OKUMA

OPEN POSSIBILITIES

Machine Tools

Multitasking Machines /
5-Axis Machining Centers

CNC Lathes

Machining Centers

Grinders

IT / CNC

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.

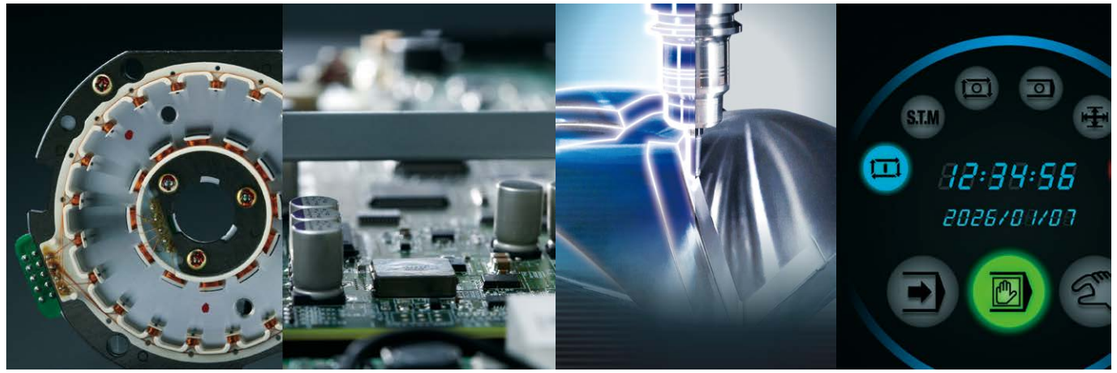
As a trusted brand, we will work to further refine the quality of our products and services, backed by our advanced technologies, in order to continue to earn the support of our customers.

“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.



Achieving high accuracy and high productivity while achieving decarbonization and energy saving

Green-Smart Machine
Powered by Intelligent Technology

Reducing energy consumption while maintaining stable high accuracy and high productivity

To work toward the realization of a carbon-free society, the industrial world is required to consider resources and the environment, and strengthen efforts to decarbonization. Okuma will contribute to the realization of a carbon-free society and help make society sustainable by working to improve the basic performance of machine tools, such as high accuracy and high productivity, as well as energy efficiency. We chose the name “Green-Smart Machine” for our machine tool that achieves high accuracy and reduced energy consumption autonomously and realizes high productivity. With Green-Smart Machines, we will contribute to the solution of social issues faced by the global manufacturing industry, together with our customers.

Green-Smart Machine

High accuracy and high productivity + Decarbonization and energy saving

Thermo-Friendly Concept
The Okuma Intelligent Technology that enables machines to autonomously maintain high accuracy stability

ECO suite plus
A system for an energy-saving society

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

On machine shop floors, various issues can hinder the maintenance of accuracy and production, such as thermal deformation of the machines due to 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

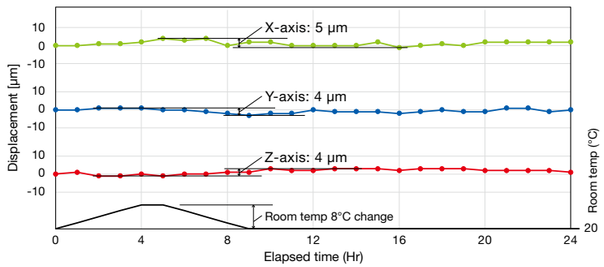
Thermo-Friendly Concept
Manageble Deformation — Accurately Controlled

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.

■ Actual data with the MB-46V Ⅱ vertical machining center

Machining dimensional change over time: **5 µm**

Note: Room temperature change of 8°C
Using Thermo Active Stabilizer—Construction (TAS-C)



5-Axis Auto Tuning System Ⅱ
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. The 5-Axis Auto Tuning System conducts automatic tuning to correct geometric error in a short time. In addition, the 5-Axis Auto Tuning System Ⅱ features an "accuracy stability diagnosis function" that enables the machine to self-diagnose and notify changes in accuracy, allowing high accuracy to be maintained with a minimal number of tuning operations. This enables a higher level of 5-axis machining accuracy to be achieved.

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

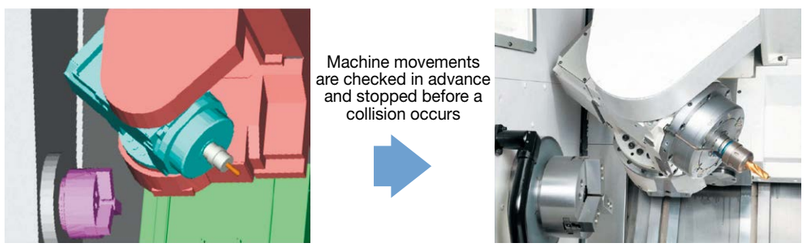
Manual adjustment without 5-Axis Auto Tuning System Ⅱ	After using 5-Axis Auto Tuning System Ⅱ
Max 12 µm	Max 3 µm

Note: The 5-Axis Auto Tuning System Ⅱ is available only on 5-axis machining centers.
For multitasking machines, the 5-Axis Auto Tuning System is applicable.

Improved ease of use with Intelligent Technologies

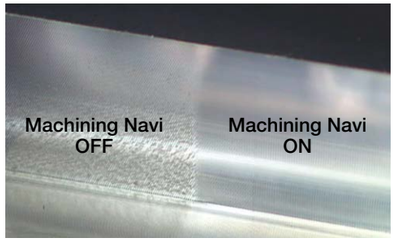
Collision Avoidance System
Collision prevention

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

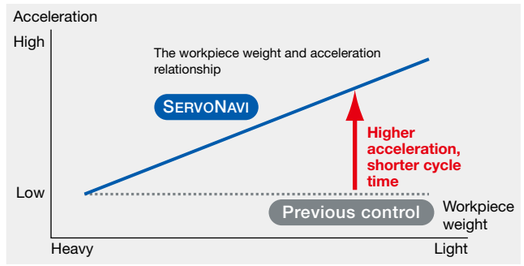
Rotation speed can't be increased due to worries about occurrence of chatter. Machining Navi solves this worry. It finds the optimal machining conditions by utilizing superior detection and control functions. This contributes not only to surface refinement, but also reduction of processing time, improvement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

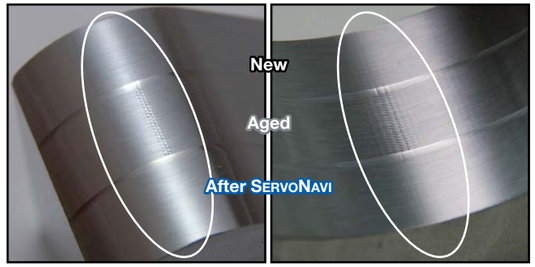


Navigate to the best cutting conditions with spindle speed optimization and control

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 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.





Usable, helpful and effective Okuma solutions

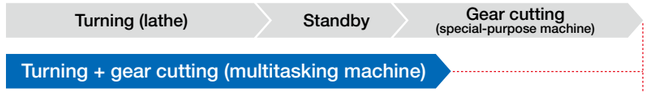
Okuma's accumulated solutions technology is brought together to provide valuable functions that easily and simply solve difficult, bothersome, and time-consuming machining and preparation problems for streamlining and efficiency.

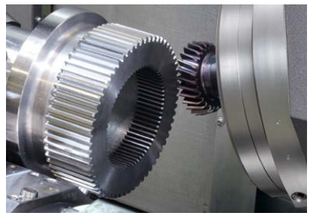
Gear Machining Package
Easy multitasking for gears

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)





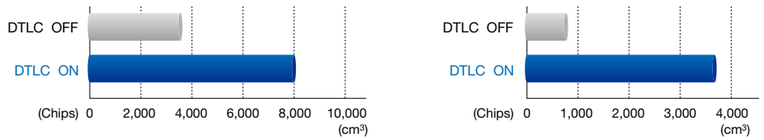
Dynamic Tool Load Control
Dramatically improved productivity of difficult-to-cut materials

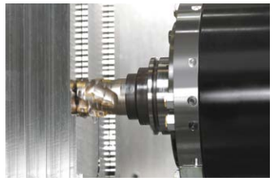
DTLC suppresses chipping of insert tools on difficult-to-cut materials like titanium alloy, to achieve stable processing and longer tool life.

[Actual results]

■ Tool life (titanium) **2.3** times (Okuma comparison) ■ Tool life (SUS*) **5.2** times (Okuma comparison)

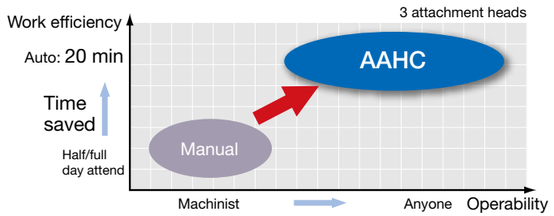
* Precipitation hardened

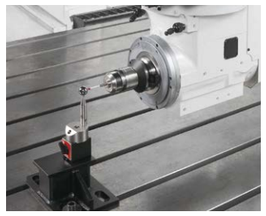




Auto Attachment Head Compensation
Easy rotational compensation for double columns

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).

Okuma automation systems Expanding the possibilities of manufacturing

We have expanded our lineup with compact and flexible automation systems that are easy to use even in high-mix, low-volume production environments, enabling us to propose optimal automation solutions tailored to each customer's production needs.

ARMROID Built-in Robot

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 Ⅲ 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).

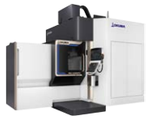
For example, the robot can be on standby during the day while the operator handles small batches of part load/unload and other flexible jobs, and then automatic operations done by the robot can be done at night.

Okuma's product lineup responds to diverse needs

5-Axis Machining Centers / Multitasking Machines

P12

■ 5-Axis Vertical Machining Centers



MU-4000V　MU-6300V
MU-5000V　MU-8000V

P13

MU-400V Ⅲ
MU-500V Ⅲ

MU-S600V

P14

■ 5-Axis Horizontal Machining Center

MU-10000H

■ Large 5-Axis Machining Centers

MILLAC 800VH
MILLAC 1000VH

P15

■ Multitasking Machines

MULTUS U1000
MULTUS U2000
MULTUS U3000
MULTUS U4000
MULTUS U5000

P16

MULTUS B200Ⅱ
MULTUS B250Ⅱ
MULTUS B300Ⅱ
MULTUS B400Ⅱ

MULTUS B550
MULTUS B750

P17

■ 5-Axis Vertical Multitasking Machines

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

■ Vertical Multitasking Machines

VTM-65
VTM-100
VTM-200

P18

■ Double-Column Multitasking Machines

VTR-160A
VTR-350A

CNC Lathes

P20

■ 1-Saddle CNC Lathes

LB2000 EX Ⅲ
LB3000 EX Ⅲ
LB4000 EX Ⅲ

P21

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

P22

HL-20*
HL-35*

LB35Ⅲ
LB45Ⅲ

LH55-N*

■ Twin Spindle Turning Centers

P23

LT2000 EX
LT3000 EX

■ 2-Saddle CNC Lathes

LU3000 EX
LU4000 EX
LU7000 EX

P24

LU35Ⅱ
LU45Ⅱ

LU-S1600

P25

■ Vertical CNC Lathes

VT1000EX

V40R
V760EX
V920EX
V100R

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

SV250*

P26

■ 2-Spindle Horizontal CNC Lathes

2SP-1500H
1SP-2500H
2SP-2500H
2SP-10HG*
2SP-35HG*

■ Aluminum Wheel Applications

LAW-2S
LAW-V24
LAW-FⅡ

Machining Centers

P28

■ Vertical Machining Centers

MB-46V Ⅱ/VEⅡ
MB-56V Ⅱ
MB-66VA/B

P29

MB-80V
MB-100V

MF-46VA/B

MP-46V

P30

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

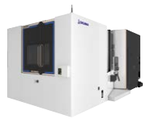
P31

■ Horizontal Machining Centers

MS-320H

MA-4000H

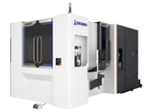
MA-500HⅡ
MA-600HⅢ



MA-8000H

MA-12500H

P32



MB-5000HⅡ
MB-10000H

MILLAC 44HⅡ*
MILLAC 55HⅡ*

P34

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

MCR-A5CⅡ

MCR-BV

MCR-C

MCR-S

■ Double-Column Machining Centers

MCV-AⅡ

MCR-AF

Grinders

P36

■ 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

Super Multitasking Machines

P38

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

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

IT/CNC

P39

■ CNC

OSP-P500

■ CAD/CAM System for Parts Machining

ADMAC-Parts
3D Virtual Monitor

P40

■ IIoT solution

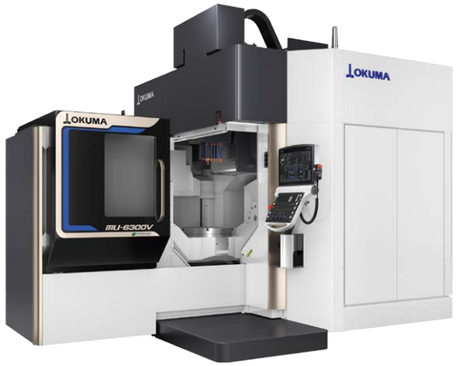
Connect Plan

* Not available with CE conformity certification.

5-Axis Vertical Machining Centers

MU-V Series

MU-4000V / MU-5000V / MU-6300V / MU-8000V



		MU-4000V	MU-5000V	MU-6300V	MU-8000V
Table size	mm (in)	ø400 (ø15.75)	ø500 (ø19.69)	ø630 (ø24.80)	ø800 × 630 width (ø31.50 × 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 × D × H)	mm (in)	2,399 × 3,444 × 2,950 (94.45 × 135.59 × 116.14)	3,995 × 2,750 × 3,435 (157.28 × 108.27 × 135.24) 3,995 × 2,840 × 3,435 (157.28 × 111.81 × 135.24)	4,850 × 2,990 × 3,525 (190.94 × 117.72 × 138.78)	5,280 × 2,990 × 3,625 (207.87 × 117.72 × 142.72)
Spec extension		L	L	L	L

L: Turning specification

5-Axis Vertical Machining Centers

MU-400V Ⅲ/MU-500V Ⅲ

		MU-400V Ⅲ	MU-500V Ⅲ
Table size	mm (in)	ø400 (ø15.75)	ø500 (ø19.69)
Spindle speed	min^{-1}	15,000	8,000
Tool storage	tools	32	20
Motor	kW (hp)	22/18.5 (10 min/cont) (30/25)	11/7.5 (10 min/cont) (15/10)
Machine size (W × D × H)	mm (in)	2,160 × 2,783 × 2,946 (85.04 × 109.57 × 115.98)	2,515 × 3,231 × 3,045 (99.02 × 127.20 × 119.88)

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)

5-Axis Horizontal Machining Center

MU-10000H

		MU-10000H
Pallet size	mm (in)	1,000 × 1,000 (39.37 × 39.37)
Max workpiece dimensions	mm (in)	ø1,500 × 1,175 (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

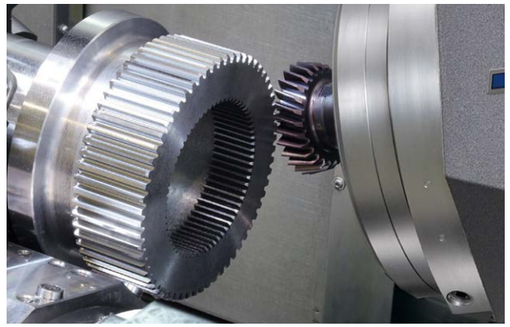
		MILLAC 800VH	MILLAC 1000VH
Pallet size	mm (in)	800 × 800 (31.50 × 31.50)	1,000 × 1,000 (39.37 × 39.37)
Spindle speed	min^{-1}	10,000	6,000
Tool storage	tools	80	40
Motor	kW (hp)	22/18.5 (15 min/cont) (30/25)	22/18.5 (30 min/cont) (30/25)
Machine size (W × D × H)	mm (in)	4,760 × 6,390 × 3,600* (187.40 × 251.57 × 141.73)	5,228 × 7,117 × 4,455 (205.83 × 280.20 × 175.39)
CNC		OSP / FANUC	OSP / FANUC

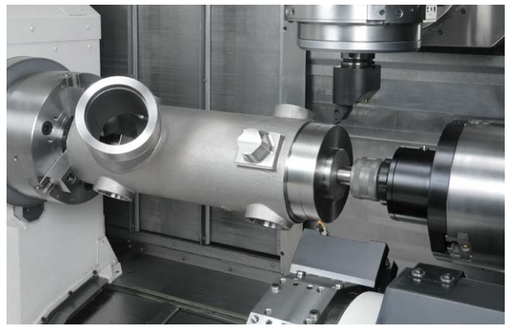
* Step excluded

Multitasking Machines

MULTUS U Series

MULTUS U1000 / MULTUS U2000 / MULTUS U3000 / MULTUS U4000 / MULTUS U5000





		MULTUS U1000	MULTUS U2000	MULTUS U3000	MULTUS U4000	MULTUS U5000
Standard chuck size	in	6	8	8	10	15
Max machinig dia	ømm (øin)	650 (25.59)	650 (25.59)	650 (25.59)	650 (25.59)	650 (25.59)
Max work length	mm (in)	830 (32.68)	830 (32.68)	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}	6,000	5,000	5,000	4,200	3,000
Tool storage	tools	80	80	40	40	40
Motor	kW (hp)	11.5/7.5 (5 min/cont) (15/10)	22/15 (30 min/cont) (30/20)	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)	4,446 × 2,345 × 2,600 (175.04 × 92.32 × 102.36)	4,446 × 2,345 × 2,600 (175.04 × 92.32 × 102.36)	4,925 × 2,995 × 2,955 (193.90 × 117.91 × 116.34) 5,425 × 2,995 × 2,955 (213.58 × 117.91 × 116.34)	5,425 × 2,995 × 2,955 (213.58 × 117.91 × 116.34) 6,175 × 2,995 × 2,955 (243.11 × 117.91 × 116.34)	5,530 × 2,995 × 2,955 (217.72 × 117.91 × 116.34) 6,280 × 2,995 × 2,955 (247.24 × 117.91 × 116.34) 8,420 × 3,278 × 3,090 (331.50 × 129.06 × 121.65)
Spec extension		W, 2S, 2SW	W, 2S, 2SW	W, 2S, 2SW	W, 2S, 2SW	W, 2S, 2SW

W: Opposing spinde, 2S: 2 saddle

5-Axis Machining Centers
Multitasking Machines

Multitasking Machines

MULTUS BII Series

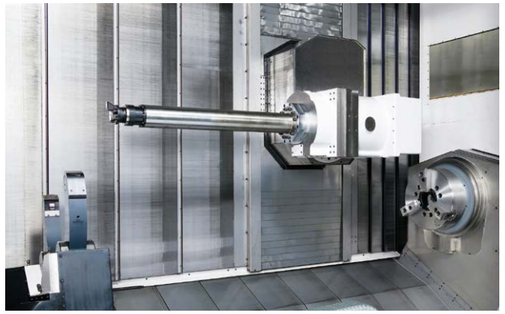
MULTUS B200II / MULTUS B250II / MULTUS B300II / MULTUS B400II

		MULTUS B200II	MULTUS B250II	MULTUS B300II	MULTUS B400II
Standard chuck size	in	6	8	8	10
Max machinig dia	ømm (øin)	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 × 2,289 × 2,582 (121.26 × 90.12 × 101.65) 3,620 × 2,289 × 2,582 (142.52 × 90.12 × 101.65)	3,620 × 2,289 × 2,582 (142.52 × 90.12 × 101.65)	4,035 × 2,309 × 2,587 (158.86 × 90.91 × 101.85)	5,750 × 2,797 × 3,000 (226.38 × 110.12 × 118.11) 7,050 × 2,797 × 3,137 (277.56 × 110.12 × 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 machinig dia	ømm (øin)	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 × 3,507 × 3,307 (316.14 × 138.07 × 130.20) 9,130 × 3,507 × 3,497 (359.45 × 138.07 × 137.68)	9,130 × 3,730 × 3,557 (359.45 × 146.85 × 140.04) 10,555 × 3,730 × 3,607 (415.55 × 146.85 × 142.01) 13,505 × 3,995 × 3,610 (531.69 × 157.28 × 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	—
Max table size	ømm (øin)	915 (36.02)	1,250 (49.21)	2,000 (78.74)
Max machining dia	ømm (øin)	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

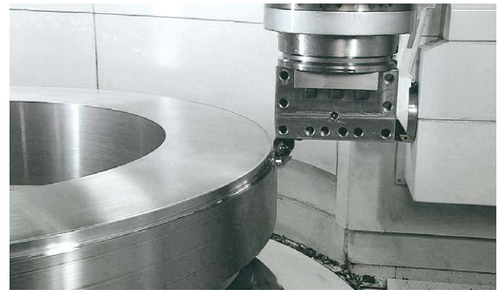
VTM-65 / VTM-100 / VTM-200

		VTM-65	VTM-100	VTM-200
Applicable chuck sizes	in	18, 21, 24	24, 28, 32, 36	—
Max table size	ømm (øin)	610 (24.02)	915 (36.02)	2,000 (78.74)
Max machining dia	ømm (øin)	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

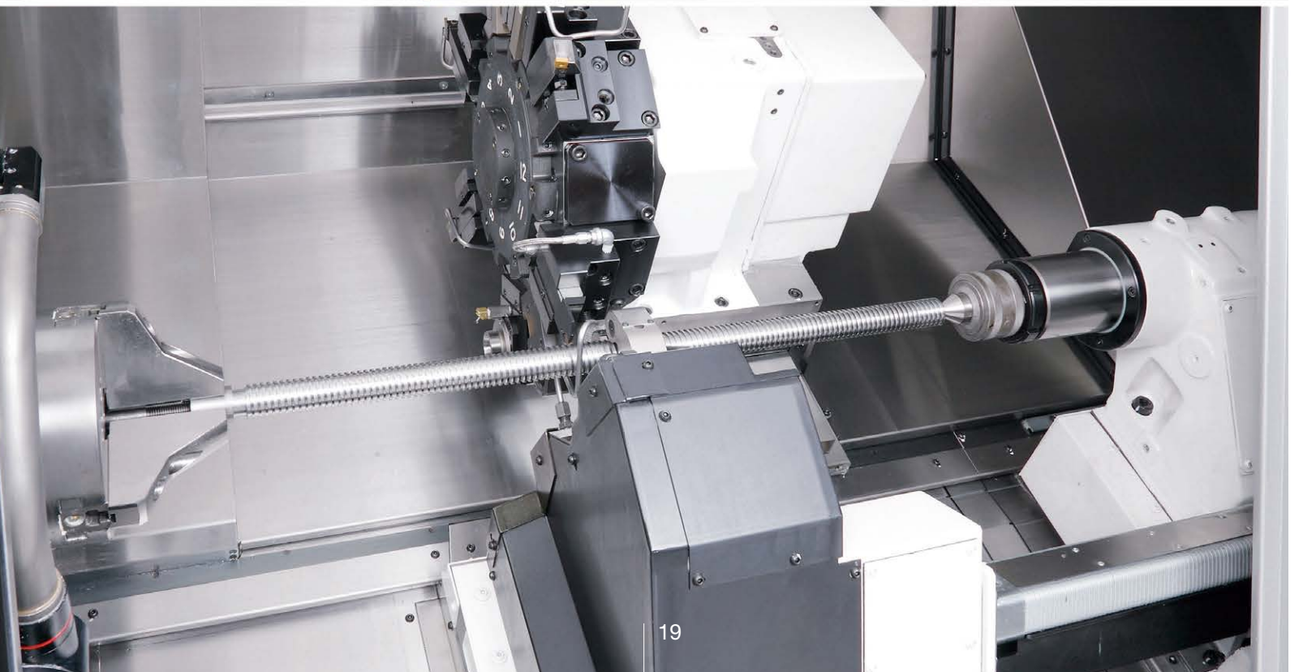
Double-Column Multitasking Machines

VTR-A Series

VTR-160A / VTR-350A



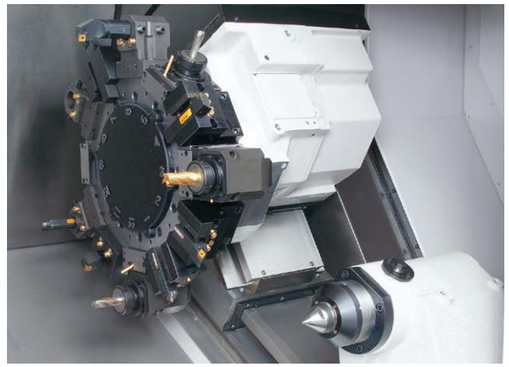
		VTR-160A	VTR-350A
Max table size	ømm (øin)	1,250 (49.21)	3,000 (118.11)
Max machining dia	ømm (øin)	1,600 (Max swing) (62.99)	3,500 (Max swing) (137.80)
Max work length (height)	mm (in)	1,250 (49.21)	1,600 (62.99)
Spindle speed	min^{-1}	400	160
Tool storage	tools	23	23
Motor	kW (hp)	45/37 (30 min/cont) (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)



1-Saddle CNC Lathes

LB EX III Series

LB2000 EX III / LB3000 EX III
LB4000 EX III



		LB2000 EX III	LB3000 EX III	LB4000 EX III
Standard chuck size	in	6	8	10
Max turning dia	ømm (øin)	430 (16.93)	410 (16.14)	480 (18.90)
Max work length	mm (in)	300, 500 (11.81, 19.69)	250, 500, 1,000, 1,300 (9.84, 19.69, 39.37, 51.18)	750, 1,500, 2,150 (29.53, 59.06, 84.65)
Spindle speed	min^{-1}	6,000	5,000	4,200
Turret		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)
Machine size (W × D × H)	mm (in)	1,980 × 1,899 × 1,770 (77.95 × 74.76 × 69.69) 2,290 × 1,899 × 1,770 (90.16 × 74.76 × 69.69)	2,055 × 1,889 × 1,770 (80.91 × 74.37 × 69.69) 2,340 × 1,899 × 1,770 (92.13 × 74.76 × 69.69) 3,420 × 2,083 × 1,820 (134.65 × 82.01 × 71.65) 4,344 × 2,083 × 1,820 (171.02 × 82.01 × 71.65)	3,100 × 2,059 × 1,955 (122.05 × 81.06 × 76.97) 4,175 × 2,249 × 2,025 (164.37 × 88.54 × 79.72) 5,515 × 2,530 × 2,025 (217.13 × 99.61 × 79.72)
Spec extension		M, W, MY, MW, MYW	M, W, MY, MW, MYW	M, MY, MW, MYW

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 (øin)	220 (8.66)	310, 330 (12.20, 12.99)
Max work length	mm (in)	290, 500 (11.42, 19.69)	500, 1,100 (19.69, 43.31)
Spindle speed	min^{-1}	4,500	3,000
Turret		V12	V12
Motor	kW (hp)	11/7.5/7.5 (10 min/30 min/cont) (15/10/10)	15/11 (30 min/cont) (20/15)
Machine size (W × D × H)	mm (in)	1,482*2 × 1,917 × 1,795 (58.35 × 75.47 × 70.67) 2,129 × 1,917 × 1,856 (83.82 × 75.47 × 73.07)	2,580 × 1,951 × 2,069 (101.57 × 76.81 × 81.46) 3,537 × 2,473 × 2,305 (139.25 × 97.36 × 90.75)
Spec extension			

*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 (øin)	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) 2,480 × 1,822 × 1,620 (97.64 × 71.73 × 63.78)	2,545 × 1,865 × 1,791 (100.20 × 73.43 × 70.51) 3,560 × 2,449 × 2,057 (140.16 × 96.42 × 80.98)
Spec extension		M, MY	M, MY, MW, MYW

*1. Specifications may vary in different markets. M: Milling, Y: Y-axis

HL Series

HL-20 / HL-35

		HL-20	HL-35
Standard chuck size	in	8	10
Max turning dia	ømm (øin)	350 (13.78)	350 (13.78)
Max work length	mm (in)	460 (18.11)	610, 1,020 (24.02, 40.16)
Spindle speed	min^{-1}	3,200	3,500
Turret		V8	V12
Motor	kW (hp)	15/11 (30 min/cont) (20/15)	18.5/15 (30 min/cont) (25/20)
Machine size (W × D × H)	mm (in)	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

1-Saddle CNC Lathes

LB35Ⅲ / LB45Ⅲ

		LB35Ⅲ	LB45Ⅲ
Standard chuck size	in	12	15
Max turning dia	ømm (øin)	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 × 3,190 × 2,602 (167.72 × 125.59 × 102.44) 5,760 × 3,190 × 2,632 (226.77 × 125.59 × 103.62) 7,010 × 2,965 × 2,584 (275.98 × 116.73 × 101.73) 8,570 × 3,227 × 2,668 (337.40 × 127.05 × 105.04)
Spec extension		M	M, MY

M: Milling, Y: Y-axis

LH55-N

		LH55-N
Standard chuck size	in	18
Max turning dia	ømm (øin)	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)	6,740 × 4,109 × 2,457 (265.35 × 161.77 × 96.73) 7,740 × 4,109 × 2,457 (304.72 × 161.77 × 96.73) 8,740 × 4,109 × 2,457 (344.09 × 161.77 ×96.73)

Twin Spindle Turning Centers

LT EX Series

LT2000 EX / LT3000 EX

		LT2000 EX	LT3000 EX
Standard chuck size	in	6	8
Max turning dia	ømm (øin)	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 × 2,540 × 2,339 (147.44 × 100.00 × 92.09)	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

LU3000 EX / LU4000 EX / LU7000 EX

		LU3000 EX	LU4000 EX	LU7000 EX
Standard chuck size	in	8	10	21, 24
Max turning dia	ømm (øin)	U: 410, L: 250 (U: 16.14, L: 9.84)	U: 480, L: 310 (U: 18.90, L: 12.20)	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 × 2,198 × 2,080 (116.14 × 86.54 × 81.89) 3,980 × 2,650 × 2,230 (156.69 × 104.33 × 87.80)	3,570 × 2,362 × 2,200 (140.55 × 92.99 × 86.61) 4,780 × 2,722 × 2,440 (188.19 × 107.17 × 96.06) 6,480 × 2,914 × 2,440 (255.12 × 114.72 × 96.06) 8,405 × 2,546 × 2,309 (330.91 × 100.24 × 90.91)	7,842 × 3,256 × 3,300 (308.74 × 128.19 × 129.92)
Spec extension		M, 2M, MY, 2MY, W, MW	M, MY	M, MY

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

LU35Ⅱ/LU45Ⅱ

		LU35Ⅱ	LU45Ⅱ
Standard chuck size	in	12	15
Max turning dia	ømm (øin)	U: 550, L: 360 (U: 21.65, L: 14.17)	U: 660, L: 460 (U: 25.98, L: 18.11)
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 × 2,873 × 2,590 (178.54 × 113.11 × 101.97) 5,185 × 3,043 × 2,590 (204.13 × 119.80 × 101.97) 5,935 × 3,098 × 2,745 (233.66 × 121.97 × 108.07)	4,750 × 3,338 × 3,042 (187.01 × 131.42 × 119.76) 6,060 × 3,365 × 3,042 (238.58 × 132.48 × 119.76) 8,020 × 3,043 × 2,808 (315.75 × 119.80 × 110.55)
Spec extension		M	M

M: Upper multitasking turret

LU-S1600

		LU-S1600
Standard chuck size	in	8
Max turning dia	ømm (øin)	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

Vertical CNC Lathes

VT1000EX

		VT1000EX
Applicable chuck sizes	in	24, 28, 32, 36
Max turning dia	ømm (øin)	1,000 (39.37)
Max work length (height)	mm (in)	1,000 (39.37)
Spindle speed	min^{-1}	800
Turret		H1 (Turning-dedicated)
Motor	kW (hp)	55/45 (30 min/cont) (75/60)
Machine size (W × D × H)	mm (in)	4,317× 3,769 × 4,435* (169.96 × 148.39 × 174.61)

* Spindle lubricant tank and spindle cooling unit are included. Operation panel is not included.

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 (øin)	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)	45/37 (5 min/10 min) (60/50)
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

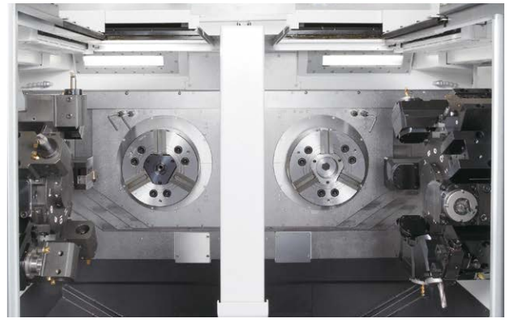
		SV250
Applicable chuck sizes	in	8, 10
Max turning dia	ømm (øin)	250 (9.84)
Max work length (height)	mm (in)	350 (13.78)
Spindle speed	min^{-1}	6,000
Turret		V12
Motor	kW (hp)	15/11 (short time/cont) (20/15)
Machine size (W × D × H)	mm (in)	950 × 2,600 × 2,445 (37.40 × 102.36 × 96.26)
Spec extension	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

M: Milling

2-Spindle Horizontal CNC Lathes

2SP-H / HG Series

2SP-1500H
1SP-2500H / 2SP-2500H
2SP-10HG / 2SP-35HG



		2SP-1500H	1SP-2500H	2SP-2500H	2SP-10HG	2SP-35HG
Standard chuck size	in	6	8	8	6	10
Max turning dia	ømm (øin)	150 [290]* (5.91 [11.42]*)	200 [410]* (7.87 [16.14]*)	200 [410]* (7.87 [16.14]*)	100 (3.94)	280 (11.02)
Max work length	mm (in)	80 [160]* (3.15 [6.30]*)	120 [200]* (4.72 [7.87]*)	120 [200]* (4.72 [7.87]*)	100 (3.94)	230 (9.06)
Spindle speed	min^{-1}	6,000	5,000	5,000	5,000	2,000
Turret		L/R: V8	V12	L/R: V12	L/R: V8	L/R: V12
Motor	kW (hp)	15/11 (30 min/cont) × 2 (20/15)	15/11 (20 min/cont) (20/15)	15/11 (20 min/cont) × 2 (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)	1,900 × 2,605 (machine only) (74.80 × 102.56) × 2,982 (max loader ht) (× 117.40)	1,350 × 2,797 (machine only) (53.15 × 110.12) × 3,243 (max loader ht) (× 127.68)	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	M
CNC		OSP / FANUC	OSP / FANUC	OSP / FANUC	FANUC	OSP / FANUC

* Machine capacity without loader application M: Milling

Aluminum Wheel Applications

LAW Series

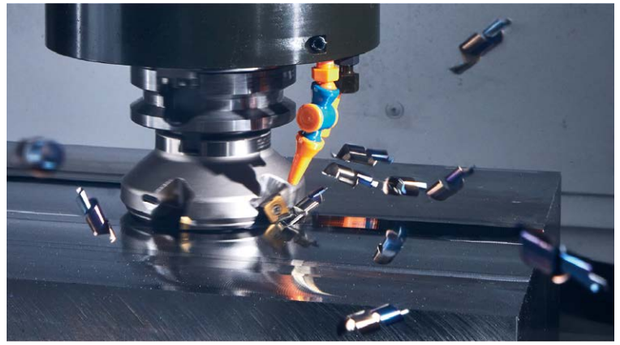
LAW-2S / LAW-V24 / LAW-FⅡ

		LAW-2S	LAW-V24	LAW-FⅡ
Max turning dia	ømm (øin)	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

MB-46V Ⅱ / MB-46VEⅡ
MB-56V Ⅱ
MB-66VA / MB-66VB



		MB-46V Ⅱ <MB-46VEⅡ>	MB-56V Ⅱ	MB-66VA/B
Table size	mm (in)	760 × 460 <1,000 × 460> (29.92×18.11 <39.37×18.11>)	1,300 × 560 (51.18 × 22.05)	1,530 × 660 (60.24 × 25.98)
Spindle speed	min^{-1}	15,000 6,000	15,000 6,000	8,000 / 6,000
Tool storage	tools	20	20	20
Motor	kW (hp)	22/18.5 (10 min/cont) (30/25) 11/7.5 (10 min/cont) (15/10)	22/18.5 (10 min/cont) (30/25) 11/7.5 (10 min/cont) (15/10)	11/7.5 (10 min/cont) (15/10)
Machine size (W × D × H)	mm (in)	1,950 × 2,810 × 2,746 (76.77 × 110.63 × 108.11) 2,000 × 2,810 × 2,746 (78.74 × 110.63 × 108.11) <2,210 × 2,810 × 2,746> (<87.01 × 110.63 × 108.11>)	2,520 × 3,123 × 2,746 (99.21 × 122.95 × 108.11)	3,045 × 3,404 × 3,295 (119.88 × 134.02 × 129.72)

MB-80V

MB-100V

		MB-80V	MB-100V
Table size	mm (in)	1,600 × 800 (62.99 × 31.50)	3,000 × 1,000 (118.11 × 39.37)
Spindle speed	min^{-1}	15,000 12,000	15,000 12,000
Tool storage	tools	32	32
Motor	kW (hp)	26/18.5 (10 min/cont) (35/25) 33/26 (10 min/cont) (44/35)	26/18.5 (10 min/cont) (35/25) 33/26 (10 min/cont) (44/35)
Machine size (W × D × H)	mm (in)	4,500 × 2,970 × 3,320 (177.17 × 116.93 × 130.71)	8,995 × 3,095 × 3,500 (354.13 × 121.85 × 137.80)

Vertical Machining Centers

MF-V Series

MF-46VA / MF-46VB

Vertical Machining Centers with 2P-APC

		MF-46VA/B
Pallet size	mm (in)	760 × 460 (29.92 × 18.11)
Spindle speed	min^{-1}	8,000 / 6,000
Tool storage	tools	20
Motor	kW (hp)	11/7.5 (10 min/cont) (15/10)
Machine size (W × D × H)	mm (in)	2,406 × 3,270 × 2,946 (94.72 × 128.74 × 115.98) 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 × 3,380 × 2,630 (62.99 × 133.07 × 103.54)	1,600 × 3,545 × 2,630 (62.99 × 139.57 × 103.54)
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 15,000	6,000 12,000	4,000
Tool storage	tools	20	20	20
Motor	kW (hp)	18.5/11 (15% ED/cont) (25/15) 26/18.5 (10 min/cont) (35/25)	15/11 (30 min/cont) (20/15) 22/18.5 (15 min/cont) (30/25)	15/11 (30 min/cont) (20/15)
Machine size (W × D × H)	mm (in)	2,265 × 3,035 × 2,790 (89.17 × 119.49 × 109.84) 2,265 × 3,035 × 2,795 (89.17 × 119.49 × 110.04)	2,650 × 3,310 × 2,790 (104.33 × 130.31 × 109.84) 2,650 × 3,310 × 2,825 (104.33 × 130.31 × 111.22)	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

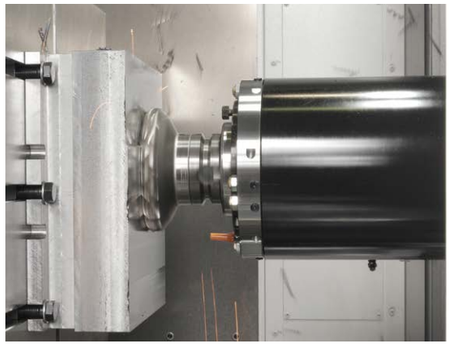
Horizontal Machining Centers

MS-320H

		MS-320H
Table size	mm (in)	ø320 (ø12.60)
Max work size	mm (in)	ø500 × 400 (ø19.69 × 15.75)
Spindle speed	min^{-1}	15,000
Tool storage	tools	10
Motor	kW (hp)	25/15/11 (15% ED/25% ED/cont) (33.3/20/15)
Machine size (W × D × H)	mm (in)	1,580 × 3,120 × 2,630 (62.20 × 122.83 × 103.54)

MA-H Series

MA-4000H / MA-500HⅡ / MA-600HⅢ
MA-8000H / MA-12500H



		MA-4000H	MA-500HⅡ	MA-600HⅢ	MA-8000H	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)	ø630 × 900 (ø24.80 × 35.43)	ø800 × 1,000 (ø31.50 × 39.37)	ø1,050 × 1,200 (ø41.34 × 47.24)	ø1,450 × 1,450 (ø57.09 × 57.09)	ø2,000 × 1,600 (ø78.74 × 62.99)
Spindle speed	min^{-1}	15,000	6,000	6,000	6,000	6,000
Tool storage	tools	48	40	60	60	81
Motor	kW (hp)	38/18.5 (40% ED/cont) (51/25)	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)	2,300 × 5,065 × 2,750 (90.55 × 199.41 × 108.27)	3,110 × 5,998 × 3,173 (122.44 × 236.14 × 124.92)	3,435 × 7,068 × 3,174*1 (135.24 × 278.27 × 124.96)	3,960 × 8,178 × 3,442*2 (155.91 × 321.97 × 135.51)	6,880 × 12,512 × 3,781 (270.87 × 492.60 × 148.86)

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

MB-H Series

MB-5000HⅡ / MB-10000H

		MB-5000HⅡ	MB-10000H
Pallet size	mm (in)	500 × 500 (19.69 × 19.69)	1,000 × 1,000 (39.37 × 39.37)
Max work size	mm (in)	ø800 × 1,000 (ø31.50 × 39.37)	ø1,400 × 1,450 (ø55.12 × 57.09)
Spindle speed	min^{-1}	15,000	6,000
Tool storage	tools	48	40
Motor	kW (hp)	26/18.5 (10 min/cont) (35/25)	30/22 (10 min/cont) (40/30)
Machine size (W × D × H)	mm (in)	2,540 × 5,620 × 2,885*1 (100.00 × 221.26 × 113.58)	4,545 × 6,465 × 3,410 (178.94 × 254.53 × 134.25)

*1. 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

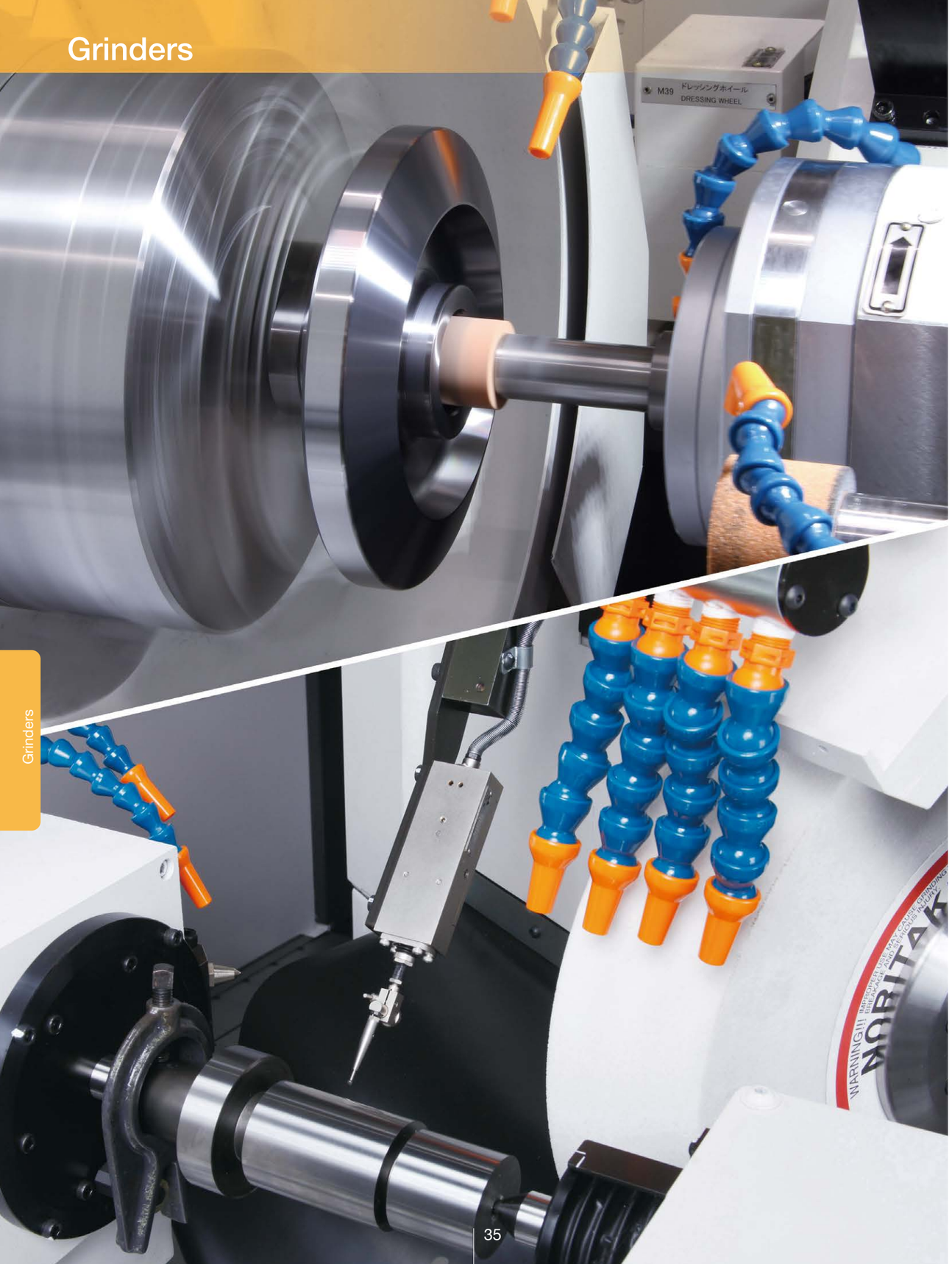
MCR-S

		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, 3,150 (104.33, 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 × 3,000 to 3,000 × 12,000 (78.74 × 118.11 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)	High speed: 43/37 (60 min/cont) (57/50) Low speed: 43/30 (10 min/cont) (57/40)	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 × 8,430 × 6,420 to 8,340 × 27,930 × 6,700 (290.16 × 331.89 × 252.76 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 (øin)	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 (GP) (ø24.02 × 5.91) / ø760 × 150 (ø29.92 × 5.91) ø610 × 135 (GA) (ø24.02 × 5.31)
Wheel peripheral speed	m/min	2,700	2,700	2,700	2,700
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)	2,052 × 2,932 × 2,218 (80.79 × 115.43 × 87.32) 2,532 × 2,932 × 2,218 (99.69 × 115.43 × 87.32)	2,715 × 3,134 × 2,000 (106.89 × 123.39 × 78.74) 3,275 × 3,134 × 2,000 (128.94 × 123.39 × 78.74) 3,975 × 3,134 × 2,000 (156.50 × 123.39 × 78.74) 5,350 × 3,214 × 2,000 (210.63 × 126.54 × 78.74)	2,715 × 3,134 × 2,000 (106.89 × 123.39 × 78.74) 3,275 × 3,134 × 2,000 (128.94 × 123.39 × 78.74) 3,975 × 3,134 × 2,000 (156.50 × 123.39 × 78.74) 5,350 × 3,214 × 2,000 (210.63 × 126.54 × 78.74)

GP-N Series

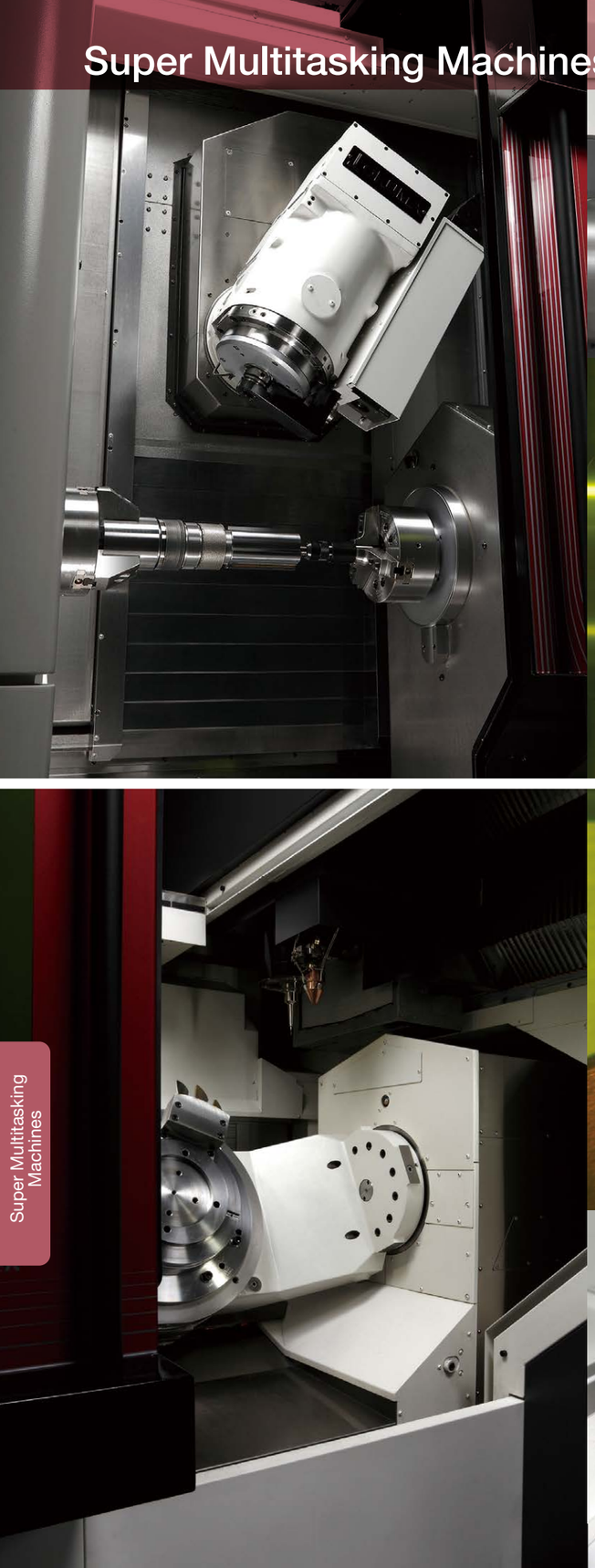
GP-47N / GP-57N / GP-67N

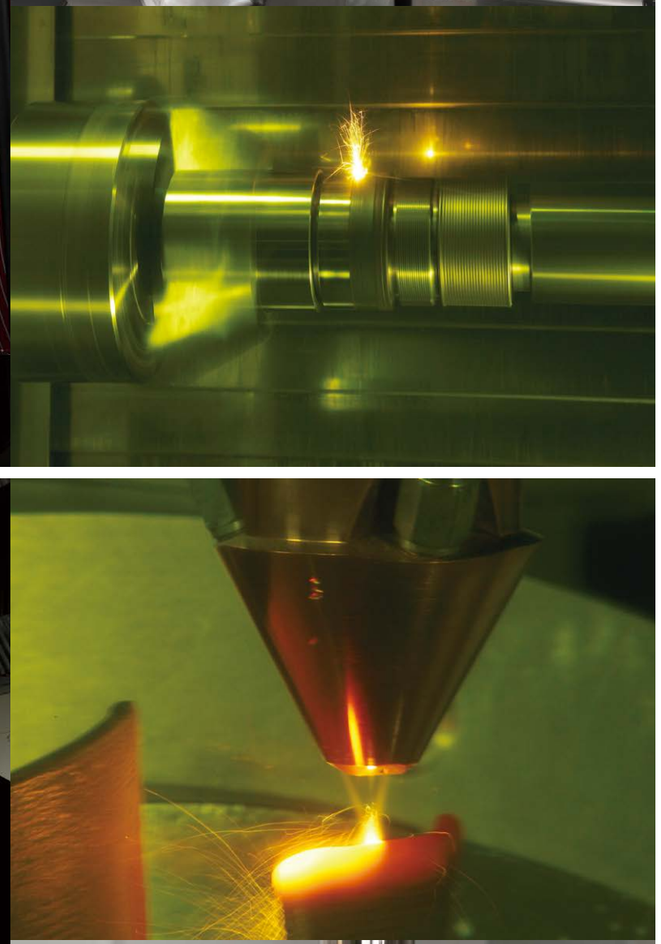
		GP-47/57/67N
Swing over table	ømm (in)	430, 580, 680 (16.93, 22.83, 26.77)
Distance between centers	mm (in)	2,150, 2,650, 3,150 (84.65, 104.33, 124.02)
Wheel size (OD × width)	mm (in)	ø760 × 130 (ø29.92 × 5.12)
Wheel peripheral speed	m/min	2,000
Wheel motor	kW (hp)	15 (20)
Machine size (W × D × H)	mm (in)	8,342 × 3,359 × 2,527 (328.43 × 132.24 × 99.49) 9,342 × 3,359 × 2,527 (367.80 × 132.24× 99.49) 10,342 × 3,359 × 2,527 (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 (øin)	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)	7.5 (10)
Machine size (W × D × H)	mm (in)	2,050 × 2,110 × 1,900 (80.71 × 83.07 × 74.80)	2,568 × 2,955 × 1,995 (101.10 × 116.34 × 78.54)





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

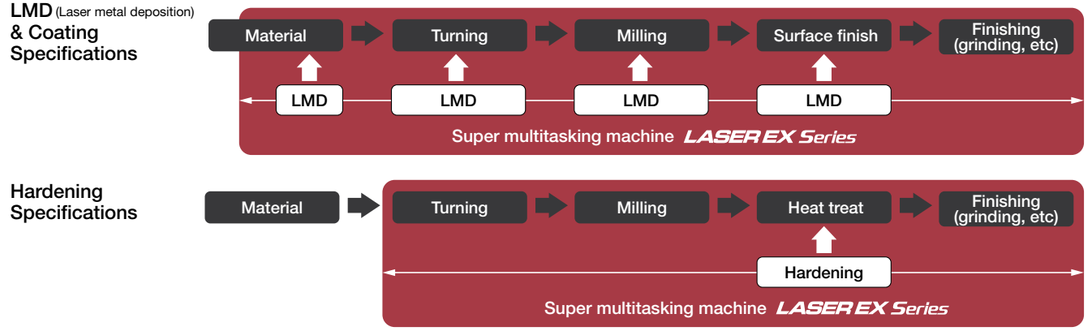
High-resolution 3D printing

Partial repair

Hard coating

Precision hardening

【LASER EX Series produces manufacturing innovations】



OSP-P500

A next-generation CNC that makes manufacturing DX (digital transformation) a reality

21.5-inch

15-inch

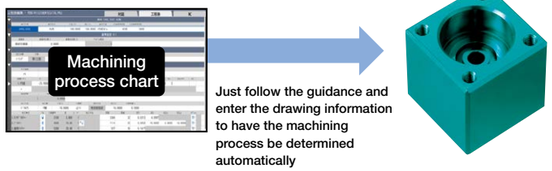
Novice-friendly smart operation

Smart OSP Operation | option

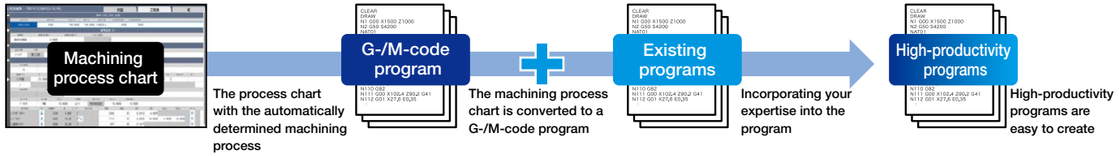
Innovative operability

Conventionally, machining operations are programmed with G-/M-code based on drawings. With OSP-P500, however, you only have to follow the guidance to enter drawing information. So you can prepare for machining quickly, even if you have no familiarity at all with the NC program language.

■ Operation without reliance on G-/M-codes enables easy, quick machining by anyone



■ High-productivity programs are easy to create



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.

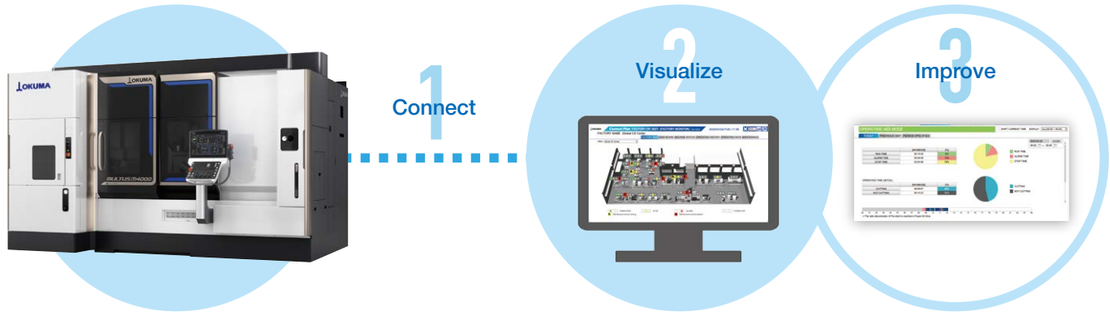
Connect Plan

Get Connected, Get Started, and Get Innovative with Okuma "*Monozukuri*"

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.

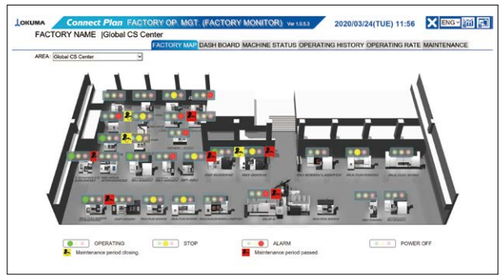


Analyze your factory present and past, improve the future

Factory Operating Management

Visualization of past and present operation results

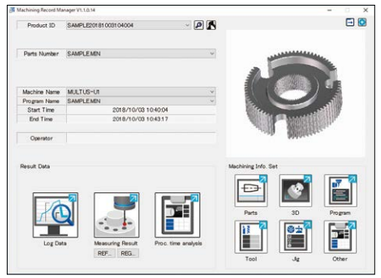
This function reduces machine stop times and raises utilization by visualizing past and present operation results, for analysis and future improvements.



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.



Okuma Regional Offices

Domestic

World Headquarters/Plants

World Headquarters Oguchi Plant
Oguchi-cho, Niwa-gun, Aichi 480-0193 Japan
TEL: +81-587-95-7825 FAX: +81-587-95-6074

Kani Plant
Himegaoka, Kani-City, Gifu 509-0249 Japan
TEL: +81-574-63-5729 FAX: +81-574-63-5647

Okuma's Global Support System

Overseas

The Americas

Okuma America Corporation
11900 Westhall Drive Charlotte, NC 28278 USA
TEL: +1-704-588-7000 FAX: +1-704-588-6503

Partners in Technology
12428 Sam Neely Road Charlotte, NC 28278
TEL: +1-704-587-6789 FAX: +1-704-587-7669

The Okuma Chicago Tech Center
2400 Vantage Dr. Elgin, IL 60124
TEL: +1-630-351-1901

Okuma Technical Center at Hartwig [Houston]
10321 Regal Row Houston, TX. 77040
TEL: +1-713-749-9600

Okuma Technical Center at HEMAQ I [Mexico]
J. Cantu Garcia 601 Col. Garza Cantu San Nicolas de los Garza, N.L. (Monterrey) 66480
TEL: +52-81-8131-3199 FAX: +52-81-8351-4176

Okuma Technical Center at HEMAQ II [Mexico]
Conjunto Industrial "PKCO II", Carr. Estatal 431 KM. 1.3, Int. 23N, El Marques, Querétaro 76246
TEL: +52-442-478-3199

Okuma Latino Americana Comércio Ltda [Brazil Tech Center]
Av. dos Bandeirantes 513 Vila Olímpia São Paulo, SP 04553-010
TEL: +55-11-3049-5600 FAX: +55-11-3049-5601

Europe, Middle East & Africa

Okuma Europe GmbH
Europark Fichtenhain A 20 47807 Krefeld Germany
TEL: +49 (0)2151-374-0 FAX: +49 (0)2151-374-100

Okuma Deutschland GmbH
Donatusstraße 24 50767 Köln Germany
TEL: +49-221-25-89-0 FAX: +49-221-59-89-200

Okuma Technology Centre South
Magirusstraße 21, 89129 Langenau Germany
TEL: +49-7345-9292-0 FAX: +49-7345-9292-10

Okuma Technical Centre East
Gewerbestraße 7 7111 Parndorf Austria
TEL: +43-2166-205000 FAX: +43-2166-2050050

Okuma Benelux B.V.
Weerschip 7, 3991 CR Houten, Netherlands
TEL: +31-(0)30-2412541 FAX: +31-(0)30-2411948

OTR Makina Sanayi ve Ticaret Ltd. Şti.
Halkali Merkez Mah. Basin Ekspres Cad.
No:5B Ayaz Plaza Kat:1 34303
Küçükçekmece – Istanbul, Turkey
TEL: +90-212-472-90-99 FAX: +90-212-472-90-98

Okuma Austria GmbH
Slamastraße 29, 1230 Wien, Austria
TEL: +43-1-617 47 77 0 FAX: +43-1-617 47 77-27

Asia & Oceania

Okuma Machine Tool (Shanghai) Corporation
No. 8, Lane 2915, Huaning Road Xinzhuang Industrial Park
Shanghai, 201108 China
TEL: +86-21-3137-3100 FAX: +86-21-3137-3200

Okuma Machine Tool (Shanghai) Corp Ji'nan Technical Center
Build No. 35, Zhongde Idustrial Park, No.8 Zi Dong Avenue,
Tianqiao District, Jinan 250119
TEL: +86-531-5559-6828/6826

Okuma Machine Tool (Shanghai) Corp Ningbo Technical Center
1F, Building 6, 555 Beichuan Road, Jiangbei District, Ningbo City, Zhejiang Province
TEL: +86-0574-83005238 FAX: +86-0574-83005237

Okuma Machine Tool (Shanghai) Corp Dalian Office
Room 2104, Gu Geng Business Building No.138,
Jin Ma Road, Jinzhou District, Dalian
TEL: +86-411-8796-6870

Okuma Machine Tool (Shanghai) Corp Guangzhou Technical Center
1F, No.2 Workshop, No.9 Baihe Third Road, Guangzhou Economic & Technological Development, Guangzhou 510530
TEL: +86-20-3878-1436 FAX: +86-20-3878-1433

Okuma Machine Tool (Shanghai) Corp Chong Qing Office
Room 1001-2, Liang Jiang Shen Jing Building,
No.1590, Jinkai Road, New District of Northern Chongqing
TEL: +86-23-6775-9589 FAX: +86-23-6775-0035

Okuma Machine Tool (Shanghai) Corp Wuhan Office
Room 1308, Zhengxin Tower, No.26 Jianghan Road, Jianghan District, Wuhan
TEL: +86-27-8359-0320 FAX: +86-27-8359-0317

Okuma Machine Tool (Shanghai) Corp Xi'an Office
Room 11182, Building 1,Blue Ocean Tower, Greenland Central Plaza,
Jinye Road, Xi'an Hi-tech Industries Development Zone, Xi'an
TEL: +86-29-6859-1660/1662/1663 FAX: +86-29-6859-1665

Okuma (Changzhou) Machine Tool Co., Ltd
Floor 1, west section of Building 18, Innovation Industrial Park, 377 Wuyi South Road, Wujin National Hi-Tech Industrial Zone, Changzhou City, Jiangsu Province, China
TEL: +86-519-8366-8990

BYJC-Okuma (Beijing) Machine Tool Co., Ltd.
16 Shuanghe Dajie, Linhe Industrial Development Zone,
Shunyi District, Beijing 101300 China
TEL: +86-10-8949-8551/8538 FAX: +86-10-8949-8518

Tatung-Okuma Co. Ltd
No.14-2, Donghu Rd., Yingge Dist., New Taipei City 239, Taiwan.
TEL: +886-2-2678-8688 FAX: +886-2-2678-8506

Okuma Korea Corporation
16, Cheomdan-daero 60 beon-gil, Yeonsu-gu, Incheon 21988, Republic of Korea
TEL: +82-32-468-9000 FAX: +82-32-865-9000

Okuma Techno (Thailand) Ltd
38 Motorway Road, Kweang Prawet, Khet Prawet, Bangkok 10250
TEL: +66-2322-2445 FAX: +66-2322-2454

Okuma Techno (Thailand) Ltd Pin Thong Branch
Life space 789/283,Nong Kham, Si Racha District, Chon Buri 20110
TEL: +66-89-250-8077

Okuma Techno (Thailand) Ltd Singapore Branch
275 Kakibukit Avenue 1 Shun Li Industrial Park Singapore 416072
TEL: +65-6214-0112 FAX: +65-6214-0076

Okuma Malaysia Sdn. Bhd.
30 Jalan Pemberita U1/49, Kawasan Perindustrian
Temasya, 40150, Shah Alam, Selangor
TEL: +60-3-5569-9250 FAX: +60-3-5569-9251

Okuma Vietnam Co., Ltd
No 56-58-60 Hai Ba Trung St., Sai Gon Ward,
Ho Chi Minh City, Viet Nam
TEL: +84-28-3910-3861 FAX: +84-28-3910-0082

PT. Okuma Indonesia
Rukan Jakarta Garden City The Walk Nomor 3 & 5
Kel. Cakung Timur, Kec. Cakung, Kota ADM. Jakarta Timur
Prop. DKI Jakarta 13910, Indonesia
TEL: +62-21-4683-3458 FAX: +62-21-2246-6475

Okuma India Pvt Ltd
Plot No.89, Udyog Vihar, Phase-1, Gurugram-122016, Haryana, India
TEL: +91-12-4425-0229

Okuma Australia Pty Ltd
3 Tampe Road, Rowville, Victoria Australia 3178
TEL: +61-3-9757-5888

Okuma Australia Pty Ltd. Sydney Branch Office
Unit 6, 16-18 Sterling Road, Minchinbury, New South Wales, 2770, Australia
TEL: +61-2-8887-6000

Okuma Australia Pty Ltd. Brisbane Branch Office
371 MacArthur Avenue, Hamilton, Queensland, 4007 Australia
TEL: +61-7-3736-2455

Okuma Australia Pty Ltd. Adelaide Branch Office
34 Henry Street, Stepney, South Australia 5069 Australia
TEL: +61-8-8130-3100

Okuma Australia Pty Ltd. Perth Branch Office
Unit 5, 308 Victoria Road, Malaga Western Australia, Australia 6090
TEL: +61-8-9249-3918

Okuma New Zealand Ltd
Unit F, 47 Mt Wellington Highway,
Mt Wellington Auckland 1060, New Zealand
TEL: +64-9-570-7025

The products in this catalogue are subject to the Japanese government Foreign Exchange and Foreign Trade Control Act with regard to security controlled items; whereby Okuma Corporation should be notified prior to its shipment to another country.

OKUMA

OKUMA Corporation

Oguchi-cho, Niwa-gun
Aichi 480-0193 Japan
TEL: +81-587-95-7825 FAX: +81-587-95-6074

Pub. No. Machine Tools-E-(13b)-200 (Mar 2026)