,060 (17.72, 41.73)
Spindle speed	min <sup>-1</sup> 3,000	3,000	5,000	3,800	3,000
Turret	V8	V8	V8	V8	M-V12
Motor	kW (hp) 11/7.5/7.5 (15 min/30 min/cont) (15/10/10)	VAC 11/7.5 (30 min/cont) (15/10)	VAC 15/11 (20 min/cont) (20/15)	VAC 22/15 (20 min/cont) (30/20)	VAC 15/11 (30 min/cont) (20/15)
Machine size (W x D x H)	mm (in.) 1,482 <sup>2</sup> x 1,843 x 1,620 (58.35 x 72.56 x 63.78)	2,280 x 1,860 x 1,791 (89.76 x 73.23 x 70.51)	2,015 x 1,843 x 1,620 (79.33 x 72.56 x 63.78)	2,545 x 1,870 x 1,791 (100.20 x 73.62 x 70.51)	2,550 x 1,791 x 1,741 (100.39 x 70.51 x 68.54) 3,537 x 2,333 x 1,934 (139.25 x 91.85 x 76.14)
Spec extension				M	MY, MW, MYW

\*1 Specifications may vary in different markets. \*2 Cylinder cover not included.

M: Milling, W: Sub-spindle, Y: Y-axis

	HJ-250	HL-20	HL-35	LH55-N
Standard chuck size	in. 8	8	10	18
Max turning dia	ømm (in.) 280 (11.02)	350 (13.78)	350 (13.78)	1,000 (39.37)
Max work length	mm (in.) 330 (12.99)	460 (18.11)	610, 1,020 (24.02, 40.16)	2,000, 3,000, 4,000, 6,000 (78.74, 118.11, 157.48, 236.22)
Spindle speed	min <sup>-1</sup> 3,000	3,200	3,500	1,200
Turret	V8	V8	V12	V8, H6, H4
Motor	kW (hp) AC 7.5/5.5 (15 min/cont) (10/7.5)	AC 15/11 (30 min/cont) (20/15)	AC 18.5/15 (30 min/cont) (25/20)	VAC 45/37 (30 min/cont) (60/50)
Machine size (W x D x H)	mm (in.) 1,595 x 1,589 x 1,590 (62.80 x 62.56 x 62.60)	1,810 x 1,600 x 1,795 (71.26 x 62.99 x 70.67)	2,430 x 1,630 x 1,895 (95.67 x 64.17 x 74.61)	7,093 x 5,685 x 2,418 (279.25 x 223.82 x 95.20) 8,093 x 5,685 x 2,418 (318.82 x 223.82 x 95.20) 9,093 x 5,685 x 2,418 (357.99 x 223.82 x 95.20)
CNC	FANUC	FANUC	FANUC	OSP

**LH55-N**



## Twin Spindle Turning Centers

**TWIN STAR LT EX series**

LT2000 EX / LT3000 EX



	LT2000 EX	LT3000 EX
Standard chuck size	in. 6	8
Max turning dia	ømm (in.) 210 (8.27)	350 (13.78)
Max work length	mm (in.) 130 (5.12)	200 (7.87)
Spindle speed	min <sup>-1</sup> 6,000	5,000
Turret	U/L: M-V16	U/L: M-V16
Motor	kW (hp) L/R: VAC 11.5/7.5 (5 min/cont) (15/10)	L/R: VAC 22/15 (30 min/cont) (30/20)
Machine size (W x D x H)	mm (in.) 3,745 x 2,464 x 2,285 (147.44 x 97.01 x 89.96)	4,504 x 2,750 x 2,650 (177.32 x 108.27 x 104.33)
Spec extension	MY, 3T	MY, 3T

M: Milling, Y: Y-axis, 3T: 3-turret

## 2-Saddle CNC Lathes

**SIMUL TURN LU EX series**

LU3000 EX / LU4000 EX / LU7000 EX



	LU3000 EX	LU4000 EX	LU7000 EX
Standard chuck size	in. 8	10	21, 24
Max turning dia	ømm (in.) 410 (16.14)	480 (18.90)	U: 900, L: 670 (35.43, 26.38)
Max work length	mm (in.) 600, 1,000 (23.62, 39.37)	650, 1,250 (25.59, 49.21)	2,000 (78.74)
Spindle speed	min <sup>-1</sup> 5,000	4,200	1,500
Turret	U: V12, L: V8	U: V12, L: V10	U: V12, L: V10
Motor	kW (hp) VAC 22/15 (30 min/cont) (30/20)	PREX 22/15 (30 min/cont) (30/20)	VAC 45/37 (30 min/cont) (60/50)
Machine size (W x D x H)	mm (in.) 2,950 x 2,176 x 2,080 (116.14 x 85.67 x 81.89) 3,980 x 2,478 x 2,229 (156.69 x 97.56 x 87.76)	3,570 x 2,310 x 2,200 (140.55 x 90.94 x 86.61)	7,147 x 3,256 x 3,300 (281.38 x 128.19 x 129.92)
Spec extension	M, 2M, MY, W	M, MY	M

M: Upper multitasking turret, 2M: Upper and lower multitasking turret, Y: Y-axis, W: Sub-spindle

**LU35II / LU45II**



**LU-S1600 / SPL-200**



	LU35II	LU45II	LU-S1600	SPL-200
Standard chuck size	in. 12	15	8	8
Max turning dia	ømm (in.) 550 (21.65)	650 (25.59)	160 (6.30)	200 (7.87)
Max work length	mm (in.) 920, 1,570, 2,070 (36.22, 61.81, 81.50)	1,000, 2,000, 3,000 (39.37, 78.74, 118.11)	480, 550, 1,000 (18.90, 21.65, 39.37)	100 (3.94)
Spindle speed	min <sup>-1</sup> 3,200	2,800	4,000	4,000
Turret	U: V12, L: V10	U: V12, L: V10	U/L: V6	L/R: V8
Motor	kW (hp) VAC 30/22 (30 min/cont) (40/30)	VAC 37/30 (30 min/cont) (50/40)	VAC 11/7.5 (30 min/cont) (15/10)	AC 15/11 (30 min/cont) (20/15)
Machine size (W x D x H)	mm (in.) 4,535 x 2,872 x 2,590 (178.54 x 113.07 x 101.97) 5,185 x 3,040 x 2,590 (204.13 x 119.69 x 101.97) 5,935 x 3,095 x 2,590 (233.66 x 121.85 x 101.97)	4,750 x 3,340 x 3,042 (187.01 x 131.50 x 119.76)	2,913 x 1,980 x 2,054 (114.69 x 77.95 x 80.87)	1,550 x 1,935 x 2,015 (61.02 x 76.18 x 79.33)
Spec extension	M	M		
CNC			OSP / FANUC	FANUC

M: Upper multitasking turret

**LOC series**

LOC500 / LOC650



	LOC500	LOC650
Applicable chuck sizes	in. 15, 18, 24	33, 40
Max turning dia	ømm (in.) 660 (25.98)	650, 500 (25.98, 19.69)
Max work length	mm (in.) 1,990, 1,980, 1,930 (78.35, 77.95, 75.98)	1,750 (68.90)
Spindle speed	min <sup>-1</sup> 2,000, 1,500, 1,000	500, 350
Turret	U: V12, L: V10	U: V12, L: V8
Motor	kW (hp) 37/30, 45/37, 55/45 (50/40, 60/50, 75/60)	45/37 (60/50)
Machine size (W x D x H)	mm (in.) 6,060 x 3,205 x 3,042 (238.58 x 126.18 x 119.76) 6,160 x 3,205 x 3,042 (242.52 x 126.18 x 119.76)	7,055 x 3,129 x 2,843 (277.76 x 123.19 x 111.93)

## Vertical CNC Lathes

### V series

V760EX / V920EX  
V40R / V100R



### 2SP-V series

2SP-V760EX  
2SP-V40



		V760EX [2SP-V760EX]	V920EX	V40R [2SP-V40]	V100R
Applicable chuck sizes	in.	15, 18, 21, 24	24, 28, 32, 36	12, 15, 18	36, 40
Max turning dia	ømm (in.)	760 (29.92)	920 (36.22)	400 (15.75)	1,000 (39.37)
Max work length (height)	mm (in.)	770 (30.31)	860 (33.86)	450 (17.72)	890 (35.04)
Spindle speed	min <sup>-1</sup>	2,000	1,250	2,500	1,250
Turret		V12	V12	V12	V12
Motor	kW (hp)	VAC 30/22 (30 min/cont) (40/30)	VAC 30/22 (30 min/cont) (40/30)	VAC 22/18.5 (30 min/cont) (30/25)	VAC 30/22 (30 min/cont) (40/30)
Machine size (W × D × H)	mm (in.)	1,842 × 2,732 × 3,489 (72.52 × 107.56 × 137.36) [3,680 × 2,732 × 3,489] (144.88 × 107.56 × 137.36)	2,252 × 2,845 × 3,693 (88.66 × 112.01 × 145.39)	1,705 × 2,788 × 3,040 (67.13 × 109.76 × 119.69) [2,970 × 2,738 × 3,040] (116.93 × 107.80 × 119.69)	2,735 × 3,445 × 3,510 (107.68 × 135.63 × 138.19)
Spec extension		M	M, ATC	M	M
CNC		OSP / FANUC	OSP / FANUC	OSP / FANUC	OSP / FANUC

\*M: Milling specs

### SV250



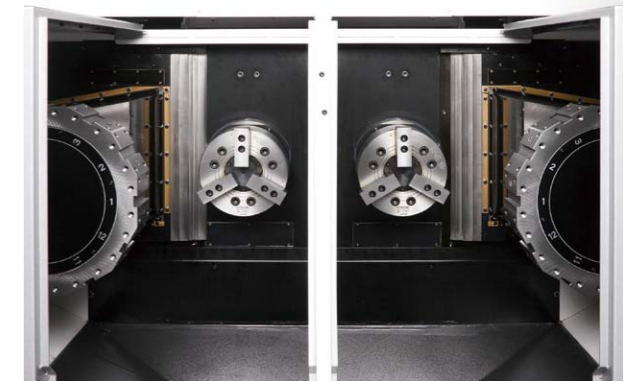
		SV250
Applicable chuck sizes	in.	8, 10
Max turning dia	ømm (in.)	250 (9.84)
Max work length (height)	mm (in.)	350 (13.78)
Spindle speed	min <sup>-1</sup>	6,000
Turret		V12
Motor	kW (hp)	VAC 15/11 (short time/cont) (20/15)
Machine size (W × D × H)	mm (in.)	950 × 2,600 × 2,445 (37.40 × 102.36 × 96.26)
Spec extension		M
CNC		OSP / FANUC

\*M: Milling specs

## Parallel Spindle CNC Lathes

### 2SP-H/HG series

2SP-150H / 2SP-250H  
2SP-10HG / 2SP-35HG



		2SP-150H	2SP-250H	2SP-10HG	2SP-35HG
Standard chuck size	in.	6	8	6	10
Max turning dia	ømm (in.)	150 [220]* (5.91 [8.66])	250 [350]* (9.84 [13.78])	100 (3.94)	380 (14.96)
Max work length	mm (in.)	80 [150]* (3.15 [5.91])	60 [200]* (2.36 [7.84])	100 (3.94)	230 (9.06)
Spindle speed	min <sup>-1</sup>	4,500	3,200	5,000	2,000
Turret		L/R: V12	L/R: V12	L/R: V8	L/R: V12
Motor	kW (hp)	VAC 11/7.5 (30 min/cont) × 2 (15/10)	VAC 18.5/15 (30 min/cont) × 2 (25/20)	VAC 7.5/5.5 (30 min/cont) × 2 (10/7.5)	VAC 18.5/15 (30 min/cont) × 2 (25/20)
Machine size (W × D × H)	mm (in.)	1,850 × 2,150 (machine only) (72.83 × 84.65) × 2,648 (max loader ht) (× 104.25)	2,300 × 2,625 (machine only) (90.55 × 103.35) × 3,093 (max loader ht) (× 121.77)	1,650 × 1,857 × 2,861 (64.96 × 73.11 × 112.64)	2,400 × 3,200 × 2,835 (94.49 × 125.98 × 111.61)
Spec extension		M	M	M	M
CNC		OSP / FANUC	OSP	FANUC	OSP / FANUC

\* Machine capacity without loader application

M: Milling

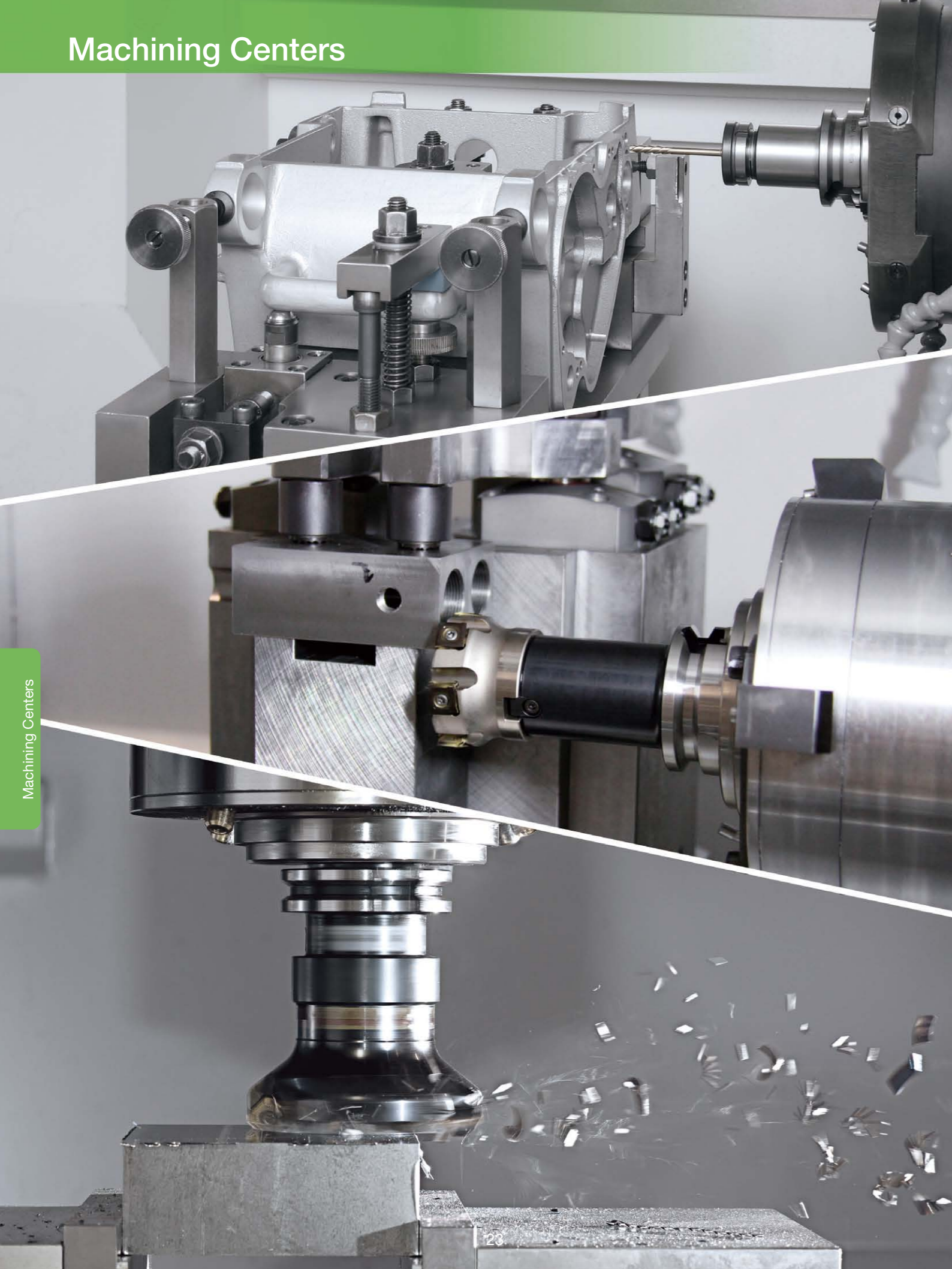
## Aluminum Wheel Applications

### LAW series

LAW-2S / LAW-V24 / LAW-FII



		LAW-2S	LAW-V24	LAW-FII
Max turning dia	ømm (in.)	U: 630, L: 480 (24.80, 18.90)	660 (25.98)	620 (24.41)
Max work length	mm (in.)		660 (25.98)	280 (11.02)
Spindle speed	min <sup>-1</sup>	3,000	3,000	3,000
Turret		U: V6, L: V4	L/R: V6	V12
Motor	kW (hp)	VAC 55/45 (20 min/cont) (75/60)	VAC 55/45 (20 min/cont) (75/60)	VAC 37/30 (30 min/cont) (50/40)
Machine size (W × D × H)	mm (in.)	4,973 × 2,580 × 2,850 (195.79 × 101.57 × 112.20)	3,650 × 3,720 × 3,881 (143.70 × 146.46 × 152.80)	3,522.2 × 2,800 × 2,250 (138.66 × 110.24 × 88.58)



## Vertical Machining Centers

### ACE CENTER *MB-V series*

MB-46VA / MB-46VB  
MB-56VA / MB-56VB  
MB-66VA / MB-66VB



Vertical Machining Centers with 2P-APC

### ACE CENTER *MF-V series*

MF-46VA / MF-46VB



		MB-46VA/B	MB-56VA/B	MB-66VA/B	MF-46VA/B
Table size	mm (in.)	760 x 460 (29.92 x 18.11)	1,300 x 560 (51.18 x 22.05)	1,530 x 660 (60.24 x 25.98)	760 x 460 (Pallet size) (29.92 x 18.11)
Spindle speed	min <sup>-1</sup>	8,000 / 6,000	8,000 / 6,000	8,000 / 6,000	8,000 / 6,000
Tool storage	tools	20	20	20	20
Motor	kW (hp)	VAC 11/7.5 (10 min/cont) (15/10)	VAC 11/7.5 (10 min/cont) (15/10)	VAC 11/7.5 (10 min/cont) (15/10)	VAC 11/7.5 (10 min/cont) (15/10)
Machine size (W x D x H)	mm	1,976 x 2,810 x 2,746 (77.80 x 110.63 x 108.11)	2,546 x 3,123 x 2,746 (100.24 x 122.95 x 108.11)	3,035 x 3,325 x 3,295 (119.49 x 130.91 x 129.72)	2,406 x 3,270 x 2,946 (94.72 x 128.74 x 115.98)
	in.	2,026 x 2,810 x 2,746 (79.76 x 110.63 x 108.11)			2,456 x 3,270 x 2,946 (96.69 x 128.74 x 115.98)

Vertical Machining Center [For High-Precision Parts and Die/Mold Applications]

### *MP-46V*



		MP-46V
Table size	mm (in.)	760 x 460 (29.92 x 18.11)
Spindle speed	min <sup>-1</sup>	20,000
Tool storage	tools	20
Motor	kW (hp)	VAC 15/11 (10 min/cont) (20/15)
Machine size (W x D x H)	mm	2,224 x 2,734 x 2,630*
	in.	(87.56 x 107.64 x 103.54)

\* Ball screw cooler not included

### *GENOS M series*

GENOS M460-VE-e / GENOS M560-V-e



		GENOS M460-VE-e*	GENOS M560-V-e*
Table size	mm (in.)	1,000 x 460 (39.37 x 18.11)	1,300 x 560 (51.18 x 22.05)
Spindle speed	min <sup>-1</sup>	15,000	15,000
Tool storage	tools	32	32
Motor	kW (hp)	22/18.5 (30/25)	22/18.5 (30/25)
Machine size (W x D x H)	mm	2,210 x 2,810 x 2,746 (87.01 x 110.63 x 108.11)	2,564 x 3,194 x 2,746 (100.94 x 125.75 x 108.11)
	in.		

\* Specifications may vary in different markets.

## Vertical Machining Centers

### MA-V series

MA-550VB / MA-650VB



		MA-550VB	MA-650VB
Table size	mm (in.)	1,300 × 560 (51.18 × 22.05)	1,530 × 660 (60.24 × 25.98)
Spindle speed	min <sup>-1</sup>	6,000	6,000
Tool storage	tools	32	32
Motor	kW (hp)	VAC 22/15/11 (10 min/30 min/cont) (30/20/15)	VAC 22/15/11 (10 min/30 min/cont) (30/20/15)
Machine size (W × D × H)	mm (in.)	3,200 × 2,862 × 2,898 (125.98 × 112.68 × 114.09)	3,750 × 3,128 × 3,030 (147.64 × 123.15 × 119.29)

### MILLAC V II series

MILLAC 44V II /  
MILLAC 468V II / MILLAC 561V II / MILLAC 611V II /  
MILLAC 761V II / MILLAC 852V II / MILLAC 1052V II



		MILLAC 44V II	
		Standard	2APC
Table size	mm (in.)	630 × 400 (24.80 × 15.75)	(Pallet) 400 × 400 (15.75 × 15.75)
Spindle speed	min <sup>-1</sup>	12,000	
Tool storage	tools	16	
Motor	kW (hp)	VAC 15/11 (25%ED/cont) (20/15)	
Machine size (W × D × H)	mm (in.)	1,600 × 3,440 × 2,400 (62.99 × 135.43 × 94.49)	1,600 × 3,550 × 2,600 (62.99 × 139.76 × 102.36)
CNC		OSP / FANUC	

		MILLAC 468V II	MILLAC 561V II	MILLAC 611V II
Table size	mm (in.)	1,050 × 460 (41.34 × 18.11)	1,350 × 560 (53.15 × 22.05)	1,600 × 610 (62.99 × 24.02)
Spindle speed	min <sup>-1</sup>	6,000	6,000	4,000
Tool storage	tools	20	20	20
Motor	kW (hp)	VAC 18.5/11 (15%ED/cont) (25/15)	VAC 15/11 (30 min/cont) (20/15)	VAC 15/11 (30 min/cont) (20/15)
Machine size (W × D × H)	mm (in.)	2,265 × 2,805 × 2,790 (89.17 × 110.43 × 109.84)	2,650 × 3,285 × 2,755 (104.33 × 129.33 × 108.46)	3,410 × 3,695 × 2,910 (134.25 × 145.47 × 114.57)
CNC		OSP / FANUC	OSP / FANUC	OSP / FANUC

		MILLAC 761V II	MILLAC 852V II	MILLAC 1052V II
Table size	mm (in.)	1,800 × 720 (70.87 × 28.35)	2,200 × 850 (86.61 × 33.46)	2,200 × 1,050 (86.61 × 41.34)
Spindle speed	min <sup>-1</sup>	4,000	4,000	4,000
Tool storage	tools	36	36	36
Motor	kW (hp)	VAC 18.5/15 (30 min/cont) (25/20)	VAC 18.5/15 (30 min/cont) (25/20)	VAC 22/18.5 (30 min/cont) (30/25)
Machine size (W × D × H)	mm (in.)	4,300 × 4,060 × 3,230 (169.29 × 159.84 × 127.17)	5,460 × 4,445 × 3,350 (214.96 × 175.00 × 131.89)	6,760 × 4,470 × 3,520 (266.14 × 175.98 × 138.58)
CNC		OSP / FANUC	OSP / FANUC	OSP / FANUC

## Horizontal Machining Centers

### MA-H/HII series

MA-500HII / MA-600HII  
MA-400HA / MA-800HB / MA-12500H



### MB-H series

MB-4000H / MB-5000H  
MB-8000H / MB-10000H



		MA-500HII	MA-600HII	MA-400HA	MA-800HB	MA-12500H
Pallet size	mm (in.)	500 × 500 (19.69 × 19.69)	630 × 630 (24.80 × 24.80)	400 × 400 (15.75 × 15.75)	800 × 800 (31.50 × 31.50)	1,250 × 1,250 (49.21 × 49.21)
Max work size	mm (in.)	ø800 × 1,000 (ø31.50 × 39.37)	ø1,000 × 1,000 (ø39.37 × 39.37)	ø600 × 710 (ø23.62 × 27.95)	ø1,400 × 1,450 (ø55.12 × 57.09)	ø2,000 × 1,600 (ø78.74 × 62.99)
Spindle speed	min <sup>-1</sup>	6,000	6,000	8,000	6,000	6,000
Tool storage	tools	40	40	30	40	81
Motor	kW (hp)	VAC 30/22 (10 min/cont) (40/30)	VAC 30/22 (10 min/cont) (40/30)	VAC 15/11 (10 min/cont) (20/15)	VAC 30/22 (10 min/cont) (40/30)	VAC 45/37 (20 min/cont) (60/50)
Machine size (W × D × H)	mm (in.)	3,110 × 5,971 × 3,173 (122.44 × 235.08 × 124.92)	3,410 × 6,495 × 3,173 (134.25 × 255.71 × 124.92)	2,414 × 4,532 × 2,759 (95.04 × 178.43 × 108.62)	4,745 × 6,465 × 3,460 (186.81 × 254.53 × 136.22)	6,880 × 12,412 × 3,781 (270.87 × 488.66 × 148.86)

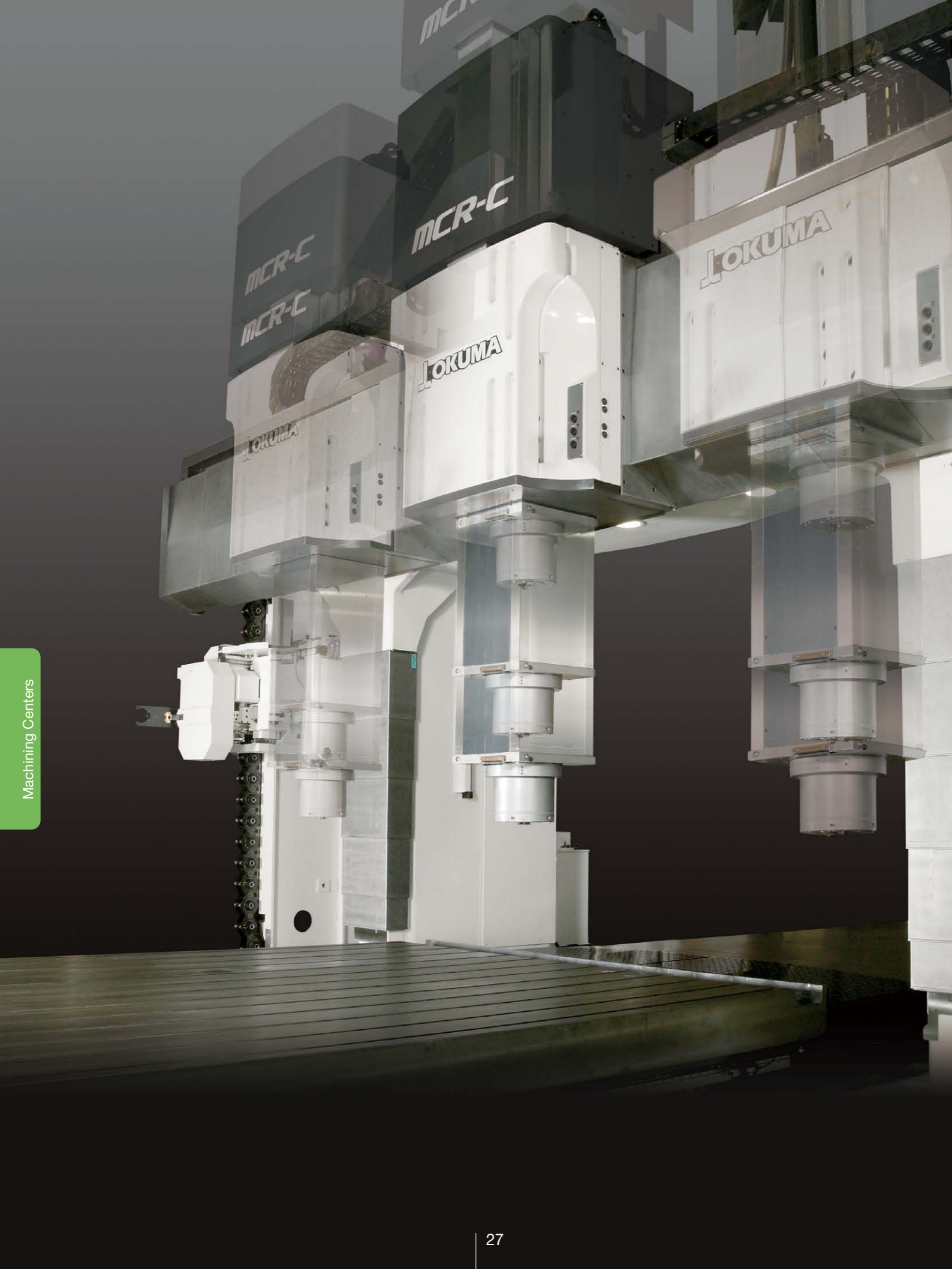
		MB-4000H	MB-5000H	MB-8000H	MB-10000H
Pallet size	mm (in.)	400 × 400 (15.75 × 15.75)	500 × 500 (19.69 × 19.69)	800 × 800 (31.50 × 31.50)	1,000 × 1,000 (39.37 × 39.37)
Max work size	mm (in.)	ø600 × 900 (ø23.62 × 35.43)	ø800 × 1,000 (ø31.50 × 39.37)	ø1,450 × 1,450 (ø57.09 × 57.09)	ø1,400 × 1,450 (ø55.12 × 57.09)
Spindle speed	min <sup>-1</sup>	15,000	15,000	6,000	6,000
Tool storage	tools	48	48	40	40
Motor	kW (hp)	VAC 26/18.5 (10 min/cont) (35/25)	VAC 26/18.5 (10 min/cont) (35/25)	VAC 30/22 (10 min/cont) (40/30)	VAC 30/22 (10 min/cont) (40/30)
Machine size (W × D × H)	mm (in.)	2,420 × 4,700 × 2,647 (95.28 × 185.04 × 104.21)	2,700 × 4,710 × 2,864 (106.30 × 185.43 × 112.76)	3,960 × 7,505 × 3,449 (155.91 × 295.47 × 135.79)	4,545 × 6,465 × 3,410 (178.94 × 254.53 × 134.25)

### MILLAC HII series

MILLAC 44HII / MILLAC 55HII

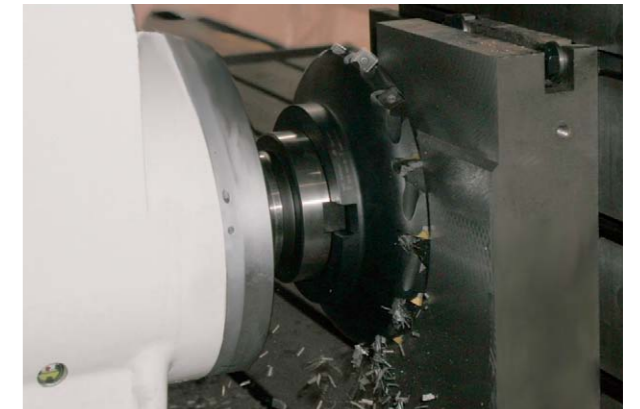
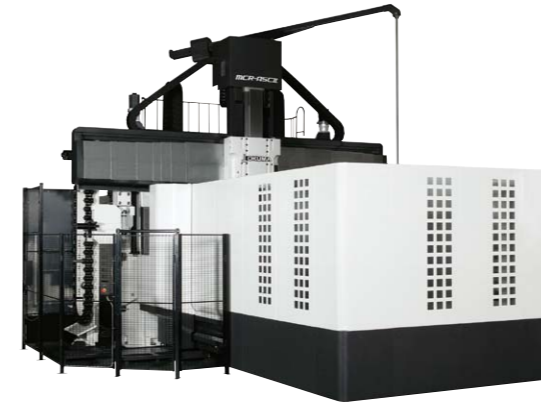


		MILLAC 44HII		MILLAC 55HII	
		Rotary table	2APC	Rotary table	2APC
Table size	mm (in.)	ø320 (ø12.60)	(Pallet) 320 × 320 (12.60 × 12.60)	ø500 (ø19.69)	(Pallet) 400 × 400 (15.75 × 15.75)
Max work size	mm (in.)	ø400 × 500 (ø15.75 × 19.69)		ø500 × 600 (ø19.69 × 23.62)	
Spindle speed	min <sup>-1</sup>	12,000		8,000	
Tool storage	tools	10		30	
Motor	kW (hp)	VAC 15/11 (25% ED/cont) (20/15)		VAC 18.5/11 (15% ED/cont) (25/15)	
Machine size (W × D × H)	mm (in.)	1,350 × 2,840 (53.15 × 111.81)	1,350 × 3,490 (53.15 × 137.40)	1,650 × 3,620 (64.96 × 142.52)	1,650 × 4,415 (64.96 × 173.82)
		× 2,675 (× 105.31)	× 2,675 (× 105.31)	× 2,760 (× 108.66)	× 2,760 (× 108.66)
CNC		OSP / FANUC		OSP / FANUC	

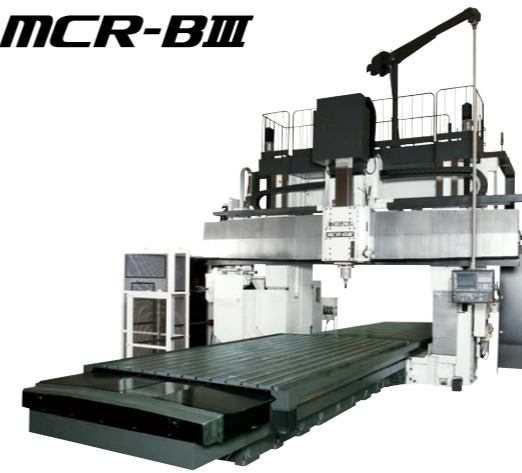


## Double-Column Machining Centers (5-Sided Applications)

### MCR-A5CII



### MCR-BIII



### MCR-C



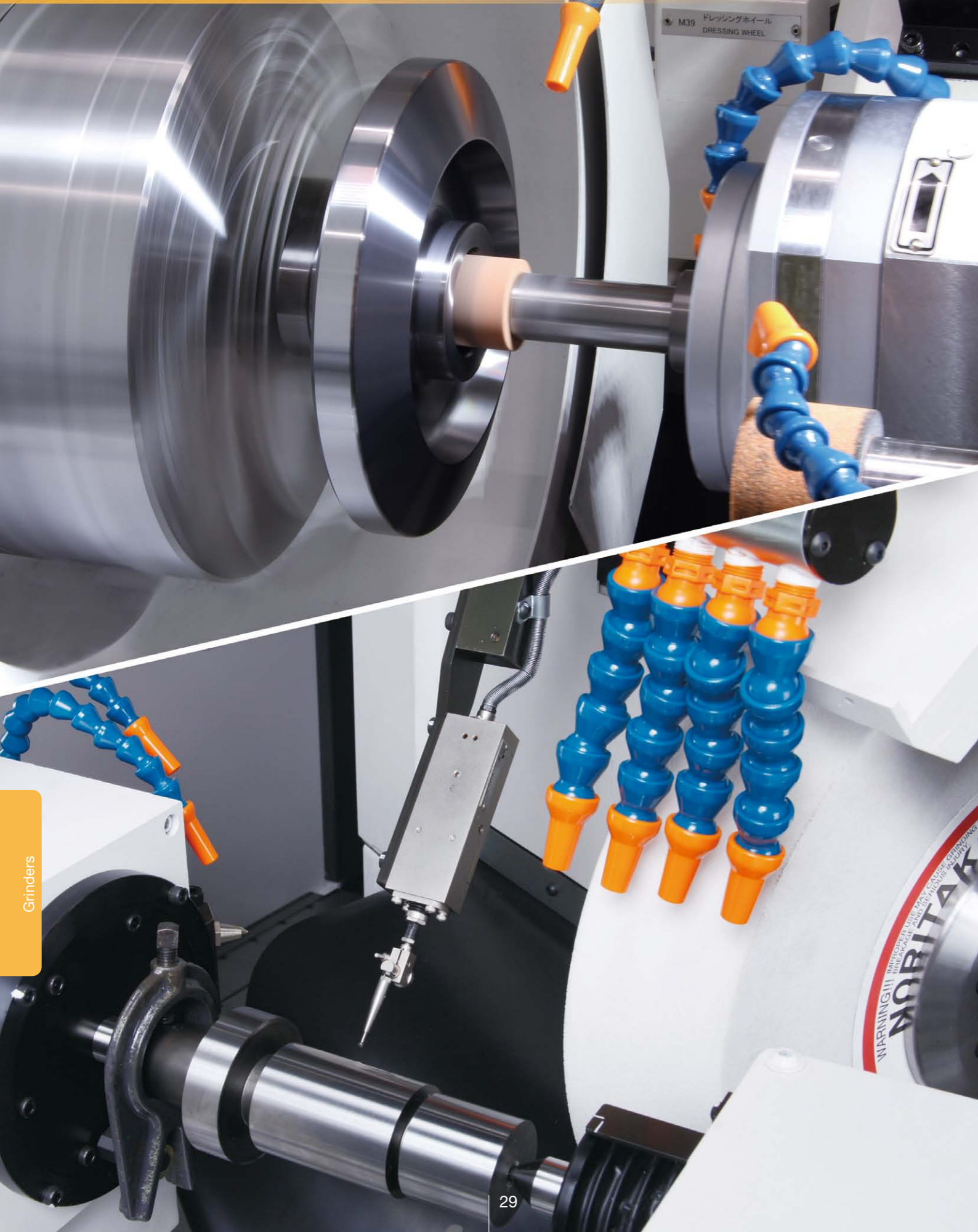
		MCR-A5CII	MCR-BIII	MCR-C
Effective width between columns	mm (in.)	2,150 to 3,650 (84.65 to 143.70)	2,050 to 3,550 (80.71 to 139.76)	2,650 to 3,650 (104.33 to 143.70)
Table working surface	mm (in.)	1,500 x 3,000 to 3,000 x 12,000 (59.06 x 118.11 to 118.11 x 472.44)	1,500 x 2,800 to 3,000 x 11,800 (59.06 x 110.24 to 118.11 x 464.57)	2,000 x 4,000 to 3,000 x 12,000 (78.74 x 157.48 to 118.11 x 472.44)
Spindle speed	min <sup>-1</sup>	4,000	4,000	4,000
Tool storage	tools	50	32	50
Motor	kW (hp)	VAC 26/22 (30 min/cont) (35/30)	VAC 30/22 (30 min/cont) (40/30)	VAC 45/37 (30 min/cont) (60/50)
Machine size (W x D x H)	mm	6,180 x 8,430 x 5,820 to (243.31 x 331.89 x 229.13 to)	6,950 x 8,200 x 6,250 to (273.62 x 322.83 x 246.06 to)	7,810 x 10,730 x 6,730 to (307.48 x 422.44 x 264.96 to)
	mm (in.)	7,780 x 27,930 x 6,300 (306.30 x 1099.61 x 248.03)	8,700 x 27,400 x 6,850 (342.52 x 1078.74 x 269.69)	8,835 x 27,930 x 6,980 (347.83 x 1099.61 x 274.80)

## Double-Column Machining Centers

### MCV-AII / MCR-AF



		MCV-AII	MCR-AF
Effective width between columns	mm (in.)	1,650, 2,050 (64.96, 80.71)	2,600 (102.36)
Table working surface	mm (in.)	1,200 x 1,800 to 1,500 x 4,800 (47.24 x 70.87 to 59.06 x 188.98)	2,000 x 1,500, 2,000 x 2,000 (78.74 x 59.06, 78.74 x 78.74)
Spindle speed	min <sup>-1</sup>	4,000	8,000
Tool storage	tools	24	24
Motor	kW (hp)	VAC 22/18.5 (30 min/cont) (30/25)	VAC 26/22 (30 min/cont) (35/30)
Machine size (W x D x H)	mm	4,935 x 6,000 x 4,375 to (194.29 x 236.22 x 172.24 to)	5,560 x 4,200 x 4,670 (218.90 x 165.35 x 183.86)
	mm (in.)	5,335 x 12,920 x 4,585 (210.04 x 508.66 x 180.51)	5,560 x 5,230 x 4,670 (218.90 x 205.91 x 183.86)



## CNC Cylindrical Grinders

### GPW/GAW series

GP14W / GP15W / GA14W / GA15W

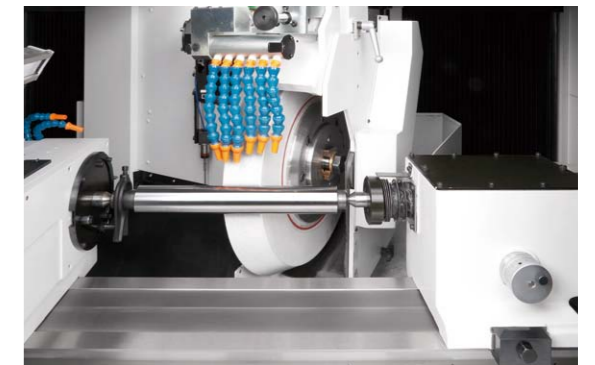


### GP/GA-FII series

GP-34FII / GP-44FII / GA-34FII / GA-44FII  
GP-36FII / GP-47FII / GA-36FII / GA-47FII



GP25W / GP26W / GA25W / GA26W



		GP14/15W GA14/15W	GP25/26W GA25/26W	GP-34/44FII GA-34/44FII	GP-36/47FII GA-36/47FII
Swing over table	mm (in.)	330 (12.99)	330 (12.99)	330, 430 (12.99, 16.93)	330, 430 (12.99, 16.93)
Distance between centers	mm (in.)	250 (9.84)	400, 650 (15.75, 25.59)	350, 650, 1,000, 1,500 (13.78, 25.59, 39.37, 59.06)	350, 650, 1,000, 1,500 (13.78, 25.59, 39.37, 59.06)
Wheel size (OD × width)	mm (in.)	ø405 × 75 / ø510 × 75 (ø15.94 × 2.95 / ø20.08 × 2.95)	ø510 × 75 / ø610 × 75 (ø20.08 × 2.95 / ø24.02 × 2.95)	ø455 × 75 (ø17.91 × 2.95)	ø610 × 135 / ø760 × 160 (ø24.02 × 5.31 / ø29.92 × 6.30)
Wheel peripheral speed	m/sec	45	45	45	45
Wheel motor	kW (hp)	5.5 (7.5)	7.5 (10)	7.5 (10)	15 (20)
Machine size (W × D × H)	mm (in.)	1,550 × 2,734 × 2,150 (61.02 × 107.64 × 84.65)	2,030, 2,510 × 2,914 × 2,228 (79.92, 98.82 × 114.72 × 87.72)	2,300, 2,995, 3,695, 5,610 × 2,566 × 2,000 (90.56, 117.91, 145.47, 220.87 × 101.02 × 78.74)	2,300, 2,995, 3,695, 5,610 × 2,566 × 2,000 (90.56, 117.91, 145.47, 220.87 × 101.02 × 78.74)

## CNC Internal Grinders

### GI-2N-SP/GI-10NII/GI-20NII



		GI-2N-SP	GI-10NII	GI-20NII
Workpiece weight × length	kg × mm (lb × in.)	-	100 × 150 (220 × 5.91)	150 × 200 (330 × 7.87)
Swing in chuck guard	ømm (in.)	-	350 (13.78)	400 (15.75)
Bore grinding	ømm (in.)	2 to 20 (0.08 to 0.78)	3 to 150 (0.12 to 5.91)	5 to 300 (0.20 to 11.81)
Max grinding depth	mm (in.)	65 (2.56)	150 (5.91)	200 (7.87)
Wheel motor	kW (-P) (hp)	1.5 (2)	5.5-2 (7.5-2.7)	5.5-2 (7.5-2.7)
Machine size (W × D × H)	mm (in.)	1,300 × 3,870 × 2,279 (51.18 × 152.36 × 89.72)	2,050 × 2,100 × 1,900 (80.71 × 82.68 × 74.80)	2,500 × 2,955 × 2,030 (98.43 × 116.34 × 79.92)

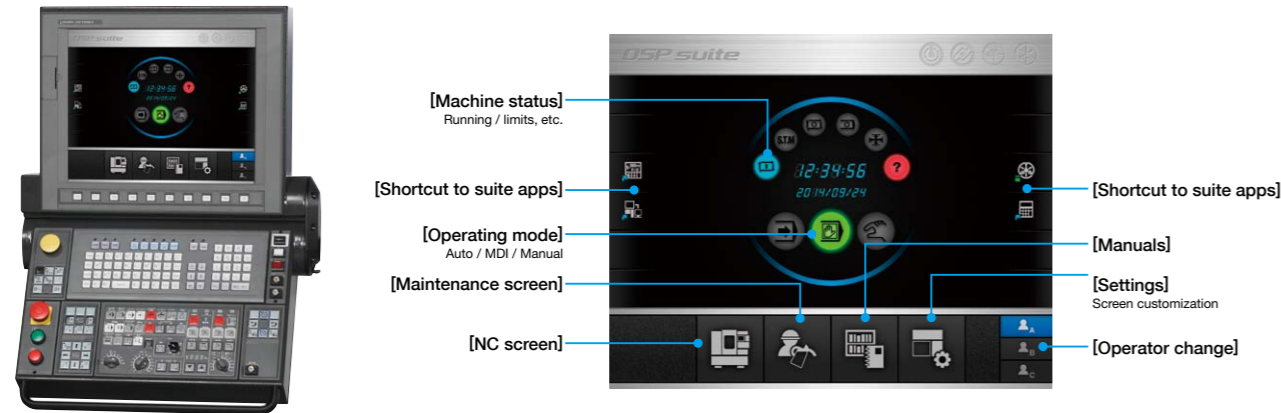


## The Next-Generation Intelligent CNC

**OSP-P300A**  
OSP suite

Machine shops get top priority with easy-to-use OSP control

### An Intelligent CNC designed for the Shop Floor



### Smooth, comfortable operation with the feeling of using a smart phone

Improved rendering performance and use of a multi-touch panel achieve intuitive graphical operation. Moving, enlarging, reducing, and rotating 3D models, as well as list views of tool data, programs, and other information can be accomplished through smooth, speedy operations with the same feel as using a smart phone.



### Features you wanted – loaded with new OSP suite apps!

We made these real through the addition of Okuma's machining expertise based on requests we heard from customers in the machine shop. These are filled with intelligence that enhances the "strength in the field" that CNC control can accomplish because it's created by a machine-tool manufacturer.

● Example application

- S12** Making new machining technology simpler and easier to use  
**Turn-Cut Guide** (Optional)
- S13** Calculation of required theoretical values based on input of chuck and cylinder types  
**Chuck Pressure Calculation**

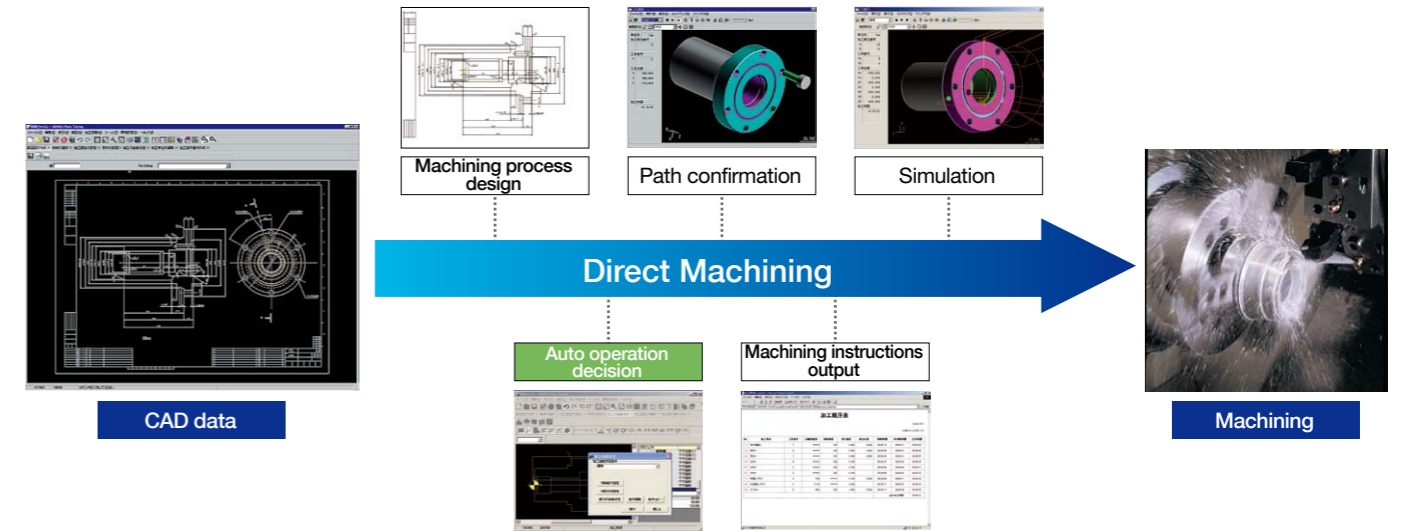
- S11** Increased productivity through visualization of motor power reserve  
**Spindle Output Monitor**
- S17** Comment display for greater ease of use and faster work  
**Common Variable Monitor**

## CAD/CAM System for Parts Machining

### ADMAC-Parts

#### Innovative direct machining for production processes

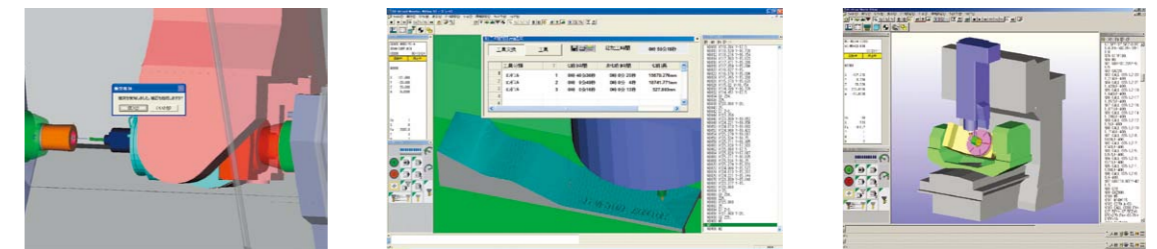
A machining program can be quickly made from CAD data based on experience points of a veteran programmer for machining with a CNC machine tool.



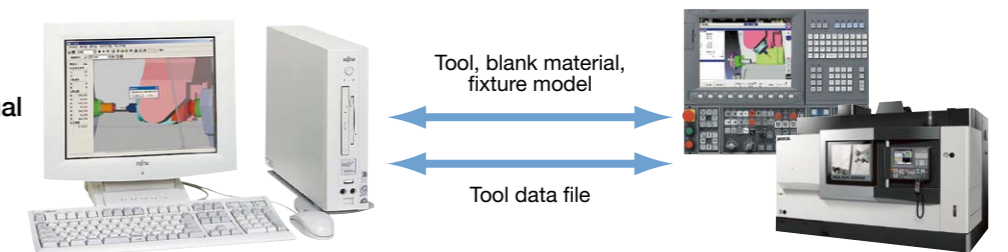
### 3D Virtual Monitor

#### Trial machining not needed, NC program verification time reduced to 1/10 on off-machine PC

This is software to select tools, blank material, fixture setup, and NC program, and then perform machining and interference checks on a virtual machine in a computer.



Even closer to actual machine with data exchange function



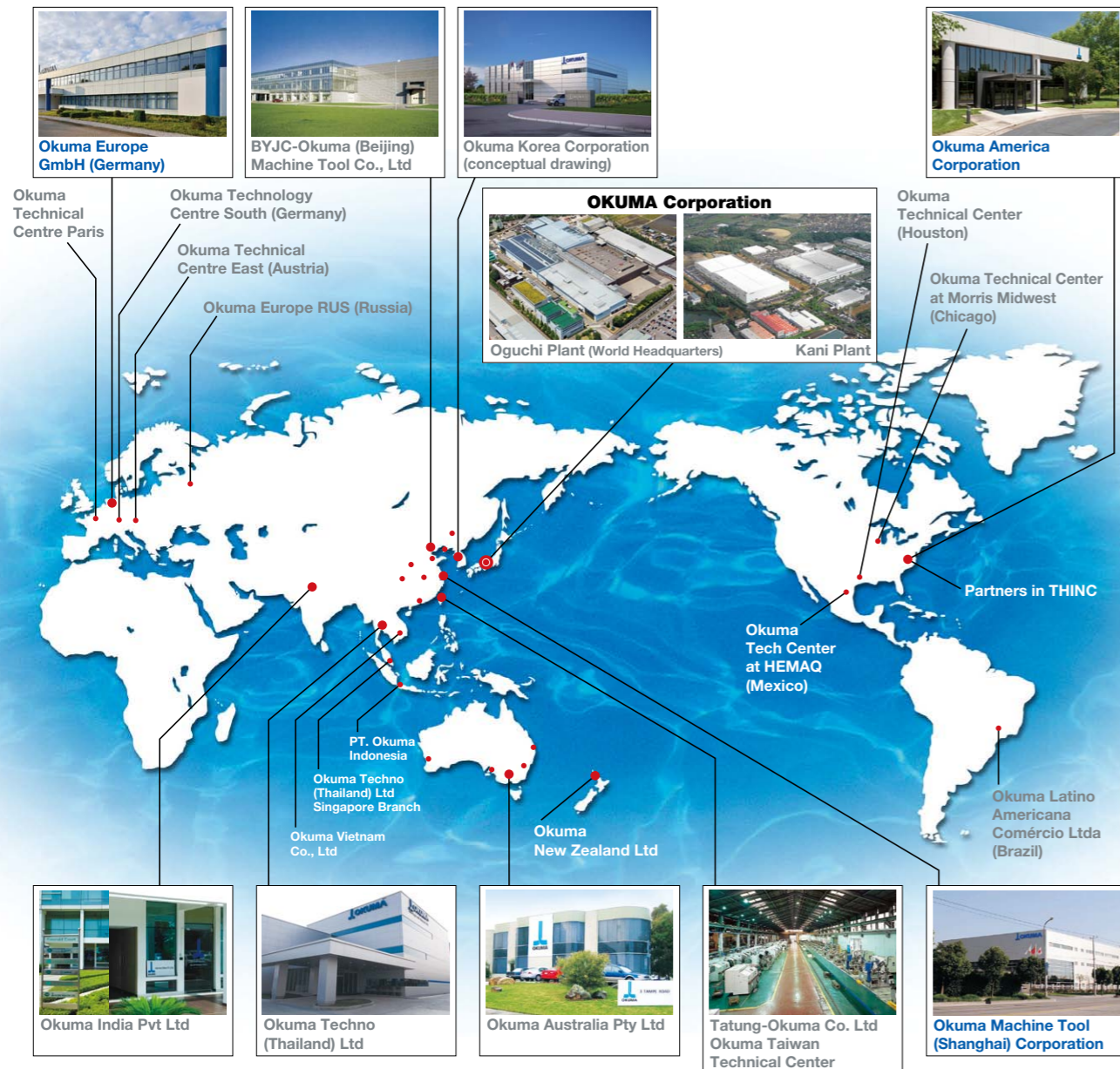
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## Okuma's Global Support System



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