

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 multiple overlapping, flowing blue lines that create a sense of motion and depth, resembling a stylized wave or a dynamic energy field.

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



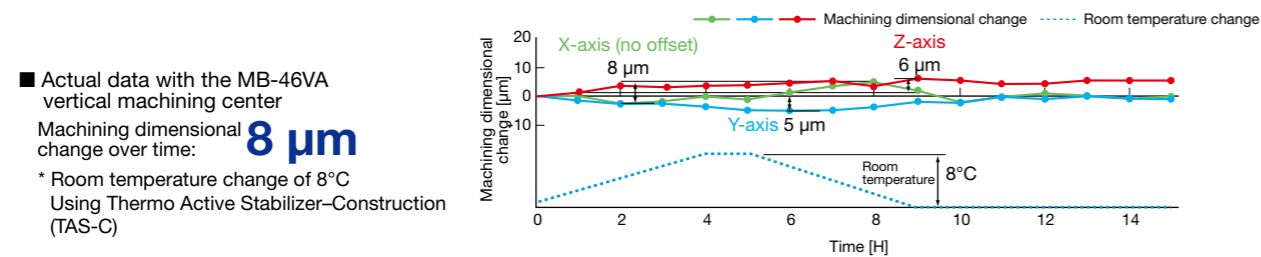
On machine shop floors there are many issues that can hinder accuracy and production efficiency. Examples include thermal deformation of the machine from temperature changes and misalignment of axes in multi-axis machining. Interference or collision of machine moving parts, chatter vibration when cutting—these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

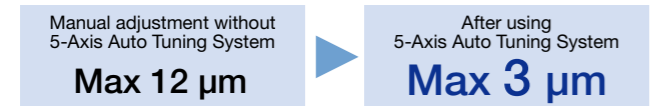
Changes in the ambient temperature around machines and heat generated during cutting have a serious effect on machining accuracy. Okuma therefore uses a machine design that adapts to these temperature changes for better control of thermal deformation. By checking the machine dimensions at startup, the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



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

Geometric error such as rotary axis misalignment often occurs on 5-axis machines cutting multiple surfaces with inclined machining axes. In the past much time was 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 are done in only 10 minutes.

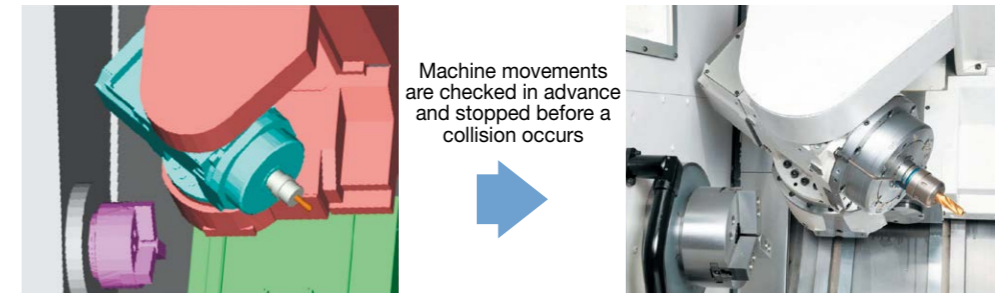
Actual data with the MU-6300V 5-axis vertical machining center
Maximum cusp height in multi-sided machining



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.



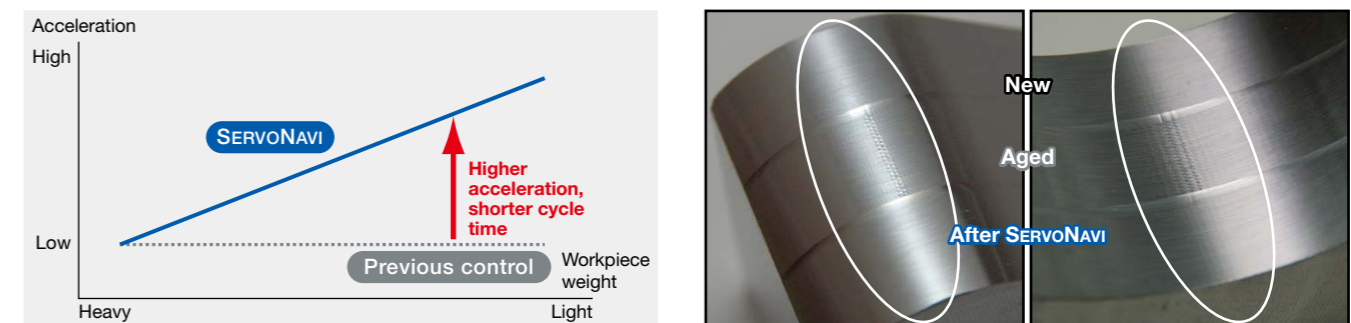
Cutting condition search Machining Navi

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.



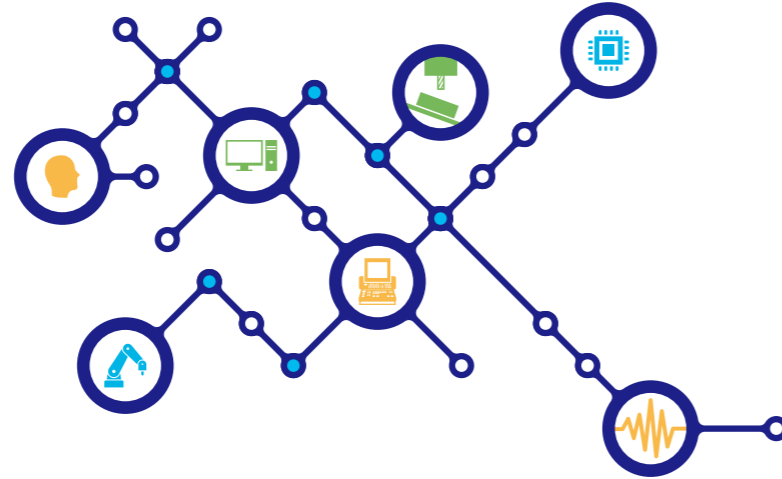
Optimized Servo Control SERVONAVI

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.



The smart manufacturing revolution starts with one smart machine

The Okuma Smart Factory delivers maximum capacity and enables high-mix production with short delivery times. This provides highly productive and flexible responses to fluctuating demands. It consists of three primary aspects.



Smart Manufacturing

To get factory max capacity; a scheme for when, what, and just how much is needed. ECM, SCM*1 systems to get factory maximum throughput.

■ Engineering change management

- Super short machining preparation with repeated 3D models from CAD/CAM to CNC

■ Supply chain management

- Maximize plant throughput while raising machine utilization rate with plant visual control using Connect Plan

■ Network creation

- Secure, simple network system to build an Okuma Smart Factory

*1. ECM: Engineering Chain Management, SCM: Supply Chain Management



Smart Machines

Okuma Intelligent Technology on board—determines machine status for autonomous operations. Applicable to all machines equipped with the Okuma OSP suite.

■ Intelligent technology

- Introducing the Thermo-Friendly Concept, Machining Navi, and OSP-AI, which bring out the best in your shop floor
- Facilitation of higher machine utilization rates in conjunction with Smart Manufacturing

■ Shop floor-oriented OSP-P300A intelligent CNC

- Easy Operation for the greatest ease of use in machining shops
- Equipped with multiple suite apps that raise shop floor performance

■ Applications to raise productivity

- Applications are proposed for die/mold machining, trial machining, and similar part machining



Smart Solutions

Premium solutions matched to customer needs and applications that support customer manufacturing operations are provided.

Premium Solutions

Usable, helpful and effective Okuma solutions

Okuma's accumulated solutions technology is brought together to provide valuable functions that easily and simply solve difficult, bothersome, and time-consuming machining and preparation problems for streamlining and efficiency.

Easy multitasking for gears Gear Machining Package

Highly accurate gear cutting achieved with multitasking machines and 5-axis machining centers. Output programs just by entering the gear data.

■ MULTUS U Series (actual comparison to non-multitasking)



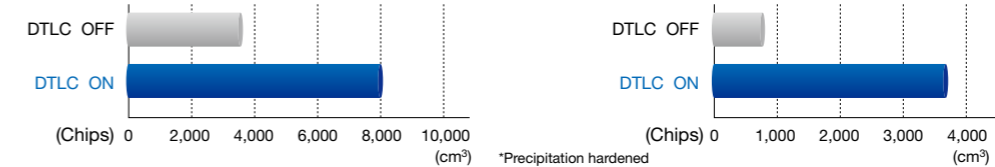
Dramatically improved productivity of difficult-to-cut materials Dynamic Tool Load Control

DTLC suppresses chipping of insert tools on difficult-to-cut materials like titanium alloy, to achieve stable processing and longer tool life.

[Actual results]

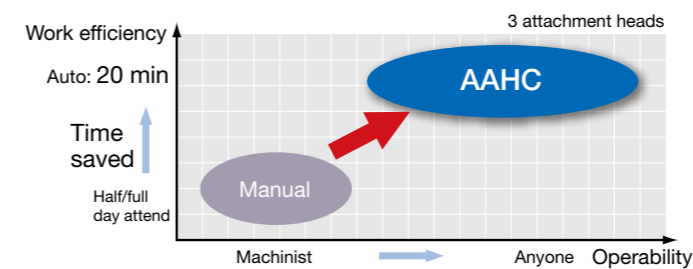
■ Tool life (titanium) 2.3 times (Okuma comparison)

■ Tool life (SUS*) 5.2 times (Okuma comparison)



Easy rotational compensation for double columns Auto Attachment Head Compensation

An easy way to compensate for attachment head rotational errors — automatically. Periodically setting rotational offsets help maintain high machining accuracy.



Note: AAHC requires Okuma's auto gauging and auto zero offset functions (with touch probe).

Okuma's product lineup responds to diverse needs

Super Multitasking Machines

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



MULTUS U3000 LASER EX
MULTUS U4000 LASER EX
MULTUS U5000 LASER EX

5-Axis Machining Centers / Multitasking Machines

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■ 5-Axis Vertical Machining Centers



MU-4000V
MU-5000V

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MU-S600V



MU-400V II

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■ 5-Axis Horizontal Machining Center



MU-10000H

■ Large 5-Axis Machining Centers



MILLAC 800VH
MILLAC 1000VH

■ 5-Axis High-Speed Blade Machine



BLADE T400

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■ Intelligent Multitasking Machines



MULTUS U3000
MULTUS U4000
MULTUS U5000

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MULTUS B200 II
MULTUS B250 II
MULTUS B300 II
MULTUS B400 II



MULTUS B550
MULTUS B750

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■ Horizontal Multitasking Machine



MACTURN550

■ Double-Column Multitasking Machines



VTR-160A
VTR-350A

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■ 5-Axis Vertical Multitasking Machines



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

■ Vertical Multitasking Machines



VTM-65
VTM-100
VTM-200

CNC Lathes

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■ 1-Saddle CNC Lathes



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

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GENOS L250 II-e
GENOS L400 II-e
GENOS L2000-e
GENOS L3000-e
GENOS L300-M-e



HJ-250*



HL-20*
HL-35*

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LB35 III
LB45 III



LH55-N*



LT2000 EX
LT3000 EX



LU3000 EX
LU4000 EX
LU7000 EX

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■ Twin Spindle Turning Centers

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■ 2-Saddle CNC Lathes

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LOC500
LOC650



LU35 II
LU45 II



LU-S1600



SPL-200*

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■ Vertical Lathes



V760EX
V920EX
V40R
V100R



2SP-V760EX
2SP-V40



SV250*

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■ Parallel Spindle CNC Lathes



2SP-2500H
2SP-150H
2SP-10HG*
2SP-35HG*

■ Aluminum Wheel Applications



LAW-2S
LAW-V24
LAW-FII

Machining Centers

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■ Vertical Machining Centers



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



MF-46VA/B



MP-46V



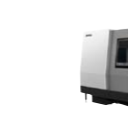
GENOS M460-VE-e
GENOS M560-V-e



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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■ Double-Column Machining Centers

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■ Horizontal Machining Centers



MA-500H II
MA-600H II



MA-400HA
MA-800HB



MA-12500H



MB-4000H
MB-5000H



MB-8000H
MB-10000H



MILLAC 44H II *
MILLAC 55H II *

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■ Double-Column Machining Centers (5-Face Machining)



MCR-A5C II



MCR-B III



MCR-C



MCV-A II



MCR-AF

Grinders

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■ CNC Cylindrical Grinders



GA14/15W
GP14/15W



GA25/26W
GP25/26W



GA-34/44F II
GP-34/44F II



GA-36/47F II
GP-36/47F II

■ CNC Internal Grinders



GI-2N-SP*



GI-10N II
GI-20N II

IT / CNC

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■ Next-Generation Intelligent CNC



OSP-P300A
OSP suite

■ CAD/CAM System for Parts Machining

ADMAC-Parts
[With 3D Virtual Monitor]

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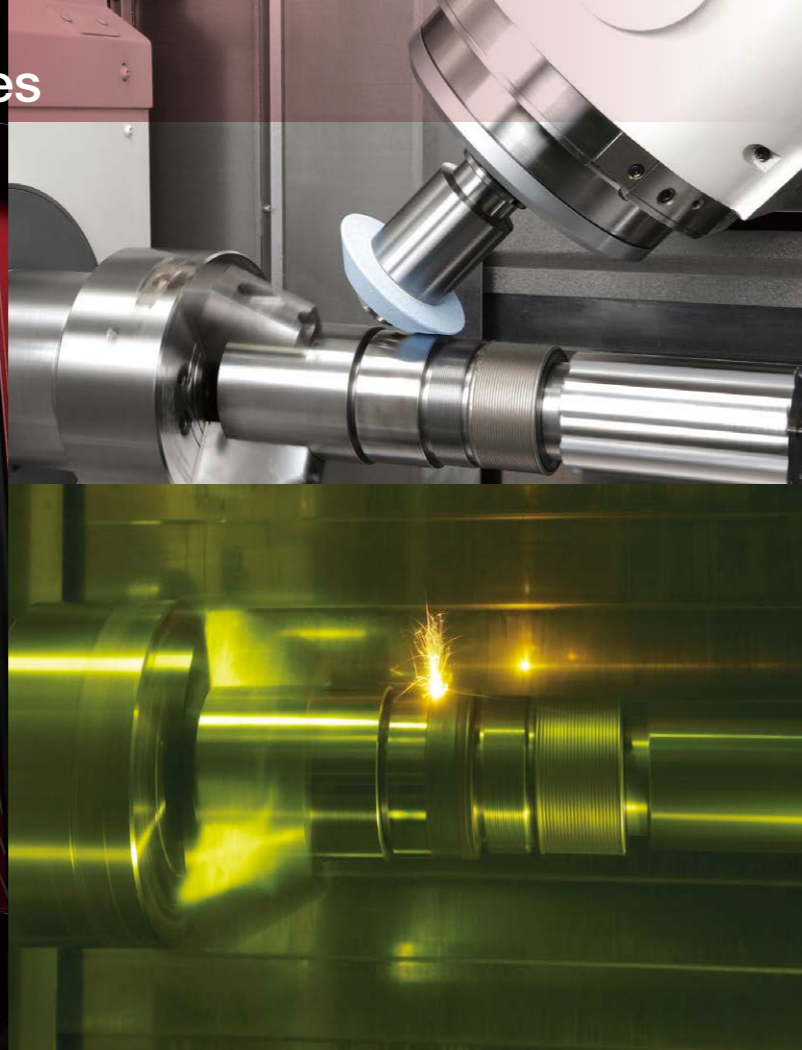
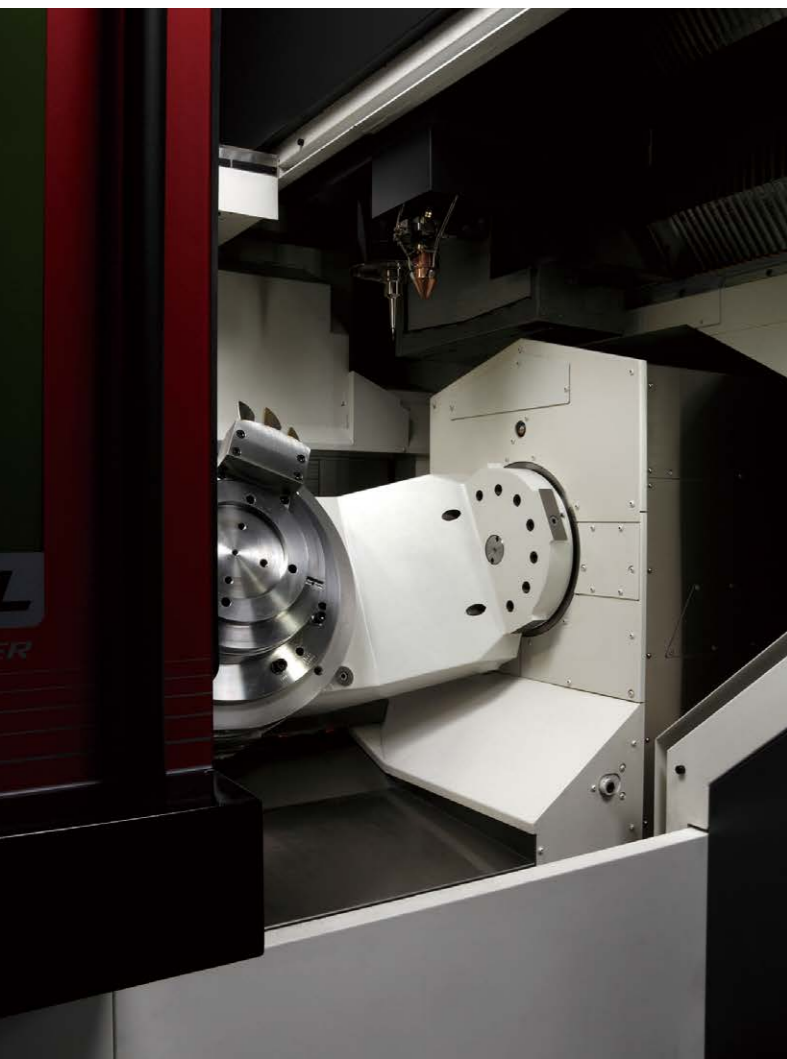
■ Okuma Smart Factory

Connect Plan

* 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.



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



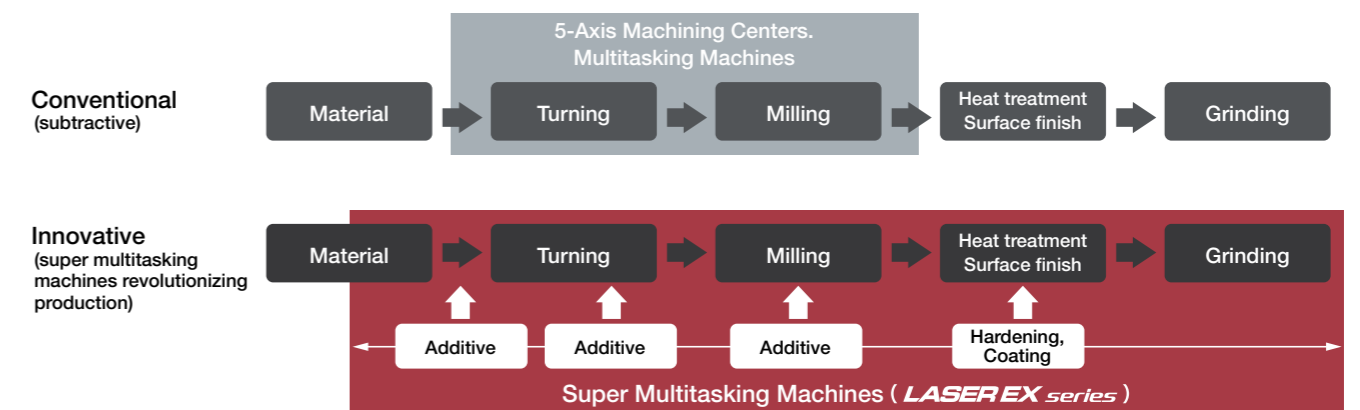
MULTUS Ø3000 LASER EX
MULTUS Ø4000 LASER EX
MULTUS Ø5000 LASER EX

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 ⁻¹	15,000	10,000, 6,000	10,000, 6,000	10,000, 6,000
Tool storage	tools	32	32	32	32
Motor	kW (hp)	22/18.5 (10 min/cont) (30/25)	11/7.5 (10 min/cont) (15/10)	11/7.5 (10 min/cont) (15/10)	11/7.5 (10 min/cont) (15/10)
Machine size (W x D x H)	mm (in.)	2,399 x 3,248 x 2,950 (94.45 x 127.87 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 x 400 (15.75 x 15.75)
Spindle speed	min ⁻¹	12,000
Tool storage	tools	16
Motor	kW (hp)	15/11 (25%ED/cont) (20/15)
Machine size (W x D x H)	mm (in.)	1,400 x 3,315 x 2,994 (55.12 x 130.51 x 117.87)

UNIVERSAL CENTER MU-400V II



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

5-Axis Horizontal Machining Center

UNIVERSAL CENTER MU-10000H



		MU-10000H
Pallet size	mm (in.)	1,000 x 1,000 (39.37 x 39.37)
Max workpiece dimensions	mm (in.)	ø1,500 x 1,175 (ø59.06 x 46.26)
Spindle speed	min ⁻¹	6,000
Tool storage	tools	81
Motor	kW (hp)	45/37 (20 min/cont) (60/50)
Machine size (W x D x H)	mm (in.)	6,880 x 10,930 x 3,694 (270.87 x 430.32 x 145.43)

Large 5-Axis Machining Centers

MILLAC VH series

MILLAC 800VH / MILLAC 1000VH



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

5-Axis High-Speed Blade Machine

BLADE T400



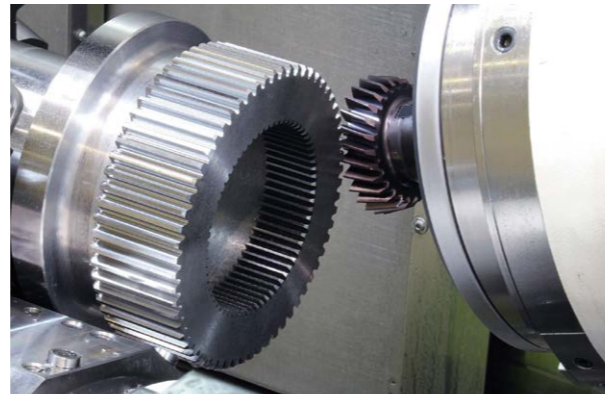
		BLADE T400
Max turning dia	ømm (in.)	400 (Max swing) (15.75)
Max work length	mm (in.)	1,500 (59.06)
Spindle speed	min ⁻¹	18,000
Tool storage	tools	40
Motor	kW (hp)	38/28 (30 min/cont) (51/38)
Machine size (W x D x H)	mm (in.)	6,750 x 3,236 x 3,065* (265.75 x 127.40 x 120.67)

* Does not include coolant tank

Intelligent Multitasking Machines

MULTUS *U* 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 ⁻¹	5,000	4,200	3,000
Tool storage	tools	40	40	40
Motor	kW (hp)	22/15 (30 min/cont) (30/20)	22/15 (30 min/cont) (30/20)	37/30 (30 min/cont) (50/40)
Machine size (W x D x H)	mm	4,925 x 2,995 x 2,955 (193.90 x 117.91 x 116.34)	5,425 x 2,995 x 2,955 (213.58 x 117.91 x 116.34)	5,530 x 2,995 x 2,955 (217.72 x 117.91 x 116.34)
	in.	5,425 x 2,995 x 2,955 (213.58 x 117.91 x 116.34)	6,175 x 2,995 x 2,955 (243.11 x 117.91 x 116.34)	6,280 x 2,995 x 2,955 (247.24 x 117.91 x 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 B200II	MULTUS B250II	MULTUS B300II	MULTUS B400II
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 ⁻¹	6,000	5,000	5,000	3,800
Tool storage	tools	20	20	20	20
Motor	kW (hp)	11/7.5 (20 min/cont) (15/10)	15/11 (20 min/cont) (20/15)	15/11 (20 min/cont) (20/15)	22/15 (50% ED/cont) (30/20)
Machine size (W x D x H)	mm	3,080 x 2,210 x 2,582 (121.26 x 87.01 x 101.65)	3,620 x 2,210 x 2,582 (142.52 x 87.01 x 101.65)	4,035 x 2,257 x 2,587 (158.86 x 88.86 x 101.85)	5,750 x 2,693 x 3,000 (226.38 x 106.02 x 118.11)
	in.	3,620 x 2,210 x 2,582 (142.52 x 87.01 x 101.65)	4,035 x 2,257 x 2,587 (158.86 x 88.86 x 101.85)	7,050 x 2,693 x 3,137 (277.56 x 106.02 x 123.50)	
Spec extension		W	W	W	W

W: Opposing spindle

MULTUS *B* series

MULTUS B550 / MULTUS B750

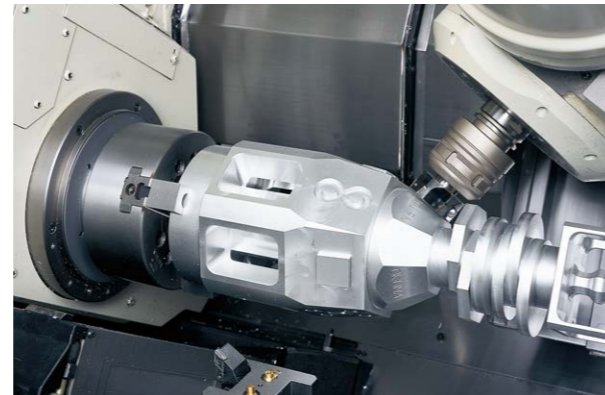


		MULTUS B550	MULTUS B750
Standard chuck size	in.	15	15
Max machining dia	ømm (in.)	830 (32.68)	1,050 (41.34)
Max work length	mm (in.)	2,000, 3,000 (78.74, 118.11)	3,000, 4,000, 6,000 (118.11, 157.48, 236.22)
Spindle speed	min ⁻¹	3,000	2,000
Tool storage	tools	40	40
Motor	kW (hp)	37/30 (30 min/cont) (50/40)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

W: Opposing spindle

Multitasking Machine

MACTURN 550



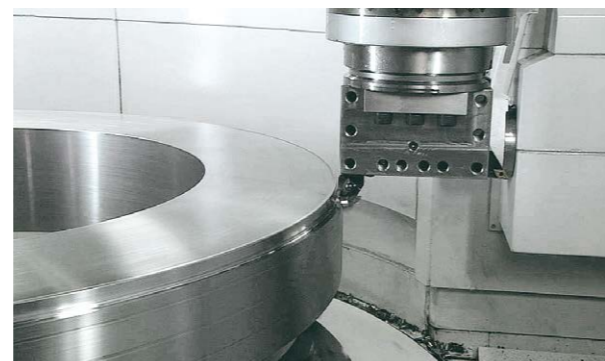
MACTURN 550		
Standard chuck size	in.	12
Max machining dia	ømm (in.)	720 (28.35)
Max work length	mm (in.)	2,100, 3,100 (82.68, 122.05)
Spindle speed	min ⁻¹	3,500
Tool storage	tools	32
Motor	kW (hp)	30/25 (20 min/cont) (40/33)
Machine size (W x D x H)	mm (in.)	6,980 x 3,127 x 3,120 (274.80 x 123.11 x 122.83) 9,345 x 3,127 x 3,105 (367.91 x 123.11 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 ⁻¹	400	160
Tool storage	tools	23	23
Motor	kW (hp)	45/37 (30 min/cont) (60/50)	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 ⁻¹	500	300	800
Tool storage	tools	36	36	36
Motor	kW (hp)	30/22 (30 min/cont) (40/30)	30/22 (30 min/cont) (40/30)	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



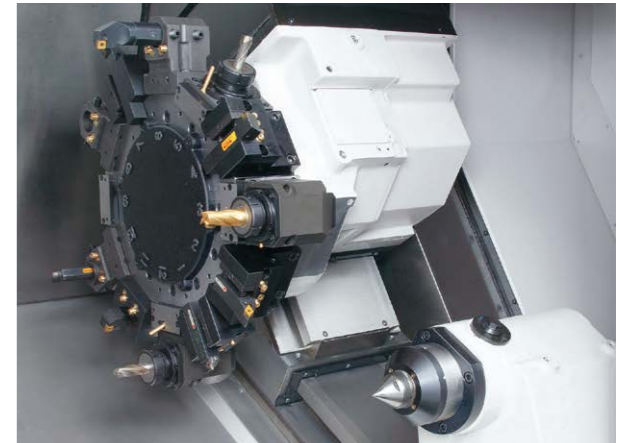
		VTM-65	VTM-100	VTM-200
Applicable chuck sizes	in.	18, 21, 24	24, 28, 32, 36	—
Maximum table size	ømm (in.)	610 (24.02)	915 (36.02)	2,000 (78.74)
Max machining dia	ømm (in.)	650 (25.59)	1,000 (39.37)	2,000 (78.74)
Max work length (height)	mm (in.)	635 (25.00)	840 (33.07)	1,200 (47.24)
Spindle speed	min ⁻¹	1,250	1,250	200
Tool storage	tools	36	36	36
Motor	kW (hp)	30/22 (30 min/cont) (40/30)	30/22 (30 min/cont) (40/30)	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



1-Saddle CNC Lathes

SPACE TURN **LB EX II series**

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



CNC Lathes

CNC Lathes



		LB2000 EX II	LB3000 EX II	LB4000 EX II	LB2500 EX II
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 ⁻¹	6,000	5,000	4,200	5,000
Turret		V12	V12	V12	V12
Motor	kW (hp)	11/7.5 (20 min/cont) (15/10)	22/15 (30 min/cont) (30/20)	30/22 (30 min/cont) (40/30)	22/15 (30 min/cont) (30/20)
Machine size	mm (in.)	1,980 × 1,734 × 1,839 (77.95 × 68.27 × 72.40)	2,340 × 1,749 × 1,839 (92.13 × 68.86 × 72.40)	3,100 × 1,921 × 1,955 (122.05 × 75.63 × 76.97)	1,880 × 1,734 × 1,770 (74.02 × 68.27 × 69.69)
		2,290 × 1,734 × 1,839 (90.16 × 68.27 × 72.40)	4,344 × 2,162 × 1,975 (171.02 × 85.12 × 77.76)	5,515 × 2,505 × 2,005 (217.13 × 98.62 × 78.94)	
Spec extension		M, W, MY, MW	M, W, MY, MW, MYW	M, MY	M

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

1-Saddle CNC Lathes

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



	GENOS L250II-e*1		GENOS L400II-e*1	
Standard chuck size	in.	8	10	
Max turning dia	ømm (in.)	280 (11.02)	390 (15.35)	
Max work length	mm (in.)	290 (11.42)	500 (19.69)	
Spindle speed	min ⁻¹	3,000	3,000	
Turret		V8	V8	
Motor	kW (hp)	11/7.5/7.5 (10 min/30 min/cont) (15/10/10)	11/7.5 (30 min/cont) (15/10)	
Machine size (W x D x H)	mm (in.)	1,482*2 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)	

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

	GENOS L2000-e*1		GENOS L3000-e*1		GENOS L300-M-e*1	
Standard chuck size	in.	8	10	10		
Max turning dia	ømm (in.)	230 (9.06)	340 (13.39)	300 (11.81)		
Max work length	mm (in.)	290 (11.42)	500 (19.69)	450, 1,060 (17.72, 41.73)		
Spindle speed	min ⁻¹	5,000	3,800	3,000		
Turret		V12	V12	M-V12		
Motor	kW (hp)	15/11 (20 min/cont) (20/15)	22/15 (20 min/cont) (30/20)	15/11 (30 min/cont) (20/15)		
Machine size (W x D x H)	mm (in.)	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)		
Spec extension			M	MY, MW, MYW		

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

HJ-250 / HL series
HL-20 / HL-35



	HJ-250		HL-20		HL-35	
Standard chuck size	in.	8	8	10		
Max turning dia	ømm (in.)	280 (11.02)	350 (13.78)	350 (13.78)		
Max work length	mm (in.)	330 (12.99)	460 (18.11)	610, 1,020 (24.02, 40.16)		
Spindle speed	min ⁻¹	3,000	3,200	3,500		
Turret		V8	V8	V12		
Motor	kW (hp)	7.5/5.5 (15 min/cont) (10/7.5)	15/11 (30 min/cont) (20/15)	18.5/15 (30 min/cont) (25/20)		
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)		
CNC		FANUC	FANUC	FANUC		

1-Saddle CNC Lathes

LB35III / LB45III



	LB35III		LB45III		
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 ⁻¹	3,200	2,800		
Turret		V12	V12		
Motor	kW (hp)	30/22 (30 min/cont) (40/30)	37/30 (30 min/cont) (50/40)		
Machine size (W x D x H)	mm (in.)	4,015 x 2,663 x 2,210 (158.07 x 104.84 x 87.01) 4,885 x 2,663 x 2,325 (192.32 x 104.84 x 91.54) 5,910 x 2,663 x 2,325 (232.68 x 104.84 x 91.54)	4,260 x 3,145 x 2,587 (167.72 x 123.82 x 101.85) 5,760 x 3,145 x 2,617 (226.77 x 123.82 x 103.03) 7,010 x 2,920 x 2,505 (275.98 x 114.96 x 98.62) 8,570 x 3,181 x 2,545 (337.40 x 125.24 x 100.20)		
Spec extension		M	M, MY		

M: Milling, Y: Y-axis

LH55-N



	LH55-N	
Standard chuck size	in.	18
Max turning dia	ømm (in.)	1,000 (39.37)
Max work length	mm (in.)	2,000, 3,000, 4,000, 6,000 (78.74, 118.11, 157.48, 236.22)
Spindle speed	min ⁻¹	1,200
Turret		V8, H6, H4
Motor	kW (hp)	45/37 (30 min/cont) (60/50)
Machine size (W x D x H)	mm (in.)	7,093 x 5,685 x 2,418 (279.25 x 223.82 x 95.20) 8,093 x 5,685 x 2,418 (318.62 x 223.82 x 95.20) 9,093 x 5,685 x 2,418 (357.99 x 223.82 x 95.20)
CNC		OSP

Twin Spindle Turning Centers

TWIN STAR LT EX series
LT2000 EX / LT3000 EX



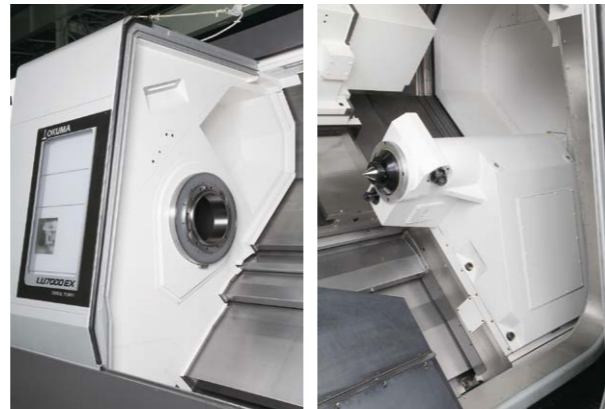
	LT2000 EX		LT3000 EX	
Standard chuck size	in.	6	8	
Max turning dia	ømm (in.)	210 (8.27)	350 (13.78)	
Max work length	mm (in.)	130 (5.12)	200 (7.87)	
Spindle speed	min ⁻¹	6,000	5,000	
Turret		U/L: M-V16	U/L: M-V16	
Motor	kW (hp)	L/R: 11.5/7.5 (5 min/cont) (15/10)	L/R: 22/15 (30 min/cont) (30/20)	
Machine 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 ⁻¹ 5,000	4,200	1,500
Turret	U: V12, L: V8	U: V12, L: V10	U: V12, L: V10
Motor	kW (hp) 22/15 (30 min/cont) (30/20)	22/15 (30 min/cont) (30/20)	45/37 (30 min/cont) (60/50)
Machine size (W × D × H)	mm (in.) 2,950 × 2,176 × 2,080 (116.14 × 85.67 × 81.89) 3,980 × 2,478 × 2,230 (156.69 × 97.56 × 87.80)	3,570 × 2,310 × 2,200 (140.55 × 90.94 × 86.61) 4,780 × 2,620 × 2,440 (188.19 × 103.15 × 96.06)	7,147 × 3,256 × 3,300 (281.38 × 128.19 × 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

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 ⁻¹ 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 × D × H)	mm (in.) 6,060 × 3,205 × 3,042 (238.58 × 126.18 × 119.76) 6,160 × 3,205 × 3,042 (242.52 × 126.18 × 119.76)	7,055 × 3,129 × 2,843 (277.76 × 123.19 × 111.93)

2-Saddle CNC Lathes

LU35II / LU45II



	LU35II	LU45II
Standard chuck size	in. 12	15
Max turning dia	ømm (in.) 550 (21.65)	650 (25.59)
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)
Spindle speed	min ⁻¹ 3,200	2,800
Turret	U: V12, L: V10	U: V12, L: V10
Motor	kW (hp) 30/22 (30 min/cont) (40/30)	37/30 (30 min/cont) (50/40)
Machine size (W × D × H)	mm (in.) 4,535 × 2,872 × 2,590 (178.54 × 113.07 × 101.97) 5,185 × 3,040 × 2,590 (204.13 × 119.69 × 101.97) 5,935 × 3,095 × 2,590 (233.66 × 121.85 × 101.97)	4,750 × 3,340 × 3,042 (187.01 × 131.50 × 119.76) 6,060 × 3,355 × 3,040 (238.58 × 132.09 × 119.69) 8,020 × 3,005 × 2,822 (315.75 × 118.31 × 111.10)
Spec extension	M	M

M: Upper multitasking turret

LU-S1600



	LU-S1600
Standard chuck size	in. 8
Max turning dia	ømm (in.) 160 (6.30)
Max work length	mm (in.) 480, 550, 1,000 (18.90, 21.65, 39.37)
Spindle speed	min ⁻¹ 4,000
Turret	U/L: V6
Motor	kW (hp) 11/7.5 (30 min/cont) (15/10)
Machine size (W × D × H)	mm (in.) 2,913 × 1,980 × 2,054 (114.69 × 77.95 × 80.87) 3,748 × 2,282 × 2,247 (147.56 × 89.84 × 88.46)
CNC	OSP / FANUC

SPL-200



	SPL-200
Standard chuck size	in. 8
Max turning dia	ømm (in.) 200 (7.87)
Max work length	mm (in.) 100 (3.94)
Spindle speed	min ⁻¹ 4,000
Turret	L/R: V8
Motor	kW (hp) 15/11 (30 min/cont) (20/15)
Machine size (W × D × H)	mm (in.) 1,550 × 1,935 × 2,015 (61.02 × 76.18 × 79.33)
CNC	FANUC

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 ⁻¹	2,000	1,250	2,500	1,250
Turret		V12	V12	V12	V12
Motor	kW (hp)	30/22 (30 min/cont) (40/30)	30/22 (30 min/cont) (40/30)	22/18.5 (30 min/cont) (30/25)	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

SV250



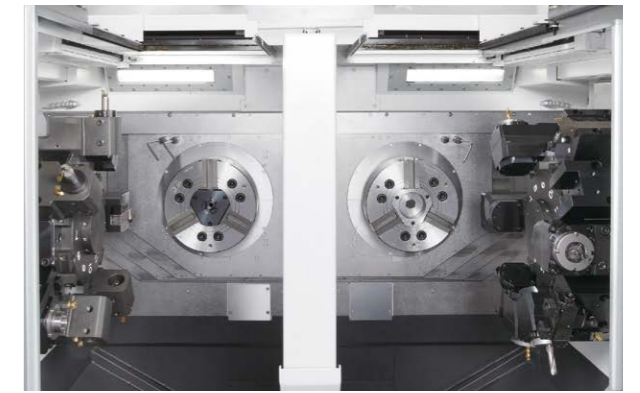
		SV250
Applicable chuck sizes	in.	8, 10
Max turning dia	ømm (in.)	250 (9.84)
Max work length (height)	mm (in.)	350 (13.78)
Spindle speed	min ⁻¹	6,000
Turret		V12
Motor	kW (hp)	15/11 (short time/cont) (20/15)
Machine size (W × D × H)	mm (in.)	950 × 2,600 × 2,445 (37.40 × 102.36 × 96.26)
Spec extension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

M: Milling

Parallel Spindle CNC Lathes

2SP-H/HG series

2SP-2500H / 2SP-150H
2SP-10HG / 2SP-35HG



		2SP-2500H	2SP-150H	2SP-10HG	2SP-35HG
Standard chuck size	in.	8	6	6	10
Max turning dia	ømm (in.)	200 [410]* (7.87 [16.14])	150 [220]* (5.91 [8.66])	100 (3.94)	380 (14.96)
Max work length	mm (in.)	125 [200]* (4.92 [7.87])	80 [150]* (3.15 [5.91])	100 (3.94)	230 (9.06)
Spindle speed	min ⁻¹	5,000	4,500	5,000	2,000
Turret		L/R: V12	L/R: V12	L/R: V8	L/R: V12
Motor	kW (hp)	15/11 (20 min/cont) (20/15)	11/7.5 (30 min/cont) × 2 (15/10)	7.5/5.5 (30 min/cont) × 2 (10/7.5)	18.5/15 (30 min/cont) × 2 (25/20)
Machine size (W × D × H)	mm (in.)	2,200×2,734 (machine only) (86.61 × 107.64) ×3,259 (max loader ht) (× 128.31)	1,850×2,150 (machine only) (72.83 × 84.65) ×2,648 (max loader ht) (× 104.25)	1,650×1,825 (machine only) (64.96 × 71.85) ×2,861 (max loader ht) (× 112.64)	3,200×2,765 (machine only) (125.98 × 108.86) ×4,052 (max loader ht) (× 159.53)
Spec extension		M	M	M	M
CNC		OSP / FANUC	OSP / FANUC	FANUC	OSP / FANUC

* Machine capacity without loader application

M: Milling

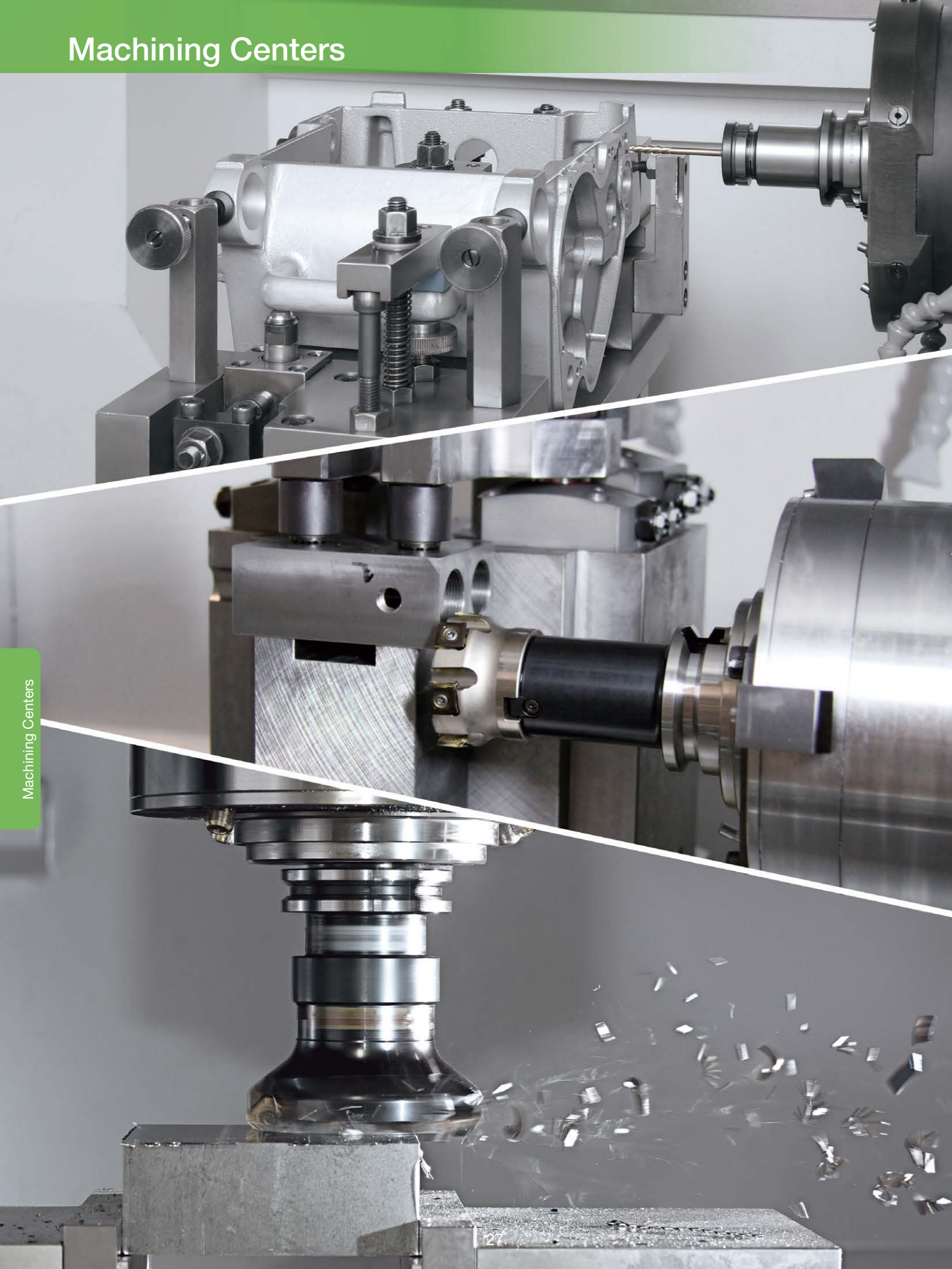
Aluminum Wheel Applications

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 ⁻¹	3,000	3,000	3,000
Turret		U: V6, L: V4	L/R: V6	V12
Motor	kW (hp)	55/45 (20 min/cont) (75/60)	55/45 (20 min/cont) (75/60)	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 × 2,800 × 2,250 (138.67 × 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 ⁻¹	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)	11/7.5 (10 min/cont) (15/10)	11/7.5 (10 min/cont) (15/10)	11/7.5 (10 min/cont) (15/10)	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 ⁻¹	20,000
Tool storage	tools	20
Motor	kW (hp)	15/11 (10 min/cont) (20/15)
Machine size (W x D x H)	mm (in.)	2,224 x 2,734 x 2,630* (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 ⁻¹	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 (in.)	2,225 x 2,810 x 2,746 (87.60 x 110.63 x 108.11)	2,564 x 3,194 x 2,746 (100.94 x 125.75 x 108.11)

* 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 ⁻¹	6,000	6,000
Tool storage	tools	32	32
Motor	kW (hp)	22/15/11 (10 min/30 min/cont) (30/20/15)	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 ⁻¹	12,000	
Tool storage	tools	16	
Motor	kW (hp)	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 ⁻¹	6,000	6,000	4,000
Tool storage	tools	20	20	20
Motor	kW (hp)	18.5/11 (15%ED/cont) (25/15)	15/11 (30 min/cont) (20/15)	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 ⁻¹	4,000	4,000	4,000
Tool storage	tools	36	36	36
Motor	kW (hp)	18.5/15 (30 min/cont) (25/20)	18.5/15 (30 min/cont) (25/20)	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

SPACE CENTER 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 ⁻¹	6,000	6,000	8,000	6,000	6,000
Tool storage	tools	40	40	30	40	81
Motor	kW (hp)	30/22 (10 min/cont) (40/30)	30/22 (10 min/cont) (40/30)	15/11 (10 min/cont) (20/15)	30/22 (10 min/cont) (40/30)	45/37 (20 min/cont) (60/50)
Machine size (W × D × H)	mm (in.)	3,110 × 5,971 × 3,174 (122.44 × 235.08 × 124.96)	3,410 × 6,495 × 3,174 (134.25 × 255.71 × 124.96)	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 × 12,512 × 3,781 (270.87 × 492.6 × 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 ⁻¹	15,000	15,000	6,000	6,000
Tool storage	tools	48	48	40	40
Motor	kW (hp)	26/18.5 (10 min/cont) (35/25)	26/18.5 (10 min/cont) (35/25)	30/22 (10 min/cont) (40/30)	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

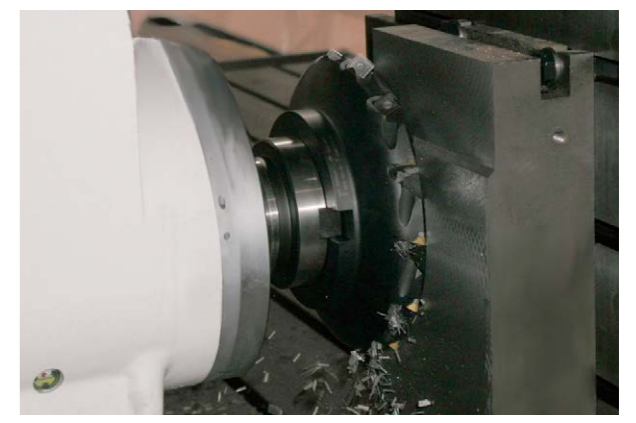


		MILLAC 44HII		MILLAC 55HII	
		Rotary table	2APC	Rotary table	2APC
Table size	mm (in.)	ø320 (ø12.60)	(Pallet) 320 × 320 (12.60 × 12.60)	ø500 (ø19.69)	(Pallet) 400 × 400 (15.75 × 15.75)
Max work size	mm (in.)	ø400 × 500 (ø15.75 × 19.69)		ø500 × 600 (ø19.69 × 23.62)	
Spindle speed	min ⁻¹	12,000		8,000	
Tool storage	tools	10		30	
Motor	kW (hp)	15/11 (25% ED/cont) (20/15)		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 (× 105.32)	× 2,675 (× 105.31)	× 2,760 (× 108.66)	× 2,760 (× 108.66)
CNC		OSP / FANUC		OSP / FANUC	

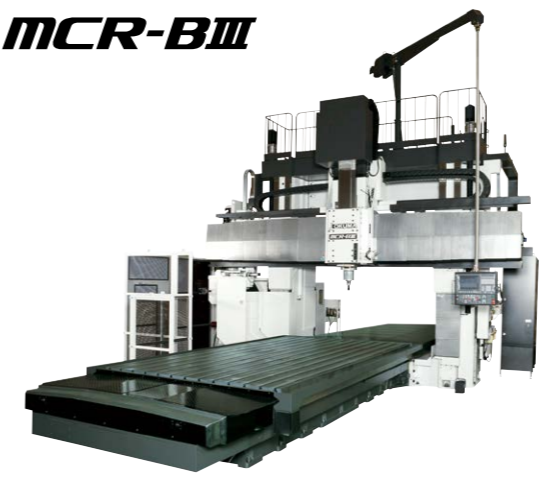


Double-Column Machining Centers (5-Face Machining)

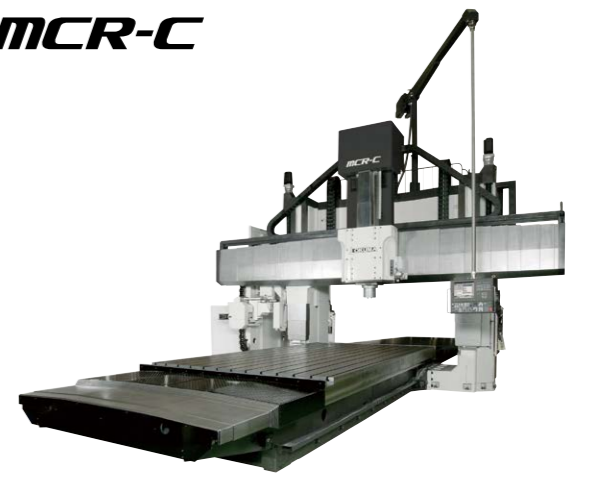
MCR-A5CII



MCR-BIII



MCR-C



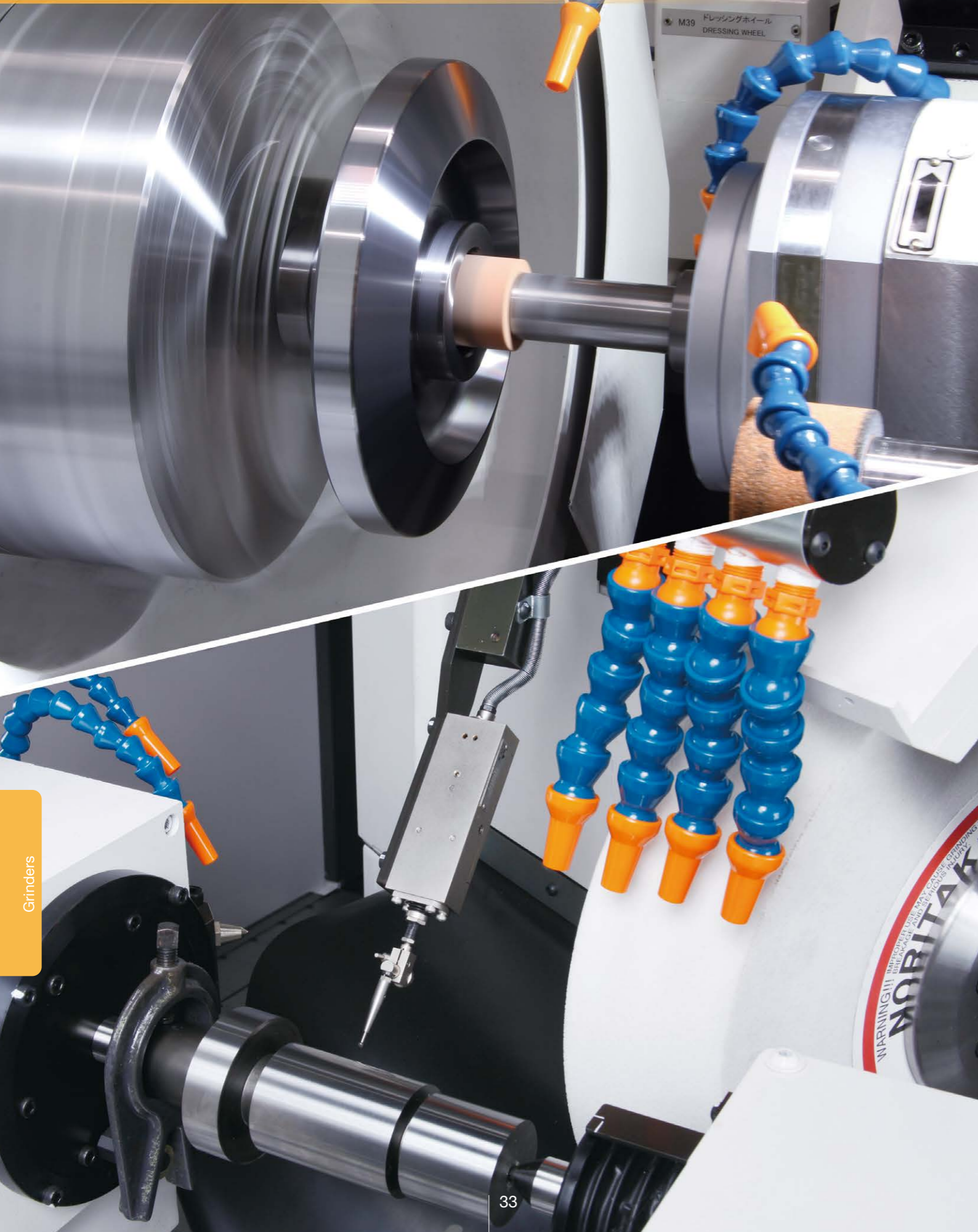
		MCR-A5CII	MCR-BIII	MCR-C
Effective width between columns	mm (in.)	2,150 to 3,650 (84.65 to 143.70)	2,050 to 3,550 (80.71 to 139.76)	2,650 to 3,650 (104.33 to 143.70)
Table working surface	mm (in.)	1,500 x 3,000 to 3,000 x 12,000 (59.06 x 118.11 to 118.11 x 472.44)	1,500 x 2,800 to 3,000 x 11,800 (59.06 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 ⁻¹	4,000	4,000	4,000
Tool storage	tools	50	32	50
Motor	kW (hp)	26/22 (30 min/cont) (35/30)	30/22 (30 min/cont) (40/30)	45/37 (30 min/cont) (60/50)
Machine size (W x D x H)	mm (in.)	6,180 x 8,430 x 5,820 to (243.31 x 331.89 x 229.13 to) 7,780 x 27,930 x 6,300 (306.30 x 1099.61 x 248.03)	6,950 x 8,200 x 6,250 to (273.62 x 322.83 x 246.06 to) 8,700 x 27,400 x 6,850 (342.52 x 1078.74 x 269.69)	7,810 x 10,730 x 6,720 to (307.48 x 422.44 x 264.57 to) 8,835 x 27,930 x 6,900 (347.83 x 1099.61 x 271.65)

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 5,000 (47.24 x 70.87 to 59.06 x 196.85)	2,000 x 1,500, 2,000 x 2,000 (78.74 x 59.06, 78.74 x 78.74)
Spindle speed	min ⁻¹	4,000	8,000
Tool storage	tools	24	24
Motor	kW (hp)	22/18.5 (30 min/cont) (30/25)	26/22 (30 min/cont) (35/30)
Machine size (W x D x H)	mm (in.)	4,935 x 6,000 x 4,375 to (194.29 x 236.22 x 172.24 to) 5,335 x 12,920 x 4,585 (210.04 x 508.66 x 180.51)	5,560 x 4,200 x 4,670, (218.90 x 165.35 x 183.86) 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

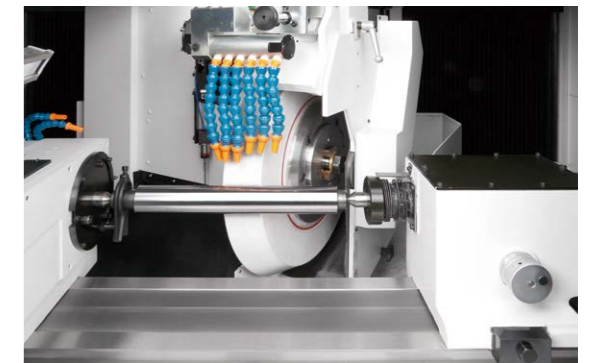


GP/GA-FII series

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 × 2,932 × 2,218 (79.92, 98.82 × 115.43 × 87.32)	2,300 to 5,610 × 2,566 × 2,000 (90.55 to 220.87 × 101.02 × 78.74)	2,300 to 5,610 × 2,566 × 2,000 (90.55 to 220.87 × 101.02 × 78.74)

CNC Internal Grinders

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



		GI-2N-SP	GI-10NII	GI-20NII
Spindle support capacity weight × length	kg × mm (lb × in.)	-	100 × 150 (220 × 5.91)	150 × 200 (330 × 7.87)
Swing in chuck guard	mm (in.)	-	350 (13.78)	400 (15.75)
Bore grinding	mm (in.)	2 to 20 (0.08 to 0.79)	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 (hp)	1.5 (2)	5.5 (7.5)	5.5 (7.5)
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)	2,490 × 2,955 × 2,030 (98.03 × 116.34 × 79.92)

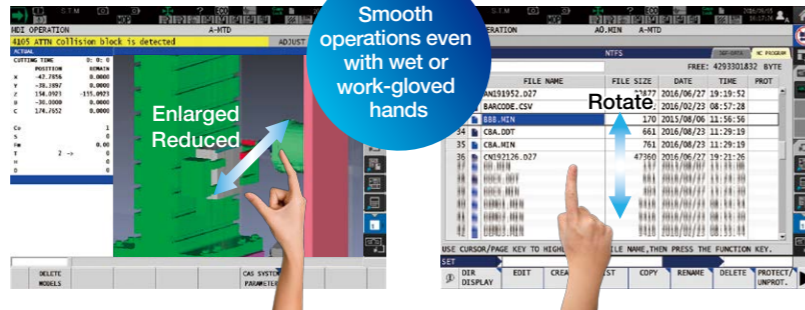
The Next-Generation Intelligent CNC

OSP-P300A OSP suite



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

Making new machining technology simpler and easier to use
Turn-Cut Guide (Optional)

Increased productivity through visualization of motor power reserve
Spindle Output Monitor

Calculation of required theoretical values based on input of chuck and cylinder types
Chuck Pressure Calculation

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

Skilled programmers especially will be able to create part programs even faster from CAD data for reliable CNC machine tool applications.

3D Virtual Monitor

How to eliminate test cuts and reduce program verification times to 1/10

Okuma's 3DVM software, based on your tooling, workpiece, fixture setup, and part program, provides accurate 3-dimensional simulations and interference checks (alarms) in a virtual machine on a PC at your desk.

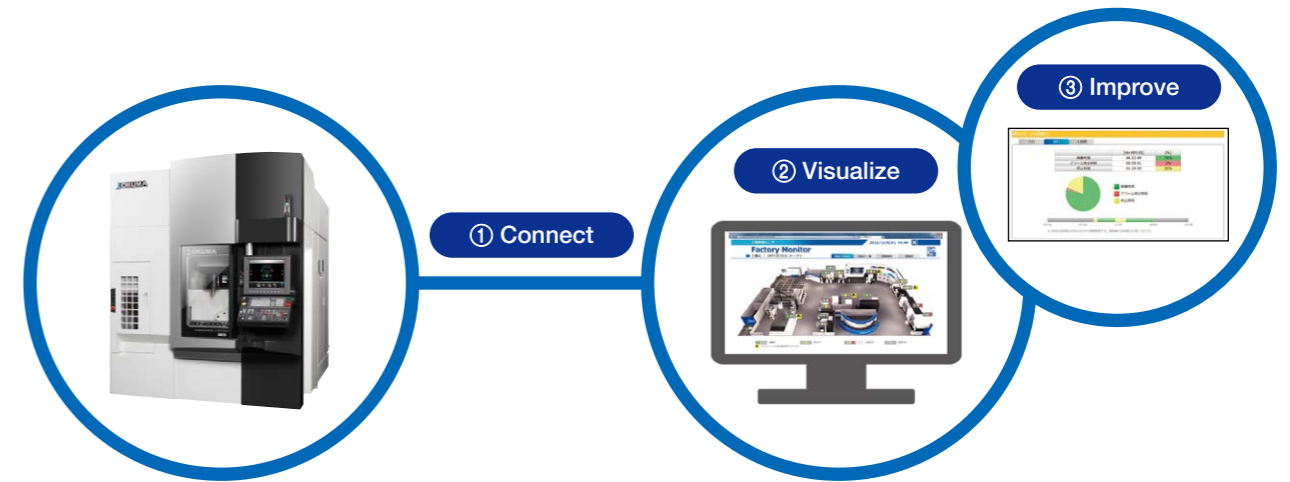
Okuma Smart Factory

Connect Plan

Connect, Visualize, Improve

Okuma's Connect Plan is a system that provides analytics for improved utilization by connecting machine tools and visual control of factory operation results and machining records. Simply connect the OSP and a PC and install the Factory Monitor suite on the PC to see the machine operation status from the shop floor, from an office, from anywhere.

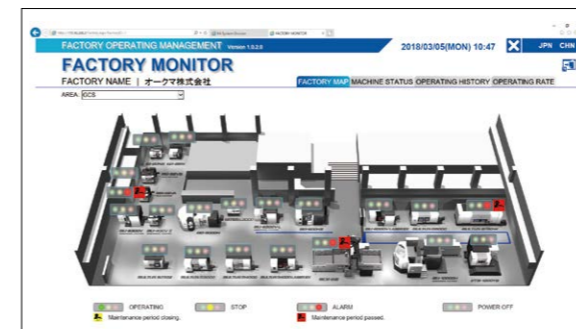
The Connect Plan is an ideal solution for customers trying to raise their machine utilization.



Analyze your factory present and past, improve the future

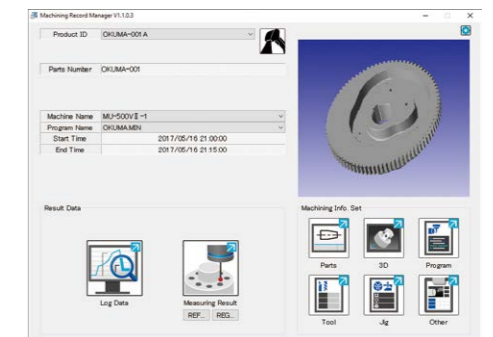
Visualization of past and present operation results
Factory operation control

This function reduces machine stop times and raises utilization by visualizing past and present operation results, for analysis and future improvements.



Achieving machining traceability
Machining record management

Machining record management is a function to achieve machining traceability by tying together the individual ID of the machined workpiece and the machining results and gauging results for each machine.



Okuma Regional Offices

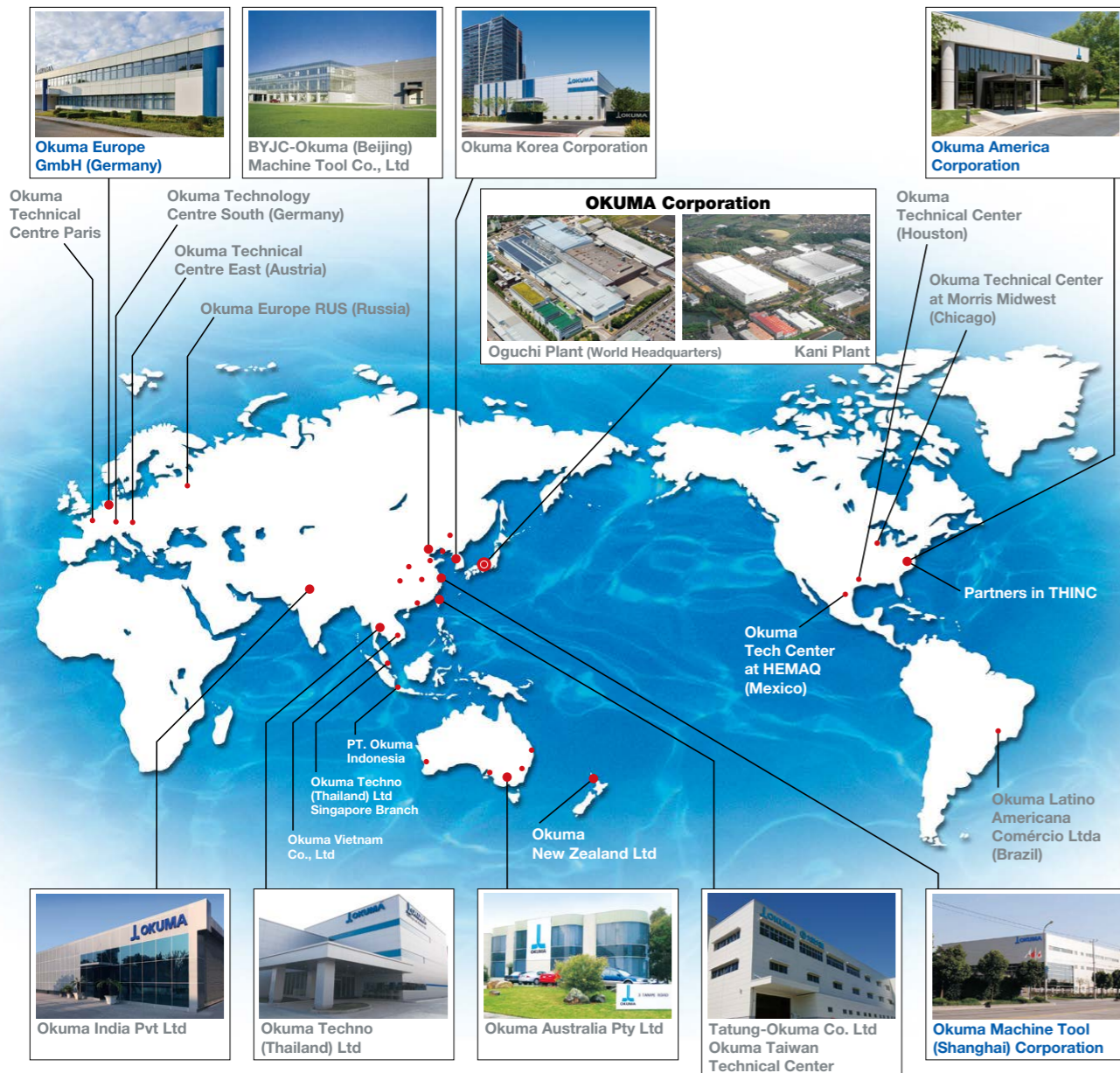
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Okuma's Global Support System



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