OKUMA

OPEN POSSIBILITIES

GENOS L2000-e
GENOS L3000-e

1-Saddle CNC Lathes

GENOS L2000-e
GENOS L3000-e
1-Saddle CNC Lathes

Intelligent Technology

Machining Navi

GENOS L2000-e (L)

GENOS L2000-e (MY)

High quality, high performance

High rigidity gives machining accuracy and productivity exceeding expectations, with thorough ease of use from the customer's perspective.
Okuma squarely faced the challenge of these expectations from machine shops worldwide in developing the GENOS high quality global machine.
Since its launch in 2010, GENOS has earned an outstanding reputation from customers around the world.

Okuma's GENOS series has evolved at the leading edge of "Monozukuri"* that seeks to balance high quality and low cost, contributing to improved productivity.

* Craftsmanship-based, sustainable manufacturing

GENOS L3000-e (M)

GENOS L3000-e (MY)

Users can select the best specifications for their work

Models with different distances between centers for turning and milling specifications are available. Users can select the best specifications for their workpiece length and shape.

	Spindle	Turret	Tailstock	DBC
GENOS L2000-e (L)	5,000 min^{-1} JIS A2-6 15/11 kW (20 min/cont)	V12 turret	MT No. 5 * NC tailstock	290, 500
GENOS L2000-e (M)		V12 VDI multitasking turret		380
GENOS L2000-e (MY)				

* For the GENOS L2000 DBC 290 machine only, the tailstock spec will be MT No. 4.

Photos used in this brochure include optional equipment.

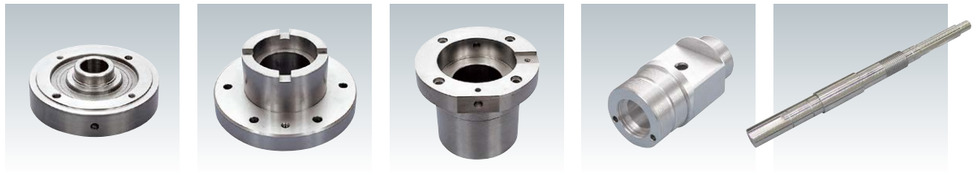
	Spindle	Turret	Tailstock	DBC
GENOS L3000-e (L)	3,800 min^{-1} JIS A2-8 22/15 kW (20 min/cont)	V12 turret	MT No. 5 NC tailstock	500, 1100
GENOS L3000-e (M)		V12 VDI multitasking turret [V12 radial multitasking turret]		450, 1000
GENOS L3000-e (MY)				400, 1000
GENOS L3000-e (MW)		V12 radial multitasking turret	—	DBN: 400
GENOS L3000-e (MYW)				

[ ]: Option

Stronger, smaller and easier to use

Stable, high accuracy machining and high productivity from a compact body.
The GENOS L delivers what the customer wants from a lathe with high machining capacity and accuracy: better cost performance with maximum ease of use.

Applicable workpieces



Meeting capacity and accuracy requirements with high productivity

An integral motor/spindle is used for low spindle vibration to achieve high accuracy machining.
Powerful cutting made possible by highly rigid machine structure that uses a slide guideway in the turret slideway.
Fixturing work before machining can also been done easily with an NC tailstock.

Excellent user-friendliness allows operators to concentrate on the work

Machine configuration for good access and ease of maintenance. A separated coolant tank is used to greatly reduce maintenance time and effort. Machine down time is reduced with little chip accumulation for machine cleanliness even during long, continuous operation in mass production.

Okuma's Intelligent Technology reduces operator burden

Thermo Active Stabilizer—Construction (TAS-C) is used to support dimensional stability on a high plane at cycle start and machining restart. With graphic visualization of machining status on Machining Navi (option), anyone can use the machine and tools to their fullest without difficulty.

Machining dimensional change over time
GENOS L3000-e actual data
(ambient temperature: 8°C change)
≤ ø9 µm

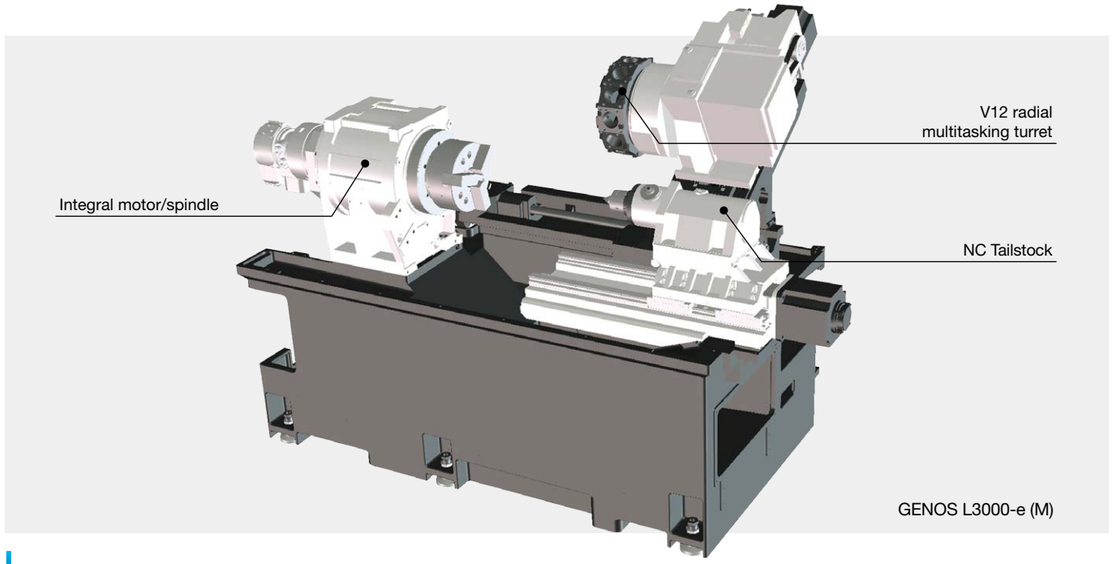
Machine startup
Machining restart
Room temp change

High dimensional stability

Meeting capacity and accuracy requirements with high productivity

Achieve a powerful, high-quality machining

The integral motor/spindle provides fast and high output with high machining capacity—at high quality.
And Okuma's legendary slide guideways are highly rigid to handle powerful cutting loads that result in high productivity.

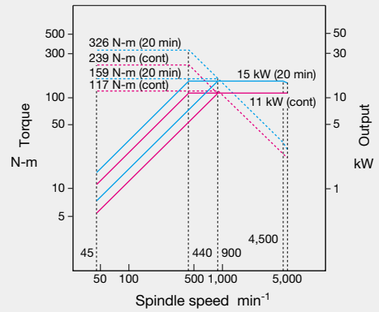


GENOS L3000-e (M)

Integral motor/spindle

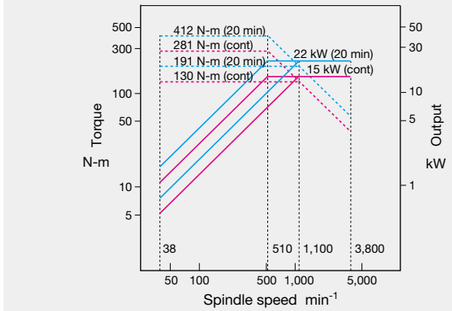
GENOS L2000-e

- Bearing inside diameter: ø100 mm
- Through-hole diameter: ø62 mm
- Spindle speed: 5,000 min^{-1}
- Power: 15/11 kW (20 min/cont)
- Torque: 326/239 N-m (20 min/cont)



GENOS L3000-e

- Bearing inside diameter: ø120 mm
- Through-hole diameter: ø80 mm
- Spindle speed: 3,800 min^{-1}
- Power: 22/15 kW (20 min/cont)
- Torque: 412/281 N-m (20 min/cont)



High accuracy milling

Milling tools can be attached to all locations on turrets with milling specifications. With a spindle indexing command of 0.001°, high accuracy milling can be done at any angle. Two types of multitasking turret, VDI and radial, are available on the GENOS L3000-e.

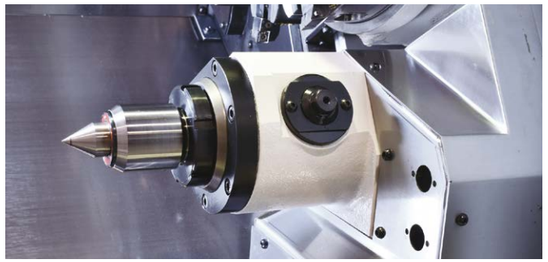
V12 VDI multitasking turret

Simplified shaft work fixturing

Servomotor control NC tailstock is used for the tailstock. Travel and thrust can be set with program commands, greatly increasing ease of use. Setup change can also be easily done.

Tailstock specifications

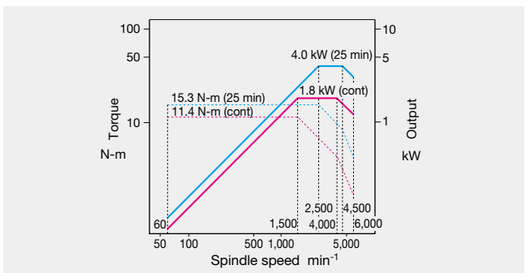
	GENOS L2000-e	GENOS L3000-e
Maximum thrust	(L) C×290 : 2.0 kN	(L) C×500 (M) C×450 : 5.0 kN (MY) C×400
	(L) C×500 (M) C×380 : 5.0 kN (MY) C×380	(L) C×1100 (M) C×1000 : 6.5 kN (MY) C×1000
Rapid traverse	12 m/min	
Approach	10 m/min	
Retract	12 m/min	



Milling tool spindle

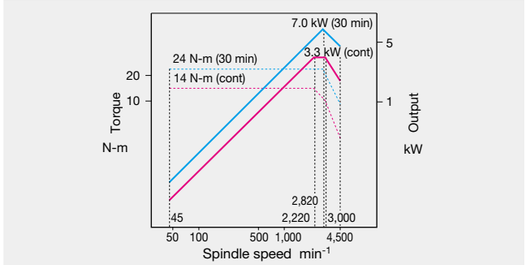
GENOS L2000-e (M/MY) V12 VDI multitasking turret

- Spindle speed: 6,000 min^{-1}
- Power: 4.0/1.8 kW (25 min/cont)
- Torque: 15.3 N-m



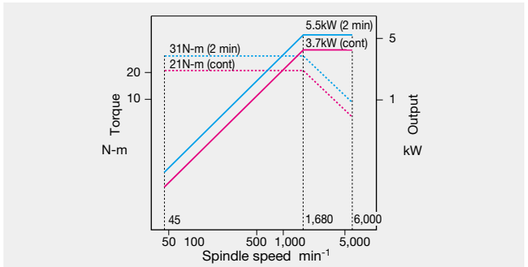
GENOS L3000-e (M/MY) V12 VDI multitasking turret

- Spindle speed: 4,500 min^{-1}
- Power: 7.0/3.3 kW (30 min/cont)
- Torque: 24 N-m



GENOS L3000-e (MW/MYW) V12 radial multitasking turret

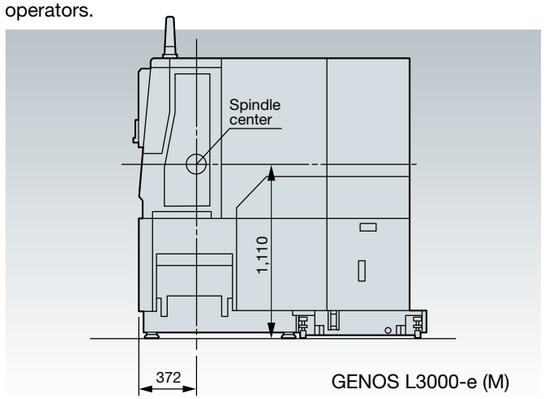
- Spindle speed: 6,000 min^{-1}
- Power: 5.5/3.7 kW (2 min/cont)
- Torque: 31 N-m



Excellent user-friendliness allows operators to concentrate on the work

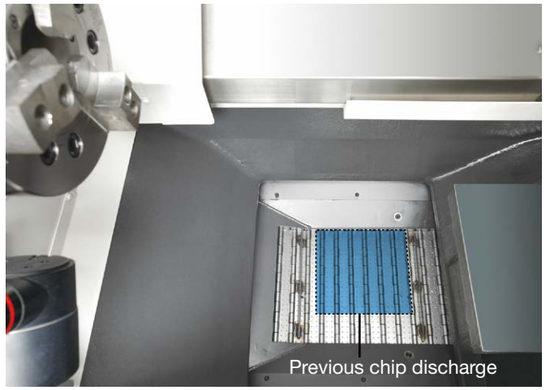
Machine designed for good accessibility

Spindle access is good with 372 mm from the machine front face to the spindle center, reducing the work burden of operators.



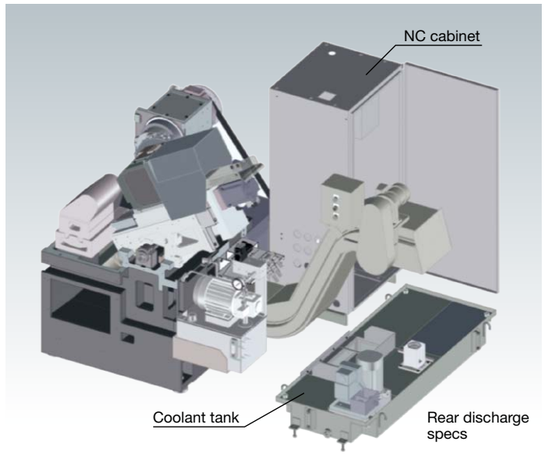
Outstanding chip discharge

The chip discharge outlet is 2 times larger than on previous machines, minimizing chip accumulation. The cleaning frequency is reduced for maximum operation time.



Simplified coolant tank maintenance

The coolant tank can be separated away from the machine for easier cleaning. The tank and the NC cabinet share the same maintenance space to minimize the machine footprint.



Okuma's Intelligent Technology reduces operator burden

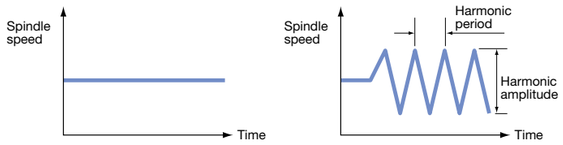
Intelligent Technology

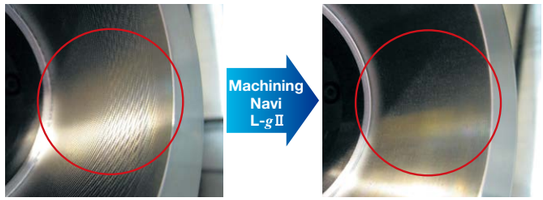
Machining Navi L-*g*Ⅱ (guided, harmonic spindle speed control)

Cutting condition search function for turning

(option)

Varying the spindle speed in accordance with the best amplitude and period makes it possible to suppress chatter during turning operations. Tool life can be extended and machining time reduced with use of the optimum cutting conditions, producing significant effects in drilling/boring bar, and grooving applications.



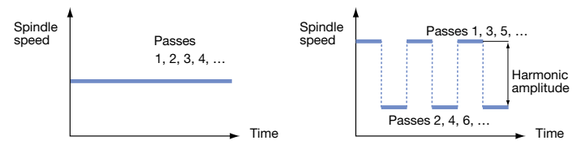


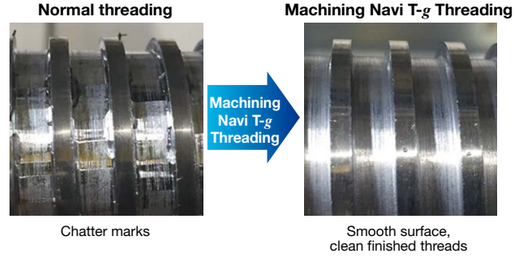
Machining Navi T-*g* Threading

Cutting condition search in threading

(option)

When chatter occurs in threading, general methods to resolve the problem have been to either lower cutting conditions at the expense of productivity, or to use special chatter-resistant tools at some cost. Machining Navi T-*g* (threading) provides optimum control, increasing or decreasing spindle speed on each pass to inhibit the periodic vibrations that are a cause of chatter.





Chatter marks

Smooth surface, clean finished threads

ECO suite Next-Generation Energy-Saving System

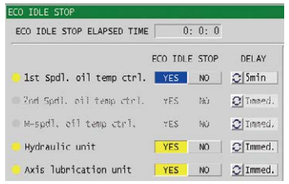
A suite of energy saving applications for machine tools

ECO Idling Stop

Operation only for the time required for each unit

Idling time can be stopped for individual spindle, feed drives, and peripheral equipment. By reducing the idling time, power consumption can also be reduced.

- Example of equipment that can use Idling Stop

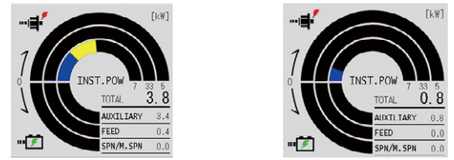


ECO Power Monitor

On-the-spot check of energy savings

Power is shown individually for spindle, feed axes, and auxiliaries on the OSP operation screen. The energy-saving benefits from auxiliary equipment stopped with ECO Idling Stop can be confirmed on the spot.

- Example of Power Monitor check



Before ECO Idling Stop

After ECO Idlling Stop

The displayed values are one example.

Machine Specifications

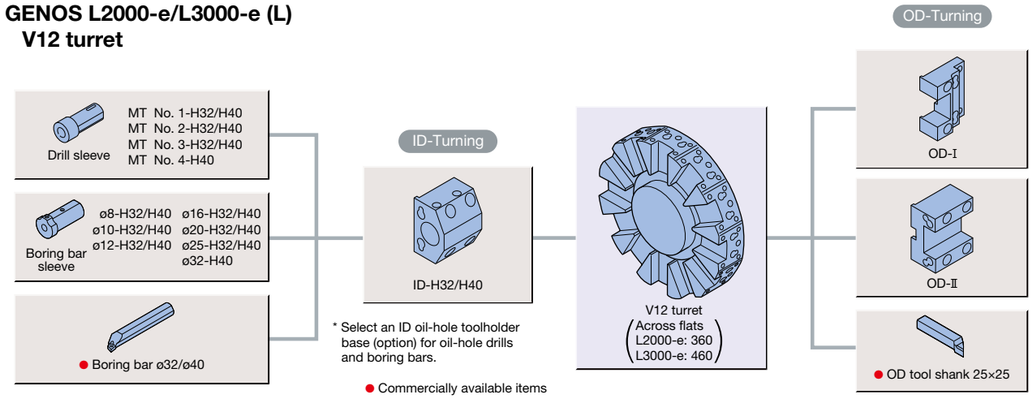
Item	Model name	GENOS L2000-e (L)			GENOS L2000-e (M)	GENOS L2000-e (MY)	GENOS L3000-e (L)			GENOS L3000-e (M)			GENOS L3000-e (MY)			GENOS L3000-e (MW)	GENOS L3000-e (MYW)
		T	C×290	C×500	C×380	C×380	T	C×500	C×1100	T	C×450	C×1000	T	C×400	C×1000	W×400	W×400
Capacity	Swing over bed mm	ø450					ø520										
	Swing over saddle mm	ø350					ø400										ø260
	Max turning dia mm	ø230			ø200		ø340			ø300			ø340 [radial: ø390]			ø300	ø390
	Max work length mm	290		500	380		500		1,100	450 [radial: 380]		1,060 [radial: 980]	420 [radial: 350]		1,020 [radial: 950]	150	
Travel	X-axis mm	165					235									236	235
	Z-axis mm	330		470	400		520		1,144	520 [radial: 460]		1,144 [radial: 1,050]	450		1,074	460	
	Y-axis mm	–				80 (+30 to -50)	–						100 (±50)			–	100 (±50)
	C-axis deg	–			360 (minimum control angle 0.001)		–			360 (minimum control angle 0.001)							
Spindle	Speed min^{-1}	45 to 5,000					38 to 3,800										
	Speed ranges	2 auto ranges (2 range motor coil switching)					2 auto ranges (2 range motor coil switching)										
	Nose type	JIS A2-6					JIS A2-8										
	Bore dia mm	ø62					ø80										
	Front bearing dia mm	ø100					ø120										
Sub-spindle	Speed min^{-1}	–					–									100 to 6,000	
	Speed ranges	–					–									Infinitely variable	
	Nose	–					–									ø140 flat	
	Bore dia mm	–					–									ø53	
	Front bearing dia mm	–					–									ø80	
Turret	Type	V12			V12 VDI multitasking		V12			V12 VDI multitasking [V12 radial multitasking]						V12 radial multitasking	
	No. of tools	12			L and M : 12		12			L and M: 12							
	OD tool shank mm	25×25			20×20		25×25										
	ID tool shank dia mm	ø32					ø40										
	Turret indexing time sec/index	0.3			0.1		0.3			0.1							
Milling tool	Speed min^{-1}	–			50 to 6,000		–			45 to 4,500 [radial: 45 to 6,000]						45 to 6,000	
	Speed range	–			Infinitely variable		–			Infinitely variable							
Feed rate	Rapid traverse (X, Z, Y) m/min	X: 25, Z: 30				X: 25, Z: 30, Y: 10	X: 25, Z: 30						X: 25, Z: 30, Y: 10			X: 25, Z: 30, Y: 25	X: 25, Z: 30, Y: 10, W: 25
	Rapid traverse (tailstock) m/min	–	12				–	12		–	12		–	12		–	
	Rapid traverse (C) min^{-1}	–			200		–			200							
Tailstock	Tapered bore type mm/rev	–	MT No. 4 (revolving center)	MT No. 5 (revolving center)			–	MT No. 5 (revolving center)		–	MT No. 5 (revolving center)		–	MT No. 5 (revolving center)		–	
	Travel mm	–	245	420			–	400	980	–	400	980	–	400	980	–	
Motor	Main spindle kW	15/11 (20 min/cont)					22/15 (20 min/cont)										
	Milling tool spindle kW	–			4.0/1.8 (25 min/cont)		–			7.0/3.3 (30 min/cont) [radial: 5.5/3.7 (2 min/cont)]						5.5/3.7 (2 min/cont)	
	Axis drive (X) kW	3.0				2.8	2.8										
	Axis drive (Z) kW	3.0					3.5		4.6	3.5		4.6	3.5		4.6	3.5	
	Axis drive (Ys) kW	–				2.8	–						3.5			–	3.5
	Axis drive (tailstock) kW	–	1.5	2.9			–	2.9		–	2.9		–	2.9		–	
	Axis drive (W) kW	–					–									2.2	
	Coolant motor (50/60 Hz) kW	0.55/0.75					0.55/0.75										
Machine size	Height mm	1,620				2,087	1,791		2,057	1,791		2,057	2,242		2,489	2,260	2,265
	Floor space (tank included) mmxmm	1,702×1,843	2,015×1,843	2,480×1,822		2,480×1,841	2,280×1,865	2,545×1,865	3,560×2,449	2,280×1,865	2,545×1,865	3,560×2,449	Please contact us	2,545×1,991	3,560×2,574	3,035×1,992	
	Mass kg	3,000	3,200	3,800	3,920	4,200	4,700	5,000	6,660	4,700	5,000	6,950	Please contact us	5,190	8,700	5,810	6,000
CNC		OSP-P300LA-e					OSP-P300LA-e										

[ ]: Option

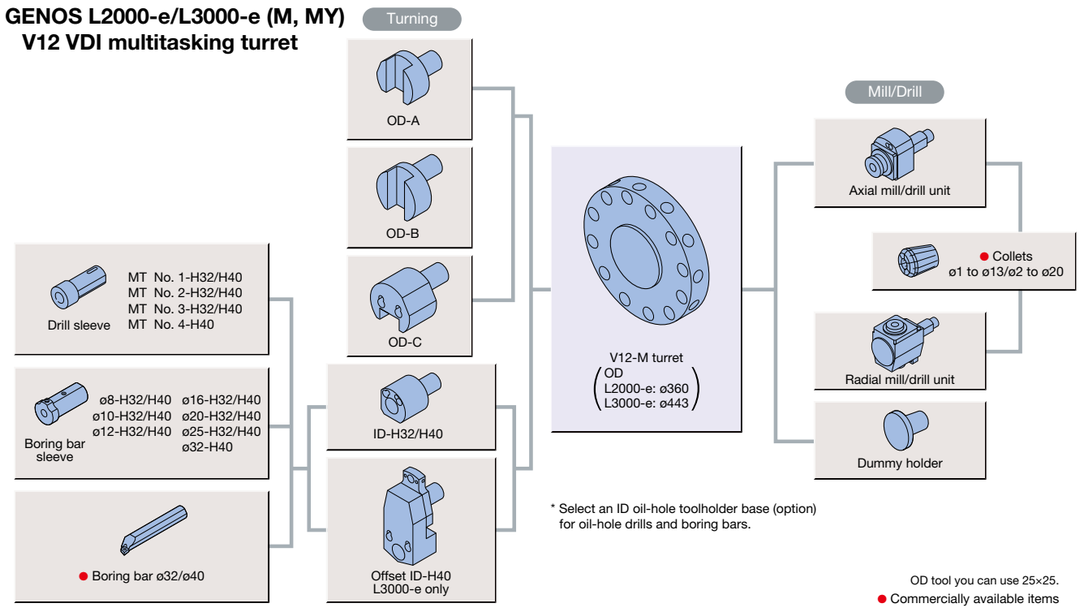
Tooling System

Unit: mm

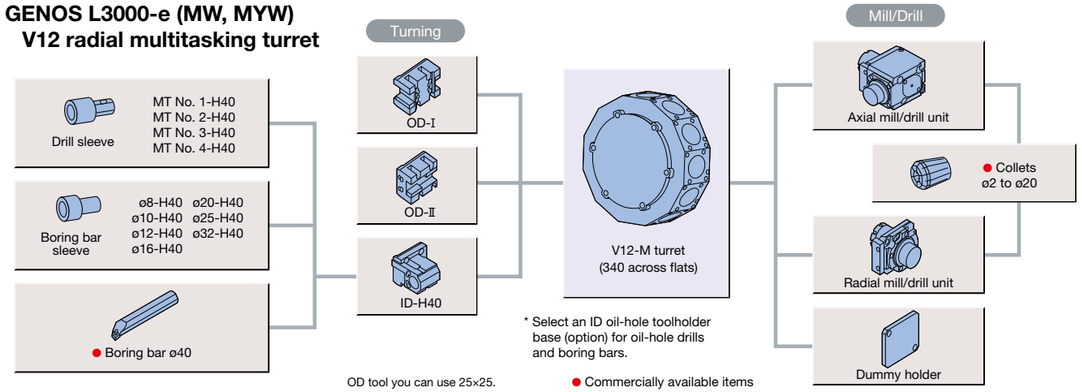
GENOS L2000-e/L3000-e (L) V12 turret



GENOS L2000-e/L3000-e (M, MY) V12 VDI multitasking turret



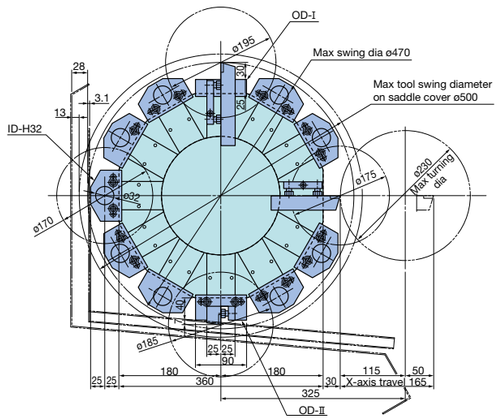
GENOS L3000-e (MW, MYW) V12 radial multitasking turret



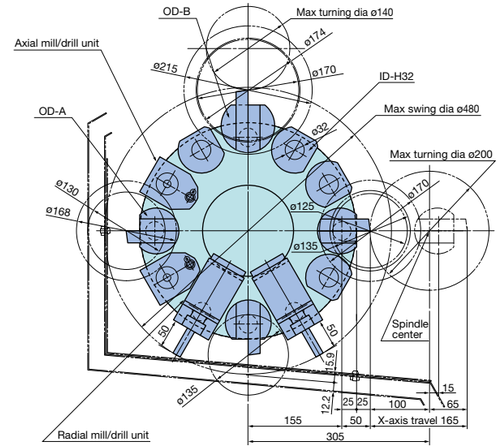
Tool Interference Drawings

Unit: mm

GENOS L2000-e (L) V12 turret



GENOS L2000-e (M) V12 VDI multitasking turret

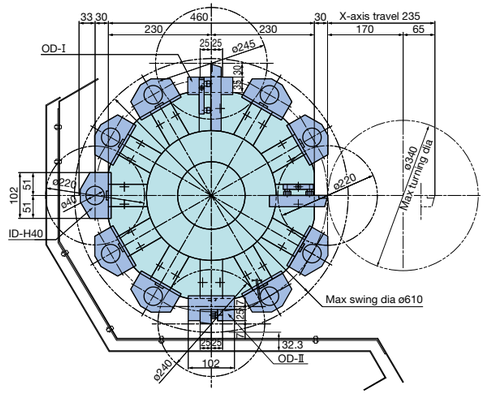


GENOS L2000-e (MY) V12 VDI multitasking turret

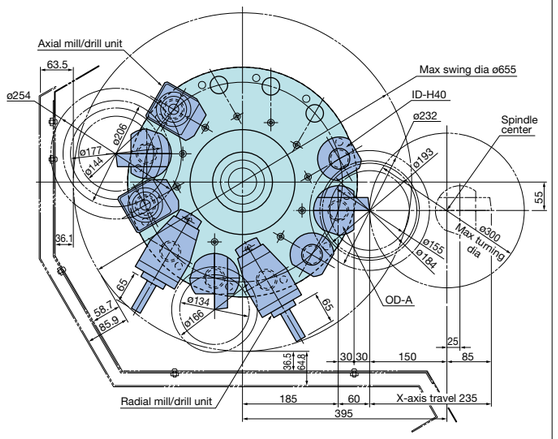
Tool Interference Drawings

Unit: mm

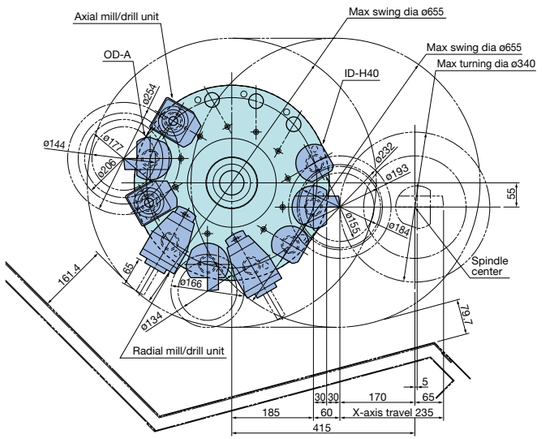
GENOS L3000-e (L) V12 turret



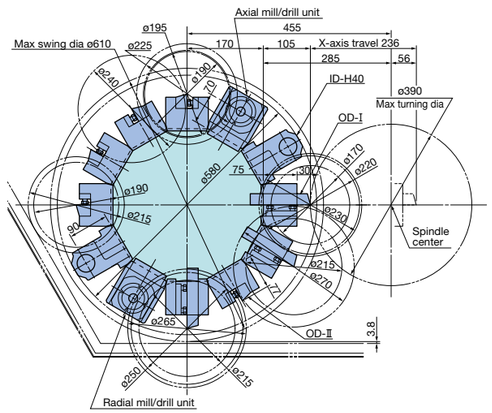
GENOS L3000-e (M) V12 VDI multitasking turret



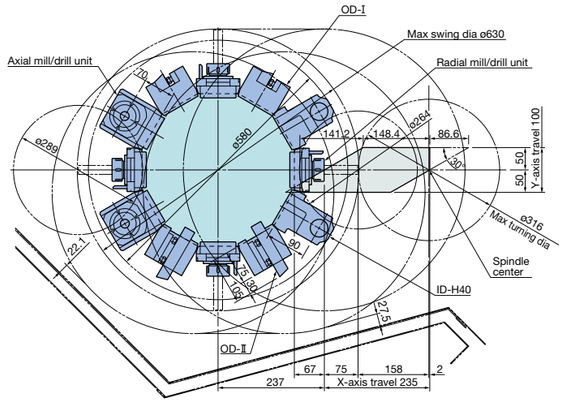
GENOS L3000-e (MY) V12 VDI multitasking turret



GENOS L3000-e (MW) V12 radial multitasking turret



GENOS L3000-e (MYW) V12 radial multitasking turret

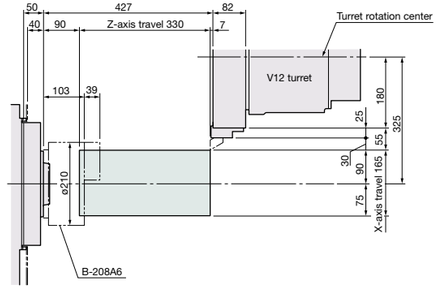


Working Ranges

Unit: mm

GENOS L2000-e (L) T V12 turret

OD-I



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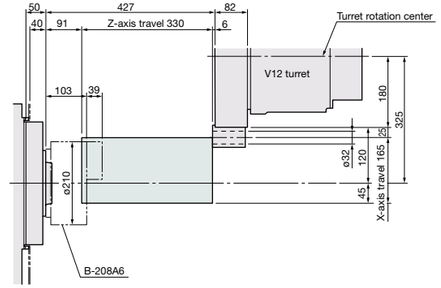
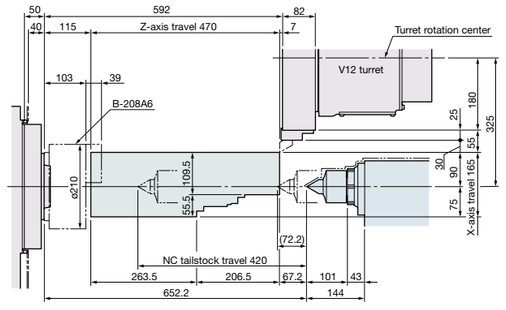


GENOS L2000-e (L) C×500 V12 turret

OD-I



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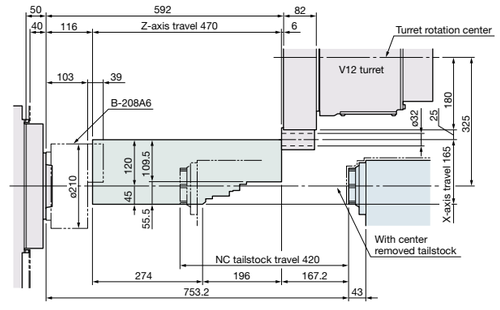
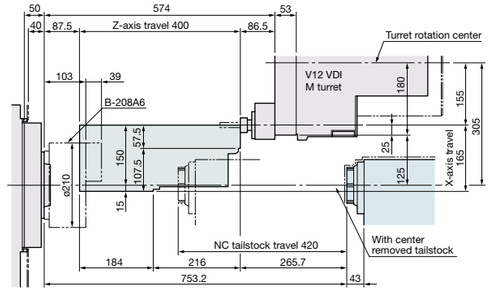
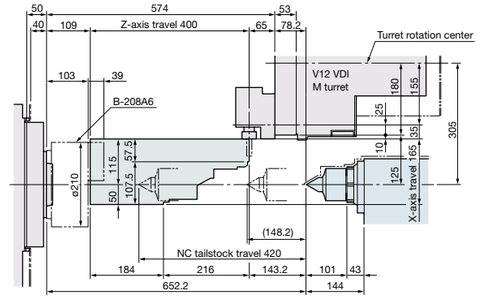


GENOS L2000-e (M) C×380 V12 VDI multitasking turret

Axial mill/drill unit

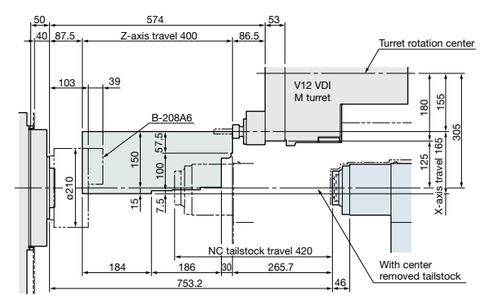


Radial mill/drill unit

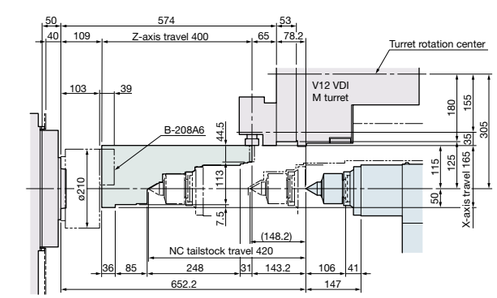


GENOS L2000-e (MY) C×380 V12 VDI multitasking turret

Axial mill/drill unit



Radial mill/drill unit

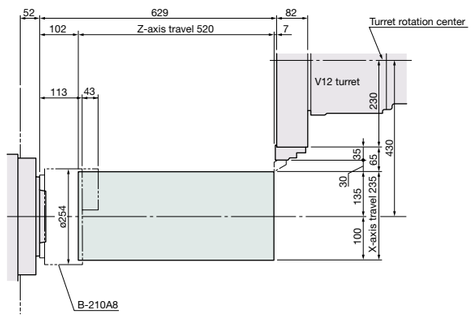


Working Ranges

Unit: mm

GENOS L3000-e (L) T V12 turret

OD-I



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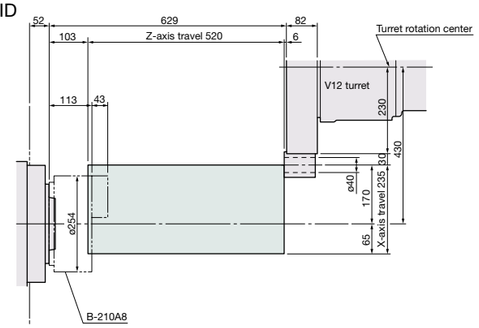

GENOS L3000-e (L) C×1100 V12 turret

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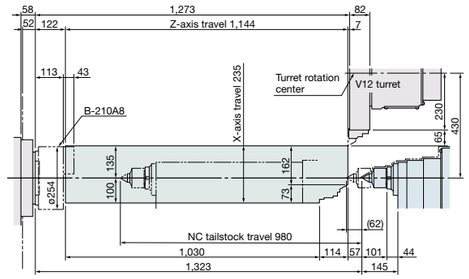

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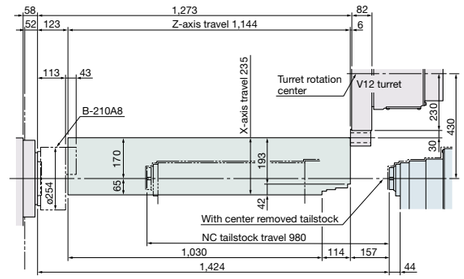
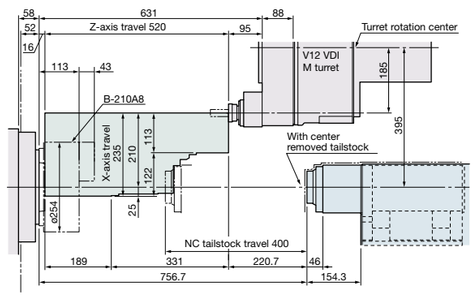
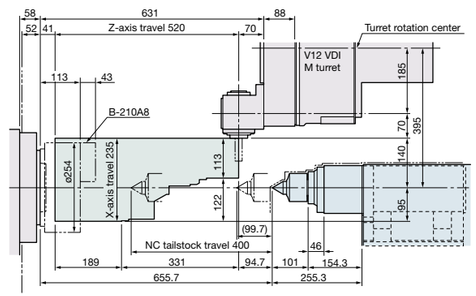


GENOS L3000-e (M) C×450 V12 VDI multitasking turret

Axial mill/drill unit

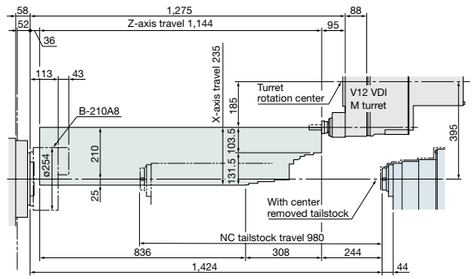


Radial mill/drill unit

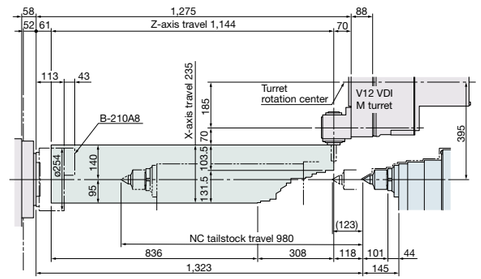


GENOS L3000-e (M) C×1000 V12 VDI multitasking turret

Axial mill/drill unit



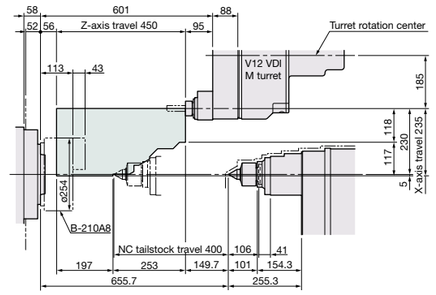
Radial mill/drill unit



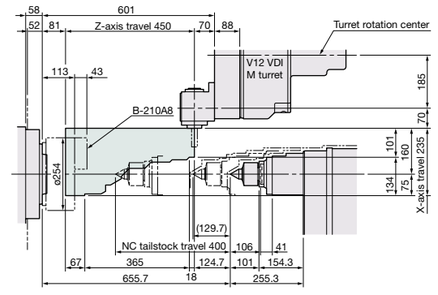
Unit: mm

GENOS L3000-e (MY) C×400 V12 VDI multitasking turret

Axial mill/drill unit

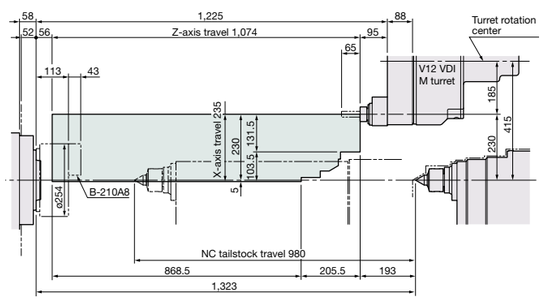


Radial mill/drill unit

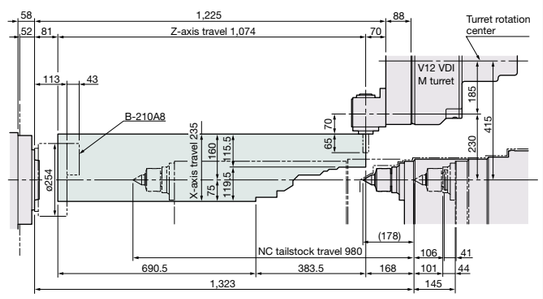


GENOS L3000-e (MY) C×1000 V12 VDI multitasking turret

Axial mill/drill unit

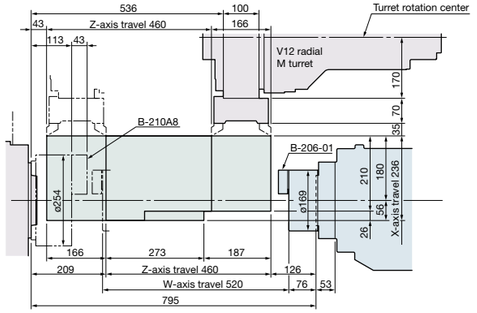


Radial mill/drill unit

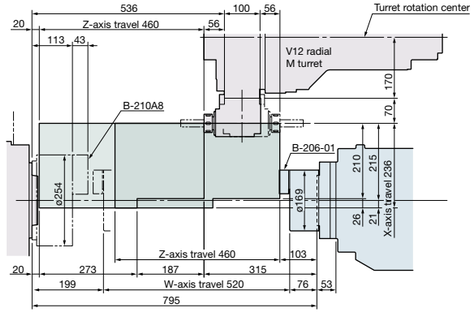


GENOS L3000-e (MW) W×400 V12 radial multitasking turret

OD-I

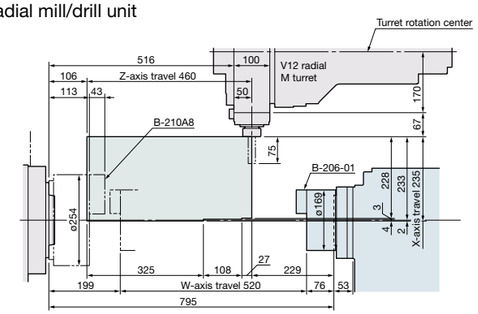


Axial mill/drill unit

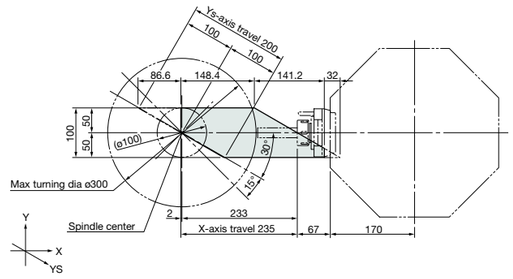


GENOS L3000-e (MYW) W×400 V12 radial multitasking turret

Radial mill/drill unit



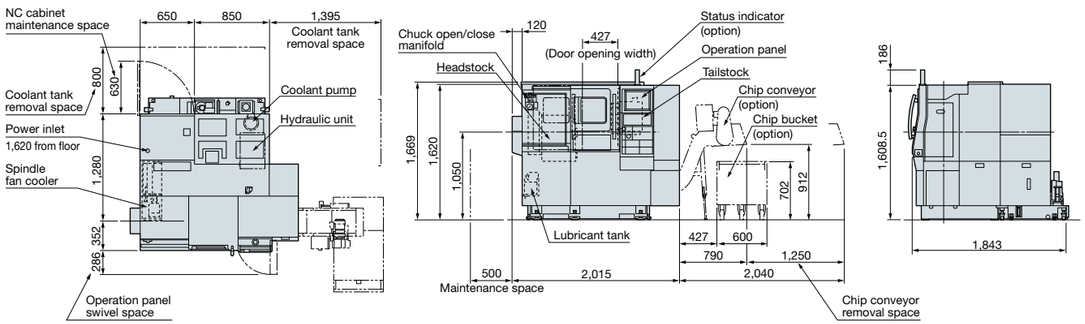
Radial mill/drill unit X-Y plane 0≦Z≦325



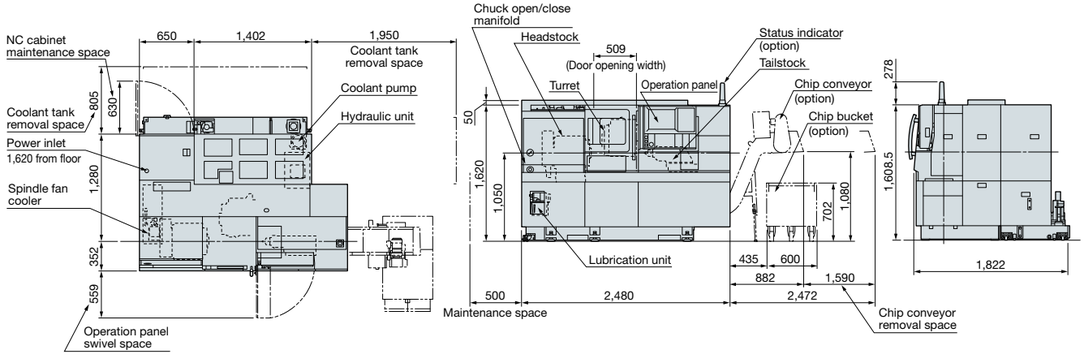
Dimensional Drawing

Unit: mm

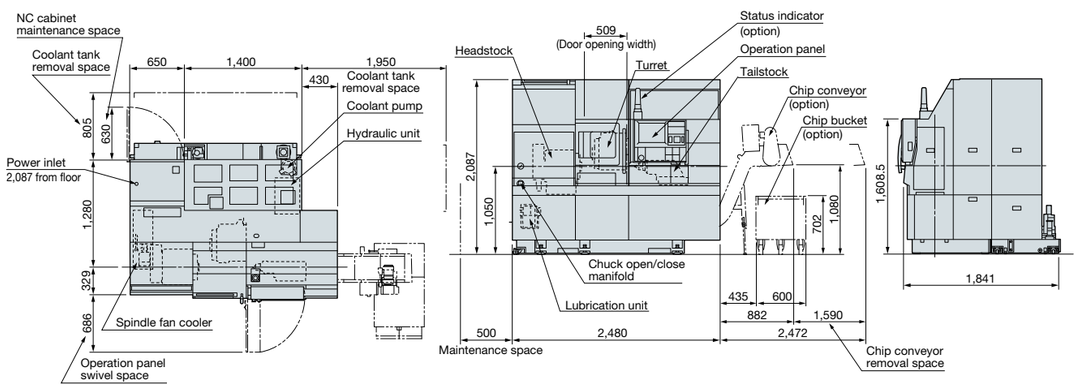
GENOS L2000-e (L) Cx290



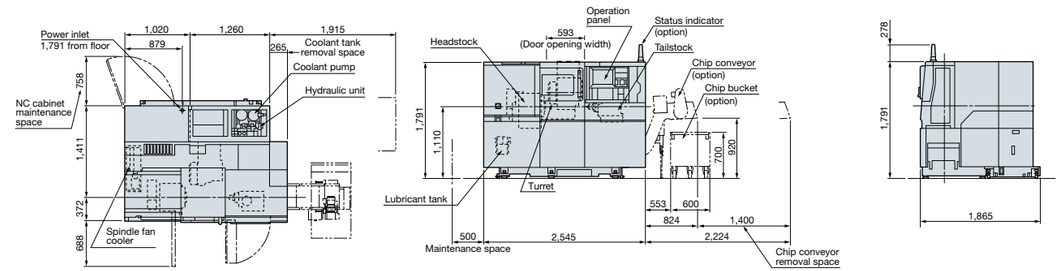
GENOS L2000-e (L) Cx500, (M) Cx380



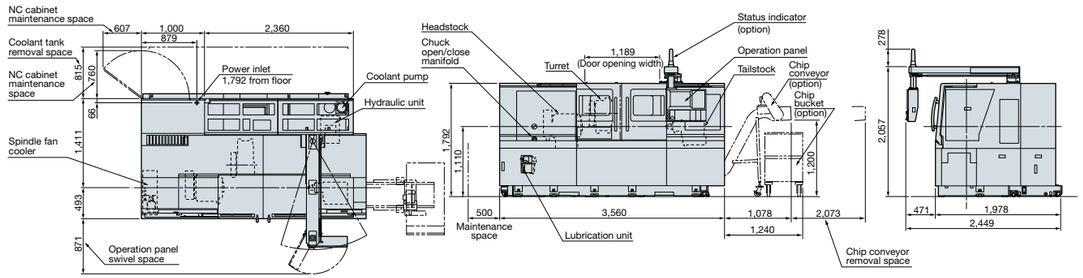
GENOS L2000-e (MY) Cx380



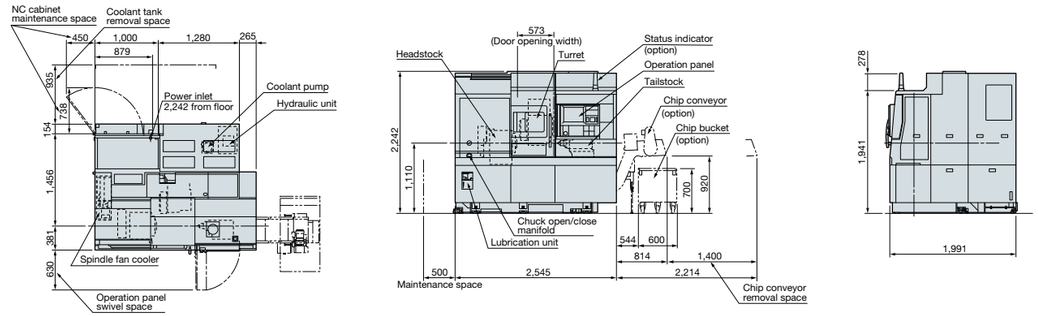
GENOS L3000-e (L) Cx500, (M) Cx450



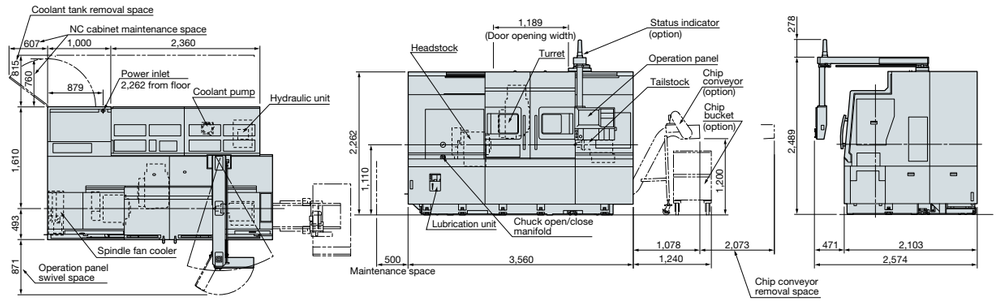
GENOS L3000-e (L) Cx1100, (M) Cx1000



GENOS L3000-e (MY) Cx400



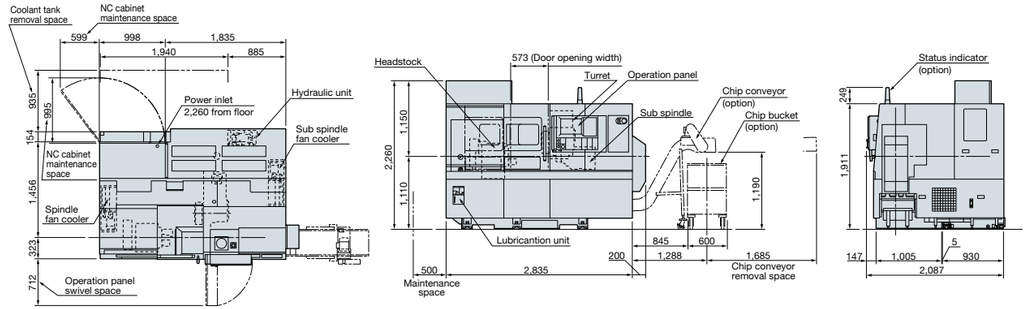
GENOS L3000-e (MY) Cx1000



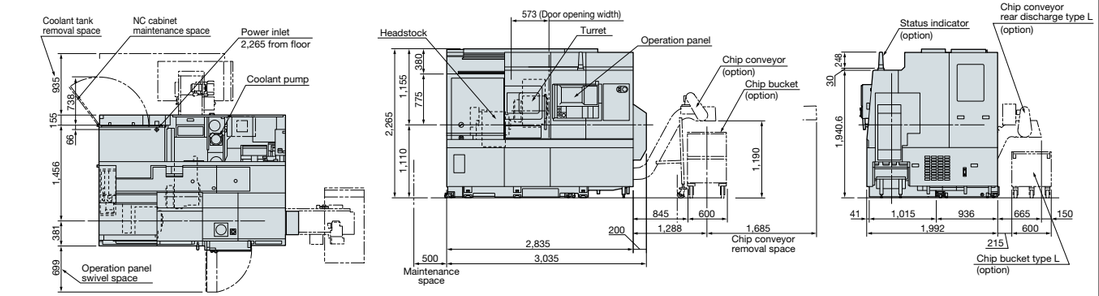
Dimensional Drawing

Unit: mm

GENOS L3000-e (MW) Wx400



GENOS L3000-e (MYW) Wx400



OSP suite OSP-P300LA-e

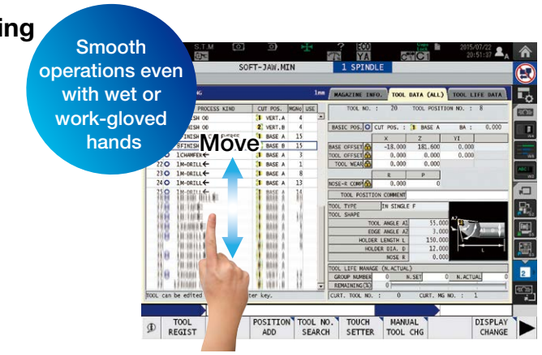
The Next-Generation Intelligent CNC

With revamped operation and responsiveness— ease of use for machine shops first!

Smart factories are using advanced digitization and networking (IIoT) in manufacturing to achieve enhanced productivity and added value. The OSP has evolved tremendously as a CNC suited to advanced intelligent technology. Okuma's new control uses the latest CPUs for a tremendous boost in operability, rendering performance, and processing speed. The OSP suite also features a full range of useful apps that could only come from a machine tool manufacturer, making smart manufacturing a reality.

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. The screen display layout on the operation screen can also be changed to suit operator preferences and customized for the novice and/or veteran machinists.



"Just what we wanted."— Refreshed OSP suite apps

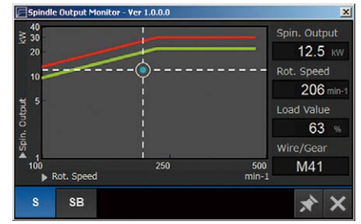
This became possible through the addition of Okuma's machining expertise based on requests we heard from real, machine-shop customers. The brain power packed into the CNC, built by a machine tool manufacturer, will "empower shop floor" management.

Spindle Output Monitor

S11

Increased productivity through visualization of motor power reserve

The specified spindle output (red line: short time rating, green line: continuous rating) and the spindle output in current cutting (blue circle) are simultaneously displayed on the screen, for real-time view of power reserve during cutting.
This allows speeding up cutting by increasing the spindle speed or feed rate while monitoring the graph to ensure that the blue circle does not cross the lines.



Scheduled Program Editor

S10

Easy programming without keying in code

E-mail Notification

S15

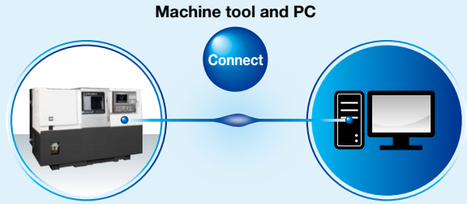
Monitoring utilization status even when away from the machine

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 Connect Plan 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.



OSP-P300LA-e
Okuma Sampling Path Control

Standard Specifications

Name	Description
■ Features	
Axis control	Turning: X, Z simultaneous 2-axis, multitasking: X, Z, C simultaneous 3-axis
Position feedback	Full range absolute position (zero point return not required)
Min and Max command	±99,999.999 mm, 99,999.999° 8-digit decimal, command units: 0.001 mm, 0.01 mm, 1 mm, 0.001°, 0.01°, 1°
Feed	Feed rates are listed in the machine specs; override 0 to 200%
Tool compensation	Tool selection: 32 sets, tool offset: 32 sets, tool wear compensation
Spindle control	Direct spindle speed command, override 50 to 200%, constant cutting speed
M-spindle motor operation (multitasking)	Direct spindle speed command
Display	15” Color display panel, multi-touch panel
Self-diagnostics	Automatic diagnostics and display of program, operation, machine and NC system problems
Hi-G control	Positioning acceleration/deceleration conforming to motor’s speed/torque characteristics
TAS-C (construction)	Corrects thermal deformation error generated during shop temperature changes affecting machine construction
Energy-saving	ECO Idling Stop, ECO Power Monitor
Other	Buffer register, zero offset, tool interference, software limit, chuck barrier, turret barrier, droop control, Single block, machine lock, block delete, optional stop, dry-run, stroke end-limit cancel, etc.
■ Operation	
“suite apps”	Applications to graphically visualize and digitize information needed on the shop floor
“suite operation”	Highly reliable touch panel suited to shop floors. one-touch access to suite apps
Sequence number search	Machine from the specified sequence no.
Sequence restart	Restart from an interrupted sequence
Manual interrupt / auto return	Manual operation during automatic operation; return to interrupt point
Programming	Two programs can be edited simultaneously on one screen
Memory operation	Program storage: 4 GB, operation buffer: 2 MB
Online help	Programming help, operation help, alarm help
PLC monitor	Display of PLC ladder drawings and PLC data
■ Communications / Networks	
Machining management	Machining records, operating records, operating history (data aggregates, displays) Trouble information (data aggregates, displays), records, trouble info file output
External output	USB ports, Ethernet, DNC-T1
■ Programming Function	
Programming	Program management, edit, fixed cycles, special fixed cycles, tool nose R compensation, fixed drilling cycles, Branch statements, auto programming (LAP4)
Manual operation	MDI, manual (rapid traverse, pulse handle), load meter, data I/O, oriented spindle stop (electric), Easy setting of cycle time reduction
Arc radius designation	Circular interpolation by ordering the radius L and end points X or Z
Arbitrary angle chamfering	Simple programming of arbitrary angle chamfers (C, R)
Taper angle designation	Taper interpolation by designating either the X or Z-axis and the starting point angle
mm/min (ipm) programming	Both mm/rev and mm/min feed rate units are possible
Scheduled programs	Non-stop operation possible by setting the sequence order of several work programs
Zero offsets via G-codes	Program zero point offsets are possible
Threading	Lead thread ridge designate, variable lead thread, chamfering while threading, threading cycle
Threading slide hold	Temporary stop during threading, excluding G34/G35
Hole drilling fixed cycles(multitasking)	Drilling, boring and tapping, fine boring, back boring, deep bore drill cycle gradually decreasing movement
Synchronized Tapping (multitasking)	High-speed, high-accuracy tapping with synchronized control of rotation angle and feed axis position, Synchronized Tapping Torque Monitor, Synchronized Deep Bore Tapping
User Task 1	GOTO IF statements, arithmetic operations, local variables, system variables, Common variables (standard: 200 sets)
User Task 2	Sub-programs, functional operation, logical operation

Optional Specifications

Name	Description	Kit TE	Kit TD	Kit TEX
■ Programming				
Arc threading	Threading possible along arc traces			
Program notes	To show notes in part program screens			○
User Task 2	I/O variables can be used(each 8 points)			
Inch/metric switching	Inch, metric switching possible via parameters		○	○
Work coordinate system select	☐ 10 sets ☐ 50 sets ☐ 100 sets			
Tool offset compensation	☐ 96 sets ☐ 200 sets (standard 32 sets)			
Threading slide hold	Temporary stop during threading for G34/G35			
Thread matching	Possible to re-cut threads for threaded parts once removed			
Variable Spindle Speed Threading	Adjusts spindle overdrive while threading			
Coordinate convert (multitasking)	X-C coordinate program designated with X-Y coordinates	△	△	△
Profile generate (multitasking)	Straight-line command, arc command on X-C plane	△	△	△
Advanced One-Touch IGF-L	Quick and simple: even operations without any NC knowledge can input a few keystrokes and be programming in on time			
	Realistic 3-D simulated test cut			
Real 3-D simulation	Real time simulation of all machining modes (auto, MDI, manual operation)		○	○
■ Monitoring				
Status indicator	Automatic operation, work completion, alarm conditions displayed with a 3-color (A-type) signal tower	○	○	○
NC operation monitor	Time totals (cutting, operation, spindle rotation, external input, etc.) and 4 workpiece counters	○	○	○
Tool life management	Automatically calculates workpieces and cutting time, rotates a spare tool in when the set value for the tool life has been reached. Graphs tool life data per tool		○	○
Tool life warning	Alarm several parts before set number of workpieces			
Load monitor	CNC monitors and displays load conditions of feed axis and spindle in a graph (machining stops when overloaded)			○
Load monitor, unload detection	Load monitor ordered			
Cycle time over check	Alarm and stops when prescribed cycle time is exceeded	○	○	○
External input/output	RS-232C connector, USB additional ports, DNC link			
AI machine diagnostics (feed axes)	Identifies and locates abnormalities in the feed axes			
Machine Status Logger	Recording machine data such as spindle load and override operation			
Machining Navi L-gⅡ, T-g (Threading)	Cutting condition search for turning, threading			
■ Gauging				
Auto workpiece gauging/compensation	☐ Integral ☐ External			
Touch Setter tool tip	Automatic			
■ Automated unattended operation				
Chuck pressure switching	High/low switching via M-codes			
Tailstock quill pressure switching	High/low tailstock quill thrust switching with M-codes			
Extra M-codes	☐ 2 sets ☐ 4 sets ☐ 8 sets ☐ 16 sets			
Auto power shut-off	Power supply is shut off automatically according to M02 and alarm conditions			
Cycle time reduction*	Operation time reduction: possible to ignore a various of answers with M-codes	○	○	○
	Spindle rotating chuck open/close, spindle rotating tailstock advance/retract			
Connection with automated devices*	☐ Bar feeder interface ☐ Loader interface			
■ Other functions				
Harmonic Spindle Speed Control	To change spindle speeds periodically; prevents chatter when turning large, thin or long, small-dia shafts	○	○	○
Hi-Cut Pro	High-speed and high-accuracy machining by acceleration control suitable for machining shapes	△	△	△
OSP-VPS	Virus Protection System			
Energy-saving function	ECO Operation: chip conveyor intermittent/linked operation, mist collector intermittent/linked operation, Spindle Power Peak Limiter			
One-Touch Spreadsheet				

* Need to discuss with sales engineer　△: Multitasking Corresponding　○: Kit Corresponding

GENOS L2000-e
GENOS L3000-e

When using Okuma products, always read the safety precautions mentioned in the instruction manual and attached to the product.

● The specifications, illustrations, and descriptions in this brochure vary in different markets and are subject to change without notice.
Pub.No.GENOS L2000_L3000-e-OEG-E-(2c)-250 (May 2022)

GENOS

The origin of gene, from Greek *genos*
meaning race, offspring, origin
(pronounced "*γένος*" as in "generous")

Global
Efficient
No.1
Standard

OKUMA

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