

Machine Tools

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

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 flowing, overlapping blue and white curved lines, resembling a stylized wave or a dynamic motion effect.

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



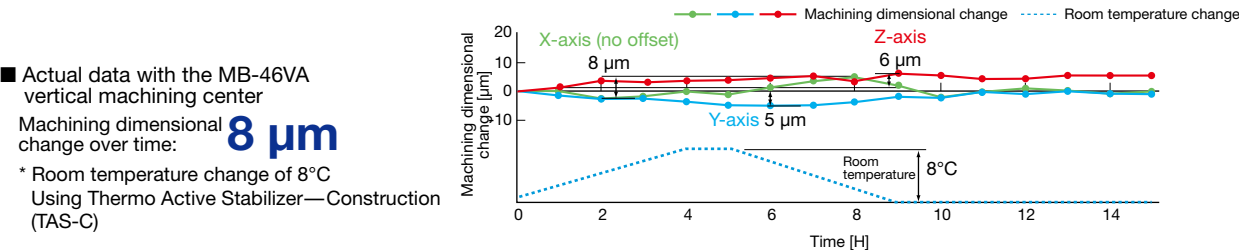
On machine shop floors there are many issues that can hinder accuracy and production efficiency. Examples include thermal deformation of the machine from temperature changes and misalignment of axes in multi-axis machining. Interference or collision of machine moving parts, chatter vibration when cutting—these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

Thermo-Friendly Concept Manageable Deformation — Accurately Controlled

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.



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

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

Manual adjustment without 5-Axis Auto Tuning System
Max 12 μm

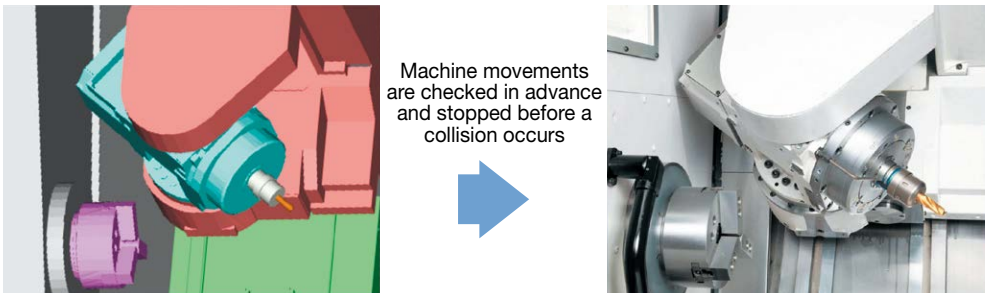
After using 5-Axis Auto Tuning System
Max 3 μm



Improved ease of use with Intelligent Technologies

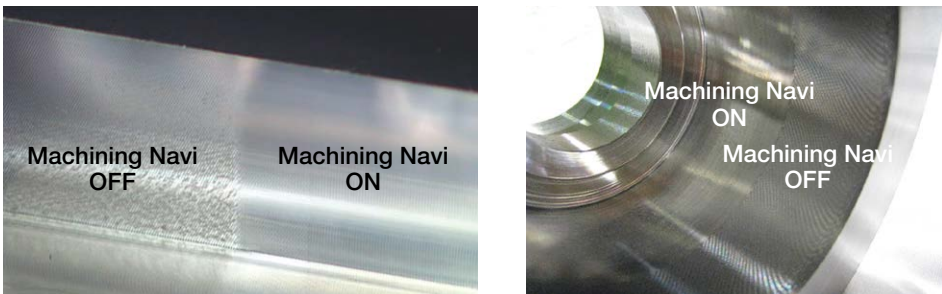
Collision Avoidance System Collision prevention

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.



Machining Navi Cutting condition search

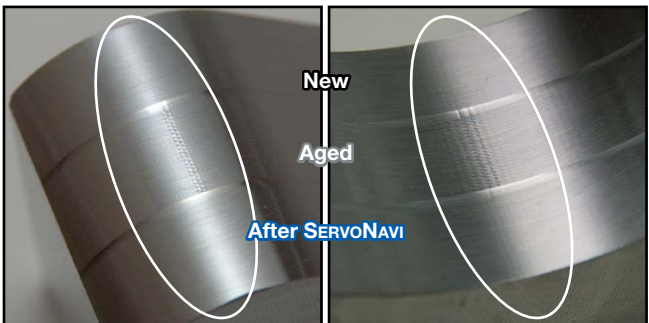
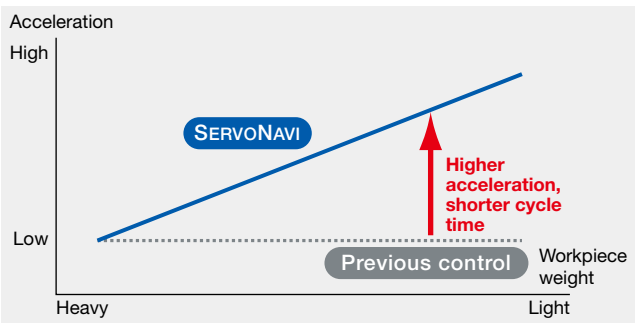
Rotation speed can't be increased due to worries about occurrence of chatter. Machining Navi solves this worry. It finds the optimal machining conditions by utilizing superior detection and control functions. This contributes not only to surface refinement, but also reduction of processing time, improvement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



Navigate to the best cutting conditions with spindle speed optimization and control

SERVONAVI Optimized Servo Control

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.



Premium Solutions

Usable, helpful and effective
Okuma solutions

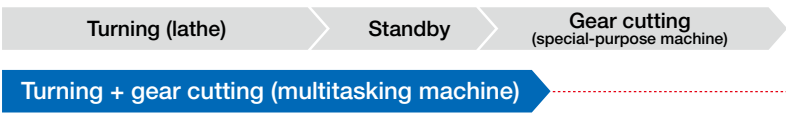
Okuma’s accumulated solutions technology is brought together to provide valuable functions that easily and simply solve difficult, bothersome, and time-consuming machining and preparation problems for streamlining and efficiency.

Gear Machining Package
Easy multitasking for gears

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)

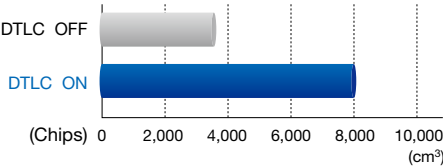


Dynamic Tool Load Control
Dramatically improved productivity of difficult-to-cut materials

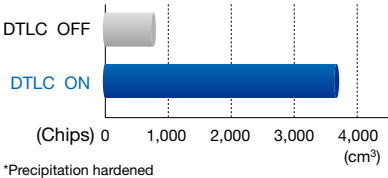
DTLC suppresses chipping of insert tools on difficult-to-cut materials like titanium alloy, to achieve stable processing and longer tool life.

[Actual results]

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

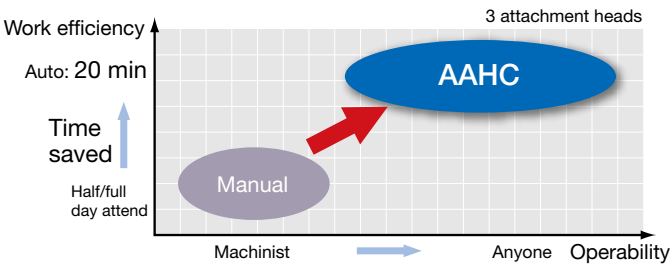


■ Tool life (SUS*) 5.2 times (Okuma comparison)



Auto Attachment Head Compensation
Easy rotational compensation for double columns

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).

Next-Generation Robot System

The ROID Series
Automation systems that are easy to operate and easy to install

Equipped with ROID Navi, a programming support tool developed especially for machine tool operators—making complex robotic programming easy. Moreover, Okuma’s Collision Avoidance System assures worry-free machine/robot operations.

The ROID Series is truly a system of operator-friendly automation solutions.

ARMROID

This articulated robot is “built-in” the workspace area. ARMROID provides in-machine processing support that cannot be achieved with externally installed robots.



LB3000 EX II ARMROID
[CNC Lathe + Built-in Robot]

Note: Photo with a workpiece stocker (option)



Articulated robot

Achieve high-level processing support
possible only with built-in robots

ARMROID provides “in-process support” (not possible with conventional robots), such as part load/unload, part flip, chatter suppression, chip removal, and workspace cleaning.

Improving production efficiency
through human and robot work sharing

Easily switch from a single machine to a robot automated cell simply by adding a mobile workpiece stocker (option).

For example, the robot can be on standby during the day while the operator handles small batches of part load/unload and other flexible jobs, and then automatic operations done by the robot can be done at night.

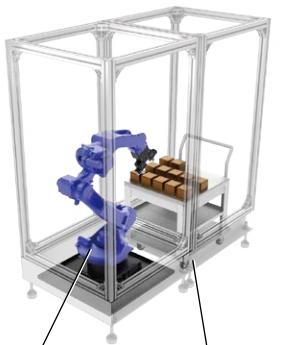
STANDROID

This smartly designed "robot package" with pushcart workpiece stocker is attached outside the machine. That provides for compact, minimal, and easy automation system setups.



MB-56VB STANDROID
[Vertical Machining Center + EZ Robot Package]

Standard Package



Robot

Workpiece stocker

Easy one-day setup

Installation or relocation are easily done “package” setups—wiring included. After installation, you can start operation immediately.

Expansion packages for growing
applications

Optional many package units have been designed to meet the workpiece, lot size, scope of automation, and other production requirements.

Package units can be selected according to the production mode, and an optimal automated system can be built.

Okuma's product lineup responds to diverse needs

Super Multitasking Machines

P10



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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■ 5-Axis Vertical Machining Centers



MU-S600V

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■ 5-Axis Horizontal Machining Center



MU-400VII

P14

■ 5-Axis Horizontal Machining Center



MU-10000H

P14

■ Large 5-Axis Machining Centers



MILLAC 800VH
MILLAC 1000VH

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■ 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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■ Intelligent Multitasking Machines



MULTUS B200II
MULTUS B250II
MULTUS B300II
MULTUS B400II

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■ 5-Axis Vertical Multitasking Machines



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

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■ Vertical Multitasking Machines



VTM-65
VTM-100
VTM-200

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■ Double-Column Multitasking Machines



VTR-160A
VTR-350A

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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■ 1-Saddle CNC Lathes



GENOS L250II-e
GENOS L400II-e
GENOS L2000-e
GENOS L3000-e

P21

■ 1-Saddle CNC Lathes



HJ-250*

P21

■ 1-Saddle CNC Lathes



HL-20*
HL-35*

P22

■ 1-Saddle CNC Lathes



LB35II
LB45II

P22

■ 1-Saddle CNC Lathes



P22

■ 1-Saddle CNC Lathes



LT2000 EX
LT3000 EX

P22

■ 1-Saddle CNC Lathes



LU3000 EX
LU4000 EX
LU7000 EX

P23

■ 2-Saddle CNC Lathes



LU3000 EX
LU4000 EX
LU7000 EX

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■ 1-Saddle CNC Lathes



LOC500
LOC650

P24

■ 1-Saddle CNC Lathes



LU-S1600

P25

■ Vertical Lathes



V40R
V760EX
V920EX
V100R

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■ 2-Spindle Horizontal CNC Lathes



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

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■ 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



MB-80V



MP-46V



GENOS M460-VE-e
GENOS M560-V-e
GENOS M660-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-400HA
MA-800HB



MA-500HII
MA-600HII



MA-12500H



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



MB-5000HII



MILLAC 44HII*
MILLAC 55HII*

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



MCR-A5CII



MCR-BV



MCR-C



MCR-S



MCV-AII



MCR-AF

■ Double-Column Machining Centers

Grinders

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■ CNC Cylindrical Grinders



GA14/15W
GP14/15W



GA25/26W
GP25/26W



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



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



GP-47/57/67N

■ CNC Internal Grinders



GI-10NII



GI-20NII

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]

P36

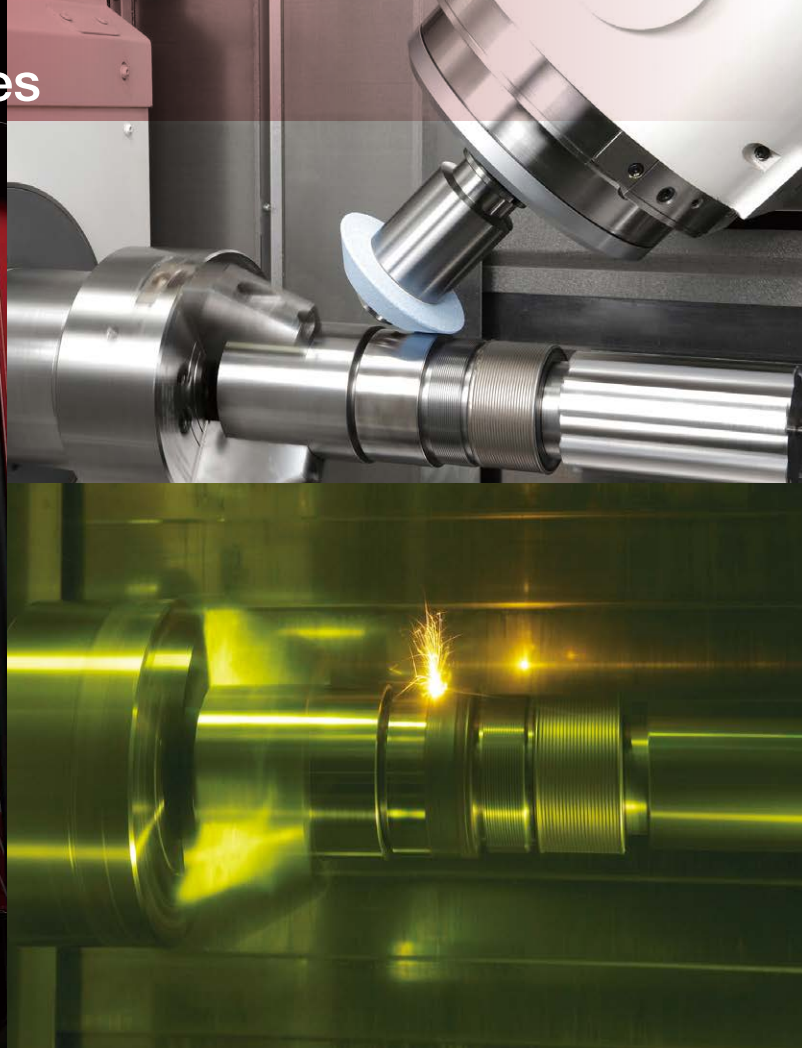
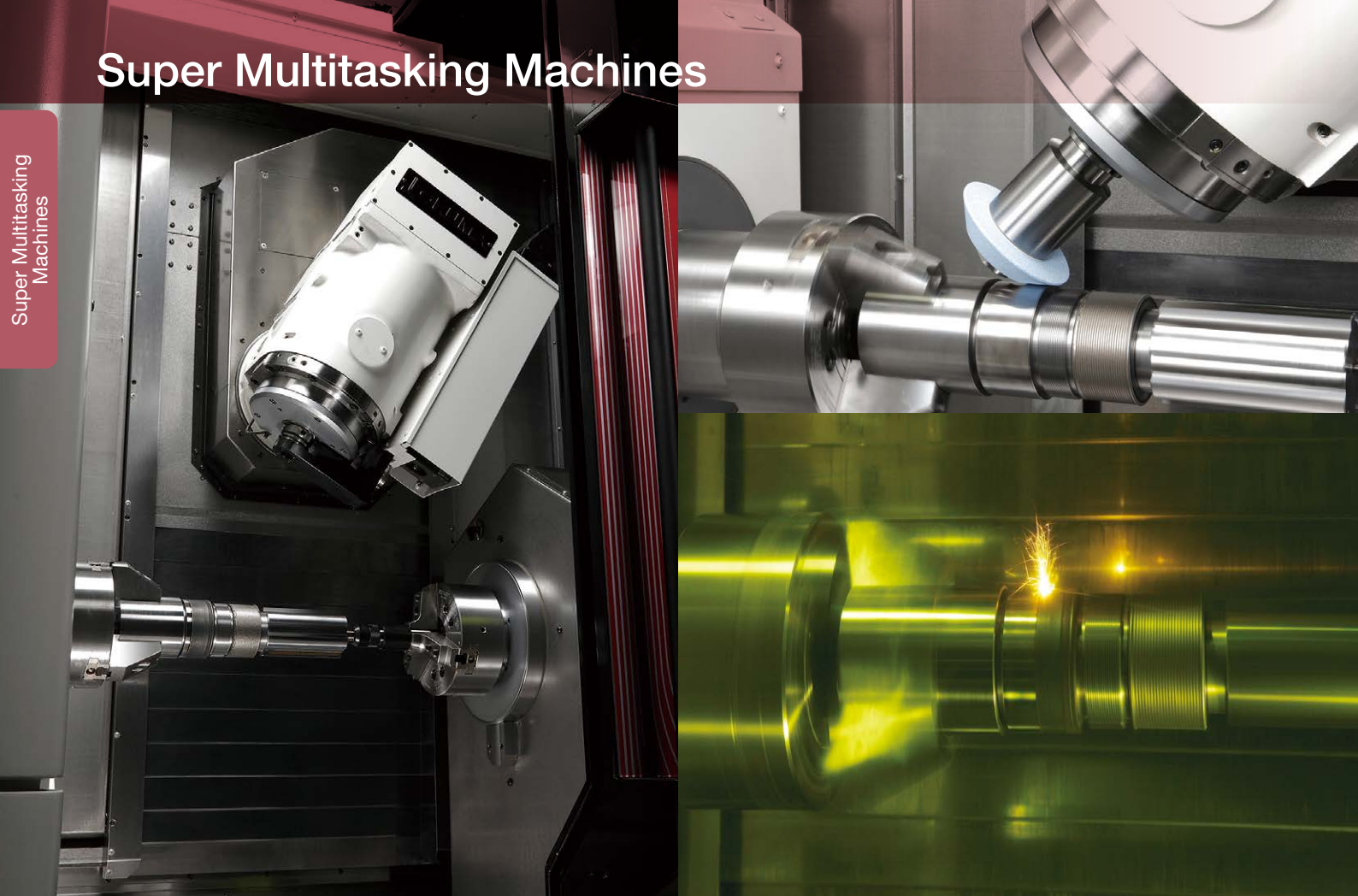
■ IoT solution

Connect Plan

* Not available with CE conformity certification.

Super Multitasking Machines

Super Multitasking Machines



Super Multitasking Machines

LASER EX Series

MU-5000V LASER EX / MU-6300V LASER EX / MU-8000V LASER EX
MULTUS U3000 LASER EX / MULTUS U4000 LASER EX / MULTUS U5000 LASER EX

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.



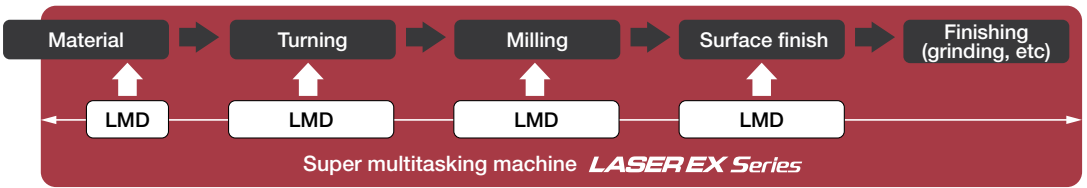
Handles workpieces of various sizes and shapes

Examples

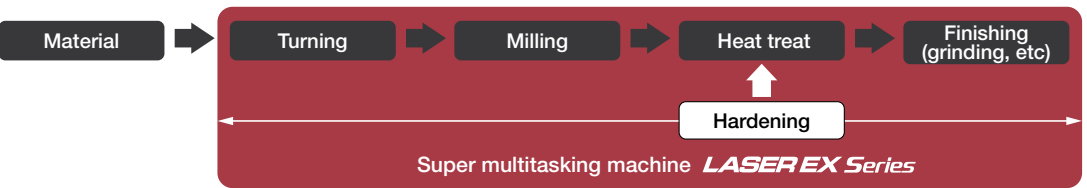


【LASER EX series produces manufacturing innovations】

LMD (Laser metal deposition)
& Coating
Specifications



Hardening
Specifications



Super Multitasking Machines

5-Axis Machining Centers / Multitasking Machines

5-Axis Machining Centers
Multitasking Machines



5-Axis Vertical Machining Centers

MU-V Series *UNIVERSAL CENTER*
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 × 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)	1,586 × 3,315 × 2,994 (62.44 × 130.51 × 117.87)

MU-400V II UNIVERSAL CENTER



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 × D × H)	mm (in)	2,160 × 2,810 × 2,946 (85.04 × 110.63 × 115.98)

5-Axis Horizontal Machining Center

MU-10000H UNIVERSAL CENTER



MU-10000H		
Pallet size	mm (in)	1,000 × 1,000 (39.37 × 39.37)
Max workpiece dimensions	mm (in)	ø1,500 × 1,175 (ø59.06 × 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 × D × H)	mm (in)	6,880 × 10,930 × 3,694 (270.87 × 430.31 × 145.43)

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 ⁻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 × D × H)	mm (in)	4,760 × 6,390 × 3,600* (187.40 × 251.57 × 141.73)	5,228 × 7,117 × 4,455 (205.83 × 280.20 × 175.39)
CNC		OSP / FANUC	OSP / FANUC

*Step excluded

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) (51/37)
Machine size (W × D × H)	mm (in)	6,750 × 3,236 × 3,065* (265.75 × 127.40 × 120.67)

* Does not include coolant tank

Intelligent Multitasking Machines

MULTUS 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, 3,000 (59.06, 78.74, 118.11)
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 × D × H)	mm (in)	4,925 × 2,995 × 2,955 (193.90 × 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)
		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)
				7,935 × 2,995 × 3,090 (312.40 × 117.91 × 121.65)
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 × D × H)	mm (in)	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)
		3,620 × 2,210 × 2,582 (142.52 × 87.01 × 101.65)			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 ⁻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 × D × H)	mm (in)	8,030 × 3,258 × 3,307 (316.14 × 128.27 × 130.20)	9,130 × 3,532 × 3,557 (359.45 × 139.06 × 140.04)
		9,130 × 3,258 × 3,307 (359.45 × 128.27 × 130.20)	10,555 × 3,532 × 3,607 (415.55 × 139.06 × 142.01)
			13,505 × 3,797 × 3,610 (531.69 × 149.49 × 142.13)
Spec extension		W	W

W: Opposing spindle

5-Axis Vertical Multitasking Machines

VTM-YB Series

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



		VTM-80YB	VTM-1200YB	VTM-2000YB
Applicable chuck sizes	in	28, 32	36, 40	—
Maximum table size	ømm (oin)	915 (36.02)	1,250 (49.21)	2,000 (78.74)
Max machining dia	ømm (oin)	800 (31.50)	1,200 (47.24)	2,000 (78.74)
Max work length (height)	mm (in)	1,135 (44.69)	1,080 (42.52)	1,400 (55.12)
Spindle speed	min ⁻¹	800	500	300
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 × D × H)	mm (in)	5,256 × 4,860 × 4,350 (206.93 × 191.34 × 171.26)	5,512 × 5,471 × 4,273 (217.01 × 215.39 × 168.23)	5,970 × 6,973 × 4,967 (235.04 × 274.53 × 195.55)
CNC		OSP / FANUC	OSP / FANUC	OSP / FANUC

Vertical Multitasking Machines

VTM Series

VTM-65 / VTM-100 / VTM-200

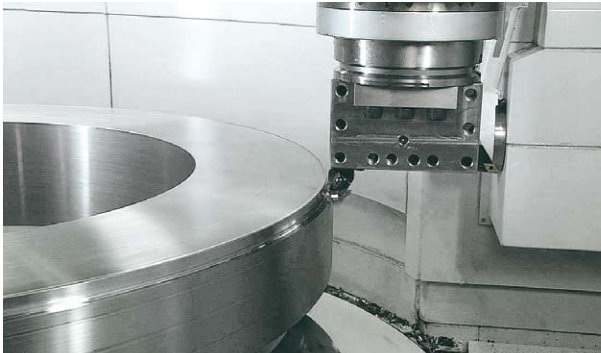


		VTM-65	VTM-100	VTM-200
Applicable chuck sizes	in	18, 21, 24	24, 28, 32, 36	—
Maximum table size	ømm (oin)	610 (24.02)	915 (36.02)	2,000 (78.74)
Max machining dia	ømm (oin)	650 (25.59)	1,000 (39.37)	2,000 (78.74)
Max work length (height)	mm (in)	635 (25.00)	840 (33.07)	1,200 (47.24)
Spindle speed	min ⁻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 × D × H)	mm (in)	4,066 × 2,990 × 4,000 (160.08 × 117.72 × 157.48)	4,286 × 3,175 × 4,300 (168.74 × 125.00 × 169.29)	5,561 × 5,258 × 4,603 (218.94 × 207.01 × 181.22)
CNC		OSP / FANUC	OSP / FANUC	OSP / FANUC

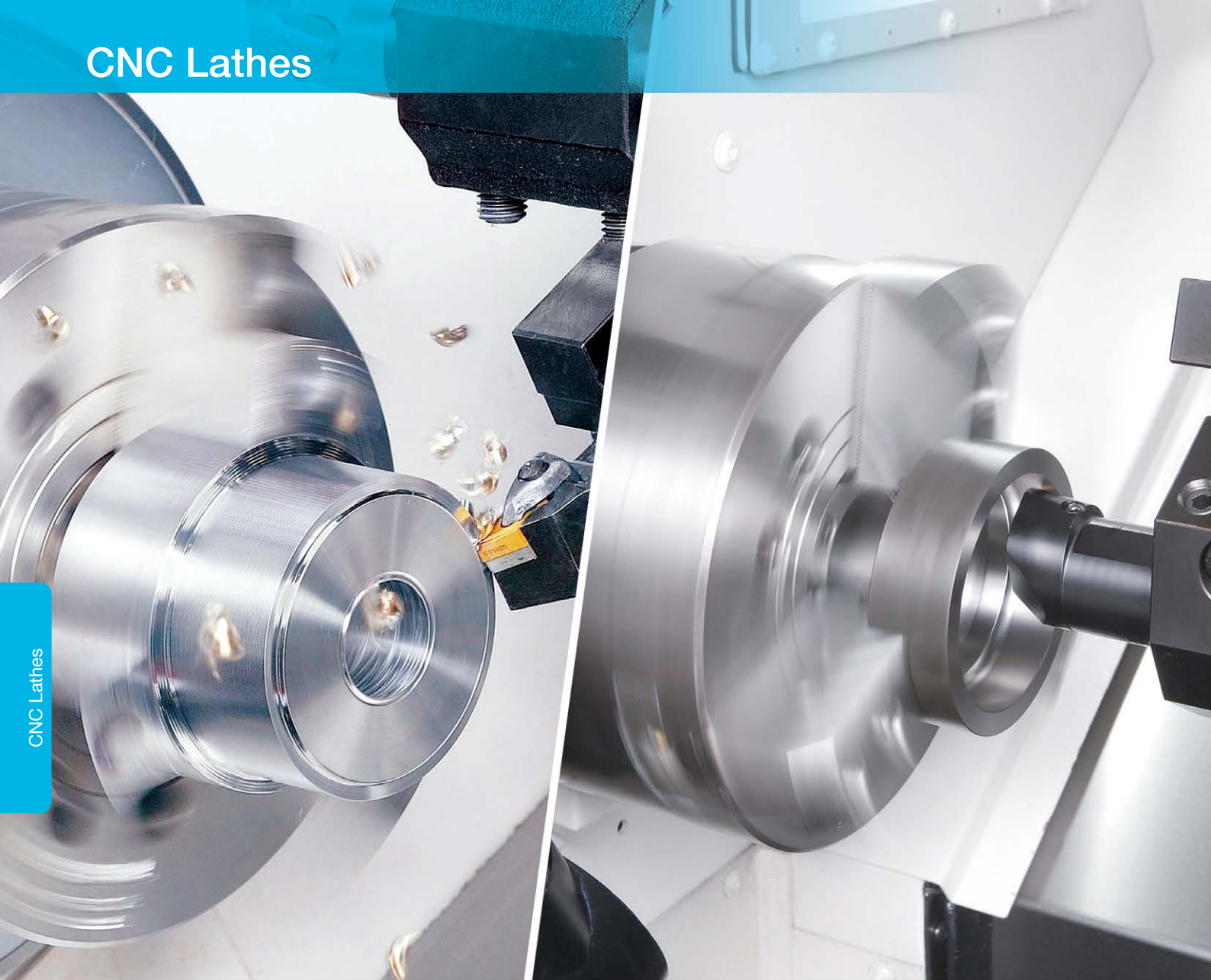
Double-Column Multitasking Machines

VTR-A Series

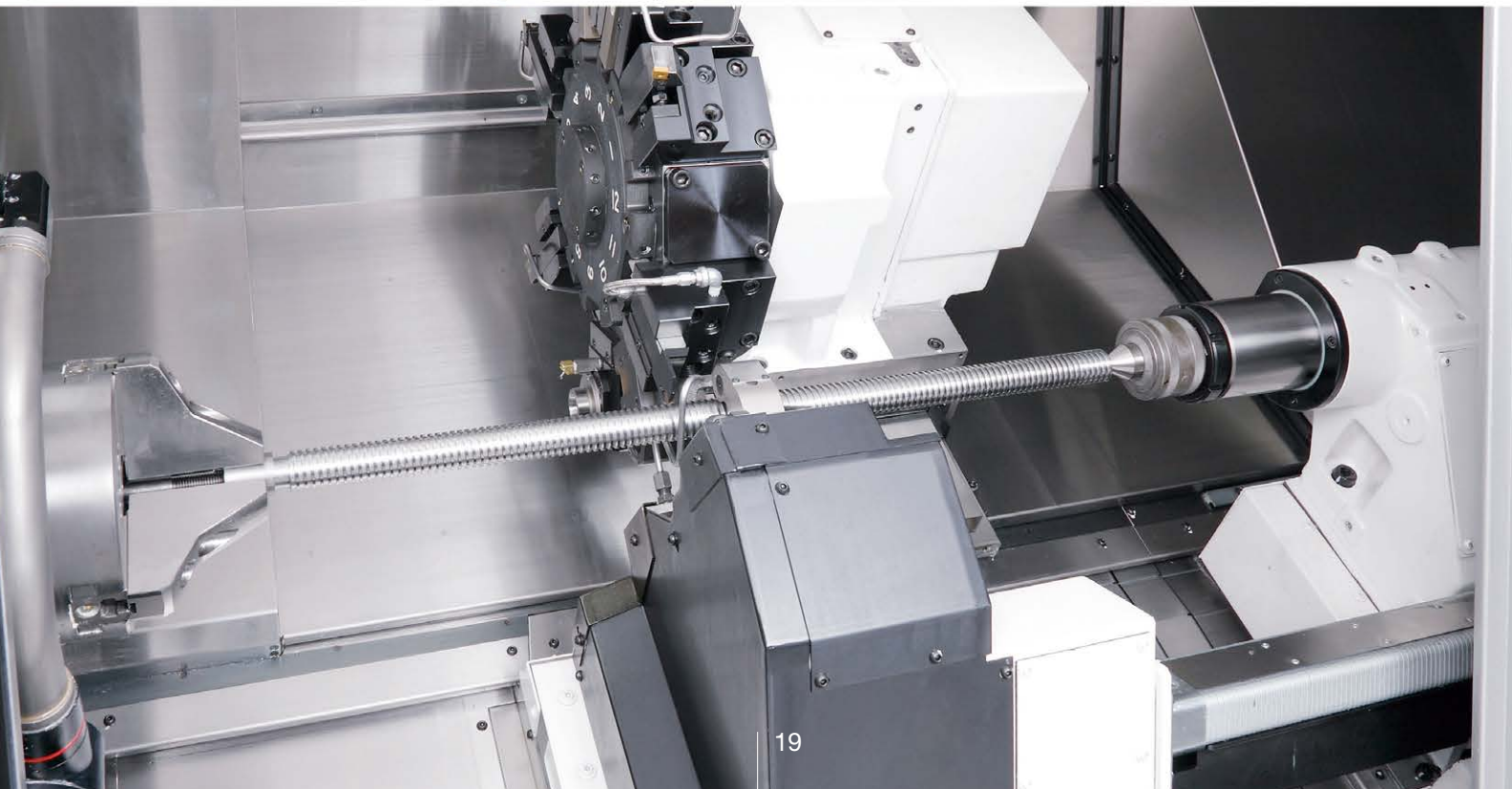
VTR-160A / VTR-350A



		VTR-160A	VTR-350A
Maximum table size	ømm (oin)	1,250 (49.21)	3,200 (125.98)
Max machining dia	ømm (oin)	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 × D × H)	mm (in)	6,550 × 3,693 × 5,000 (257.87 × 145.39 × 196.85)	8,615 × 5,374 × 6,300 (339.17 × 211.57 × 248.03)



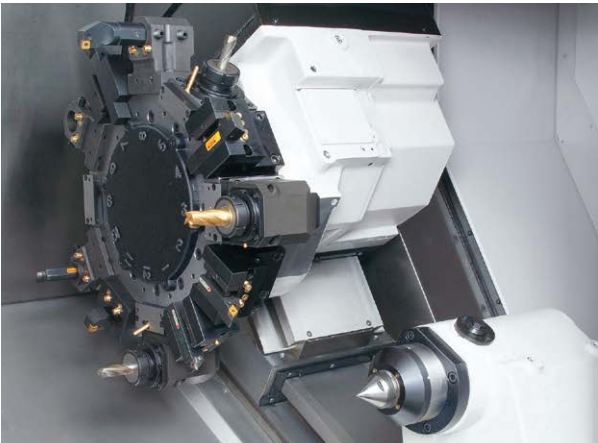
CNC Lathes



1-Saddle CNC Lathes

LB EX II Series SPACE TURN

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



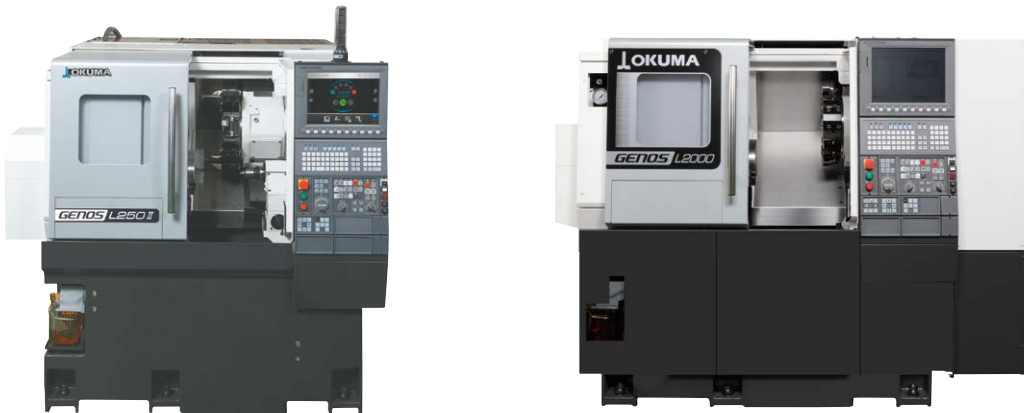
CNC Lathes

		LB2000 EX II	LB3000 EX II	LB4000 EX II	LB2500 EX II
Standard chuck size	in	6	8	10	8
Max turning dia	ømm (oin)	430 (16.93)	410 (16.14)	480 (18.90)	410 (16.14)
Max work length	mm (in)	300, 520 (11.81, 20.47)	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 (W × D × H)	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 × 1,805 × 1,824 (92.13 × 71.06 × 71.81) 3,420 × 2,065 × 1,975 (134.65 × 81.30 × 77.76) 4,344 × 2,185 × 1,975 (171.02 × 86.02 × 77.76)	3,100 × 1,921 × 1,955 (122.05 × 75.63 × 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 × 1,840 × 1,770 (74.02 × 72.44 × 69.69)
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 L250II-e*1			GENOS L400II-e*1		
Standard chuck size	in	8	10		
Max turning dia	ømm (oin)	280 (11.02)	390, 410 (15.35, 16.14)		
Max work length	mm (in)	290, 500 (11.42, 19.69)	500, 1,100 (19.69, 43.31)		
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 × D × H)	mm (in)	1,482*2 × 1,843 × 1,620 (58.35 × 72.56 × 63.78) 2,076 × 1,852 × 1,620 (81.73 × 72.91 × 63.78)	2,280 × 1,855 × 1,791 (89.76 × 73.03 × 70.51) 3,537 × 2,453 × 2,057 (139.25 × 96.57 × 80.98)		

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

GENOS L2000-e*1			GENOS L3000-e*1		
Standard chuck size	in	8	10		
Max turning dia	ømm (oin)	230 (9.06)	340 (13.39)		
Max work length	mm (in)	290, 500 (11.42, 19.69)	500, 1,100 (19.69, 43.31)		
Spindle speed	min ⁻¹	5,000	3,800		
Turret		V12	V12		
Motor	kW (hp)	15/11 (20 min/cont) (20/15)	22/15 (20 min/cont) (30/20)		
Machine size (W × D × H)	mm (in)	2,015 × 1,843 × 1,620 (79.33 × 72.56 × 63.78) 2,600 × 1,832 × 1,620 (102.36 × 72.13 × 63.78)	2,545 × 1,870 × 1,791 (100.20 × 73.62 × 70.51) 3,560 × 2,453 × 2,057 (140.16 × 96.57 × 80.98)		

Spec extension M, MY M, MY

*1 Specifications may vary in different markets. M: Milling, 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 (oin)	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 × D × H)	mm (in)	1,595 × 1,589 × 1,590 (62.80 × 62.56 × 62.60)	1,810 × 1,600 × 1,795 (71.26 × 62.99 × 70.67)	2,430 × 1,630 × 1,895 (95.67 × 64.17 × 74.61) 3,370 × 1,630 × 1,895 (132.68 × 64.17 × 74.61)
CNC		FANUC	FANUC	FANUC

1-Saddle CNC Lathes

LB35III / LB45III



LB35III			LB45III		
Standard chuck size	in	12	15		
Max turning dia	ømm (oin)	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 × 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 × 3,358 × 2,587 (167.72 × 132.20 × 101.85) 5,760 × 3,358 × 2,617 (226.77 × 132.20 × 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

LH55-N



LH55-N		
Standard chuck size	in	18
Max turning dia	ømm (oin)	1,000 (39.37)
Max work length	mm (in)	2,000, 3,000, 4,000 (78.74, 118.11, 157.48)
Spindle speed	min ⁻¹	1,200
Turret		V8, H6, H4
Motor	kW (hp)	45/37 (30 min/cont) (60/50)
Machine size (W × D × H)	mm (in)	7,093 × 5,685 × 2,460 (279.25 × 223.82 × 96.85) 8,093 × 5,685 × 2,460 (318.62 × 223.82 × 96.85) 9,093 × 5,685 × 2,460 (357.99 × 223.82 × 96.85)

Twin Spindle Turning Centers

LT EX Series TWIN STAR

LT2000 EX / LT3000 EX



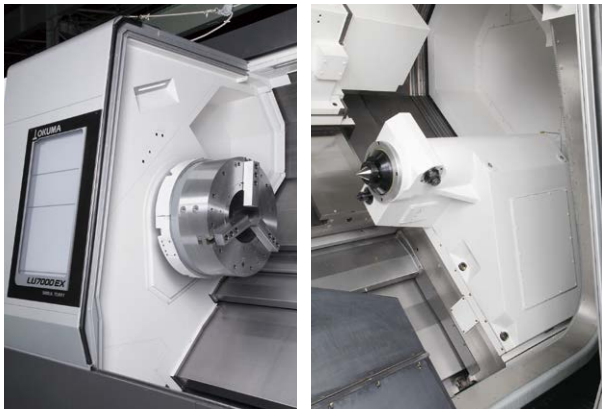
LT2000 EX			LT3000 EX		
Standard chuck size	in	6	8		
Max turning dia	ømm (oin)	210 (8.27)	350 (13.78)		
Max work length	mm (in)	130 (5.12)	200 (7.87)		
Spindle speed	min ⁻¹	6,000	5,000		
Turret		U/L: M-V16	U/L: M-V16		
Motor	kW (hp)	L/R: 11.5/7.5 (5 min/cont) (15/10)	L/R: 22/15 (30 min/cont) (30/20)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

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

2-Saddle CNC Lathes

LU EX Series *SIMUL TURN*

LU3000 EX / LU4000 EX / LU7000 EX



		LU3000 EX	LU4000 EX	LU7000 EX
Standard chuck size	in	8	10	21, 24
Max turning dia	ømm (oin)	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, 2,080, 3,080 (25.59, 49.21, 81.89, 121.26)	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)	7,842 × 3,256 × 3,300 (308.74 × 126.19 × 129.92)
			4,780 × 2,620 × 2,440 (188.19 × 103.15 × 96.06)	
			6,480 × 2,837 × 2,440 (255.12 × 111.69 × 96.06)	
			8,405 × 2,471 × 2,309 (330.91 × 97.28 × 90.91)	
Spec extension		M, 2M, MY, 2MY, W, MW, 2MW	M, MY	M, MY

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 (oin)	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)	7,055 × 3,129 × 2,843 (277.76 × 123.19 × 111.93)
		6,160 × 3,205 × 3,042 (242.52 × 126.18 × 119.76)	

2-Saddle CNC Lathes

LU35II / LU45II



		LU35II	LU45II
Standard chuck size	in	12	15
Max turning dia	ømm (oin)	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)	4,750 × 3,340 × 3,042 (187.01 × 131.50 × 119.76)
		5,185 × 3,040 × 2,590 (204.13 × 119.69 × 101.97)	6,060 × 3,355 × 3,040 (238.58 × 132.09 × 119.69)
		5,935 × 3,095 × 2,590 (233.66 × 121.85 × 101.97)	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 (oin)	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)	2,440 × 1,980 × 2,054 (96.06 × 77.95 × 80.87)
		3,235 × 2,282 × 2,247 (127.36 × 89.84 × 88.46)
CNC	OSP / FANUC	

SPL-200



SPL-200		
Standard chuck size	in	8
Max turning dia	ømm (oin)	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

V40R / V760EX
V920EX / V100R



2SP-V Series

2SP-V40
2SP-V760EX
2SP-V920EX



		V40R [2SP-V40]	V760EX [2SP-V760EX]	V920EX [2SP-V920EX]	V100R
Applicable chuck sizes	in	12, 15, 18	15, 18, 21, 24	24, 28, 32, 36	36, 40
Max turning dia	ømm (oin)	400 (15.75)	760 (29.92)	920 (36.22)	1,000 (39.37)
Max work length (height)	mm (in)	450 (17.72)	770 (30.31)	860 (33.86)	890 (35.04)
Spindle speed	min ⁻¹	2,500	2,000	1,250	1,250
Turret		V12	V12	V12	V12
Motor	kW (hp)	22/18.5 (30 min/cont) (30/25)	30/22 (30 min/cont) (40/30)	30/22 (30 min/cont) (40/30)	30/22 (30 min/cont) (40/30)
Machine size (W × D × H)	mm (in)	1,705 × 2,788 × 3,040 (67.13 × 109.76 × 119.69) [2,970 × 2,738 × 3,040] (116.93 × 107.80 × 119.69)	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) [4,500 × 2,845 × 3,693] (177.17 × 112.01 × 145.39)	2,735 × 3,445 × 3,510 (107.68 × 135.63 × 138.19)
Spec extension		M	M	M, ATC *	M
CNC		OSP / FANUC	OSP / FANUC	OSP / FANUC	OSP / FANUC

M: Milling * ATC can be selected in V920EX

SV250



		SV250
Applicable chuck sizes	in	8, 10
Max turning dia	ømm (oin)	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

2-Spindle Horizontal CNC Lathes

2SP-H / HG Series

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



		2SP-150H	2SP-2500H	2SP-10HG	2SP-35HG
Standard chuck size	in	6	8	6	10
Max turning dia	ømm (oin)	150 [220]* (5.91 [8.66])	200 [410]* (7.87 [16.14])	100 (3.94)	280 (11.02)
Max work length	mm (in)	80 [150]* (3.15 [5.91])	120 [200]* (4.72 [7.87])	100 (3.94)	230 (9.06)
Spindle speed	min ⁻¹	4,500	5,000	5,000	2,000
Turret		L/R: V12	L/R: V12	L/R: V8	L/R: V12
Motor	kW (hp)	11/7.5 (30 min/cont) × 2 (15/10)	15/11 (20 min/cont) (20/15)	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)	1,850 × 2,150 (machine only) (72.83 × 84.65) × 2,648 (incl status indicator) (× 104.25)	2,200 × 2,734 (machine only) (86.61 × 107.64) × 3,257 (max loader ht) (× 128.23)	1,650 × 1,825 × 2,861 (64.96 × 71.85 × 112.64)	3,200 × 2,835 × 4,052 (125.98 × 111.61 × 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 (oin)	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 (138.66 × 110.24 × 88.58)



Vertical Machining Centers

MB-V Series
ACE CENTER
MB-46VA / MB-46VB
MB-56VA / MB-56VB
MB-66VA / MB-66VB



MF-V Series
ACE CENTER
MF-46VA / MF-46VB
Vertical Machining Centers with 2P-APC



MB-80V
Large Vertical Machining Center
[For High-Accuracy Applications]



		MB-46VA/B	MB-56VA/B	MB-66VA/B	MF-46VA/B	MB-80V
Table size	mm (in)	760 × 460 (29.92×18.11)	1,300 × 560 (51.18 × 22.05)	1,530 × 660 (60.24 × 25.98)	760 × 460 (Pallet size) (29.92 × 18.11)	1,600 × 800 (62.99 × 31.50)
Spindle speed	min ⁻¹	8,000 / 6,000	8,000 / 6,000	8,000 / 6,000	8,000 / 6,000	15,000 / 12,000
Tool storage	tools	20	20	20	20	32
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)	26/18.5 (35/25) (10 min/cont) 33/26 (44/35) (10 min/cont)
Machine size (W × D × H)	mm	1,976 × 2,810 × 2,746 (77.80 × 110.63 × 108.11)	2,546 × 3,123 × 2,746 (100.24 × 122.95 × 108.11)	3,035 × 3,325 × 3,295 (119.49 × 130.91 × 129.72)	2,406 × 3,270 × 2,946 (94.72 × 128.74 × 115.98)	4,500 × 2,970 × 3,320 (177.17 × 116.93 × 130.71)
	(in)	2,026 × 2,810 × 2,746 (79.76 × 110.63 × 108.11)			2,456 × 3,270 × 2,946 (96.69 × 128.74 × 115.98)	

MP-46V
Vertical Machining Center [For High-Precision Parts and Die/Mold Applications]



		MP-46V
Table size	mm (in)	760 × 460 (29.92 × 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 × D × H)	mm (in)	2,224 × 2,734 × 2,630* (87.56 × 107.64 × 103.54)

* Ball screw cooler not included

GENOS M Series
GENOS M460-VE-e / GENOS M560-V-e / GENOS M660-V-e



		GENOS M460-VE-e*	GENOS M560-V-e*	GENOS M660-V-e*
Table size	mm (in)	1,000 × 460 (39.37 × 18.11)	1,300 × 560 (51.18 × 22.05)	1,530 × 660 (60.24 × 25.98)
Spindle speed	min ⁻¹	15,000	15,000	15,000 12,000
Tool storage	tools	32	32	32
Motor	kW (hp)	22/18.5 (10 min/cont) (30/25)	22/18.5 (10 min/cont) (30/25)	22/18.5 (10 min/cont) (30/25) 26/18.5 (10 min/cont) (35/25)
Machine size (W × D × H)	mm (in)	2,225 × 2,810 × 2,746 (87.60 × 110.63 × 108.11)	2,564 × 3,194 × 2,746 (100.94 × 125.75 × 108.11)	3,035 × 3,325 × 3,295 (119.49 × 130.91 × 129.72)

* 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 × 2,995 × 2,790 (89.17 × 117.91 × 109.84)	2,650 × 3,395 × 2,755 (104.33 × 133.66 × 108.46)	3,410 × 3,810 × 2,910 (134.25 × 150.00 × 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 × 4,160 × 3,230 (169.29 × 163.78 × 127.17)	5,460 × 4,495 × 3,350 (214.96 × 176.97 × 131.89)	6,760 × 4,560 × 3,520 (266.14 × 179.53 × 138.58)
CNC		OSP / FANUC	OSP / FANUC	OSP / FANUC

Horizontal Machining Centers

MA-H Series SPACE CENTER

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



		MA-400HA	MA-500HII	MA-600HIII	MA-800HB	MA-12500H
Pallet size	mm (in)	400 × 400 (15.75 × 15.75)	500 × 500 (19.69 × 19.69)	630 × 630 (24.80 × 24.80)	800 × 800 (31.50 × 31.50)	1,250 × 1,250 (49.21 × 49.21)
Max work size	mm (in)	ø600 × 710 (ø23.62 × 27.95)	ø800 × 1,000 (ø31.50 × 39.37)	ø1,050 × 1,200 (ø41.34 × 47.24)	ø1,400 × 1,450 (ø55.12 × 57.09)	ø2,000 × 1,600 (ø78.74 × 62.99)
Spindle speed	min ⁻¹	8,000	6,000	6,000	6,000	6,000
Tool storage	tools	30	40	60	40	81
Motor	kW (hp)	15/11 (10 min/cont) (20/15)	30/22 (10 min/cont) (40/30)	30/22 (10 min/cont) (40/30)	30/22 (10 min/cont) (40/30)	45/37 (20 min/cont) (60/50)
Machine size (W × D × H)	mm (in)	2,414 × 4,532 × 2,759 (95.04 × 178.43 × 108.62)	3,110 × 5,971 × 3,174 (122.44 × 235.08 × 124.96)	3,435 × 7,068 × 3,174*1 (135.24 × 278.27 × 124.96)	4,745 × 6,465 × 3,460 (186.81 × 254.53 × 136.22)	6,880 × 12,512 × 3,781 (270.87 × 492.60 × 148.86)

		MB-4000H	MB-5000HII	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)	2,540 × 5,620 × 2,893*2 (100.00 × 221.26 × 113.90)	3,960 × 7,505 × 3,449 (155.91 × 295.47 × 135.79)	4,545 × 6,465 × 3,410 (178.94 × 254.53 × 134.25)

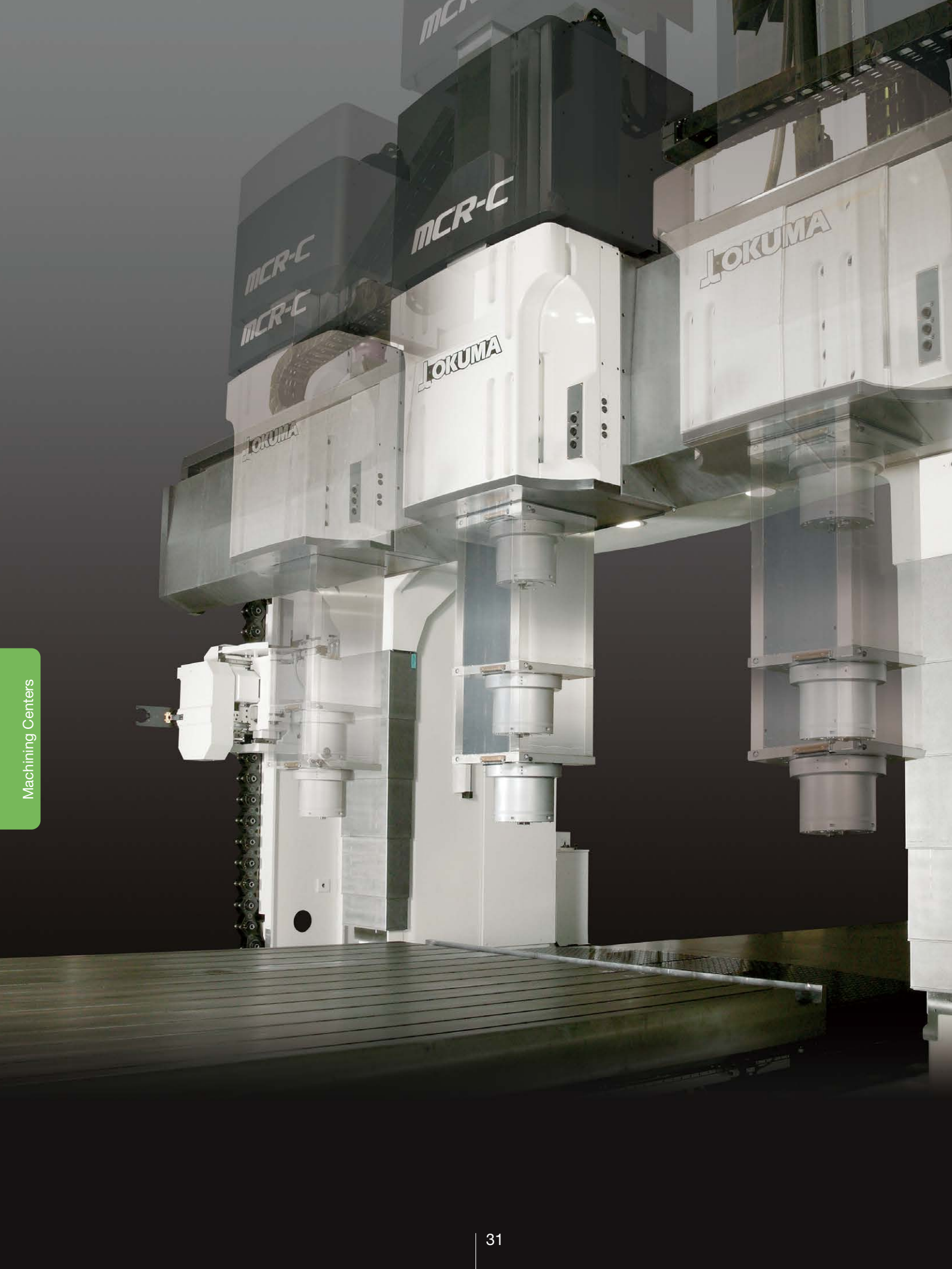
*1 With EC drum filter lift-up chip conveyor *2 With RDF drum filter lift-up chip conveyor

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 × 2,842 (53.15 × 111.89) × 2,725 (× 107.28)	1,350 × 3,490 (53.15 × 137.40) × 2,725 (× 107.28)	1,650 × 3,620 (64.96 × 142.52) × 2,810 (× 110.63)	1,650 × 4,415 (64.96 × 173.82) × 2,810 (× 110.63)
CNC		OSP / FANUC		OSP / FANUC	

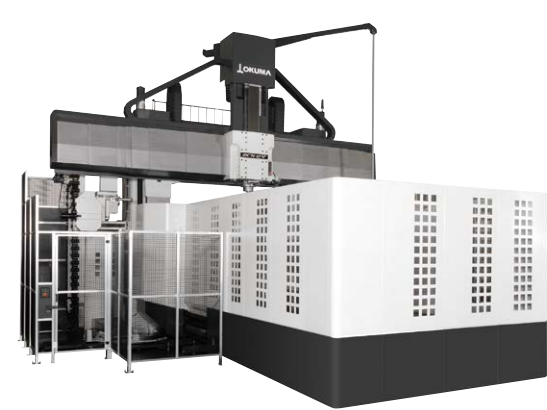


Double-Column Machining Centers (5-Face Machining)

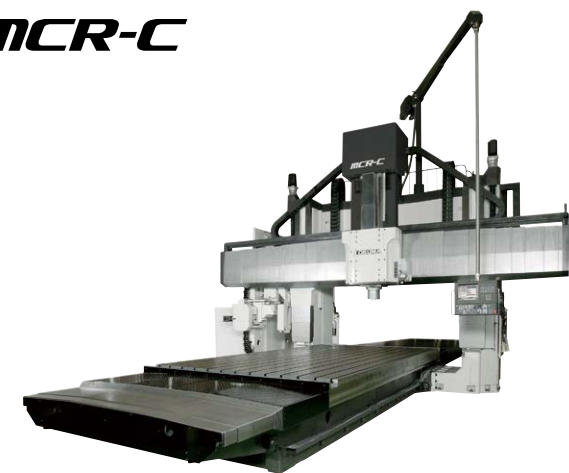
MCR-A5CII



MCR-BV



MCR-C



MCR-S



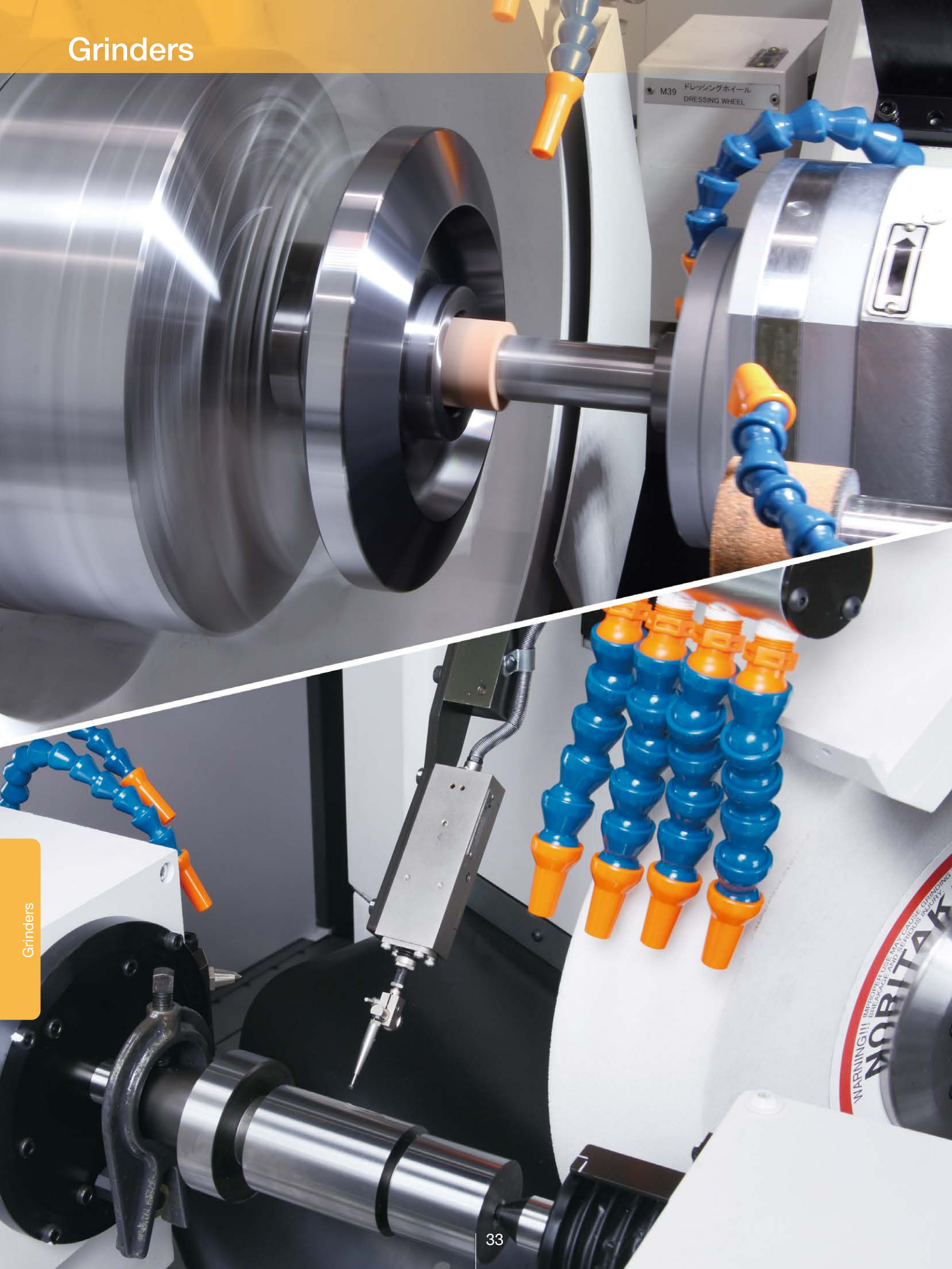
		MCR-A5CII	MCR-BV	MCR-C	MCR-S
Effective width between columns	mm (in)	2,150 to 3,650 (84.65 to 143.70)	2,650 to 3,650 (104.33 to 143.70)	2,650 to 4,650 (104.33 to 183.07)	2,650 to 3,150 (104.33 to 124.02)
Table working surface	mm (in)	1,500 × 3,000 to 3,000 × 12,000 (59.06 × 118.11 to 118.11 × 472.44)	2,000 × 4,000 to 3,000 × 12,000 (78.74 × 157.48 to 118.11 × 472.44)	2,000 × 4,000 to 3,700 × 12,000 (78.74 × 157.48 to 145.67 × 472.44)	2,000 × 4,000 to 2,500 × 6,500 (78.74 × 157.48 to 98.43 × 255.91)
Spindle speed	min ⁻¹	4,000	6,000	4,000	10,000
Tool storage	tools	50	50	50	50
Motor	kW (hp)	26/22 (30 min/cont) (35/30)	43/37/30 (10 min/cont (high speed)/cont (low speed)) (57/50/40)	45/37 (30 min/cont) (60/50)	26/22 (30 min/cont) (35/30)
Machine size (W × D × H)	mm (in)	6,180 × 8,430 × 5,820 to 7,780 × 27,930 × 6,300 (243.31 × 331.89 × 229.13 to 306.30 × 1,099.61 × 248.03)	7,370 × 10,730 × 6,420 to 8,340 × 27,930 × 6,700 (290.15 × 422.44 × 252.75 to 328.35 × 1,099.61 × 263.78)	7,810 × 10,730 × 6,620 to 9,895 × 27,930 × 7,200 (307.48 × 422.44 × 260.63 to 389.57 × 1,099.61 × 283.46)	7,370 × 10,730 × 6,420 to 7,870 × 16,430 × 6,700 (290.16 × 422.44 × 252.76 to 309.84 × 646.85 × 263.78)

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 × 1,800 to 1,500 × 5,000 (47.24 × 70.87 to 59.06 × 196.85)	2,000 × 1,500, 2,000 × 2,000 (78.74 × 59.06, 78.74 × 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 × D × H)	mm (in)	4,935 × 6,260 × 4,375 to 5,335 × 12,920 × 4,585 (194.29 × 246.46 × 172.24 to 210.04 × 508.66 × 180.51)	5,560 × 4,200 × 4,670, 5,560 × 5,230 × 4,670 (218.90 × 165.35 × 183.86, 218.90 × 205.91 × 183.86)



CNC Cylindrical Grinders

GPW/GAW Series

GP14W / GP15W / GA14W / GA15W

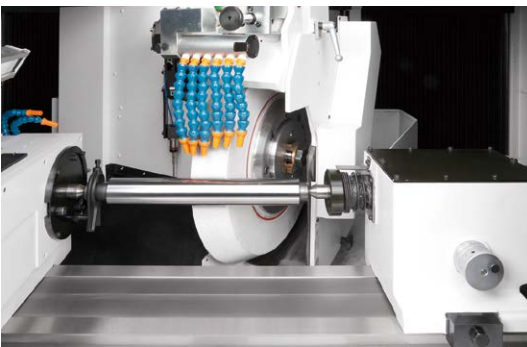


GP25W / GP26W / GA25W / GA26W



GP/GA-FII Series

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



		GP14/15W GA14/15W		GP25/26W GA25/26W		GP-34/44FII GA-34/44FII		GP-36/47FII GA-36/47FII	
Swing over table	ømm (oin)	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 × 150 / ø760 × 150 (ø24.02 × 5.91 / ø29.92 × 5.91) ø610 × 135 / ø760 × 150 (ø24.02 × 5.31 / ø29.92 × 5.91)	
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)		2,360 to 5,590 × 3,106 × 2,000 (92.91 to 220.08 × 122.28 × 78.74)		2,952 to 5,350 × 3,174, 3,254 × 2,000 (116.22 to 210.63 × 124.96, 128.11 × 78.74)	

CNC Cylindrical Grinders

GP-N Series

GP-47N / GP-57N / GP-67N



		GP-47/57/67N	
Swing over table	ømm (in)	430, 580, 680 (16.93, 22.83, 26.77)	
Distance between centers	mm (in)	2,150, 2,650, 3,150 (84.65, 104.33, 124.02)	
Wheel size (OD × width)	mm (in)	ø760 × 130 (ø29.92 × 5.12)	
Wheel peripheral speed	m/sec	33	
Wheel motor	kW (hp)	15 (20)	
Machine size (W × D × H)	mm (in)	8,342, 9,342, 10,342 × 3,359 × 2,527 (328.43, 367.80, 407.17 × 132.24 × 99.49)	

CNC Internal Grinders

GI-10NII / GI-20NII



		GI-10NII		GI-20NII	
Spindle support capacity mass × length	kg × mm (lb × in)	100 × 150 (220 × 5.91)		150 × 200 (330 × 7.87)	
Swing in chuck guard	ømm (oin)	350 (13.78)		400 (15.75)	
Bore grinding	ømm (in)	3 to 150 (0.12 to 5.91)		5 to 300 (0.20 to 11.81)	
Max grinding depth	mm (in)	150 (5.91)		200 (7.87)	
Wheel motor	kW (hp)	5.5 (7.5)		5.5 (7.5)	
Machine size (W × D × H)	mm (in)	2,050 × 2,100 × 1,900 (80.71 × 82.68 × 74.80)		2,490 × 3,023 × 1,808 (98.03 × 119.02 × 71.18)	

The Next-Generation Intelligent CNC

OSP-P300A
OSP suite

Smooth, comfortable operation with the feeling of using a smartphone

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 smartphone.



“Just what we wanted.” — Refreshed OSP suite apps

This became possible through the addition of Okuma's machining expertise based on requests we heard from real, machine shop customers. The brain power packed into the CNC, built by a machine tool manufacturer, will “empower shop floor” management.

● Example application

Turn-Cut Guide (option)

Making new machining technology simpler and easier to use

Chuck Pressure Calculation

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

Spindle Output Monitor

Increased productivity through visualization of motor power reserve

Common Variable Monitor

Comment display for greater ease of use and faster work

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 eliminates test cuts and reduce program verification times to 1/10

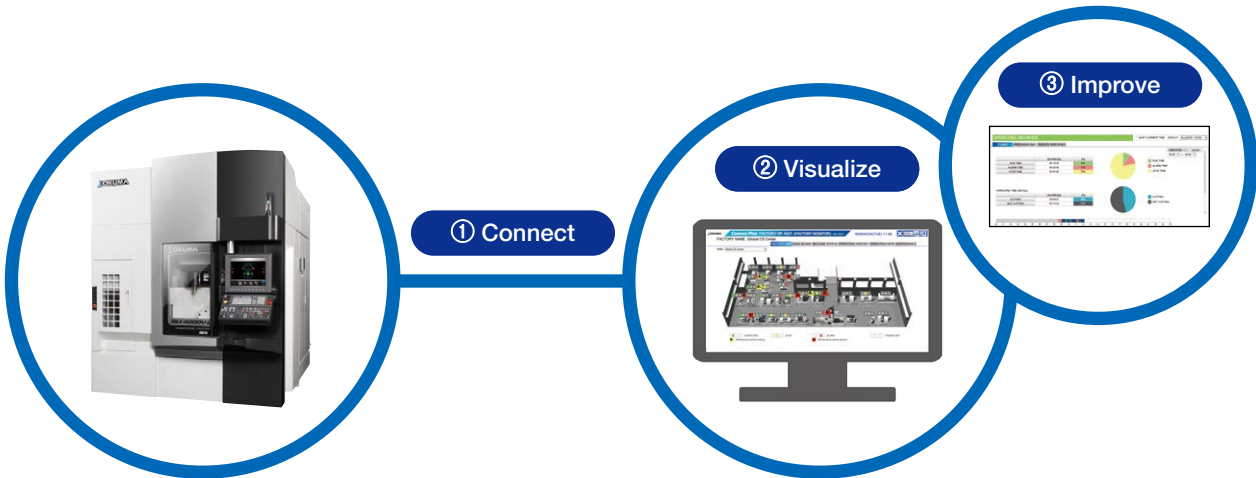
Okuma's 3DVM software, based on your tooling, workpiece, fixture setup, and part program, provides accurate 3-dimensional simulations and interference checks (alarms) in a virtual machine on a PC at your desk.

Get Connected, Get Started, and Get Innovative with Okuma “Monozukuri”
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.

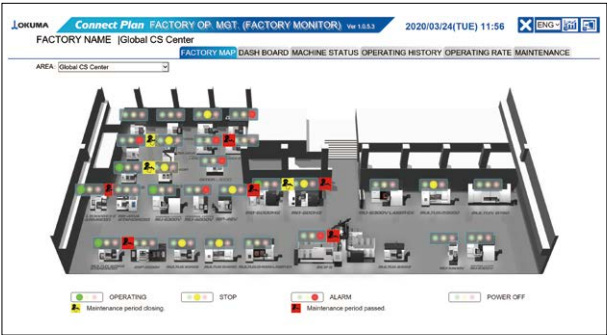


Analyze your factory present and past, improve the future

Factory operating management

Visualization of past and present operation results

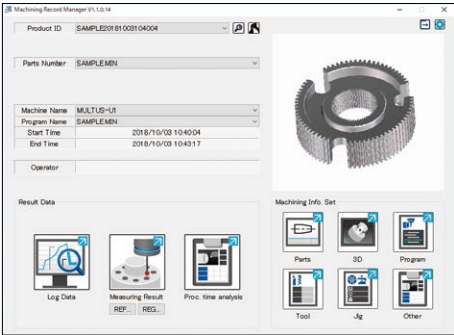
This function reduces machine stop times and raises utilization by visualizing past and present operation results, for analysis and future improvements.



Machining Record Manager

Achieving machining traceability

Machining Record Manager achieves machining traceability by connecting the unique ID of the machined parts with the machining results, process list, and measurement results for each machine.



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The Okuma Chicago Tech Center

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