



OPEN POSSIBILITIES

Turning Centers with Twin Spindles

TWIN STAR LT EXseries

LT2000EX/LT3000EX



Turning Centers with Twin Spindles

TWIN STAR LT EXseries

LT2000EX/LT3000EX



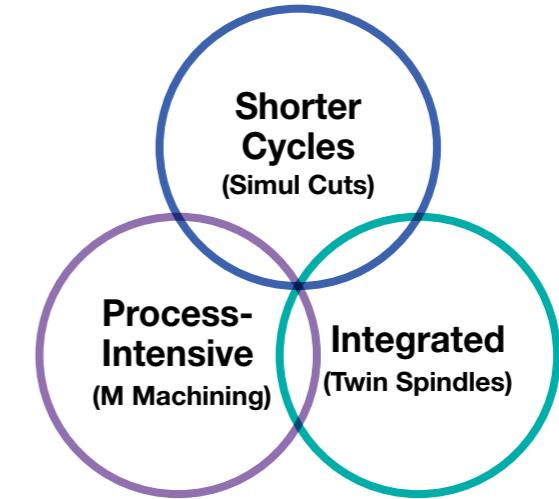
Collision Avoidance
System



SERVO NAVI

In All Directions

Performance that lets you seek the highest productivity.
Complete machining on a single machine with left and right
spindles, upper and lower turrets.



TWIN STAR LT2000EX



TWIN STAR LT3000EX

Photos shown in this brochure may show optional equipment.



Increase productivity to the highest possible level with process-intensive machining, integrated operations

Highly efficient, repeated machining of complex-shaped parts on 3 turrets. Equipped with powerful spindles that have the same capacity on left and right and turrets with the same capacity on top and bottom, optimizing the cycle time balance for 1-2 processes. Long-run continuous operation is also possible with auto bar feeder and unloading systems. Flexible production systems give the ultimate production efficiency.

Complex shape, variable-mix, variable-volume production achieved with the highest productivity

V16 turrets are used for all turrets. Handles complex shape, multi-process, high mix production with 3 turrets and up to 48 tools mounted. Fewer tool changes and greatly reduced non-cutting time.



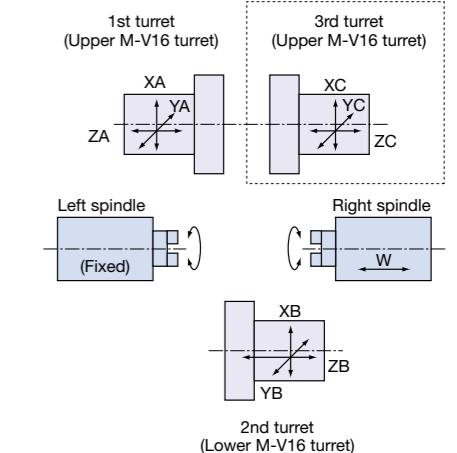
Achieve the best production system with our abundant lineup

Achieve even greater productivity and process-intensive machining by selecting specifications matched to use, such as simultaneous machining with 3 upper/lower turrets or simultaneous upper/lower Y-axis machining.



Spec variations

		2-turret specs			3-turret specs		
		2M	1MY	2MY	3M	2MY	3MY
First multitasking turret (upper left turret)	Without Y-axis control	●			●		
	With Y-axis control		●	●	●	●	●
Second multitasking turret (lower right turret)	Without Y-axis control	●	●		●		
	With Y-axis control			●		●	●
Third multitasking turret (Upper right turret)	Without Y-axis control			●	●		
	With Y-axis control						●



Handles many types of bar blanks

Bar blank diameters that can be machined are expanded to Ø52 mm (LT2000 EX), Ø69 mm (LT3000 EX). Also handles sizes of a higher rank. Continuous nighttime operation is also possible with the use of bar feeders.



High machining accuracy is maintained and worker burden is reduced.

Using the Thermo-Friendly Concept, dimensional accuracy is maintained at high levels during cycle starts and machining restarts. The number of dimensional corrections is reduced and work efficiency is raised.

Achieve ideal balance for 1-2 processes

Highly efficient machining with spindles with same capacity on left and right

Left and right spindles equipped with high accuracy integral motor/spindles make part transfer possible during spindle operation with synchronized C axis control.

	LT2000 EX	LT3000 EX
Spindle motor	11.5/7.5 kW (5 min/cont)	22/15 kW (30 min/cont)
Bar dia	Standard spindle ø52 mm	ø65 mm *2 Big bore spindle ø65 mm *1

*1. Left spindle only *2. Up to ø69 mm is possible with 10-inch chuck.

Note: The chuck/cylinder used may limit machinable bar diameters.



Turrets with the same upper and lower capacity enable full process-intensive machining

V16 turrets are used on both top and bottom to handle complex shape, multi-process, high mix production. Setup change time can be shortened with permanent tool sets.

	LT2000 EX	LT3000 EX
Milling-tool spindle motor	5.5/3.7 kW (2 min/cont)	7.1/4.1 kW (25 min/cont)
Rapid traverse	X axis: 30 m/min, Z axis: 40 m/min	

*1. Left spindle only *2. Up to ø69 mm is possible with 10-inch chuck.

Note: The chuck/cylinder used may limit machinable bar diameters.

Machining capacity

Turning

Workpiece material: S45C

LT2000 EX actual data

OD heavy-duty cutting: 2.5 mm²

Cutting speed: 150 m/min
Cutting depth: 5 mm
Feedrate: 0.5 mm/rev
(Left spindle: First turret)

Drilling: ø30 carbide drill

Cutting speed: 150 m/min
Feedrate: 0.15 mm/rev
(Left spindle: First turret)

LT3000 EX actual data

OD heavy-duty cutting: 4.4 mm²

Cutting speed: 150 m/min
Cutting depth: 8 mm
Feedrate: 0.55 mm/rev
(Left spindle: First turret)

Drilling: ø63 carbide drill

Cutting speed: 120 m/min
Feedrate: 0.2 mm/rev
(Left spindle: Second turret)

Milling

Workpiece material: S45C

LT2000 EX actual data

End milling: 144 cm³/min
ø16-mm 5-flute carbide end mill

Cutting speed: 201 m/min
Cutting depth: 3.0 × 16 mm
Feedrate: 0.75 mm/rev
(Left spindle: First turret)

Drilling: ø16 carbide drill

Cutting speed: 135 m/min
Feedrate: 0.25 mm/rev
(Left spindle: First turret)

LT3000 EX actual data

End milling: 200 cm³/min
ø20-mm 7-flute carbide end mill

Cutting speed: 200 m/min
Cutting depth: 2.5 × 20 mm
Feedrate: 1.26 mm/rev
(Left spindle: First turret)

Drilling: ø20 carbide drill

Cutting speed: 135 m/min
Feedrate: 0.23 mm/rev
(Left/right spindles:
First and second turrets)

Tap: M16 P2

(Left spindle: First turret)

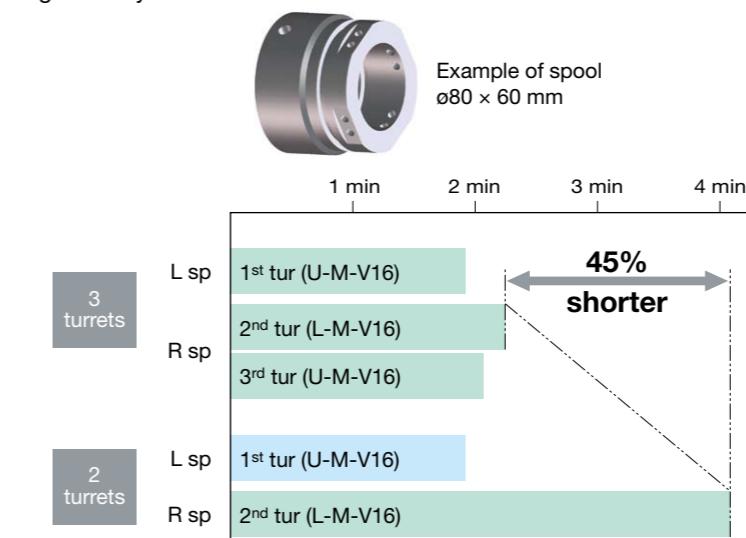
Tap: M20 P2.5

(Left/right spindles:
First and second turrets)

Achieve the best production system with our abundant lineup

Minimize takt time with third turret (Optional)

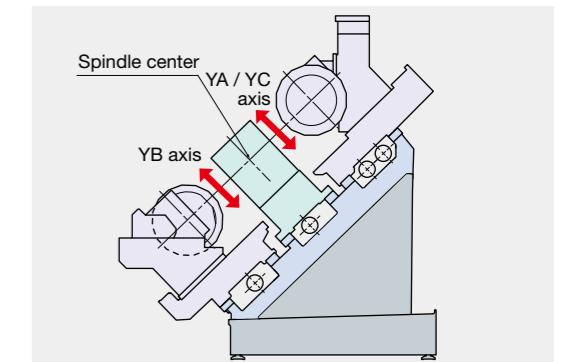
Well-balanced cycle times achieved with simultaneous machining using upper left and right turrets and lower turret. Cycle times can be significantly shortened.



Y-axis specifications (Optional) added on all turrets

Simultaneous upper/lower Y-axis machining possible.

	LT2000 EX	LT3000 EX
Y-axis travel	95 mm YA, YC: +50 to -45 mm YB: +45 to -50 mm	125 mm YA, YC: +70 to -55 mm YB: +55 to -70 mm



Best also for automation with many different specifications

Automation systems can be built to correspond to the machining job, including bar feeder, unloader, and loader specifications. Reduces operator burden and raises productivity even further.



Bar feeder (Optional) + Unloader (Optional)



Unloader (Optional)

Note: The "actual data" referred to above for this brochure represent examples, and may not be obtained due to differences in specifications, tooling, cutting, and other conditions.

Okuma's intelligent technologies reduce operator burden

Manageable Deformation—Accurately Controlled Thermo-Friendly Concept

Okuma's Thermo-Friendly is a structurally designed, thermal deformation control system that provides astonishing machining accuracy.

It frees the machinist from troublesome offsets and machine warm-ups—is superb for long runs, multitasking, front/backend work, plus Y-axis applications.

Highly accurate control technology

Simple machine construction

Machine designs that equalize ambient temperatures

TAS-C [Thermo Active Stabilizer – Construction]

Overall control of thermal deformation on headstock, turret, and bed

Cutting condition search for turning Machining Navi L-g (Optional)

Chatter in a lathe can be suppressed by changing spindle speeds to the ideal amplitude and wave cycle—without decreasing spindle speed.



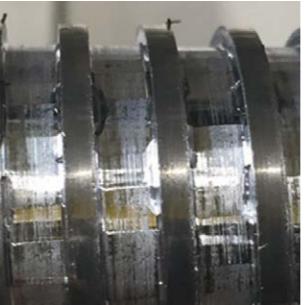
Chatter marks

<Normal turning>

Cutting condition search in threading Machining Navi T-g (Threading) (Optional)

Okuma's Machining Navi T-g (threading) breaks the vibration periodicity with a different spindle speed for each threading pass, and suppresses chatter growth. Stable machining is achieved with your normally used tools.

<Normal threading>



Chatter marks

<Machining Navi T-g (Threading)>



Smooth surface,
clean finished threads

Next-Generation Energy-Saving System

ECO suite

Accuracy ensured, cooler off ECO Idling Stop

Intelligent energy-saving function with the Thermo-Friendly Concept. The machine itself determines whether or not cooling is needed and cooler idling is stopped with no loss to accuracy. (Standard application on machines with Thermo-Active Stabilizer—Spindle)

Collision prevention Collision Avoidance System (Optional)

CAS prevents collisions in automatic or manual mode, providing risk-free protection for the machine and great confidence for the operator.



Virtual machine (collision check)

Spindle power/torque diagrams

● LT2000 EX Standard specifications

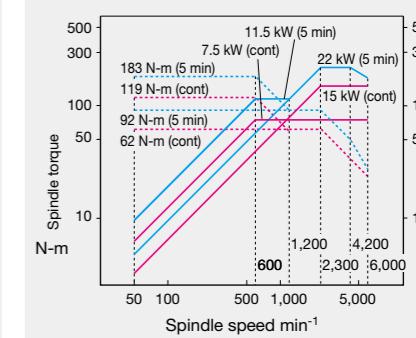
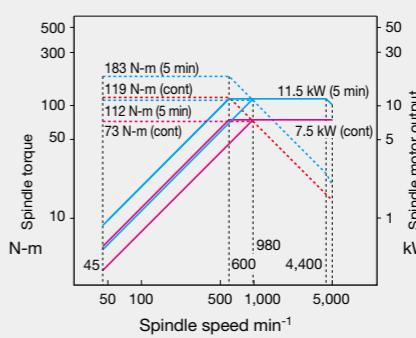
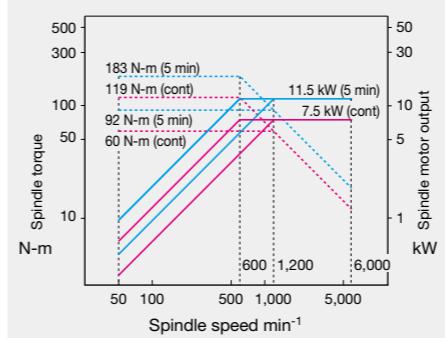
Spindle speed 6,000 min⁻¹
Motor output 11.5/7.5 kW (5 min/cont)
Spindle torque 183/119 N·m (5 min/cont)

● LT2000 EX left spindle big-bore specification

Spindle speed 5,000 min⁻¹
Motor output 11.5/7.5 kW (5 min/cont)
Spindle torque 183/119 N·m (5 min/cont)

● LT2000 EX High output specification

Spindle speed 6,000 min⁻¹
Motor output 22/15 kW (5 min/cont)
Spindle torque 183/119 N·m (5 min/cont)



● LT3000 EX Standard specifications

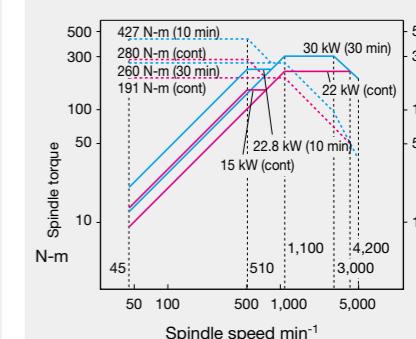
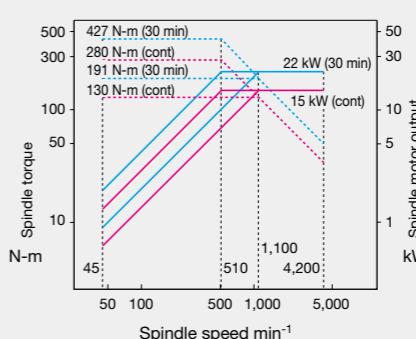
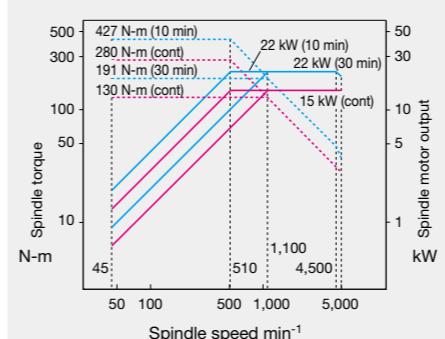
Spindle speed 5,000 min⁻¹
Motor output 22/15 kW (30 min/cont)
Spindle torque 427/280 N·m (10 min/cont)

● LT3000 EX big-bore specification

Spindle speed 4,200 min⁻¹
Motor output 22/15 kW (30 min/cont)
Spindle torque 427/280 N·m (30 min/cont)

● LT3000 EX High output specification

Spindle speed 5,000 min⁻¹
Motor output 30/22 kW (30 min/cont)
Spindle torque 427/280 N·m (10 min/cont)



Milling tool spindle power/torque diagram

● LT2000 EX Standard V16 turret

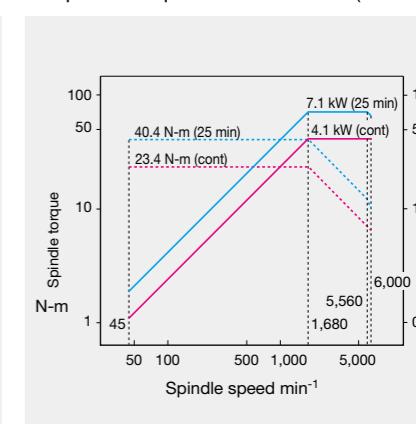
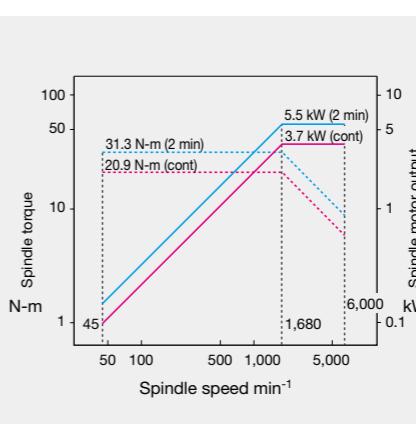
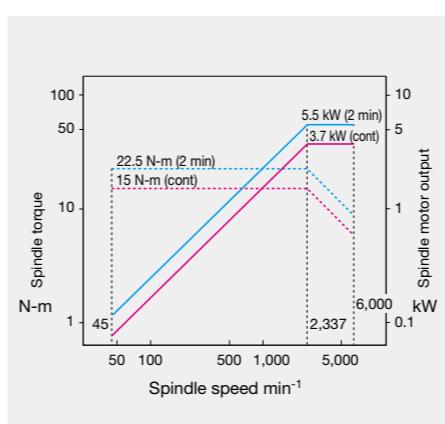
Spindle speed 6,000 min⁻¹
Motor output 5.5/3.7 kW (2 min/cont)
Spindle torque 22.5/15 N·m (2 min/cont)

● LT2000 EX V12 turret (Optional)

Spindle speed 6,000 min⁻¹
Motor output 5.5/3.7 kW (2 min/cont)
Spindle torque 31.3/20.9 N·m (2 min/cont)

● LT3000 EX Standard V16 turret · V12 turret (Optional)

Spindle speed 6,000 min⁻¹
Motor output 7.1/4.1 kW (25 min/cont)
Spindle torque 40.4/23.4 N·m (25 min/cont)



On-the-spot check of energy savings

ECO Power Monitor

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.

On-the-spot check of energy savings

ECO Power Monitor

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.

Machine Specifications

Item	LT2000 EX						LT3000 EX															
	2-turret specs			3-turret specs			2-turret specs			3-turret specs												
	2M	1MY	2MY	3M	2MY	3MY	2M	1MY	2MY	3M	2MY	3MY										
Capacity	Swing over saddle mm (in)	$\varnothing 400$ ($\varnothing 15.75$)						$\varnothing 550$ ($\varnothing 21.66$)														
	Max machining dia × length ^{*1} mm (in)	$\varnothing 210 \times L130$ ($\varnothing 8.28 \times L5.12$)						$\varnothing 350 \times L200$ ($\varnothing 13.78 \times L7.88$)														
Travel	Distance between noses mm (in)	960 (37.80)			990 (38.98)			1,200 (47.25)														
	X axis mm (in)	XA, XB: 205 (8.07) (+175 to -30)			XA, XB, XC: 205 (8.07) (+175 to -30)			XA, XB: 255 (10.04) (+225 to -30)			XA, XB, XC: 255 (10.04) (+225 to -30)											
	Z axis mm (in)	ZA, ZB: 700 (27.56), W: 730 (28.74)			ZA, ZC: 400 (15.75), ZB: 730 (28.74), W: 760 (29.92)			ZA, ZB: 930 (36.61), W: 940 (37.01)			ZA, ZC: 480 (18.90), ZB: 930 (36.61), W: 940 (37.01)											
	Y axis mm (in)	-	YA: 95 (3.74) (+50 to -45)	YA: 95 (3.74) (+50 to -45)	YA, YC: 95 (3.74) (+50 to -45)	-	YA: 95 (3.74) (+50 to -45)	YA, YC: 95 (3.74) (+50 to -45)	-	YA: 125 (4.92) (+70 to -55)	YA: 125 (4.92) (+70 to -55)	YA, YC: 125 (4.92) (+70 to -55)										
	C axis deg																					
Spindle (L/R)	Speed min ⁻¹	50 to 6,000 [50 to 5,000 (Left spindle only)]						45 to 5,000 [45 to 4,200]														
	Speed ranges	2 auto ranges (motor coil switching, 2 ranges)						2 auto ranges (motor coil switching, 2 ranges)														
	Spindle nose	$\varnothing 140$ flat [JIS A2-6 (Left spindle only)]						A2-6 [A2-8]														
	Spindle bore / Front bearing ID mm (in)	$\varnothing 62/100$ ($\varnothing 2.44/3.94$) [$\varnothing 80/120$ ($\varnothing 3.15/4.72$) (Left spindle only)]						$\varnothing 80/120$ ($\varnothing 3.15/4.72$) [$\varnothing 91/140$ ($\varnothing 3.58/5.51$)]														
Turret	Type	Multitasking V16 [V12]						Multitasking V16 [V12]														
	No. of tools	16 [12] (L, M)						16 [12] (L, M)														
	OD tool shank mm (in)	$\square 20/\varnothing 32$ ($\square 0.79/\varnothing 1.26$)						$\square 25/\varnothing 40$ ($\square 0.98/\varnothing 1.57$)														
	Milling tool spindle speed min ⁻¹	45 to 6,000						45 to 6,000														
Rapid traverse	X axis m/min (ipm)	30 (1,181)						30 (1,181)														
	Z axis m/min (ipm)	40 (1,575)						40 (1,575)														
	Y axis m/min (ipm)	-	15 (591)		-	15 (591)		-	20 (787)		-	20 (787)										
	W axis m/min (ipm)		32 (1,260)						40 (1,575)													
	C axis min ⁻¹	200						200														
Motors	Main spindles kW (hp)	L/R: 11.5/7.5 (15.3/10) [22/15 (30/20)] (5 min/cont)						L/R: 22/15 (30/20) [30/22 (40/30)] (30 min/cont)														
	Milling tool kW (hp)	5.5/3.7 (7.5/5) (2 min/cont)						7.1/4.1 (9.5/5.5) (25 min/cont)														
	X axis kW (hp)	XA: 3.5 (4.7), XB: 3.0 (4)						XA, XB: 3.5 (4.7)														
	Z axis kW (hp)	ZA, ZB: 3.5 (4.7)						ZA, ZB: 3.5 (4.7)														
	Ys axis kW (hp)	-	YsA: 3.5 (4.7)		-	YsA: 3.5 (4.7)		-	YsA: 3.5 (4.7)		-	YsA: 3.5 (4.7)										
	Coolant motor (50/60 Hz) kW (hp)		YsB: 2.2 (3)				YsB: 2.2 (3)			YsB: 2.2 (3)			YsA, YsC: 3.5 (4.7)									
Machine size	Height mm (in)	2,285 (89.96)	2,350 (92.52)		2,285 (89.96)	2,350 (92.52)		2,650 (104.33)														
	Chip discharge, side mm (in)	2,435 (95.87)	2,451 (96.50)		2,435 (95.87)	2,451 (96.50)		2,750 (108.27)														
	Floor space (including tank) mm × mm (in)	Chip discharge, side: 3,745 × 2,464 (147.44 × 97.01), Chip discharge, rear: 3,231 × 3,417 (127.20 × 134.53)						Chip discharge, side: 4,504 × 2,750 (177.32 × 108.27), Chip discharge, rear: 3,994 × 3,743 (157.24 × 147.36)														
	Weight (with CNC) kg (lb)	8,500 (18,700)	9,000 (19,800)		9,300 (20,460)	9,800 (21,560)		11,200 (24,640)														
CNC	OSP-P300LA						OSP-P300LA						[] Optional									

*1: Rough dimensions for work lengths that can be axially milled simultaneously on 2 turrets [] Optional

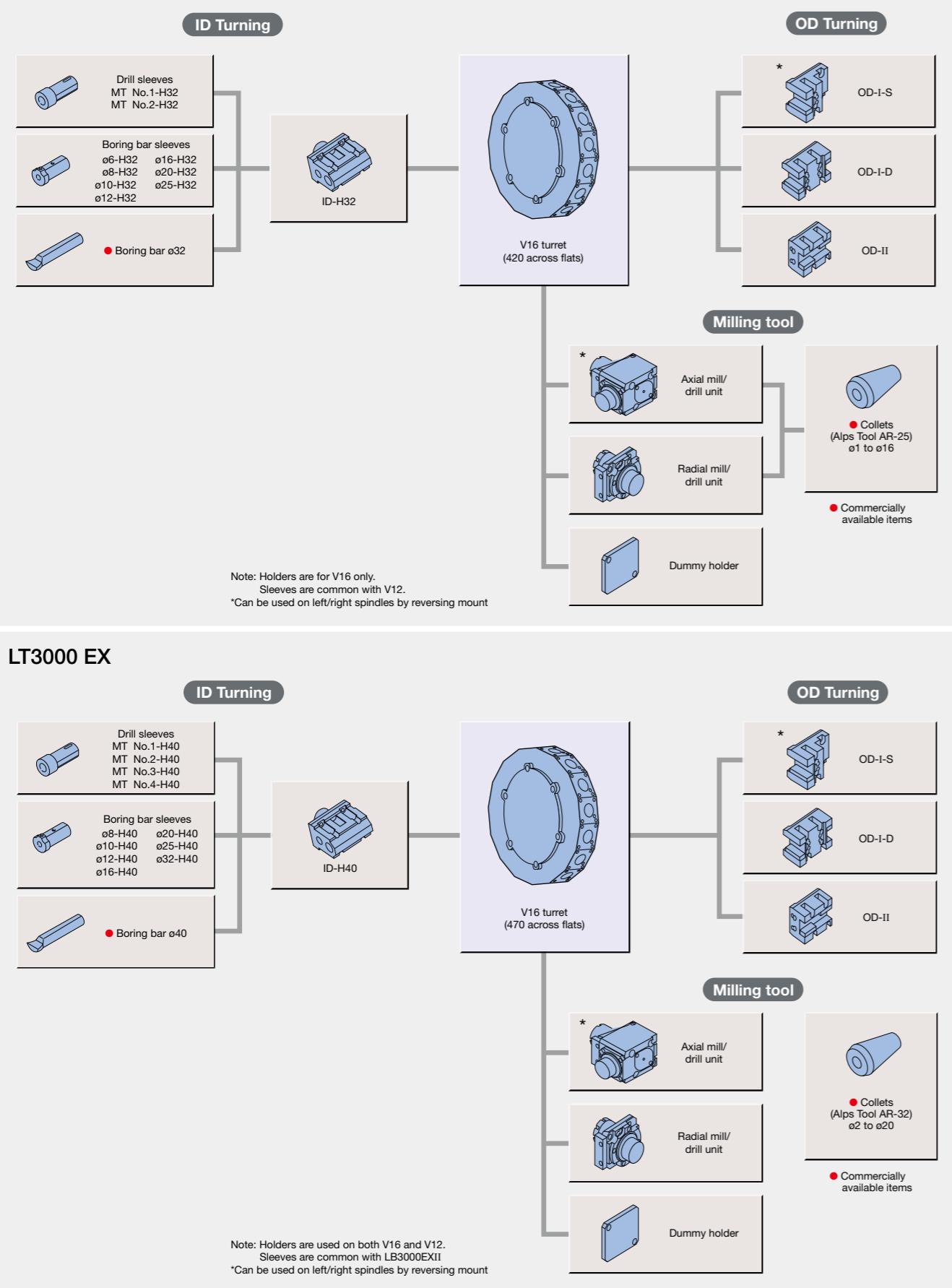
[] Optional

Standard Specifications & Accessories

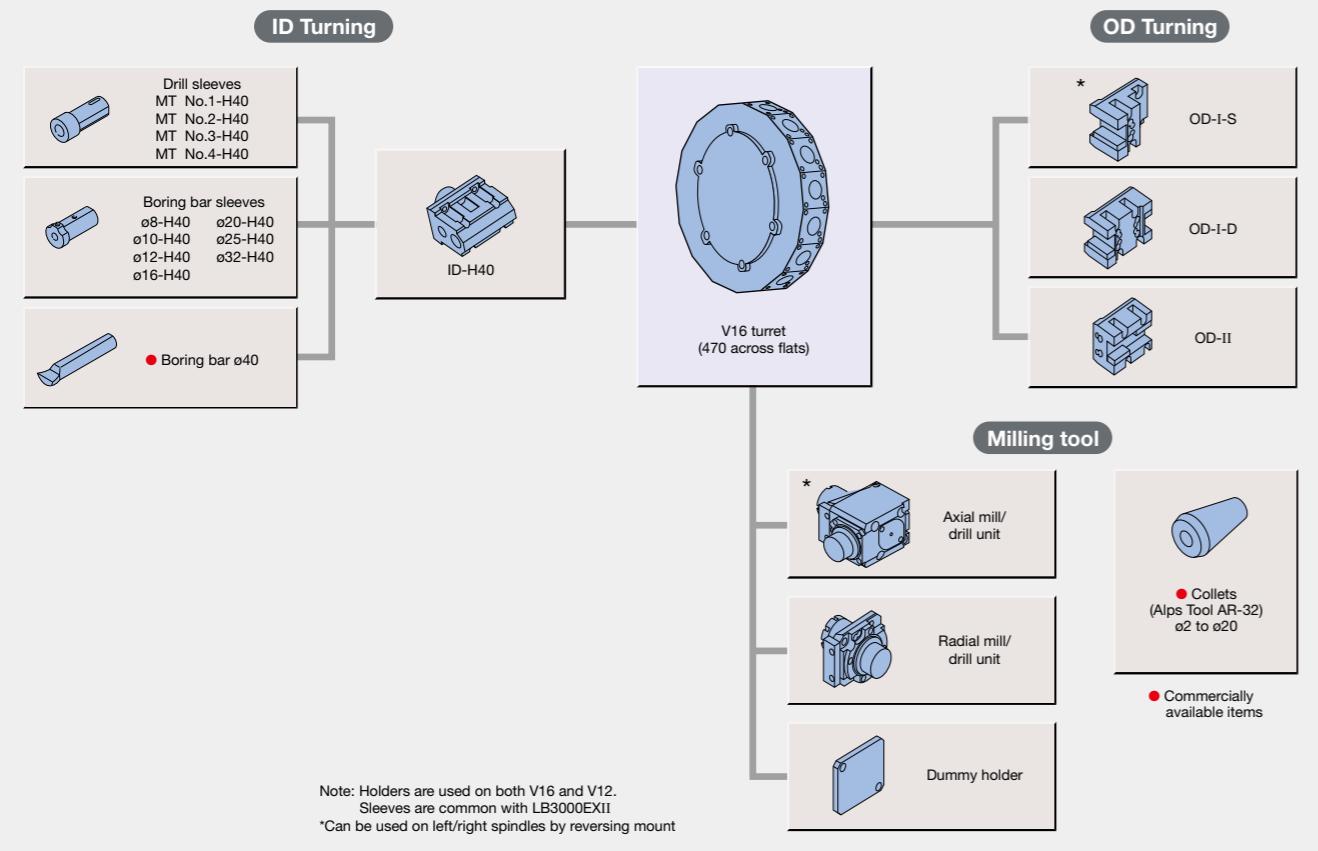
Model	LT2000 EX	LT3000 EX
Spindle	L/R $\varnothing 140$ flat, 50 to 6,000 min ⁻¹ 11.5/7.5 kW (5 min/cont)	L/R A2-6, 45 to 5,000 min ⁻¹ 22/15 kW (30 min/cont)
Turret	U/L M-V16 (L/M 16 tools)	
Tools	OD 20 × 20 mm, ID $\varnothing 32$ mm	OD 25 × 25 mm, ID $\varnothing 40$ mm
Milling tool spindle speed	45 to 6,000 min ⁻¹	
Motors	5.5/3.7 kW (2 min/min)	7.1/4.1 kW (25 min/min)
Spindle cooler		
Standard accessories		
Hydraulic unit		
Coolant unit	Chip washing nozzle (distribution type)	
Chip air blower (blast)	L/R chuck air blast	
Lube system	Oil level alarm/pressure alarm (lube monitor)	
Triple-lamp status indicator		
Chuck foot pedal		
Work lamp	LED	
Jack bolts, foundation block		

■ Tooling System

LT2000 EX

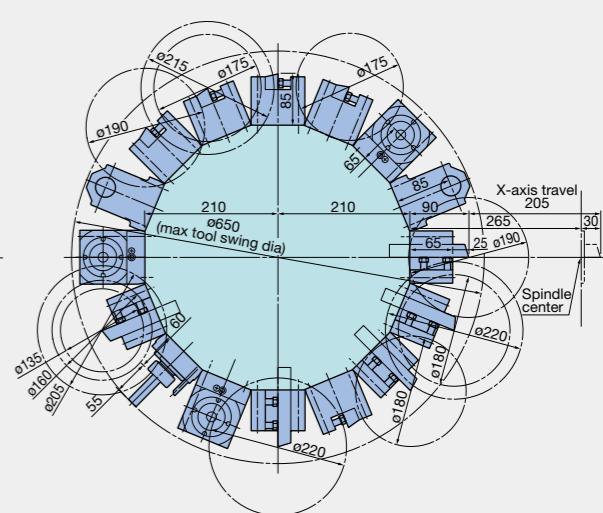
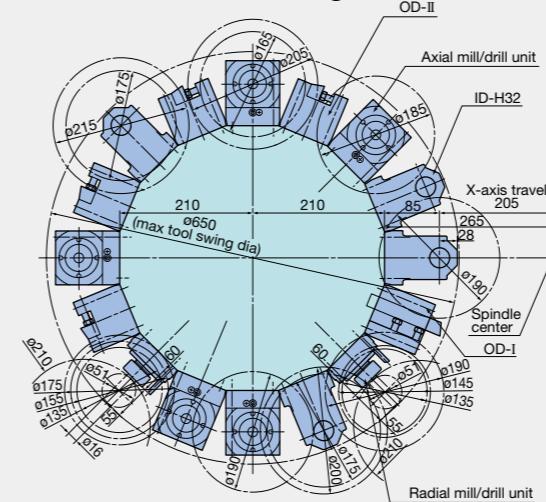


LT3000 EX

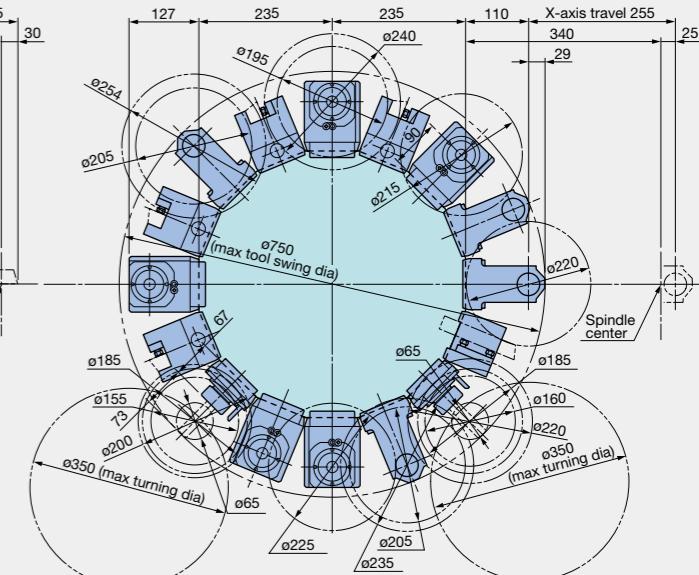
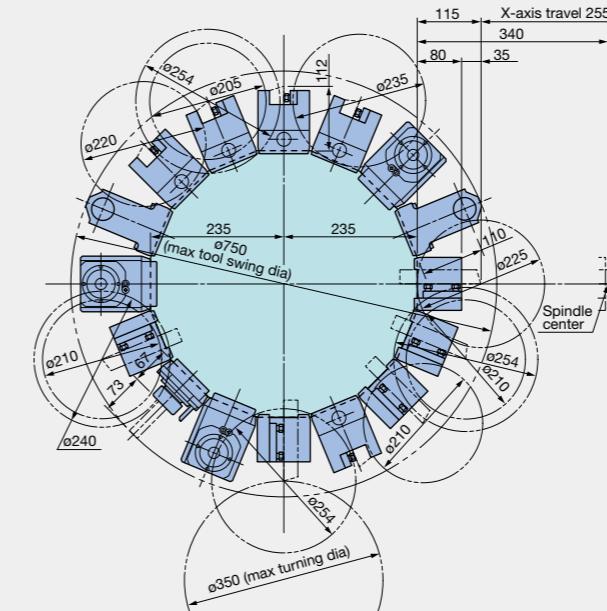


■ Tool Interference Drawing

LT2000 EX V16 multitasking turret



LT3000 EX V16 multitasking turret



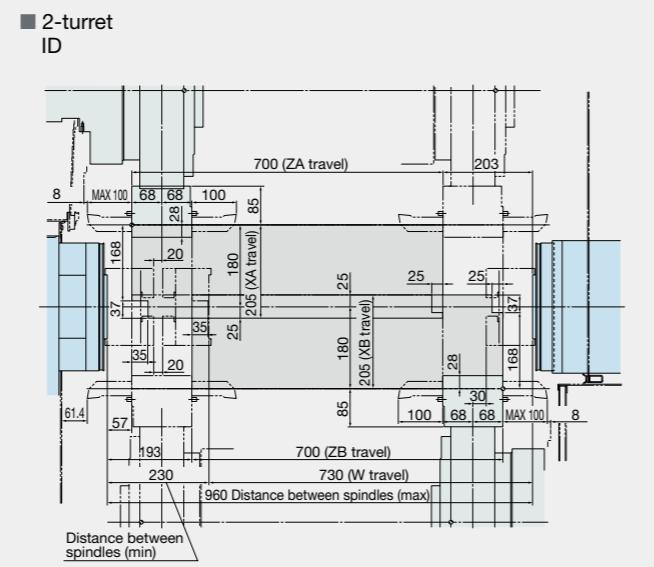
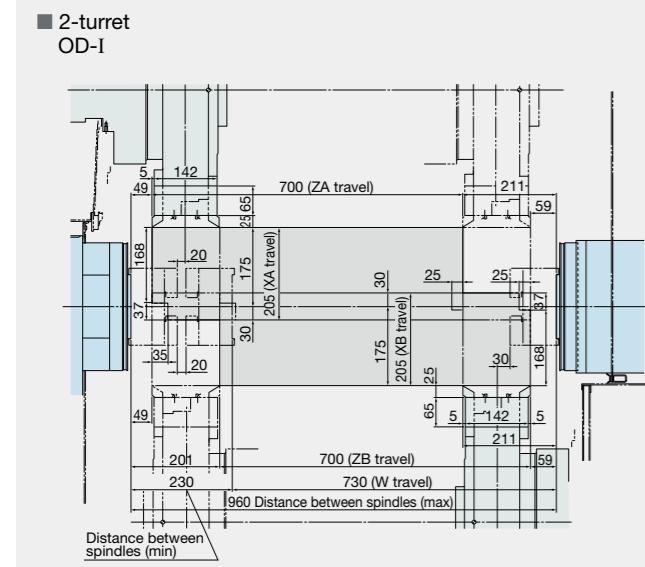
Recommended Chip Conveyors

Chip conveyor types and applications

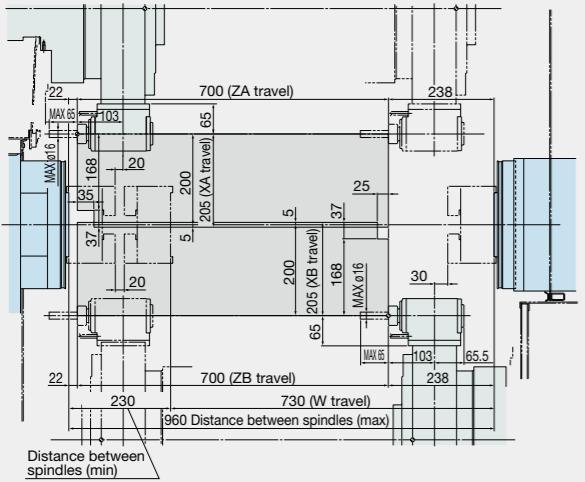
Type	Hinge	Scraper	Magnetic scraper	Hinge + scraper (drum filter)
Application	● Steel	● Castings	● Castings	● Steel, castings, nonferrous metal
Features	● General use	● Magnetic scraper more effective for sludge disposal ● Easy maintenance ● Blade scrape	● Effective with sludge ● Not suited for nonferrous metals	● Filtration of long and short chips and coolant
Shape				

Note: Machine platform may be necessary depending on the type of conveyor.

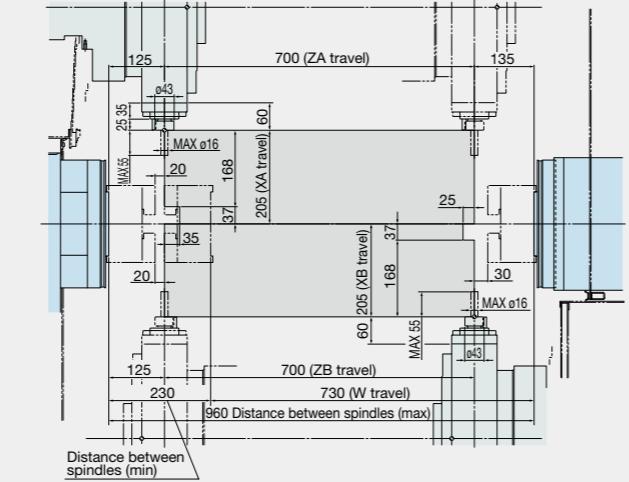
LT2000 EX Working Ranges



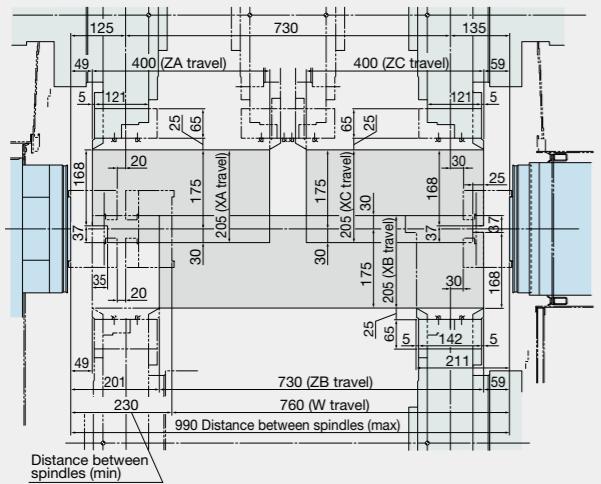
■ 2-turret
Axial drill/mill unit



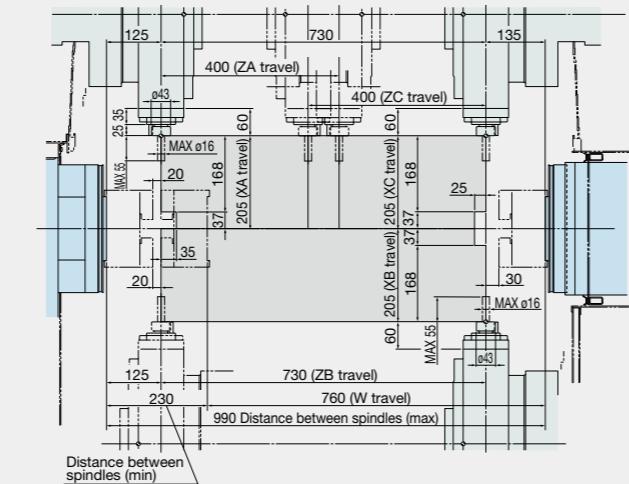
■ 2-turret
Radial drill/mill unit



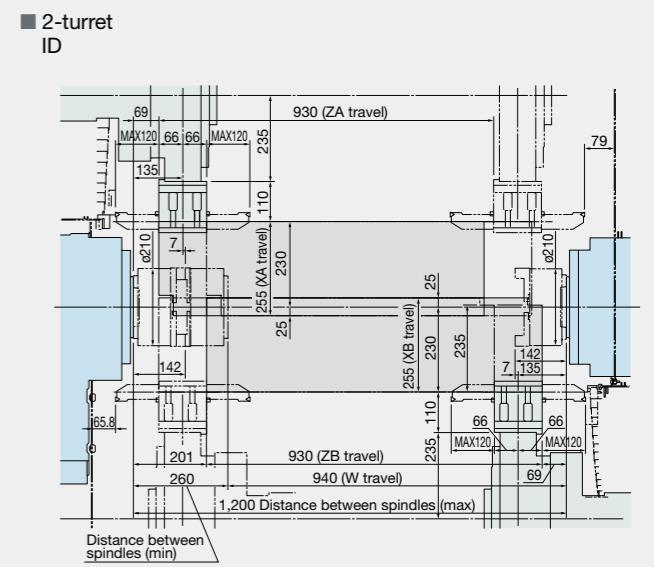
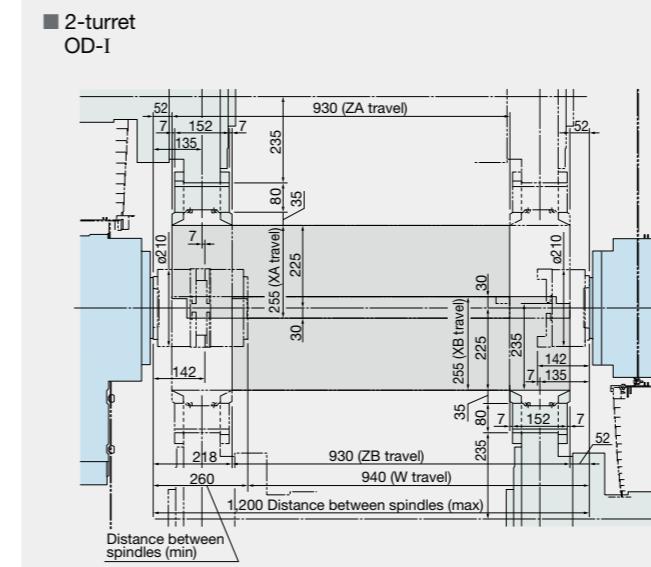
■ 3-turret
OD-I



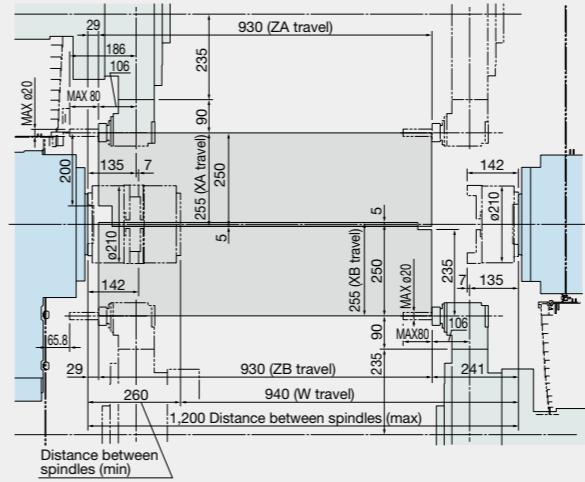
■ 3-turret
Radial drill/mill unit



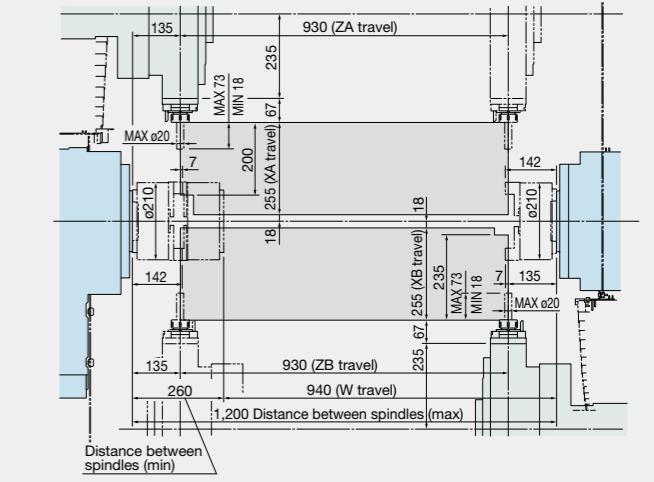
LT3000 EX Working Ranges



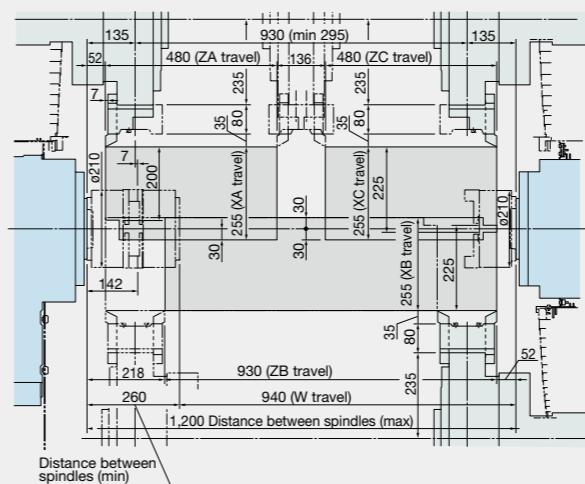
■ 2-turret
Axial drill/mill unit



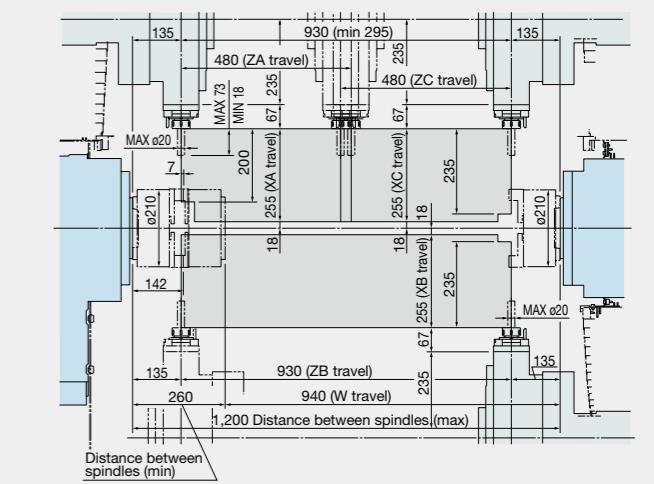
■ 2-turret
Radial drill/mill unit



■ 3-turret
OD-I



■ 3-turret
Radial drill/mill unit



The Next-Generation Intelligent CNC

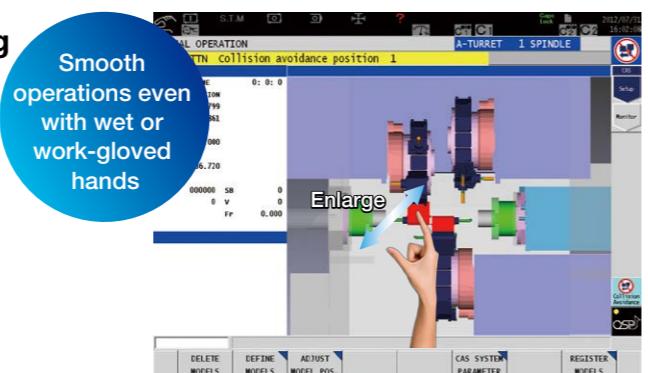
OSP suite **OSP-P300LA**

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 smart phone

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



Increased productivity through visualization of motor power reserve
Spindle Output Monitor

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.



Easy programing without keying in code
Scheduled Program Editor

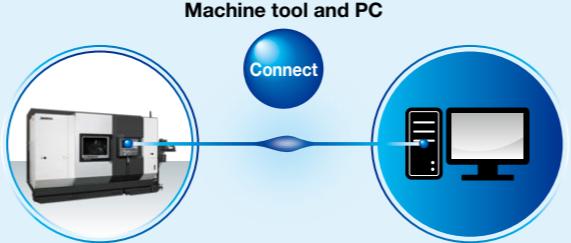


Monitoring utilization status even
when away from the machine
E-mail Notification

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

Connect, Visualize, Improve

Okuma's Connect Plan is a system that provides analytics for improved utilization by connecting machine tools and visual control of factory operation results and machining records. Simply connect the OSP and a PC and install 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.



Standard Specifications

Basic Specs	Control	Turning: X, Z simultaneous 2-axis + 2-axis, Multitasking: X, Z, C simultaneous 3-axis + 3-axis					
	Position feedback	OSP full range absolute position feedback (zero point return not required)					
	Min / Max command	± 99999.999 mm 8-digit decimal, command units: 0.001 mm, 0.01 mm, 1 mm					
	Feed	Override: 0 to 200%					
	Spindle control	Direct spindle speed commands (S4) override 50 to 200%, Constant cutting speed, optimum turning speed designate					
	Tool compensation	Tool selection: 32 sets per turret, tool offset: 32 sets per turret					
	Display	15-inch color display operational panel, Multi touch panel					
	Self-diagnostics	Automatic diagnostics and display of program, operation, machine, and NC system problems					
Operations	Program capacity	Program storage: 4 GB, operation buffer: 2 MB					
	"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.					
	Easy Operation	"Single-mode operation" to complete a series of operations, Advanced operation panel/graphics facilitate smooth machine control					
	Programing	Program management, edit, scheduled programs, fixed cycles, special fixed cycles, tool nose R compensation, M-spindle synchronized tapping, fixed drilling cycles, arithmetic functions, logic statements, trig functions, variables, branch statements, auto programming (LAP4), programming help					
	Machine operations	MDI, manual (rapid traverse, pulse handle), load meter, operations help, alarm help, sequence return, manual interrupt & auto return, data I/O, chuck open/close during spindle rotation, spindle orientation (electric), variable lead threading, easy setting of cycle time reduction					
	MacMan	Machining Management: machining results, machine utilization, fault data compile & report, external output					
	Corn / Net	USB (2 ports), Ethernet					
High speed/accuracy	Hi-G control, TAS-C (Thermal Active Stabilizer-Construction)						
	Energy-saving function	ECO suite					
ECO suite	ECO Idling Stop, ECO Power Monitor						

Standard Specifications

Item	Kit specs *1		NML	3D	OTM	
	E	D	E	D	E	D
New Operations						
Advanced One-Touch IGF-L (Real 3-D Simulation included)					<input checked="" type="radio"/>	<input checked="" type="radio"/>
Programming						
Circular threading					<input checked="" type="radio"/>	<input checked="" type="radio"/>
Program notes			<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
User task 2 I/O variables, 8 each						
Work coordinate system select	10 sets					
	50 sets					
	100 sets					
Tool compensation (Std: 32 sets per turret)	64 sets					
	96 sets					
	200 sets					
	999 sets					
Common variables 1,000 pcs (Std: 200 pcs)						
Thread matching						
Threading slide hold (G34, G35)						
Variable Spindle Speed Threading (VSST)						
Inverse time feed						
Spindle synchronized tapping (rigid tapping)						
Milling machine specs	Coordinate convert	<input checked="" type="radio"/>				
	Profile generate	<input checked="" type="radio"/>				
	Flat turning					
	Coordinate calculate (w/NYCL commands) *2					
	Shift, rotate, copy coordinates *2					
	Helical cutting (within 360 degrees)					
	Profile helical cutting					
Monitoring						
Real 3-D simulation					<input checked="" type="radio"/>	<input checked="" type="radio"/>
Cycle time over check		<input checked="" type="radio"/>				
Load monitor (spindle, feed axis)			<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Load monitor no-load detection (load monitor ordered)						
Machine Status Logger						
AI Machine Diagnosis Function						
AI Feed Axis Diagnosis						
Tool life management		<input checked="" type="radio"/>				
Tool life warning						
Operation end buzzer						
Work counters	Count only					
	Cycle stop					
	Start disabled					
Hour meters	Power ON					
	Spindle rotation					
	NC operating					
NC operation monitor (counter, totaling)		<input checked="" type="radio"/>				
Status indicator (triple lamp) Type C [Type A, Type B]		<input checked="" type="radio"/>				
Measuring						
In-process work gauging						
Z-axis automatic zero offset by touch sensor						
C-axis automatic zero offset by touch sensor						
Y-axis gauging						
Gauge data output	File output					
Post-process work gauging interface	Set levels (5-level, 7-level)					
	BCD					
	RS-232C (dedicated channel)					
Touch Setter [M, A]						
	Included in machine specs					
Other Functions						
Collision Avoidance System (CAS)						
One-Touch Spreadsheet						
Machining Navi L-g						
Machining Navi T-g (Threading)						
Harmonic Spindle Speed Control (HSSC)		<input checked="" type="radio"/>				
Spindle dead-slow cutting						
Spindle speed setting						
Y-axis alignment compensation						
Manual cutting feed						
Short circuit breaker						
External M signals [2 sets, 4 sets, 8 sets, 16 sets]						
Edit interlock						
OSP-VPS (virus protection system)						
19-in.-display operation panel w/ adjustable-tilt key board						

*1. NML: Normal, 3D: Real 3D simulation, OTM: One-Touch M, E: Economy, D: Deluxe

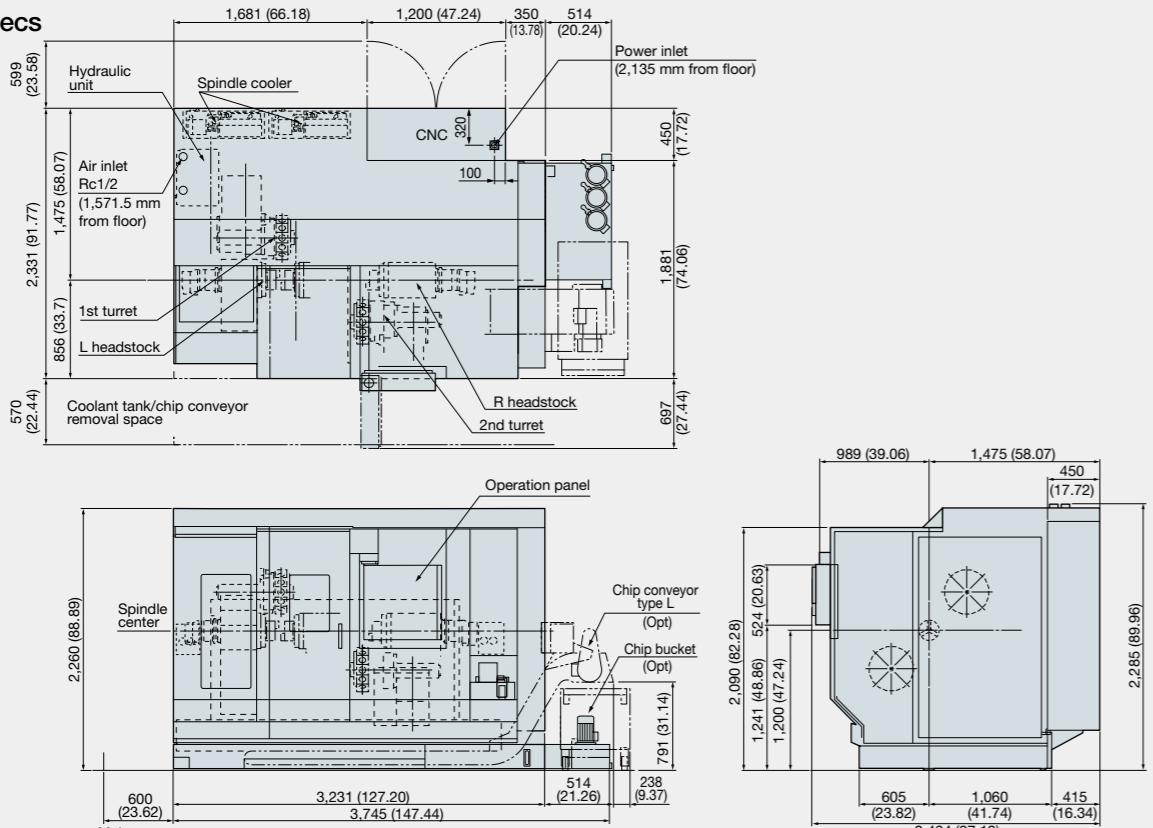
*2. Available only when MY specs selected.

*3. Engineering discussions required.

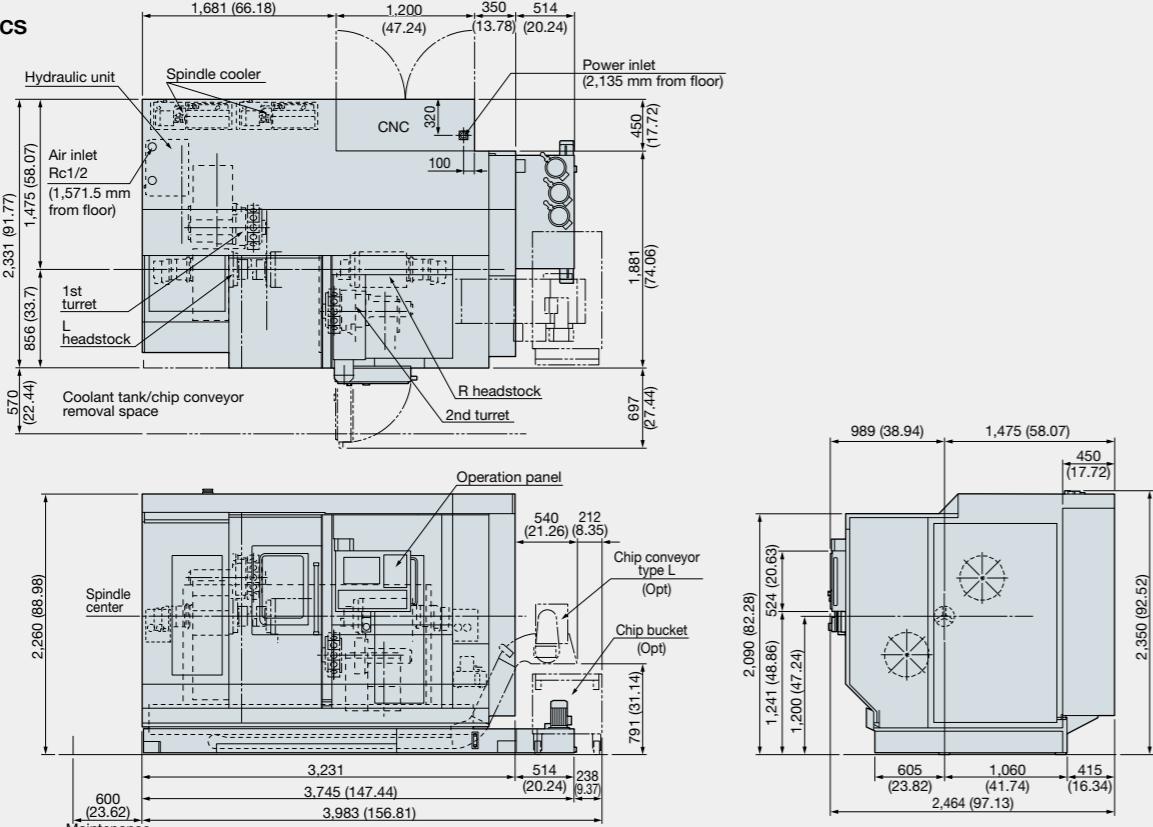
■ Dimensional/Installation Drawings

LT2000 EX

M specs



MY specs

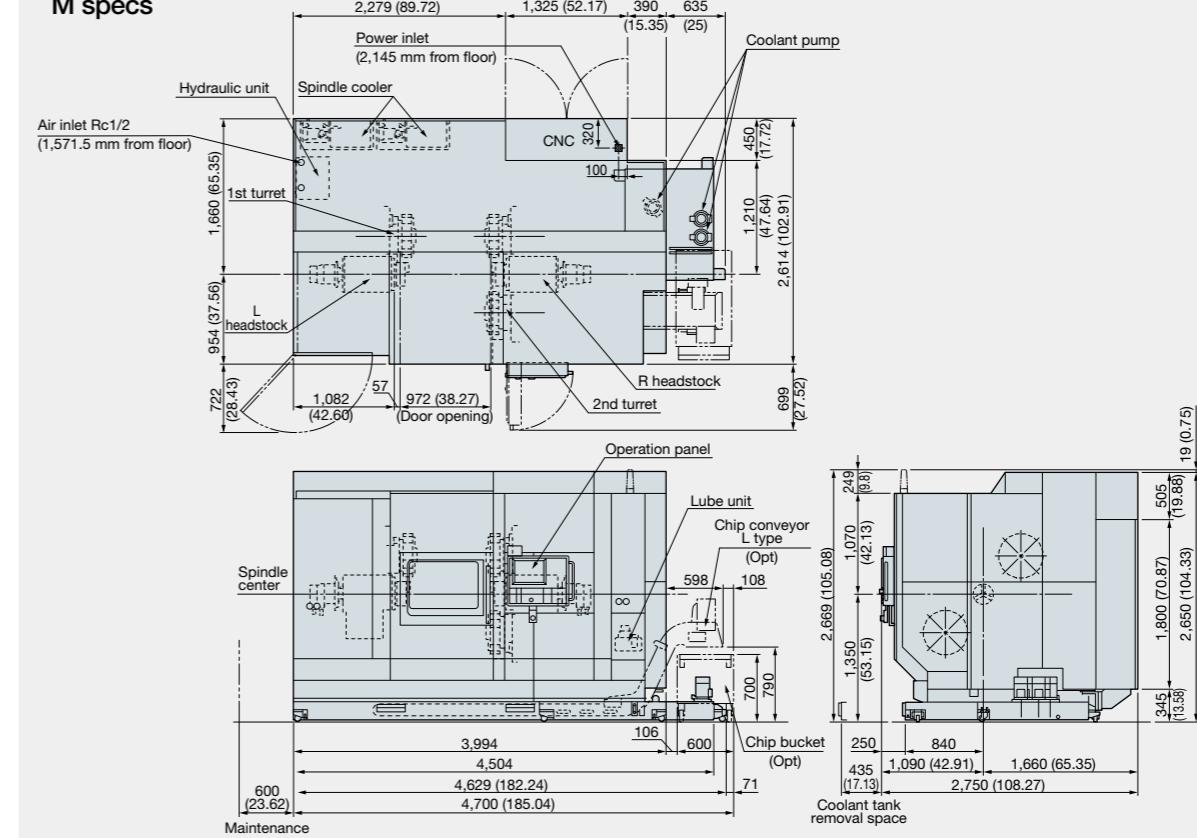


Unit: mm (in)

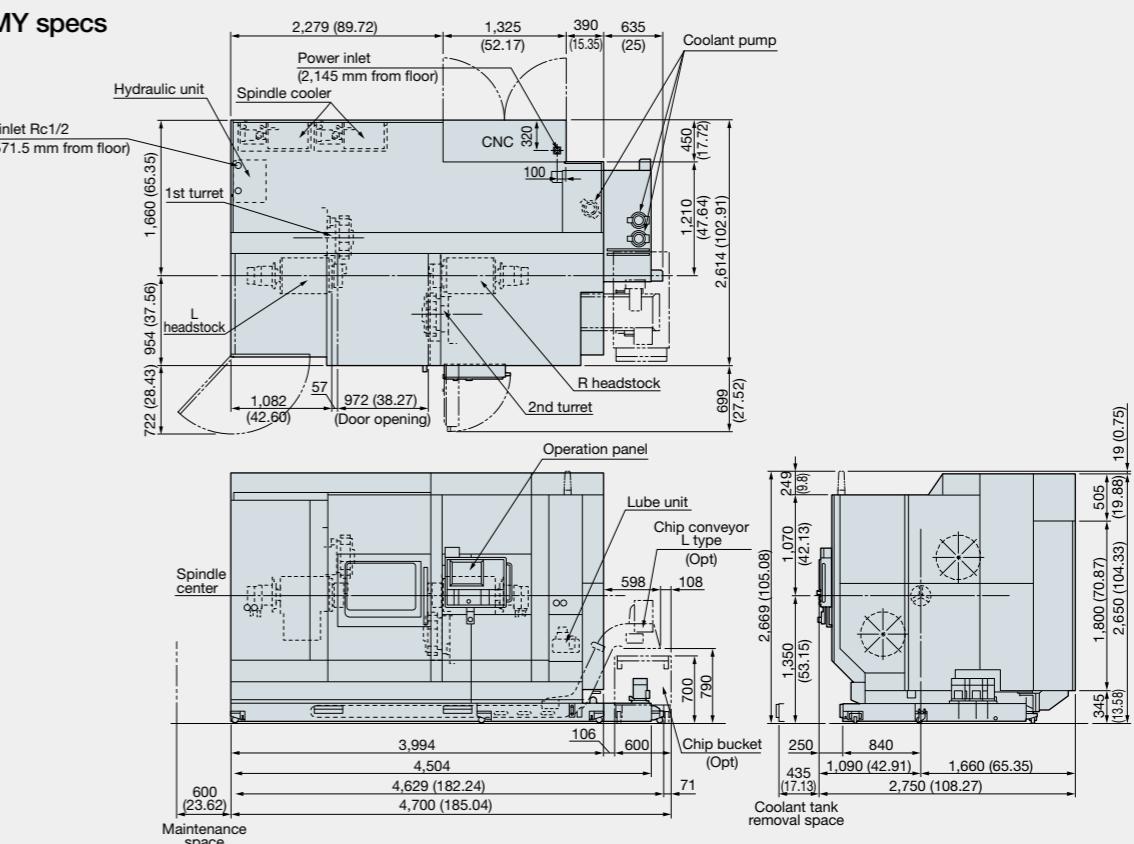
■ Dimensional/Installation Drawings

LT3000 EX

M spec



MY specs



Unit: mm (in)

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.TWIN STAR LT EX series-E-(3a)-400 (Apr 2020)



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