

MULTUS B Series

MULTUS B550

MULTUS B750

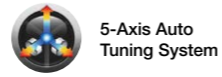
Multitasking Machines



MULTUS B Series

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MULTUS B550 / MULTUS B750



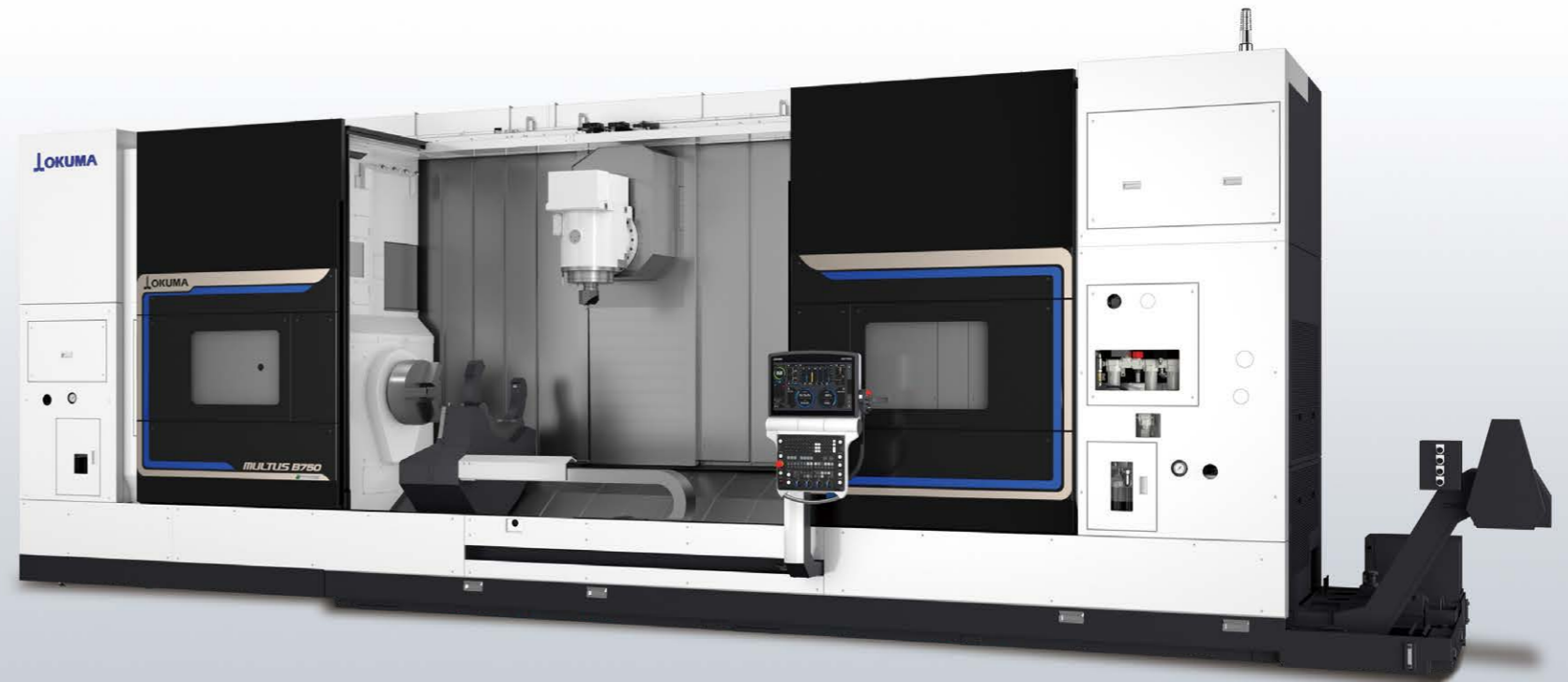
See the future of intelligent machining— with multitasking and Okuma Intelligent Technologies

Process-intensive machining that exceeds expectations
with excellent structural design

- All processes for large-diameter, long workpieces done on a single machine with a wide array of applications
- Higher productivity than a large lathe and machining center
- High accuracy machining realized despite the large size of the machine



MULTUS B550

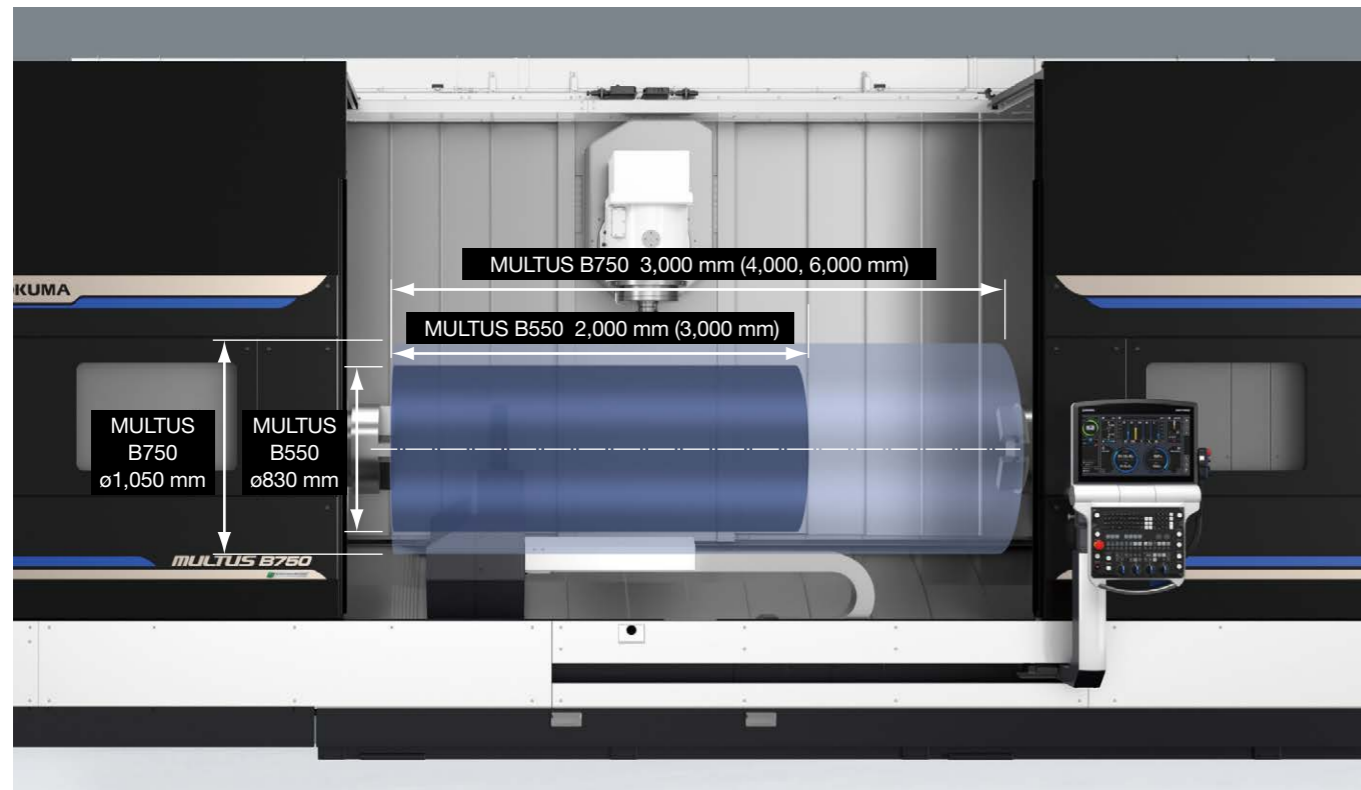


MULTUS B750

Photographs and images used in this brochure may include optional equipment.

Full process-intensive machining of large-diameter, long workpieces

A large working range that can handle large or long workpieces up to $\phi 1,050$ mm and 6,000 mm (MULTUS B750) in length is ensured with an orthogonal 3-axis machine configuration. Rigidity essential for the machining of large parts is achieved with use of diagonal rib structured columns and high-accuracy, high-rigidity spindles. Turning capacity is equivalent to that of a large NC lathe, while milling capacity corresponds to that of a horizontal machining center.



Largest working range in class

Even large, heavy parts can be machined without difficulty thanks to a wide working range produced by large Y-axis travel and strong support capacity.

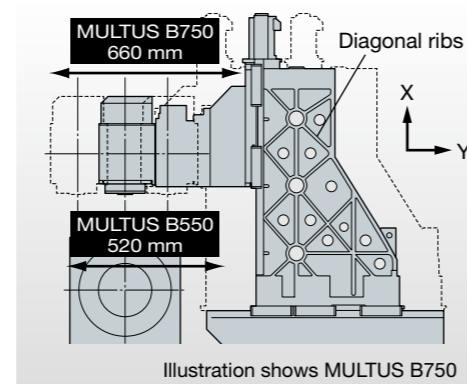
Maximum support mass

	MULTUS B550	MULTUS B750
Double-centered support mass	1,500 kg	8,000 kg
Double-sided support mass	1,600 kg	5,000 kg

Note: The support mass values are optional specs.
 MULTUS B550: BB spindle, opposing BB spindles
 MULTUS B750: DBC 6000 + SBB spindle + high thrust tailstock + auto tow-along tailstock, opposing BB spindles
 [BB: Big-Bore, SBB: Super Big-Bore]

Performs full-fledged milling

With an orthogonal 3-axis structure, full-fledged milling that exceeds the capacity of multitasking machines is achieved in milling difficult right angles or drilling with high pitch accuracy.



X-axis rigidity maintained during Y-axis movement

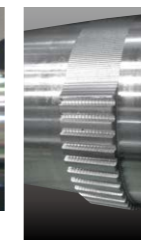
A column feed system is used for Y-axis travel. With a rigid and highly stable X-axis structure, the ram extension remains constant at any Y-axis position.

A single machine performs all the machining operations for a wide variety of applications

Fully integrated operations for long parts—from inner diameter, outer diameter, and gear machining to high-speed contour shaping

Flute milling of gears with hob cutter

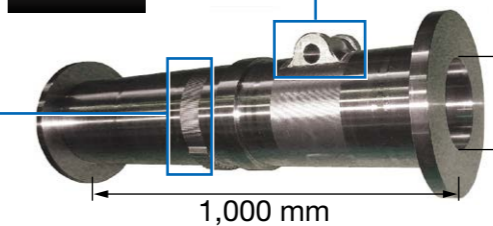
Gear section machining by mounting a hob cutter on the milling tool spindle and synchronizing (hobbing function: option) with the C-axis at a fixed ratio. If the Gear Machining Package (option) is used, programming can be done simply by inputting the tool and gear specifications and cutting conditions.



Gear section

High-speed contour shape machining

With Hyper-Surface II (option), high speed machining of curved surfaces is achieved in accordance with machine characteristics, based on fine control of tool travel position, speed, acceleration, and changes in acceleration to draw out the maximum performance of the machine.



- Product name: Landing gear model
- Cycle time: 9 h 40 min

ID super deep hole machining

Long boring bar (option) can be used on either left or right spindle. Handles even deep hole machining of 1 m without interference.



Machining with left spindle



Machining with right spindle

Full use of opposing spindle and long boring bar for process-intensive boring

High-accuracy machining with steadyrest

The use of steadyrests suppresses workpiece bending from its own weight and workpiece distortion from cutting force, thus enabling high-accuracy machining.

- Product name: Valve body (hydraulic part)
- Material: S45C
- Cycle time: 1 h 40 min
- Size: $\phi 270 \times 1,000$ mm
- Machining portion: ID dome section, ID finishing dome section, window section milling



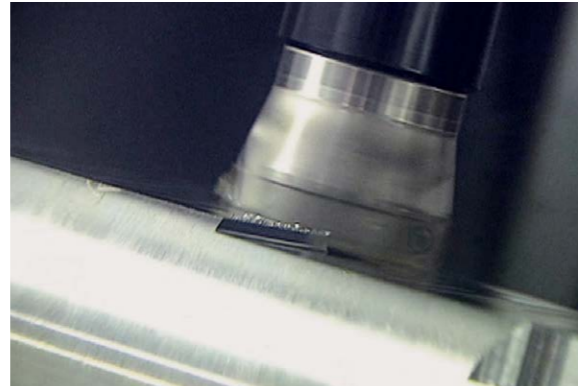
Cycle times shortened with powerful machining

Equipped with high-power, high-torque turning spindle and milling tool spindle, achieves powerful machining equivalent to a large lathe or machining center. Even large workpieces with much removal stock can be machined with ease. Also handles various types of machining with its abundant product variants, including Big-Bore spindle and M-spindle high speed specifications.






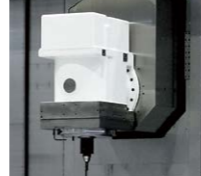
Turning spindle

Spindle with highly rigid structure combining roller bearings and angular bearings. All types of machining processes can be done, from heavy-duty cutting to processes that demand high quality surface roughness.



Milling tool spindle

Milling tools with integral motor/spindle offer powerful cutting with high torque output (MULTUS B550: 321 N-m, MULTUS B750: 505 N-m). Ensures optimum rigidity in turning and milling with a roller bearing and angular bearing construction.

Turning		Milling																																												
MULTUS B550	MULTUS B750	MULTUS B550	MULTUS B750																																											
Spindle: ø160 spindle: integral motor	Spindle: ø220 spindle: 4-spd gear	Milling tool spindle	Milling tool spindle																																											
																																														
Spindle speed: 3,000 min ⁻¹	Spindle speed: 2,000 min ⁻¹	M-spindle speed: 10,000 min ⁻¹	M-spindle speed: 10,000 min ⁻¹																																											
Power: 37/30 kW (30 min/cont)	Power: 37/30 kW (30 min/cont)	Power: 37/30/22 kW (3 min/30 min/cont)	Power: 37/30/22 kW (3 min/30 min/cont)																																											
•Heavy cutting: 6.5 mm ²	•Heavy cutting: 6.5 mm ²	•Chip volume: 1,000 cm ³ /min	•Chip volume: 1,000 cm ³ /min																																											
<ul style="list-style-type: none"> OD (Material: S45C) <table border="1"> <tr><td>Cutting</td><td>150 m/min</td><td>150 m/min</td></tr> <tr><td>Depth</td><td>10 mm</td><td>10 mm</td></tr> <tr><td>Feedrate</td><td>0.65 mm/rev</td><td>0.65 mm/rev</td></tr> </table> Insert drill (Material: S45C) <table border="1"> <tr><td>Tool</td><td>ø63 carbide drill</td><td>ø63 carbide drill</td></tr> <tr><td>Cutting</td><td>180 m/min</td><td>180 m/min</td></tr> <tr><td>Feedrate</td><td>0.25 mm/rev</td><td>0.25 mm/rev</td></tr> </table> 	Cutting	150 m/min	150 m/min	Depth	10 mm	10 mm	Feedrate	0.65 mm/rev	0.65 mm/rev	Tool	ø63 carbide drill	ø63 carbide drill	Cutting	180 m/min	180 m/min	Feedrate	0.25 mm/rev	0.25 mm/rev	<ul style="list-style-type: none"> Face mill (Material: S45C) <table border="1"> <tr><td>Tool</td><td>ø80 face mill, 8 blades</td><td>ø100 face mill, 10 blades</td></tr> <tr><td>Cutting</td><td>300 m/min</td><td>300 m/min</td></tr> <tr><td>Depth</td><td>5.5 × 56 mm</td><td>5 × 70 mm</td></tr> <tr><td>Feedrate</td><td>2.72 mm/rev</td><td>3.0 mm/rev</td></tr> <tr><td>Chips</td><td>1,000 cm³/min</td><td>1,000 cm³/min</td></tr> </table> Insert drill (Material: S45C) <table border="1"> <tr><td>Tool</td><td>ø63 carbide drill</td><td>ø63 carbide drill</td></tr> <tr><td>Cutting</td><td>180 m/min</td><td>180 m/min</td></tr> <tr><td>Feedrate</td><td>0.25 mm/rev</td><td>0.25 mm/rev</td></tr> </table> TAP (Material: S45C) <table border="1"> <tr><td></td><td>M36 P4</td><td>M42 P4.5</td></tr> </table> 	Tool	ø80 face mill, 8 blades	ø100 face mill, 10 blades	Cutting	300 m/min	300 m/min	Depth	5.5 × 56 mm	5 × 70 mm	Feedrate	2.72 mm/rev	3.0 mm/rev	Chips	1,000 cm ³ /min	1,000 cm ³ /min	Tool	ø63 carbide drill	ø63 carbide drill	Cutting	180 m/min	180 m/min	Feedrate	0.25 mm/rev	0.25 mm/rev		M36 P4	M42 P4.5
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Highly rigid structure shows its power in machining difficult-to-cut materials

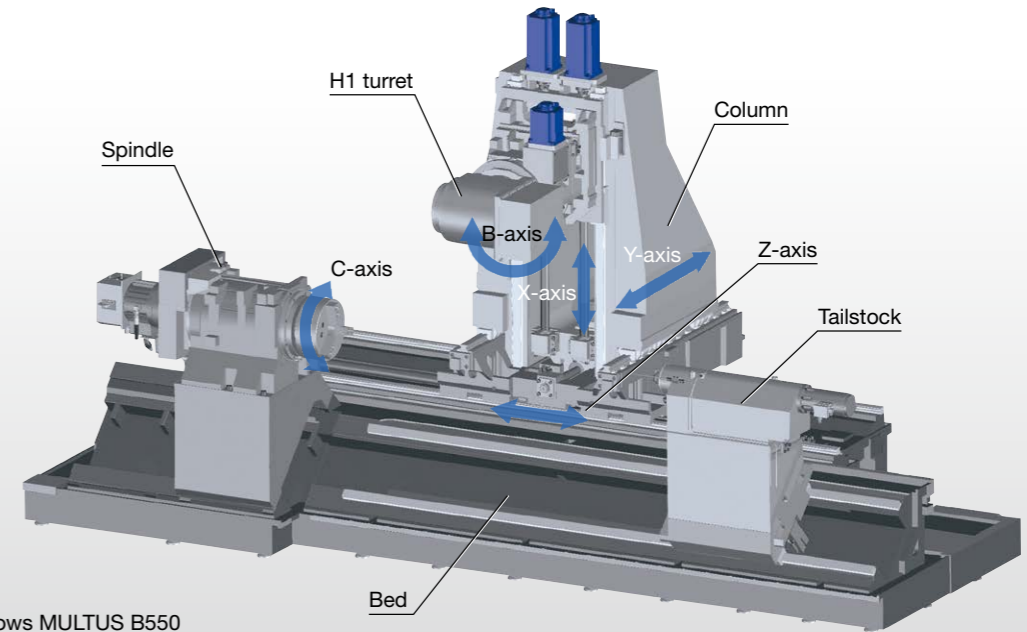


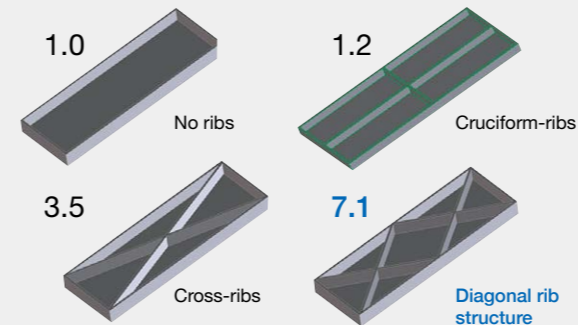
Illustration shows MULTUS B550

Maintains high accuracy over the long term

Diagonal rib structure used on bed and column. This rigidity is 7 times greater than without ribs. It strongly resists bending and torsion, remaining rigid even with large loads from heavy-duty cutting so that high accuracy is maintained over the long term.

Diagonal rib structure casting

• Rigidity comparison sample (rigidity per weight)



High follow-up accuracy with no positioning error

Large roller guides used on X-, Y-, and Z-axis for superior rigidity, wear resistance, and vibration damping, smooth movement, and accurate positioning. Double ball screws on X-axis eliminate positioning errors from movement direction and provide superb follow capability. In addition, a 3-way guide is used on the MULTUS B750, and straightness is maintained long term with long travel.

Highly rigid tailstock

The tailstock quill has a large-diameter, highly rigid structure. The workpiece is supported with high thrust for stable support of even massive workpieces.



Photo shows MULTUS B750

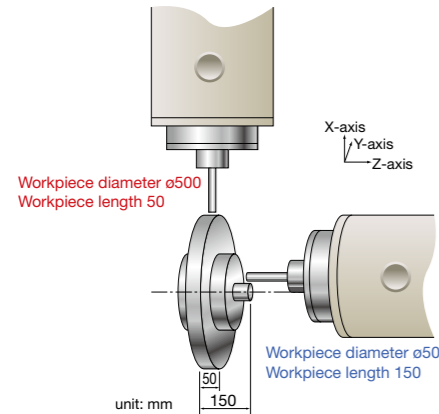
	MULTUS B550	MULTUS B750
Built-in quill	MT No. 5	MT No. 6
Quill travel	250 mm	350 mm
Quill diameter	ø130 mm	ø180 mm
Movement system	Auto tow-along	Auto tow-along
Thrust	15 kN	26 kN

Large machine with extraordinarily high accuracy

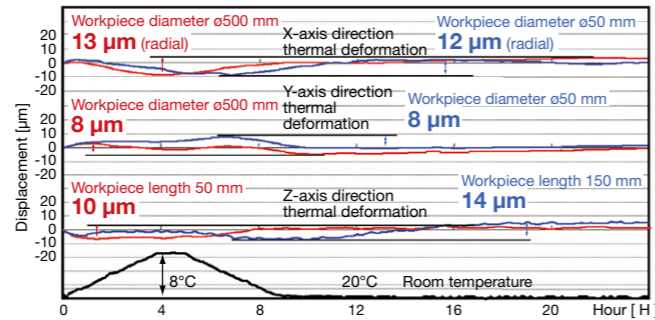


Thermo-Friendly Concept Thermal Deformation—Accurately Controlled

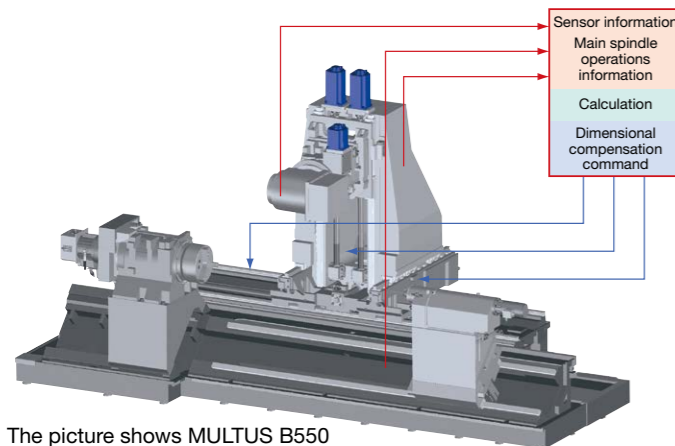
With thermal deformation control matched to the controlled axis position and machining point, dimensional changes from thermal deformation can be minimized regardless of workpiece size. Accurate control is also provided in various usage conditions, such as coolant use or downtime during lunch breaks.



Thermal deformation over time $\leq 14 \mu\text{m}$ (actual data with MULTUS B750)



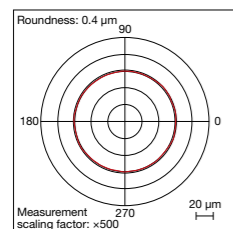
- Running conditions: Spindle rotation 500 mm^{-1} 24 h
- Room temperature change: Rise of 8°C from 20°C over 4 hours. After 1 hour, decline of 8°C over 4 hours. Coolant added



- **TAS-S [Thermo Active Stabilizer – Milling tool Spindle]**
X-Y-Z axes control thermal deformation of the milling tool spindle
- **TAS-C [Thermo Active Stabilizer – Construction]**
Overall control of thermal deformation on headstock, bed, column, and turret

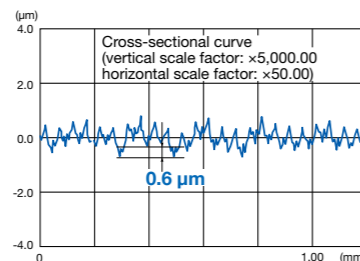
The picture shows MULTUS B550

Roundness $0.4 \mu\text{m}$ MULTUS B550 (actual turning data)



- Material : BsB
- Cutting conditions : Spindle speed $2,500 \text{ min}^{-1}$
Feed rate 0.05 mm/rev

Surface roughness $0.6 \mu\text{m}$ (uniformity at tool edge) MULTUS B550 (actual data)



- Material : BsB
- Cutting conditions : Spindle speed $2,000 \text{ min}^{-1}$
Feed rate 0.05 mm/rev

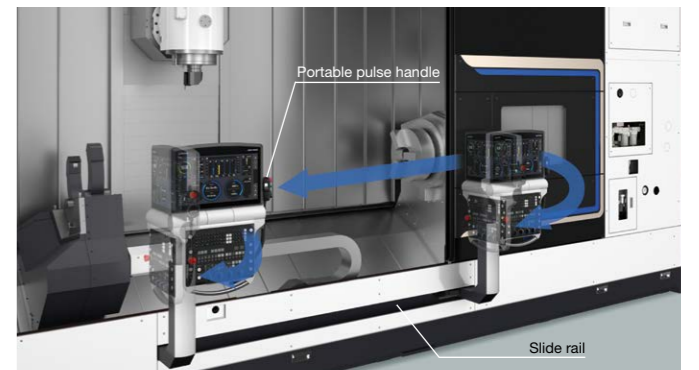
B-axis positioning accuracy $\pm 0.0025^\circ$ MULTUS B750 (actual data)

B-axis repeatability $\pm 0.0005^\circ$ MULTUS B750 (actual data)

Machine construction with superior operability and maintainability

Mobile operation panel with outstanding ease-of-use

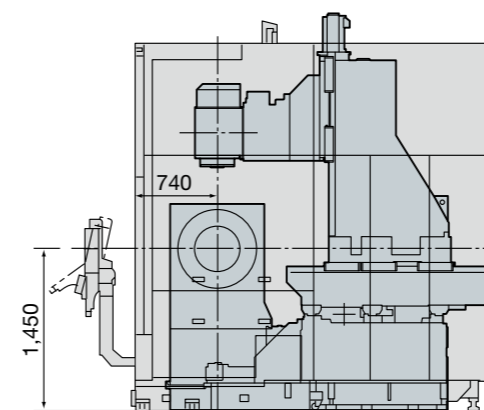
Swivel and slide type operation panel and portable pulse handle are used. The operation panel can be moved freely on a slide rail that spans the entire front of the machine. The use of a portable pulse handle enables smooth movement while checking the tool edge in any location.



Ease of use at operator's line of sight

- **Bed and spindle layout for easy accessibility to spindle**
Easy workpiece mounting and dismantling
Reduced operator burden, including chip cleaning

- **Vertical X-axis with superior tool edge visibility**
Tool edge comes to eye line height for ease of visibility and ease of operation.



(with MULTUS B750 and distance between centers of 3000)

Front maintenance

To make regular maintenance easy to perform, the major oil supply locations are concentrated on the front of the machine. Maintenance is also possible by pulling the chip conveyor out the front.



Note: May not be available for certain specifications.

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

Highly accurate, productive and eco-friendly



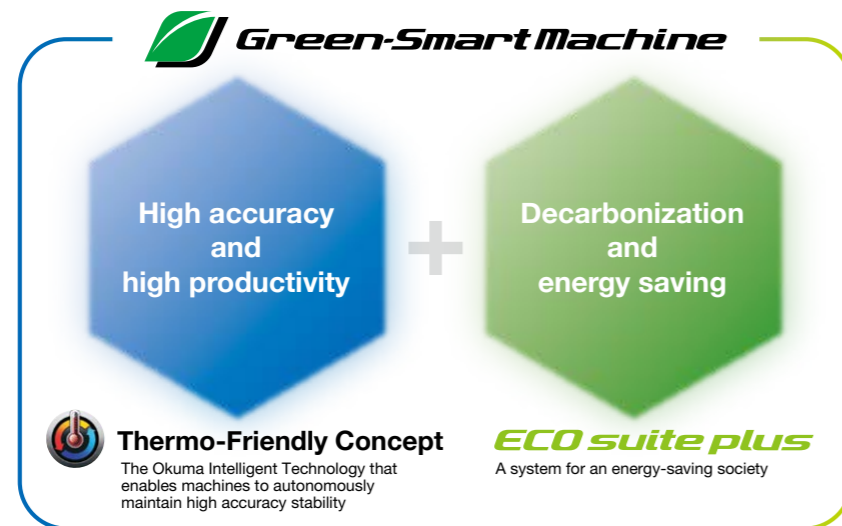
Okuma has worked to reduce energy consumption in order to achieve carbon neutrality at the three factories in Japan which are our main production bases.

We have realized high productivity through automation and process-intensive machining, in addition to high-accuracy machining, and we then introduced the use of green energy to transform the three domestic factories into carbon-neutral factories.

“Green-Smart Machines” is our definition of Okuma’s intelligent machine tools, which autonomously achieve stable dimensional accuracy and reduced energy consumption, to support environmentally friendly production. Our policy is to deploy “Green-Smart Machines” fully, to help achieve a carbon-free society.

Starting with products manufactured at those carbon-neutral factories and distributing them globally, we will partner with our customers to address the social challenges faced by the manufacturing industry.

Green-Smart Machines are **environmentally friendly** products that autonomously achieve stable dimensional accuracies and reduced energy consumption.



Thermo-Friendly Concept

The Okuma Intelligent Technology that enables machines to autonomously maintain high accuracy stability

The unique concept of accepting temperature changes achieves consistent high accuracy without special coolers or excessive air conditioning.

Reduction of warm-ups and dimensional compensation

Reduce the time needed for daily warm-ups and dimensional compensation to adjust to ambient temperature changes.

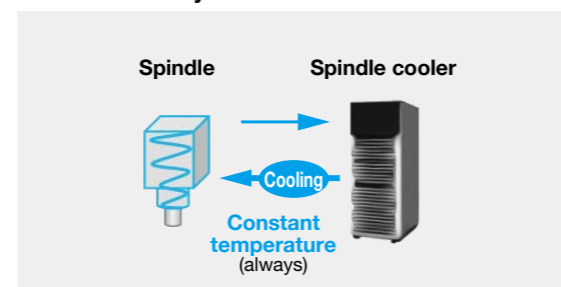
Reduction of power used for air conditioning

Maintain high stability of dimensional accuracy even if the air conditioning temperature range is expanded.

Reduction of machine body coolers

Achieve outstanding dimensional accuracy without any special machine body cooling being required to maintain accuracy.

The Okuma way to cool



By always setting a constant coolant supply temperature, the cooler power consumption is reduced.

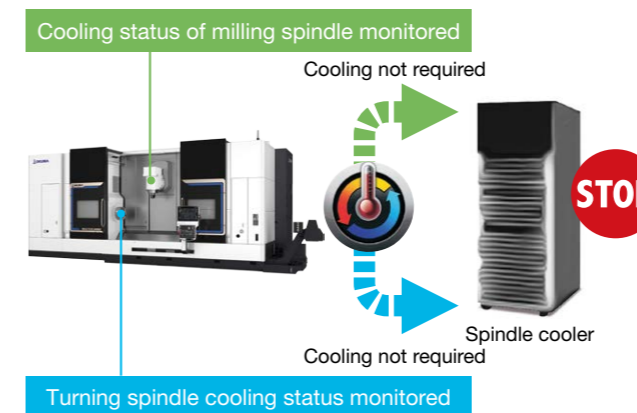
ECO suite plus A system for an energy-saving society

ECO Idling Stop

Accuracy ensured, cooler off

All auxiliary equipment when not needed (most of factory power consumption), can be turned off. The cooling system necessary for maintaining accuracy uses Thermo-Friendly Concept technology, and the machine itself decides when to cool and stop idling while maintaining high accuracy.

With ECO suite plus, the machine automatically detects the operating status, eliminating the need to push buttons while reducing carbon dioxide emission as much as possible without operator awareness.



ECO Operation

Peripheral equipment runs only when needed

By using only the required peripherals (chip conveyor, mist collector), energy-saving operations that also maintain high productivity are possible. ECO suite plus enables more detailed tuning of “operation patterns” to thoroughly reduce carbon dioxide emission.

ECO PARAMETER	ECO IDLE STOP (1st)	ECO OPERATION
ECO IDLE STOP ELAPSED TIME	000:00:00	REMAINING TIME UNTIL ECO IDLE STOP READY 12:48
Chip conveyor interval control	OFF	
Chip conveyor interval:active time	100	[min]
Chip conveyor interval:suspended time	200	[min]

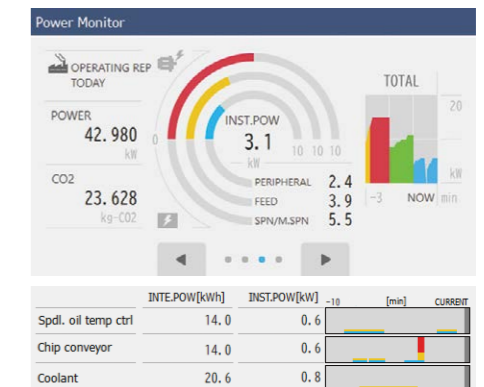
ECO Power Monitor

Confirming energy savings and analyzing reductions

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

[On-the-spot checks of operating status, power consumption, and carbon dioxide emissions]

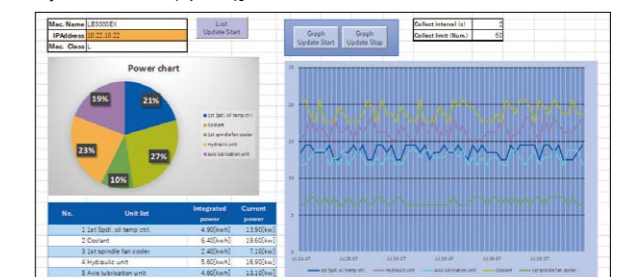
Three phases of visualization (view, record, and analyze) and energy-saving functions, which make it possible to analyze even the operating status of each device, support the decarbonization cycle.



[Analyze carbon dioxide emissions and improve machine tool operation]

With ECO suite plus, detailed data analysis of carbon dioxide emissions for each device is possible on a PC.

[Example of auxiliary power display using One-Touch Spreadsheet (option)]



Note: The spreadsheet file for data analysis needs to be prepared by the customer.

Reducing waste liquid by suppressing coolant deterioration

Sludgeless Tank (option)

Cleaning of the coolant tank reduced to also reduce environmental burdens

It is important to remove impurities (sludge) contained in the coolant for the stable operation of the machine, and coolant tank cleaning is indispensable. The Sludgeless Tank circulates coolant at a constant speed in the tank to effectively collect sludge even during non-machining while reducing defects caused by the sludge contained in the coolant, such as scratches on machined surfaces and troubles of cutters, as well. Sludge accumulation in the tank is suppressed, which also drastically reduces the frequency of troublesome tank cleaning and enables stable operation over long hours. In addition, the frequency of coolant replacement can be greatly reduced, which also reduces the environmental impact of coolant disposal. For coolant supplied to the upper turret, a bag filter collects even finer sludge to improve the quality of machined surfaces.

Note: If the Sludgeless Tank is chosen, it is necessary to select a hinge + scraper chip conveyor with a drum filter.

Sludge removal rate

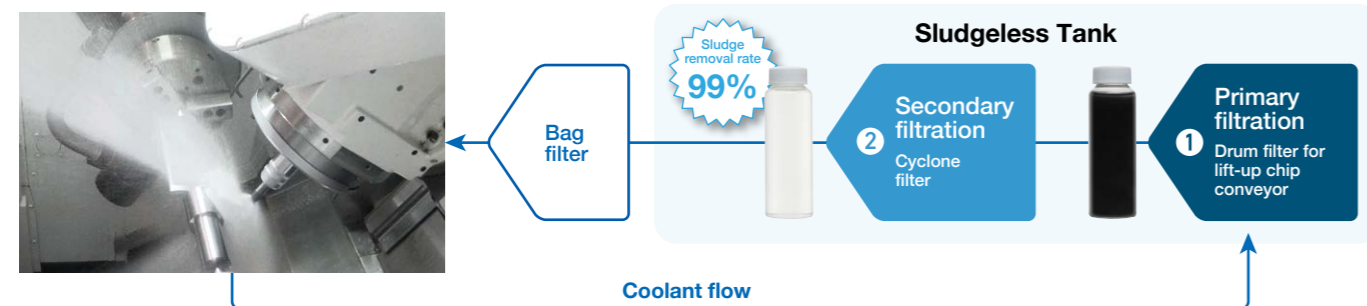
99% (when the material is casting and aluminum)

Note: · After secondary filtration (cyclone filter) permeation
· Okuma evaluated removal rate

No coolant tank cleaning required for 3 years (Okuma equipment actual data)

No coolant replacement required for 3 years (Okuma equipment actual data)

Clean coolant flows to the milling spindle



Maximizing machine tool performance



Cutting condition search

Machining Navi (option)

With optimal cutting conditions: longer tool life, shorter cycle time

Machining Navi, with clear visuals of complex cutting conditions, is a breakthrough tool that enables the machine operator to navigate the machine and tool capabilities to their best performance levels.



For turning

Machining Navi L-gII (guidance)

Chatter-free applications for lathes

Chatter in a lathe can be suppressed by changing spindle speeds to the ideal amplitude and wave cycle.

Machining Navi T-g (threading)

Threading chatter can be easily controlled by anyone

In the threading cycle, chatter during threading is controlled through appropriate change of the spindle speed in each pass.

For milling

Machining Navi M-gII+

Adjust cutting conditions while monitoring the data (optimum spindle speed/harmonic spindle speed control)

From chatter noise picked up by the microphone, Machining Navi will display the best options for chatter-free spindle speed. The operator can select a recommended speed and immediately confirm the result.

Machining Navi M-i

Simple, auto-mode—leave it to the machine
Finding optimum cutting conditions quickly (intelligently optimized spindle speed control)

Chatter vibration is measured by built-in sensors, and spindle speed is automatically changed to the optimum speed. In addition, advanced graphics of the optimal cutting conditions represent effective alternatives to suppress various chatter characteristics throughout the low to high speed zones.



5-Axis Auto Tuning System (option)

Gauging and compensation of geometric error

On multitasking machines there is “geometric error,” such as spindle runout, that can have huge effects on machining accuracy. The 5-Axis Auto Tuning System measures geometric error with a touch probe and datum sphere, and tunes multitasking machines for better operating accuracy through compensation control using the measurement results. This helps to achieve a higher level of 5-axis machining accuracy.

Anyone can automatically check for geometric error quickly and easily

Manual measurement and adjustment of geometric error is bothersome and time-consuming. The 5-Axis Auto Tuning System conducts automatic tuning to correct geometric error in a short time.

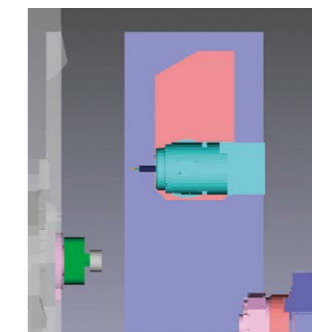


Preventing collisions

Collision Avoidance System

Setup/trial cut time: reduced by 40%

NC controller (OSP) with 3D model data of machine components—workpiece, tool, chuck, fixture, headstock, turret, tailstock—performs real time simulation just ahead of actual machine movements. It checks for interference or collisions and stops the machine movement immediately before collision. Machinists (novice or pro) will benefit from reduced setup and trial cycle times, and the confidence to focus on making parts. Troublesome settings eliminated. With easy tool preps, you can use the preset tool data just as it is.



Virtual machine (advance simulation)



Actual machine

Achieves process-intensive machining beyond the framework of multitasking machines

Turn-Cut (option) Inclined axis turning

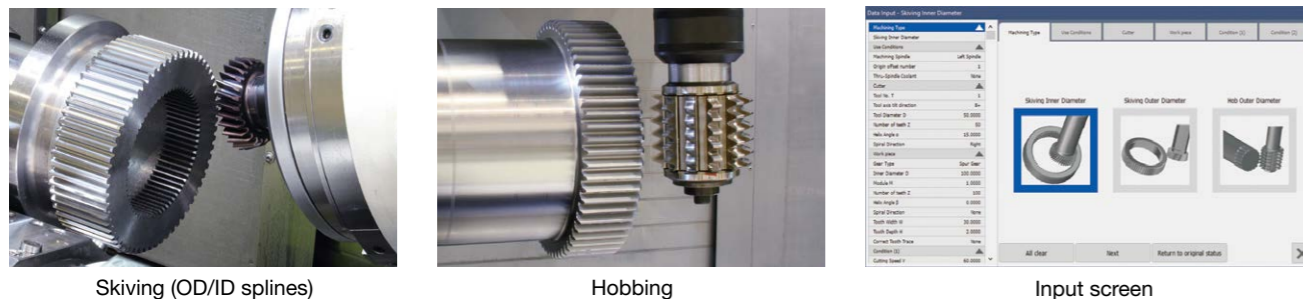
Turn-Cut is an original Okuma technology that enables turning with milling spindle. The circular motion of the feed axis and the spindle indexing angle are simultaneously controlled so that the tool edge is always facing the center of the diameter. Inclined axis turning can be done by inclining the B-axis. Moreover, machining of any diameter can be done with a single tool, enabling inside and outside diameter machining that is larger than the maximum tool diameter. For setting cutting conditions, the machine will recommend the optimum spindle speed if the diameter and roundness of the portion to be machined are specified by additionally selecting the Turn-Cut Guide app (option).



Turning can be done from a inclined axis

Gear Machining Package (option) High accuracy gear cutting with a multitasking machine

Gear cutting that previously required complex programming can now be done with ease. With easy programming, simply input the tool type, gear data, and cutting conditions to achieve highly accurate machining, reducing programming time to about one-tenth that of manual input. Process-intensive machining is achieved, including the gear cutting that used to be done on expensive special-purpose machines.



Skiving (OD/ID splines)

Hobbing

Input screen

NC Gage (option) 3D measuring for multitasking machines

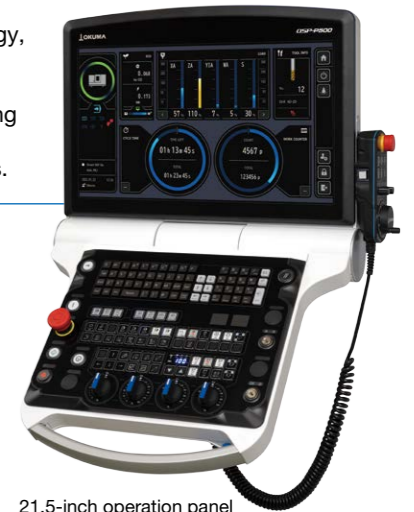
Twenty types of geometrical accuracy, such as hole position and flatness, can be measured on the machine, greatly reducing measurement work. A program to measure the positional relationship between geometric tolerance and workpiece shape is automatically produced by teaching. Data storage of the measurement results is possible.



A next-generation CNC that makes manufacturing DX (digital transformation) a reality **OSP-P500**

Improved productivity and stable production

As Your Single Source for M-E-I-K (Mechanics - Electronics - IT - Knowledge) merging technology, Okuma offers this CNC to build an advanced “digital twin” that faithfully reproduces machine control and machining operations and creates new value. In addition, Okuma offers productivity improvement and stable production with ease of use that allows customers to use their machining know-how, an energy-saving solutions that achieve both high accuracy/productivity and eco-friendly products, with robust security protection against increasing threats of cyber-attacks.

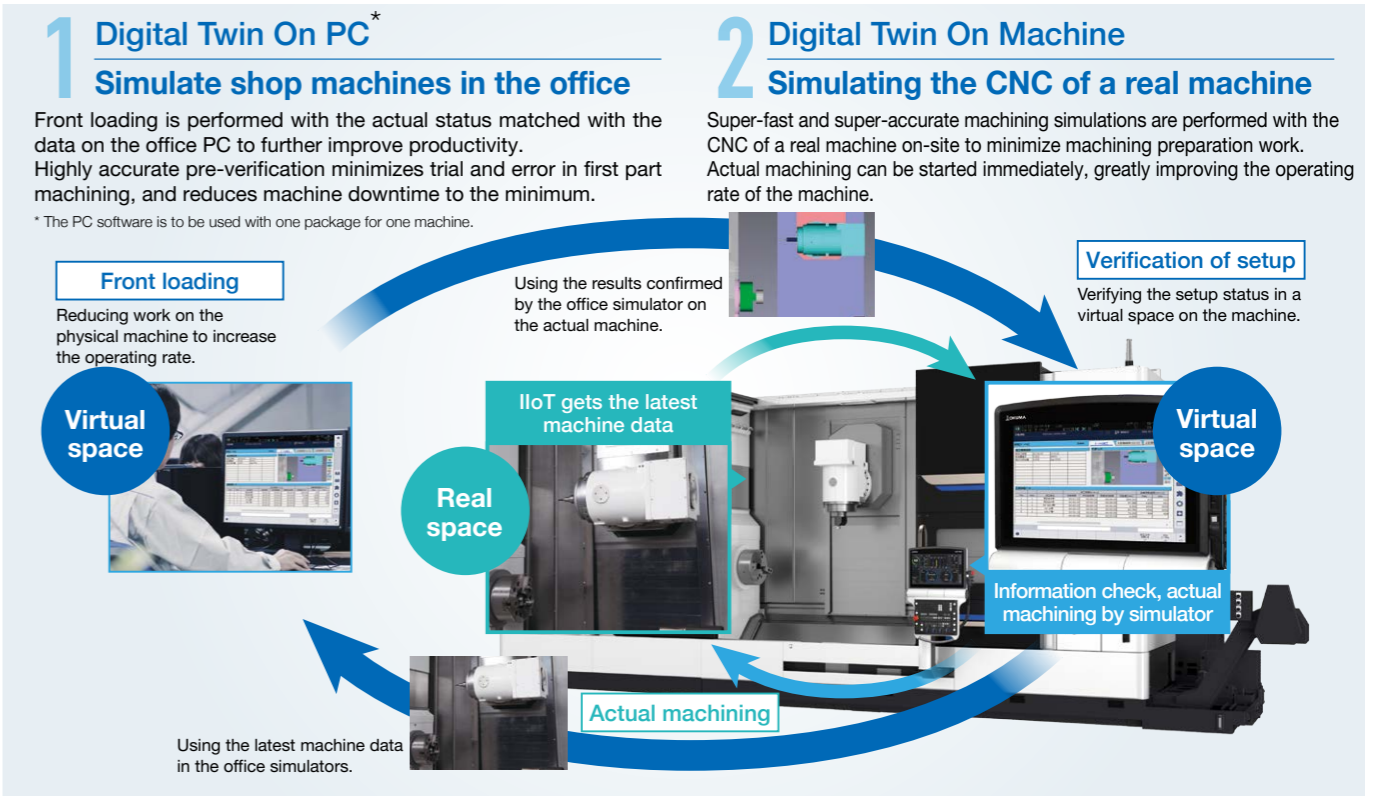


21.5-inch operation panel

Faithful reproduction of machines and processing — Digital support for shop floor work Digital Twin (option)

“Okuma’s **two digital twins**” made possible by an office PC and a next-generation CNC reduce machine downtime and improve machine utilization

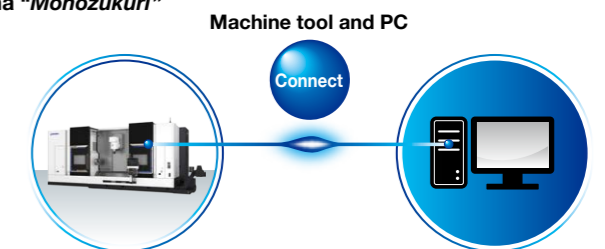
Simulation using the latest machine information can be achieved with an office PC and OSP-P500 installed on the physical machine. This enables preparation for machining in advance in the office environment (front loading). Preparing machining for the next part while continuing machining can reduce the preparation time for the physical machine. When a problem occurs on the shop floor, it can be solved quickly on site without going back to the office.



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.



Machine Specifications

Item	MULTUS B550				MULTUS B750							
	C × 2000	C × 3000	W × 2000	W × 3000	C × 3000	C × 4000	C × 6000	W × 3000	W × 4000	W × 6000		
Capacity	Swing over saddle	ø830 (32.68)				ø1,050 (41.34)						
	Distance between centers (C), Distance between noses (W)	2,348 (92.44)	3,348 (131.81)	2,544 (100.16)	3,544 (139.53)	3,348 (131.81)	4,348 (171.18)	6,348 (249.92)	3,544 (139.53)	4,544 (178.90)	6,544 (257.64)	
	Max machining dia	ø830 (32.68)				ø1,050 (41.34)						
	Max machining length	2,000 (78.74)	3,000 (118.11)	2,000 (78.74)	3,000 (118.11)	3,000 (118.11)	4,000 (157.48)	6,000 (236.22)	3,000 (118.11)	4,000 (157.48)	6,000 (236.22)	
Travel	X-axis	925 (36.42)				1,080 (42.52)						
	Z-axis	2,215 (87.20)	3,215 (126.57)	2,215 (87.20)	3,215 (126.57)	3,215 (126.57)	4,215 (165.94)	6,215 (244.69)	3,215 (126.57)	4,215 (165.94)	6,215 (244.69)	
	Y-axis	520 (±260) (20.47 (±10.24))				660 (±330) (25.98 (±12.99))						
	W-axis	—	—	2,100 (82.68)	3,100 (122.05)	—	—	—	3,100 (122.05)	3,395 (133.66)	4,595 (180.91)	
	C-axis	360 (Min controlled angle 0.001)				360 (Min controlled angle 0.001)						
	B-axis indexing angle	-30 to +210 (Min controlled angle 0.001)				-30 to +210 (Min controlled angle 0.001)						
Spindle	Speed	30 to 3,000 [Big-Bore: 10 to 2,400]				11 to 2,000 [Big-Bore: 14 to 1,500, Super Big-Bore: 10 to 1,000]						
	Speed ranges	2 auto ranges (2-step motor coil switching) [Big-Bore: 4 auto ranges (4 speed gear)]				4 auto ranges (4 speed gear) [Super Big-Bore: 2 auto ranges (2 speed gear)]						
	Nose	JIS A2-11				JIS A2-11 [Big-Bore: JIS A2-15, Super Big-Bore: JIS A2-20]						
	Tapered bore / Bearing dia	ø112/ø160 [Big-Bore: ø130/ø180] (ø4.41/ø6.3 [Big-Bore: ø5.12/ø7.09])				ø142/ø220 [Big-Bore: ø185/ø280, Super Big-Bore: ø275/ø380] (ø5.59/ø8.66 [Big-Bore: ø7.28/ø11.02, Super Big-Bore: ø10.83/ø14.96])						
Opposing spindle	Speed	—	—	30 to 3,000 [Big-Bore: 10 to 2,400]		—	—	11 to 2,000 [Big-Bore: 14 to 1,500]				
	Speed ranges	—	—	2 auto ranges (2-step motor coil switching) [Big-Bore: 4 auto ranges (4-speed gear)]		—	—	4 auto ranges (4-speed gear)				
	Nose	—	—	JIS A2-11		—	—	JIS A2-11 [Big-Bore: JIS A2-15]				
	Tapered bore / Bearing dia	—	—	ø112/ø160 [Big-Bore: ø130/ø180] (ø4.41/ø6.3 [Big-Bore: ø5.12/ø7.09])		—	—	ø142/ø220 [Big-Bore: ø185/ø280] (ø5.59/ø8.66 [Big-Bore: ø7.28/ø11.02])				
Turret (tool spindle)	Type	H1				H1						
	No. of tools	1 for both L and M				1 for both L and M						
	Tool shank dimensions / ID tool shank diameter	□ 25/ø50 (1 × 1, ø2)				□ 32/ø63 (1-1/4 × 1-1/4, ø2-1/2)						
	Speed range	40 to 10,000				40 to 10,000 [40 to 5,000]						
	Milling tool speed range	2 auto ranges (2-step motor coil switching)				2 auto ranges (2-step motor coil switching)						
	Milling tool spindle torque	321/260/191 (3 min/30 min/cont)				505/300/205 (3 min/30 min/cont)						
Feed rate	Rapid traverse X-, Z-, Y-axis	X, Z, Y: 40				X, Z, Y: 40	X, Y: 40, Z: 30		X, Z, Y: 40		X, Y: 40, Z: 30	
	Rapid traverse W-axis	—	20	15	—	—	15	12	10	—	—	
	Rapid traverse C-, B-axis	C: 200, B: 20				C: 100, B: 20						
Tailstock	Quill diameter	ø130 (5.12)		—	ø180 (7.09)		—	—		—		
	Center taper	MT No. 5 (Built-in)		—	MT No. 6 (Built-in)		—	—		—		
	Quill travel	250 (9.84)		—	350 (13.78)		—	—		—		
	Max tailstock thrust	15		—	26		26 [58.9, 78.5]		—		—	
ATC	Tool shank / Pull stud	HSK-A100 [CAPTO C8, MAS BT50/P50TII]				HSK-A100 [CAPTO C8, MAS BT50/P50TII]						
	No. of tools	40 [80, 160]				40 [80, 160]						
	Max tool dia	ø130 (5.12) (w/o adjacent tools: ø260 (10.24))				ø135 (5.31) (w/o adjacent tools: ø300 (11.81))						
	Max tool length	600 (23.62) (from the gauge line)				600 (23.62) (from the gauge line)						
	Max tool mass	30 (66)				30 (66)						
Motor	Spindle	37/30 (50/40) (30 min/cont) [Big-Bore: 37/30 (50/40) (30 min/cont)]		37/30 (50/40) (30 min/cont) [Big-Bore: 37/30 (50/40) (30 min/cont)]		37/30 (50/40) (30 min/cont) [Big-Bore, Super Big-Bore: 45/37 (60/50) (30 min/cont)]		37/30 (50/40) (30 min/cont) [Big-Bore, Super Big-Bore: 45/37 (60/50) (30 min/cont)]				
	Opposing spindle	—	37/30 (50/40) (30 min/cont) [Big-Bore: 37/30 (50/40) (30 min/cont)]		—	37/30 (50/40) (30 min/cont) [Big-Bore: 45/37 (60/50) (30 min/cont)]						
	Milling tool spindle	37/30/22 (50/40/30) (3 min/30 min/cont)				37/30/22 (50/40/30) (3 min/30 min/cont)						
	Axis drive X-, Y-, Z-, B-axis	X: 5.2 × 2, Z: 5.2, Y: 5.1, B: 4.6 (X: 6.9 × 2, Z: 6.9, Y: 6.8, B: 6.1)				X: 5.2 × 2, Z: 9.4, Y: 5.1, B: 4.6 (X: 6.9 × 2, Z: 12.5, Y: 6.8, B: 6.1)						
	W-axis	—	4.2 (5.6)		—	5.2 (6.9)						
Coolant motor (50/60 Hz)	0.25/0.25 × 1, 0.55/0.75 × 2, 1.1/1.1 × 1 (0.33/0.33 × 1, 0.7/1 × 2, 1.5/1.5 × 1)				0.25/0.25 × 1, 0.55/0.75 × 2, 1.1/1.1 × 1 (0.33/0.33 × 1, 0.7/1 × 2, 1.5/1.5 × 1)							
Machine size	Height	3,307 (130.20)	3,497 (137.68)	3,307 (130.20)	3,497 (137.68)	3,557 (140.04)	3,607 (142.01)	3,610 (142.13)	3,557 (140.04)	3,607 (142.01)	3,610 (142.13)	
	Floor space (tank included)	8,030 × 3,507 (316.14 × 138.07)	9,130 × 3,507 (359.45 × 138.07)	8,430 × 4,007* (331.89 × 157.76)	9,730 × 4,007* (383.07 × 157.76)	9,130 × 3,730 (359.45 × 146.85)	10,555 × 3,730 (415.55 × 146.85)	13,505 × 3,995 (531.69 × 157.28)	9,730 × 4,220* (383.07 × 166.14*)	11,155 × 4,220* (439.17 × 166.14*)	13,505 × 4,485* (531.69 × 176.57*)	
	Mass (with CNC)	29,500 (64,900)	33,000 (72,600)	31,000 (68,200)	34,000 (74,800)	40,000 (88,000)	43,500 (95,700)	50,000 (110,000)	44,000 (96,800)	47,500 (104,500)	54,500 (119,900)	
CNC	OSP-P500S				OSP-P500S							

* Depth includes opposing spindle cooler []: Option

* Depth includes opposing spindle cooler []: Option

Standard Specifications and Accessories

	MULTUS B550	MULTUS B750
Headstock	JIS A2-11 (37/30 kW 3,000 min ⁻¹) Integral spindle/motor	JIS A2-11 (37/30 kW 2,000 min ⁻¹) Gear spindle
Milling tool spindle	37/30/22 kW 10,000 min ⁻¹	
Turret	H1 ATC	
Tailstock	Built-in quill, MT No. 5, Auto tow-along	Built-in quill, MT No. 6, Auto tow-along
Auto tool changer	40-tool magazine HSK-A100	
Coolant system	Detachable coolant tank, pump motor: 0.25/0.25 kW (50/60 Hz) × 1, 0.55/0.75 kW (50/60 Hz) × 2, 1.1/1.1 kW (50/60Hz), Milling tool spindle, thru-spindle specifications	
Full-enclosure shielding	DBC 2000: manual, DBC 3000: front door auto open/close (safety tape SW included)	Front door auto open/close (safety tape SW included)
In-machine work lamp	LED	
Foundation pads, jack screws	○	
Hand tools	○	
CNC	OSP-P500S	
Operating panel	21.5-inch color TFT display	
Pulse handle	1 pc, portable with enable function	
Other	Thermo Active Stabilizer – Spindle (TAS-S), Thermo Active Stabilizer – Construction (TAS-C), Collision Avoidance System B-axis NC control, C-axis control, Synchronized Tapping	

Standard chuck sizes

	Chuck OD	Main / Opposing spindle									
		12-inch		15-inch		18-inch		21-inch		24-inch	
	Chuck type	Hollow	Solid	Hollow	Solid	Hollow	Solid	Hollow	Solid	Hollow	Solid
MULTUS B550	Standard spindle A2-11	●		●	●		●		●		●
	Big-Bore spindle A2-11			●	●	●	●	●	●	●	●
MULTUS B750	Standard spindle A2-11				●	●					
	Big-Bore spindle A2-15					●					●
	Super Big-Bore spindle A2-20										●

Boxes with no dots ● require consultation.

Optional Specifications and Accessories

	MULTUS B550	MULTUS B750
Big-Bore spindle	ø180 A2-11 2,400 min ⁻¹ , 37/30 kW (30 min/cont)	ø280 A2-15 1,500 min ⁻¹ , 45/37 kW (30 min/cont)
Super Big-Bore spindle	—	ø380 A2-20 1,000 min ⁻¹ , 45/37 kW (30 min/cont)
Opposing spindle	ø160 A2-11 3,000 min ⁻¹ , 37/30 kW (30 min/cont)	ø220 A2-11 2,000 min ⁻¹ , 37/30 kW (30 min/cont)
Opposing Big-Bore spindle	ø180 A2-11 2,400 min ⁻¹ , 37/30 kW (30 min/cont)	ø280 A2-15 1,500 min ⁻¹ , 45/37 kW (30 min/cont)
High-power spindle motor	—	45/37 kW (30 min/cont)
Milling tool high speed spindle	—	40 to 5,000 min ⁻¹
Tool shank	CAPTO C8, MAS BT50 BIG-PLUS®	
Thru-spindle coolant for M spindle	7 MPa	
High pressure coolant	7 MPa	
Turret coolant high/low pressure switch	L/M thru high/low pressure switch, M peripheral low pressure	
Lubrication monitor	B-2 with alarm lamp	
Tool breakage detection	—	
ATC magazine capacity	80, 160 tools	
Chip conveyor	Hinge type, scraper type, drum filter type	
Chip bucket	L type, H type	
Coolant sludge prevention	Oil skimmer attachment, magnetic separator attachment	
Touch Setter	A (Auto)	
In-process workpiece gauging	Renishaw radio transmission	
AbsoScale	X-Y-Z axes	
B-axis indexing	NC B-axis	
Opposite spindle control as tailstock	—	
Air blower (air blast)	Chuck, tailstock, turret, and spindle bore	
Coolant blower	Shower coolant system, within spindle	
Coolant sensor	Level detection, flow + pressure sensor, level + flow + pressure sensor	
Coolant tank	With line filter, with reverse wash filter, with thickener bag filter	
Mist collector	—	
Steadyrest	Auto tow-along, self-traveling	
Long boring bar specifications	—	ATC or manual
High-accuracy C-axis control	—	
Dust-proofing	Spindle air purge	
5-Axis Auto Tuning System	Standard kit, High spec kit	
NC Gage	Standard kit, High spec kit	
Temperature regulator	Coolant, hydraulic oil, spindle temperature	
Hydraulic chuck	Solid chuck, hollow chuck	
Workpiece stopper in spindle	—	
Chuck auto open/close	With confirmation	
Chuck high/low pressure switch	—	
Chucking error sensor	—	
Chuck internal sizing stopper	—	
Front door auto open/close	Tape SW, area sensor	Area sensor
Dual palm start buttons (door close interlock)	—	
Tailstock quill auto advance/retract	With confirmation	
Tailstock thrust high/low pressure switch	—	
Movable tailstock	Self-travelling	
Coolant gun	—	
Workrest	—	
Automated systems	Robot, loader	

Opposing spindle

Powerful machining is achieved with opposing spindle capacity equivalent to main spindle.

Spindle	MULTUS B550		MULTUS B750	
	Main spindle, opposing spindle		Main spindle, opposing spindle	
	Standard spindle	Big-Bore spindle	Standard spindle	Big-Bore spindle
Spindle speed	3,000 min ⁻¹	2,400 min ⁻¹	2,000 min ⁻¹	1,500 min ⁻¹
Spindle torque	1,413/1,050 (15 min/cont)	4,136/3,352 (30 min/cont)	5,000/4,035 (30 min/cont)	5,305/4,362 (30 min/cont)
Spindle/bore dia	ø160/ø112 mm	ø180/ø130 mm	ø220/ø142 mm	ø280/ø185 mm
Spindle motor	37/30 kW (30 min/cont)	37/30 kW (30 min/cont)	37/30 kW (30 min/cont)	45/37 kW (30 min/cont)

Optional Specifications and Accessories

Long boring bar specifications

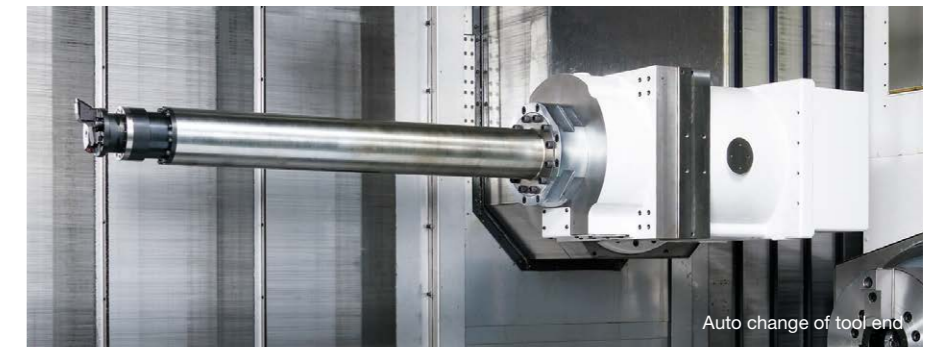
(MULTUS B750)

With B-axis rotation for main /opposed spindle applications

● Boring bar diameter × length

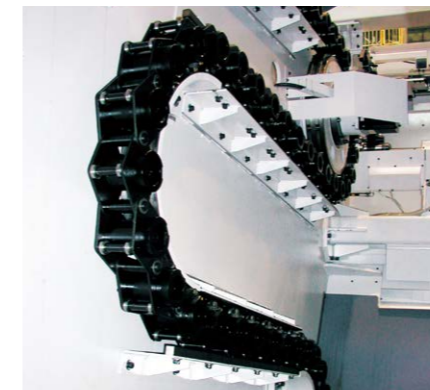
Tool end fixed: ø130 × 1,270 mm (ø5.12 × 50 in)

Auto change of tool end: ø120 × 1,000 mm (ø4.72 × 39.37 in)



Large capacity ATC

Standard 40 tools. 80-tool, 160-tool capacity optional.



Self-traveling hydraulic steadyrest

High efficiency machining of long workpieces.



AbsoScale/DD encoder

[AbsoScale]

High speed, high resolution optical positioner. Not affected by ball screw thermal expansion or backlash, for improved finishing accuracy.



[DD encoder] High accuracy, high resolution rotary encoder for high accuracy C-axis control.

Various chip conveyors

Chip conveyor types and applications

Name	Hinge	Scraper	Magnetic scraper	Hinge + scraper with drum filter
Application	● For steel	● For castings	● For castings	● For steel, castings, nonferrous metal
Features	● General use	● Easy for maintenance ● Blade scraper	● Suitable for sludge ● Not suitable for nonferrous metals	● Filtration of long and short chips and coolant
Shape				

Note: The machine may need to be raised (platform) depending on the type of chip conveyor.

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

OSP-P500

OSP-P500S Standard Specifications

Basic specs	Control	Turning: X, Z simultaneous 2-axis, Multitasking: X, Y, Z, B, C simultaneous 5-axis, Spindle control max 3 axes (2 spindles, milling tool spindle)
	Position feedback	OSP full range absolute position feedback (zero-point return not required)
	Min/max command	±99999.999 mm, ±99999.999° 8-digit decimal, command unit: 0.001 mm, 0.01 mm, 1 mm, 0.001°, 0.01°, 1°
	Feed	Override: 0 to 200%
	Spindle control	Direct spindle speed commands override 50-200%, Milling tool override 30-300%, Constant cutting speed, optimum turning speed designate
	Tool commands	2-digit tool no. + 4-digit tool no. (max tool registration: 1,000 sets)
	Tool compensation	Tool offset, nose R comp: 20 sets per tool, multi-coordinate tool compensation
	Display	21.5-inch color display operational panel, multi touch panel operations
	Security	Operator authentication, lock screen, OSP-VPSII-STD (Virus Protection System)
	Programming	Program capacity
Programming		Program management, editing, scheduled programs, G-/M-code macros, fixed cycles, special fixed cycles, M-spindle synchronized tapping, fixed drilling cycles, user task, auto programming (LAP4), programming help, block skip
Operations	OSP suite	Various "suite" apps support the series of machining operations, and "suite operation" enables one-touch access to those apps
	Easy Operation	"Single-mode operation" for a series of operations from a single screen. Easy-to-use operation panel supports complete machine control.
	Collision Avoidance System	Prevents interference during manual, automatic operation Easy modeling of shape data (there are limits in interference prevention unit, unit movement)
	Machine operations	MDI, manual (rapid traverse, pulse handle), load meter, operations help, alarm help, sequence return, manual interrupt & auto return
Communications / Networking	MacMan plus	Machining management: machining results, machine utilization, fault data compile & report, visualization of power consumption, external output
	USB ports, Ethernet, DNC-T1, Smart I/F	
High speed/accuracy	Thermo-Friendly Concept	TAS-C (Thermo Active Stabilizer—Construction): corrects machine construction thermal deformation error during shop temperature change. TAS-S (Thermo Active Stabilizer—Spindle): corrects milling tool spindle thermal deformation error during spindle rotation.
	High speed/accuracy	Hi-G control, SERVONAVI, Cycle time reduction (machining time shortening, easy parameter setting)
Energy-saving functions	ECO suite plus	ECO Idling Stop, ECO Operation, ECO Power Monitor (on machine watt meter is optional)
	Power Regeneration System	Regenerative power is used when the spindle and feed axes decelerate to reduce energy waste.

Novice-friendly smart operation

Innovative operability

It's possible to speed up preparation for machining, even without knowledge of NC programs

While preparation for machining is conventionally conducted by writing GM code programs for machining settings and processes based on the drawing, this product enables the machining processes to be determined automatically, simply by following the guidance and entering drawing information.

Machining preparation for tapping (part of the process)

OSP-P500S Kit Specifications/Optional Specifications

Item	Kit specs	NML		AOT-M		DT		DT AOT-M	
		E	D	E	D	E	D	E	D
Digital twin									
Virtual Machining						●	●	●	●
Quick Modeling						●	●	●	●
OPC UA for Machine Tools						●	●	●	●
OSP API KIT						●	●	●	●
Interactive Programming									
Advanced One-Touch IGF-L Multitasking (w/Real 3D)						●	●	●	●
Smart OSP Operation						●	●	●	●
Programming									
Operation buffer (10 MB)		●	●	●	●	●	●	●	●
Circular threading						●	●	●	●
Program notes						●	●	●	●
User task I/O variables, 24 each 1,000 common variables						●	●	●	●
Work coordinate system select	10 sets	●	●	●	●	●	●	●	●
	100 sets								
Thread matching									
Pause for threading during non-fixed cycle		●	●	●	●	●	●	●	●
Variable Spindle Speed Threading (VSST)									
Inverse time feed									
Mid-block sequence return						●	●	●	●
Coordinate convert		●	●	●	●	●	●	●	●
Profile generate		●	●	●	●	●	●	●	●
Flat turning									
Coordinate calculation (with NCYL commands)		●	●	●	●	●	●	●	●
Coordinate shifting, rotation, copying		●	●	●	●	●	●	●	●
Enlarge/reduce						●	●	●	●
Helical cutting									
Slope machining (Type I, Type II)									
B-axis slope machining		●	●	●	●	●	●	●	●
Profile helical cutting									
Harmonic spindle speed control		●	●	●	●	●	●	●	●
Tool life management (include prior notice)						●	●	●	●
Turn-Cut									
Hobbing									
Multi-flute cutter function									
Block skip; 9 sets									
Home position									
Dynamic tilt turning									
Monitoring									
Real 3-D simulation						●	●	●	●
Cycle time over check		●	●	●	●	●	●	●	●
Load monitor (spindle, feed axis)									
No-load detection, part number expansion, workpiece ejection detection						●	●	●	●
AI machine diagnostics (M-spindle, feed axes) ^{*1}									
Machine Status Logger									
Cutting Status Monitor									
Operation end buzzer									
Work counters	Count only								
	Cycle stop								
	Start disabled								
Hour meters	Power ON								
	Spindle rotation								
	NC operating								
NC operation monitor (counter, totaling)		●	●	●	●	●	●	●	●
Status indicator (3-color C type) [A type, B type]		●	●	●	●	●	●	●	●
External Input/Output and Communication Functions									
RS-232C connector									
Ethernet/IP									
Networking	DNC-DT, DNC-T3 DNC-C/Ethernet								
Measuring									
In-process workpiece gauging	Tool compensation								
	Z-axis automatic zero offset								
	C-axis automatic zero offset								
	Y-axis zero offset and tool offset								
Gauge data output	Y-axis slope gauging								
	3-point gauging								
Post-process workpiece gauging	File output								
	Quantitative compensation (five level, seven level)								
NC Gage	BCD								
	RS-232C (w/dedicated channel)								
Energy-saving ECO suite plus									
Spindle power peak limiter									
ECO Power Monitor On-machine wattmeter									
Automation / Unattended Operation									
Auto power shutoff M02, alarm									
Warm-up (by calendar timer)									
Tool retract cycle									
External program	pushbutton, rotary switch digital switch, BCD								
Connection with automated devices	Robot, loader I/F Bar feeder I/F								
High-Speed /High-Accuracy									
B axis NC control									
Simultaneous 5-axis kit (NC B-axis)	Hyper-Surface II (5 axes)								
	Tool center point control II								
	Tool posture command								
	DNC-DT								
Cycle time reduction ^{*2}	Inverse time feed								
	Helical cutting								
0.1 μm control ^{*2}	Slope machining, B-axis slope machining								
	Operation time reduction	●	●	●	●	●	●	●	●
Pitch error compensation	Chuck and tailstock movement during spindle rotation								
	AbsoScale detection ^{*2}								
Hi-Cut Pro		●	●	●	●	●	●	●	●
	Dynamic displacement compensation	●	●	●	●	●	●	●	●
Hyper-Surface II	3 linear axes								
	3 linear axes + 2 rotary axes								
5-Axis Auto Tuning System Standard, high spec									
Other									
One-Touch Spreadsheet									
Gear machining package									
Machining Navi [M-gII+, M-r]									
Machining Navi [L-gII, T-g threading]									
Spindle dead-slow cutting									
Synchronized C-axis control									
Y-axis center height offset									
Feed axis retraction									
Short circuit breaker									
External M codes [2 sets, 4 sets, 8 sets, 16 sets]									
OSP-VPSII-EX (Virus Protection System)									

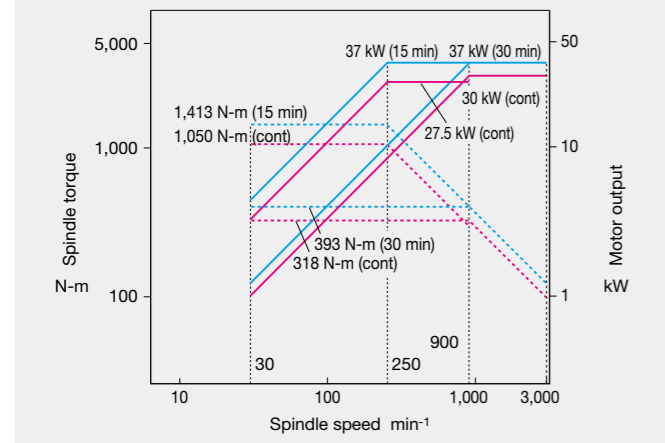
Note: NML: Normal, AOT-M: Advanced One-Touch IGF-L Multitasking, DT: Digital twin, DT AOT-M: Digital twin Advanced One-Touch IGF-L Multitasking, E: Economy, D: Deluxe
VE and VD kits are also equipped with the Digital Twin on PC function, allowing running from a PC.
^{*1}. Engineering discussions required. With AbsoScale detection specs, ball screw wear detection is possible.
^{*2}. Engineering discussions required.
Specifications, etc. are subject to change without notice.

Spindle Torque/Output Diagrams

⟨MULTUS B550⟩

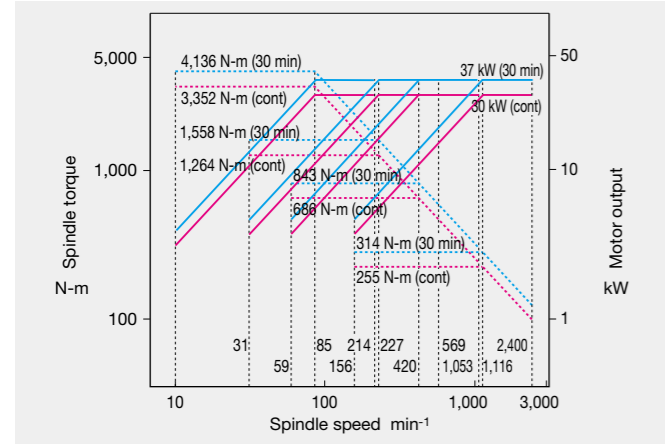
Standard spindle (MULTUS B550 Main, Opposing)

Spindle speed 3,000 min⁻¹
Output 37/30 kW (30 min/cont)
Torque 1,413/1,050 N-m (15 min/cont)



Big-Bore spindle (MULTUS B550 Main, Opposing)

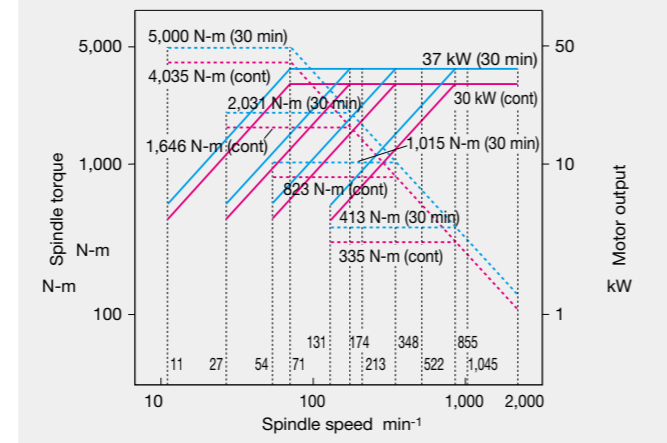
Spindle speed 2,400 min⁻¹
Output 37/30 kW (30 min/cont)
Torque 4,136/3,352 N-m (30 min/cont)



⟨MULTUS B750⟩

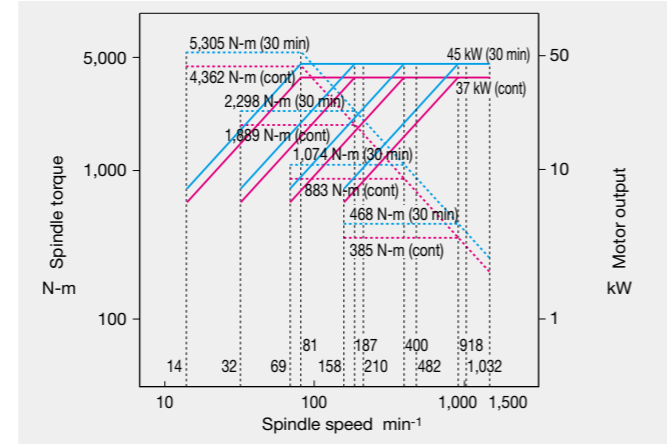
Standard spindle (MULTUS B750 Main, Opposing)

Spindle speed 2,000 min⁻¹
Output 37/30 kW (30 min/cont)
Torque 5,000/4,035 N-m (30 min/cont)



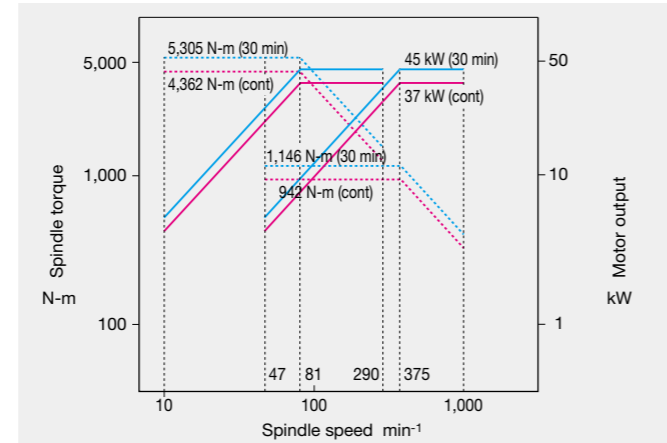
Big-Bore spindle (MULTUS B750 Main, Opposing)

Spindle speed 1,500 min⁻¹
Output 45/37 kW (30 min/cont)
Torque 5,305/4,362 N-m (30 min/cont)



Super Big-Bore spindle (MULTUS B750 Main)

Spindle speed 1,000 min⁻¹
Output 45/37 kW (30 min/cont)
Torque 5,305/4,362 N-m (30 min/cont)

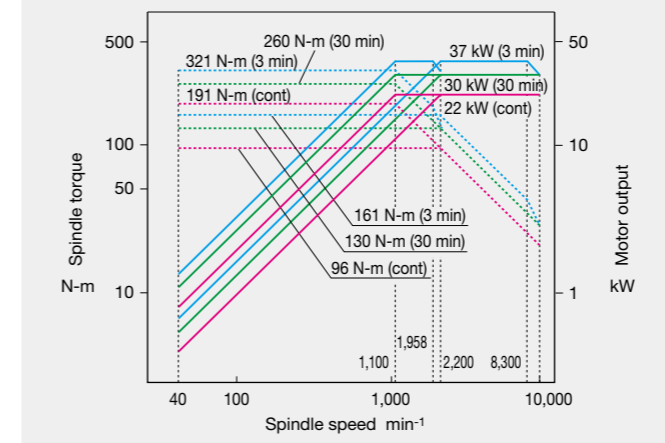


Milling Tool Spindle Torque/Output Diagrams

⟨MULTUS B550⟩

Milling tool spindle

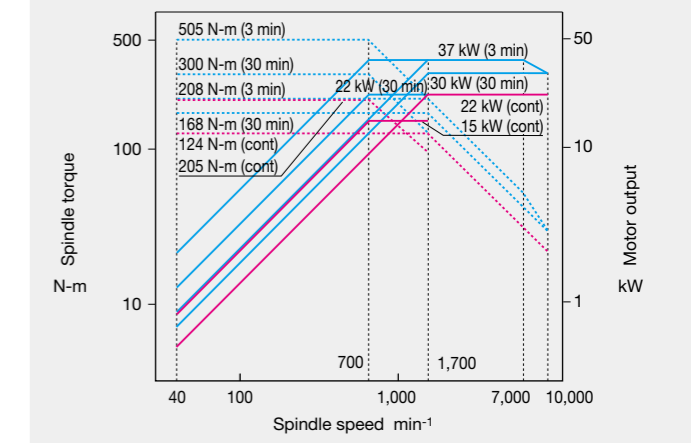
Spindle speed 10,000 min⁻¹
Output 37/30/22 kW (3 min/30 min/cont)
Torque 321/260/191 N-m (3 min/30 min/cont)



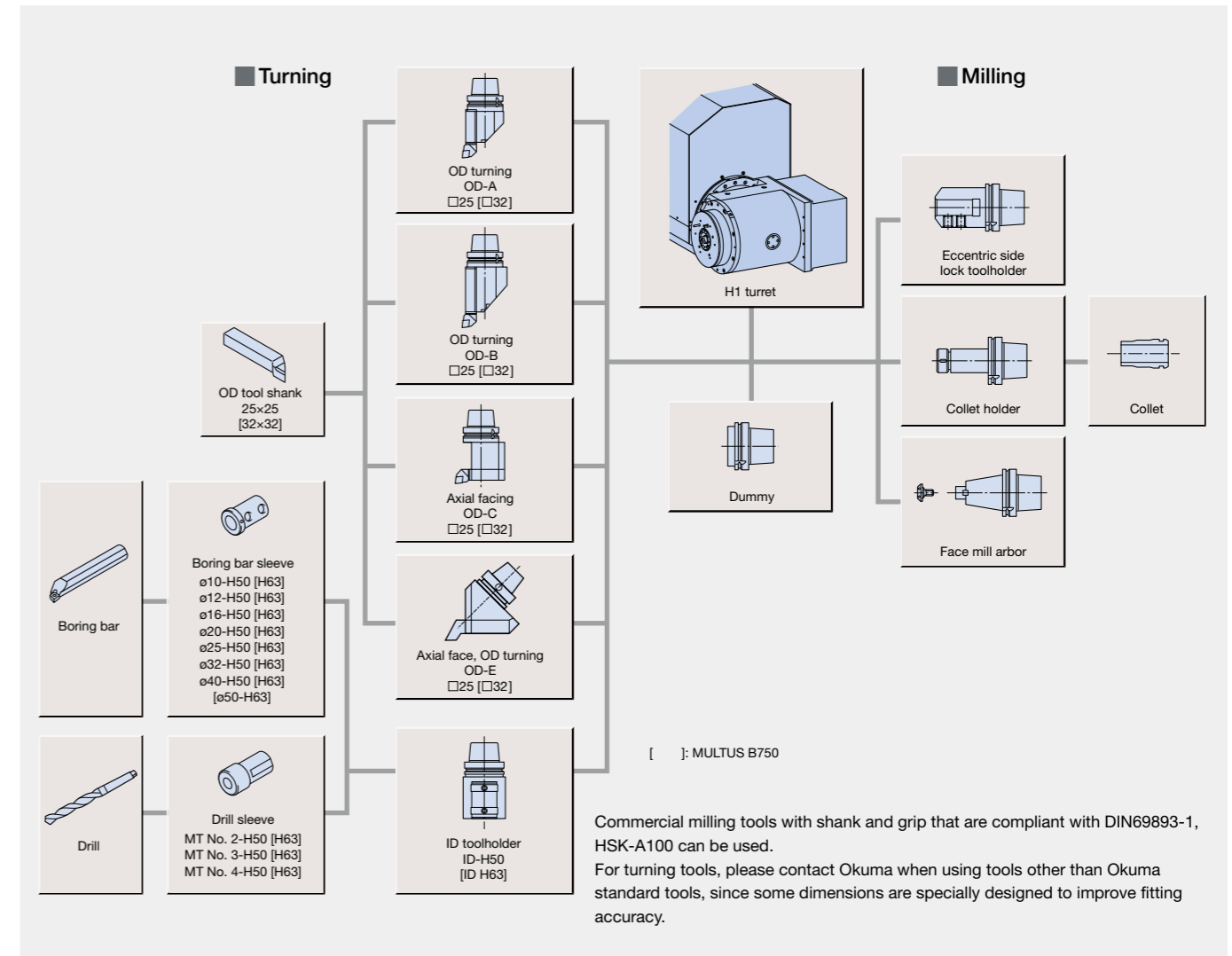
⟨MULTUS B750⟩

Milling tool spindle

Spindle speed 10,000 min⁻¹
Output 37/30/22 kW (3 min/30 min/cont)
Torque 505/300/205 N-m (3 min/30 min/cont)



Tooling System (HSK-A100)

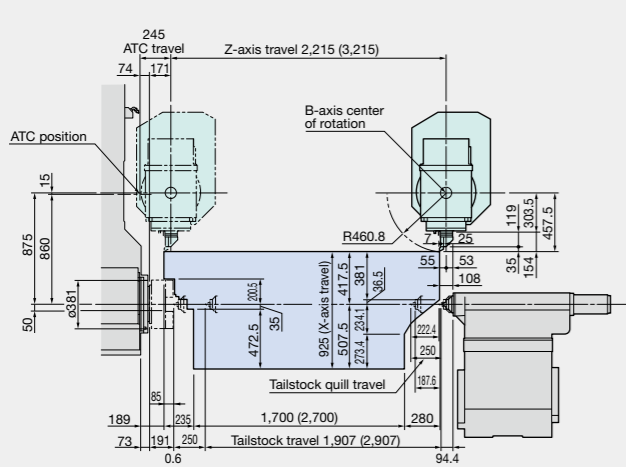


MULTUS B550 Tailstock Specifications

Unit: mm

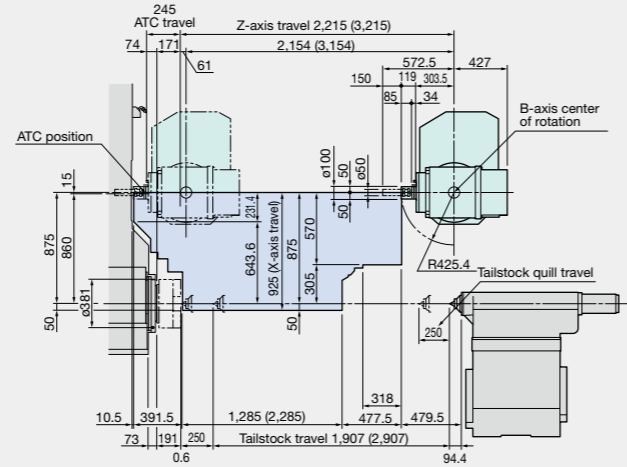
OD-A, B-axis 90°

Distance between centers: 2,000 (3,000)



ID, B-axis 0°

Distance between centers: 2,000 (3,000)

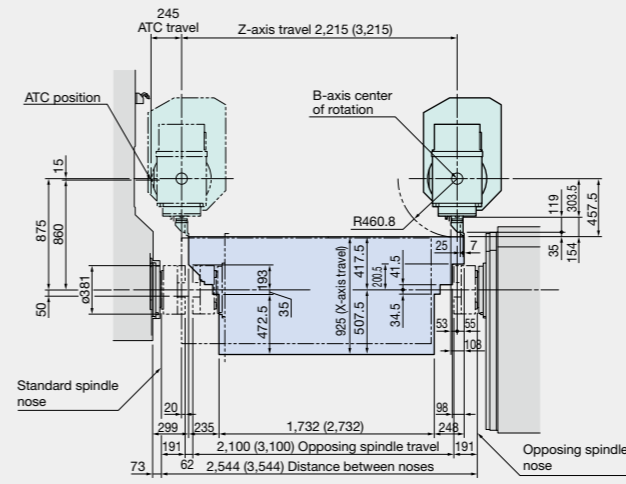


MULTUS B550 Opposing spindle specs

Unit: mm

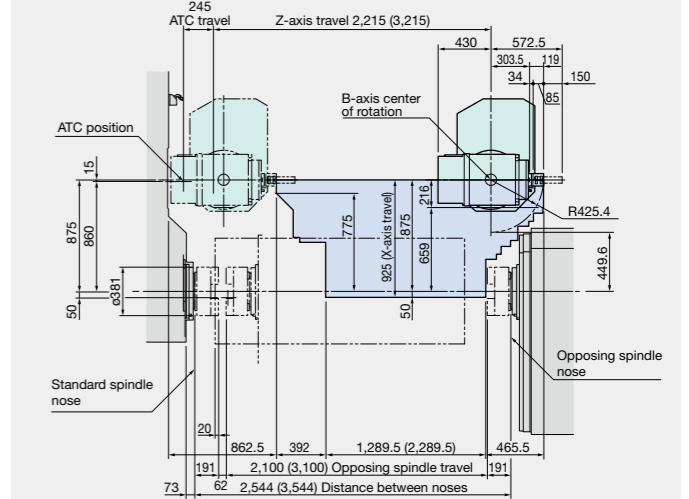
OD-A, B-axis 90°

Distance between noses: 2,000 (3,000)



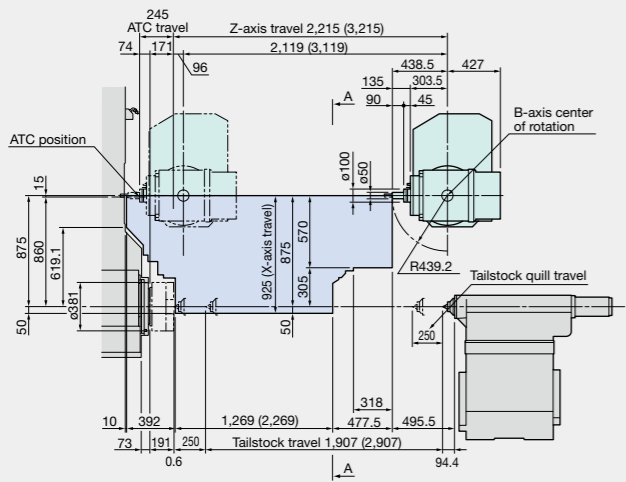
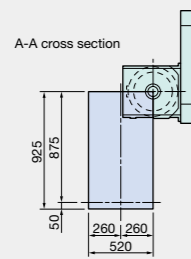
ID, B-axis 180°

Distance between noses: 2,000 (3,000)



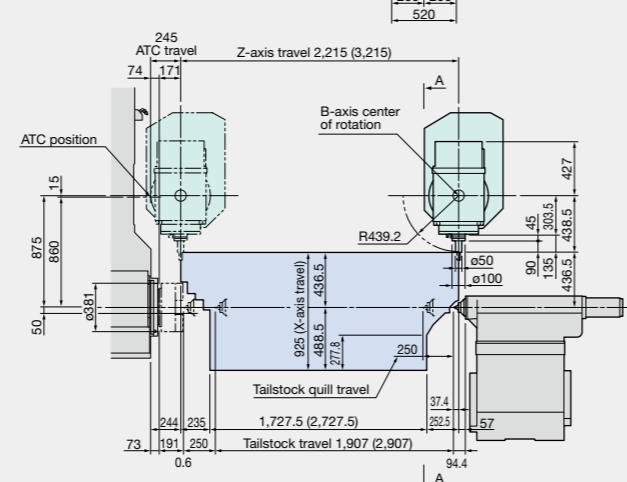
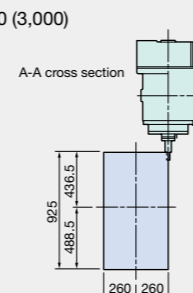
End mill toolholder, B-axis 0°

Distance between centers: 2,000 (3,000)



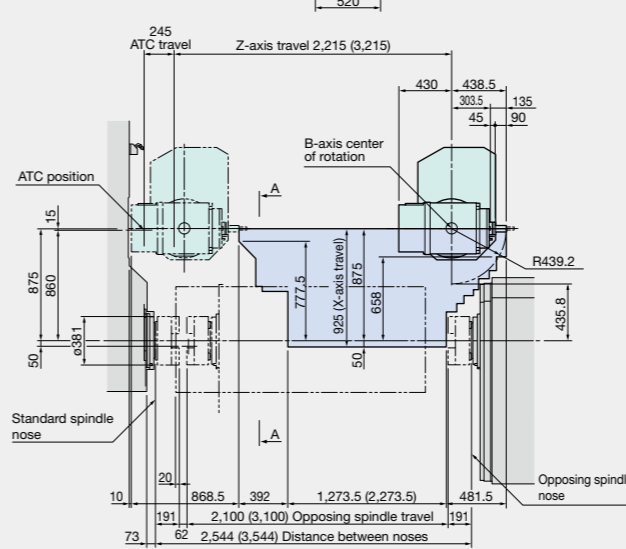
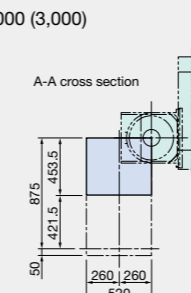
End mill toolholder, B-axis 90°

Distance between centers: 2,000 (3,000)



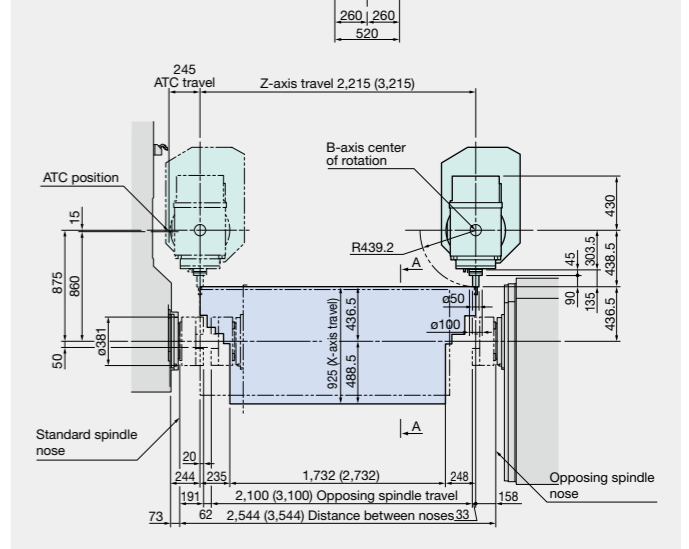
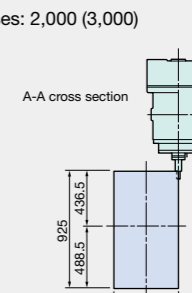
End mill toolholder, B-axis 180°

Distance between noses: 2,000 (3,000)



End mill toolholder, B-axis 90°

Distance between noses: 2,000 (3,000)

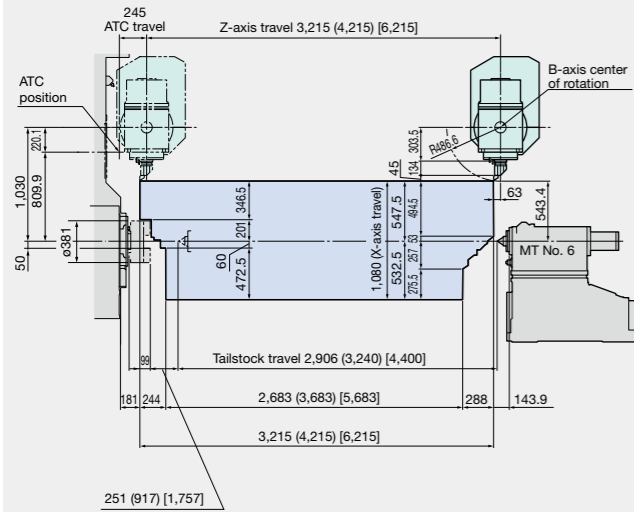


MULTUS B750 Tailstock Specifications

Unit: mm

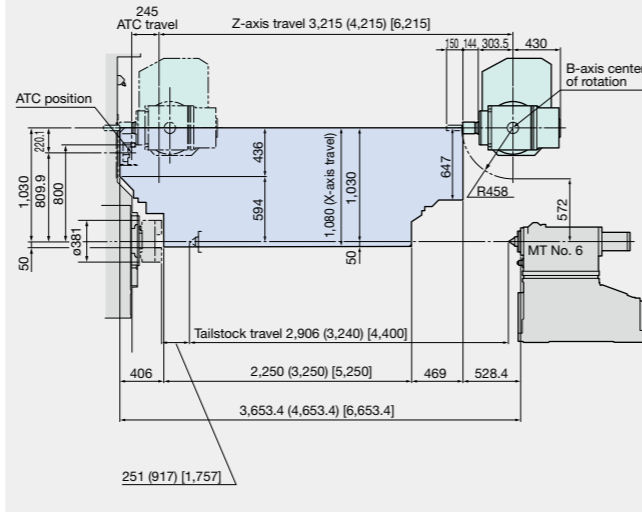
OD-A, B-axis 90°

Distance between centers 3,000 (4,000) [6,000]



ID, B-axis 0°

Distance between centers 3,000 (4,000) [6,000]

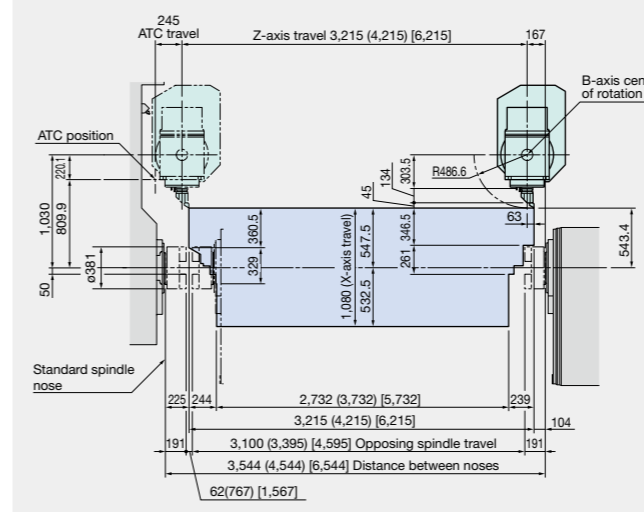


MULTUS B750 Opposing spindle specs

Unit: mm

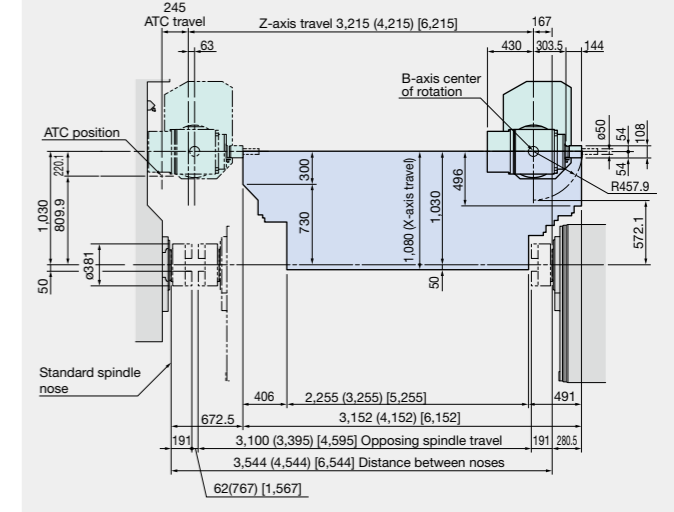
OD-A, B-axis 90°

Distance between noses 3,000 (4,000) [6,000]



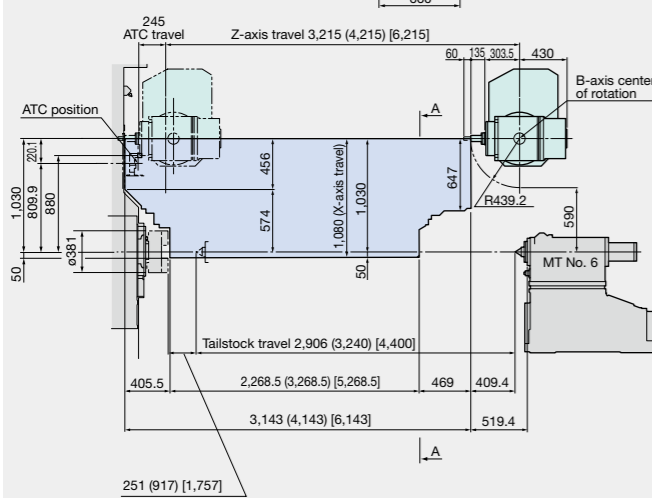
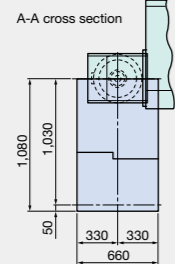
ID, B-axis 180°

Distance between noses 3,000 (4,000) [6,000]



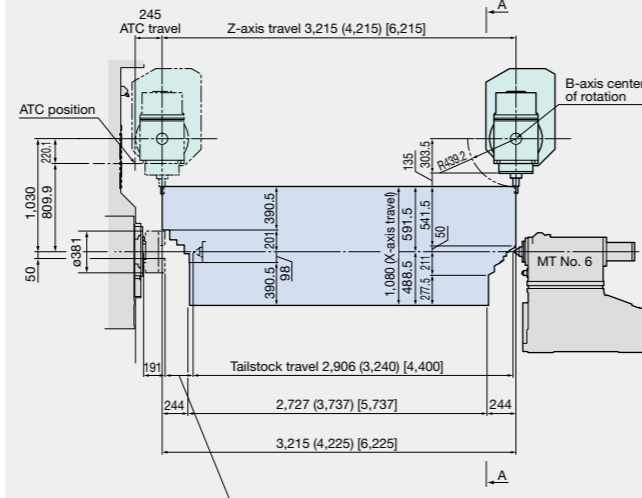
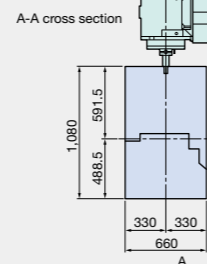
End mill toolholder, B-axis 0°

Distance between centers 3,000 (4,000) [6,000]



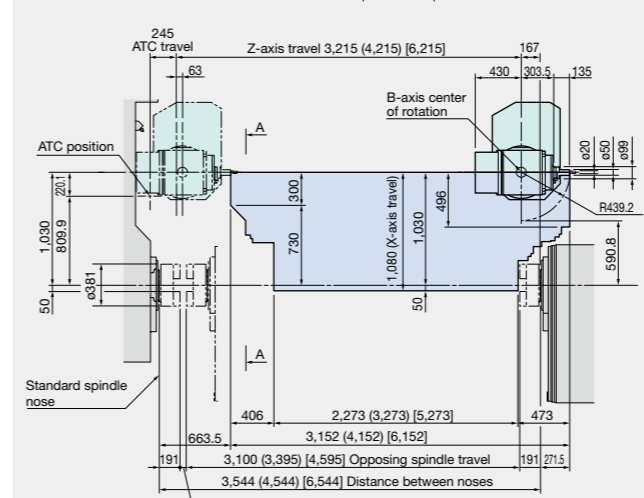
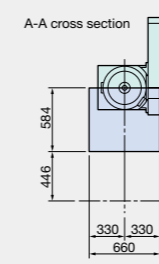
End mill toolholder, B-axis 90°

Distance between centers 3,000 (4,000) [6,000]



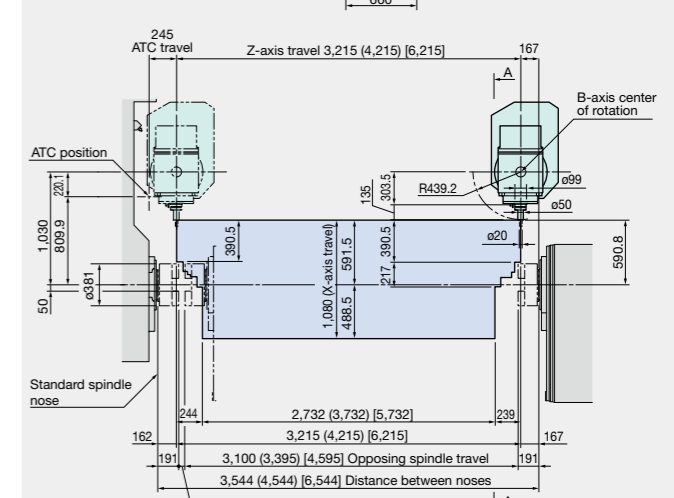
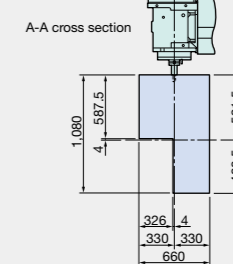
End mill toolholder, B-axis 180°

Distance between noses 3,000 (4,000) [6,000]



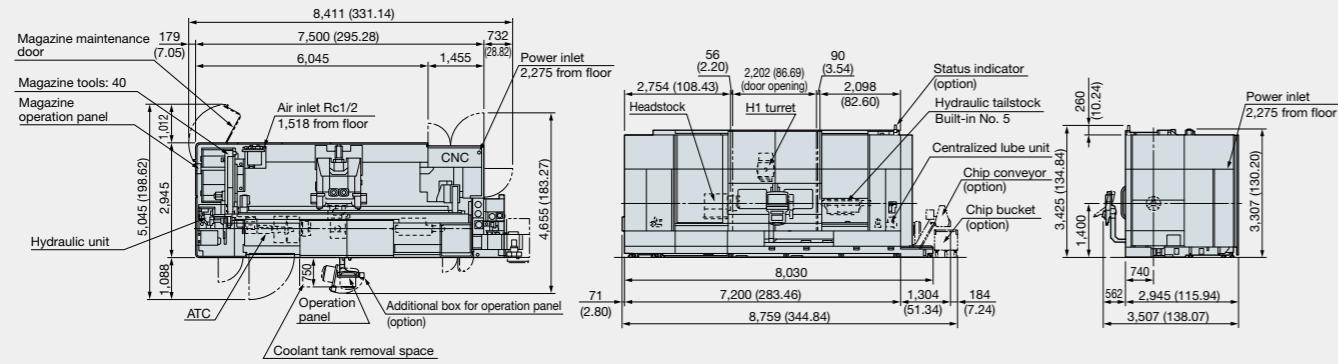
End mill toolholder, B-axis 90°

Distance between noses 3,000 (4,000) [6,000]



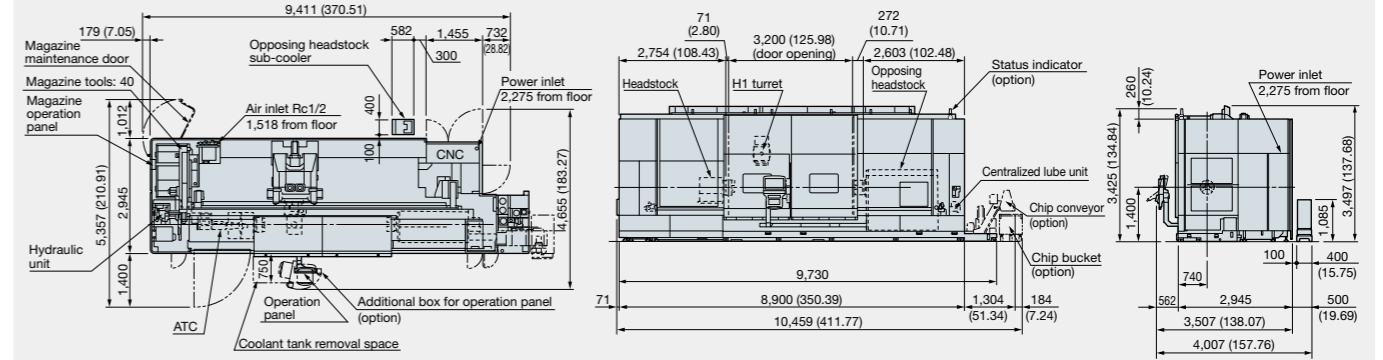
■ Dimensional and Installation Drawings

MULTUS B550 C × 2000



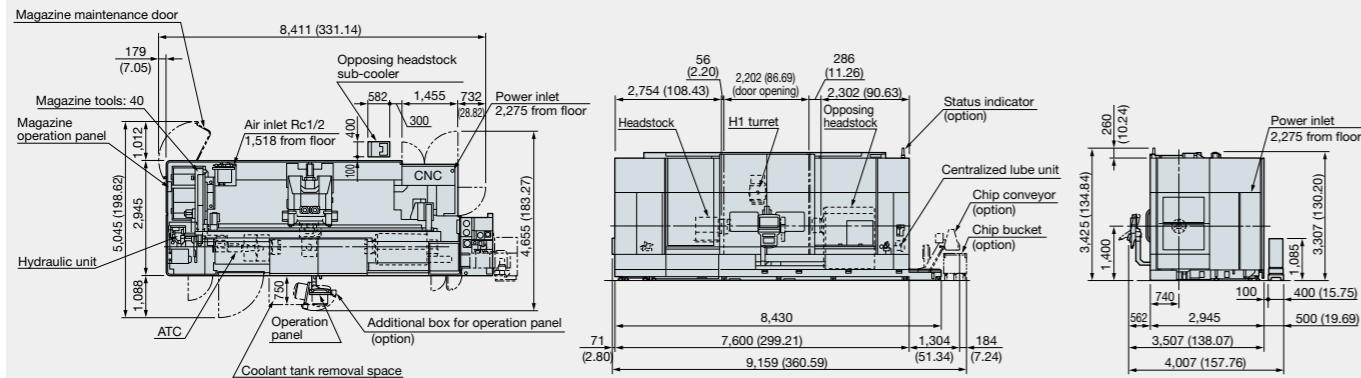
Unit: mm (in)

MULTUS B550 W × 3000



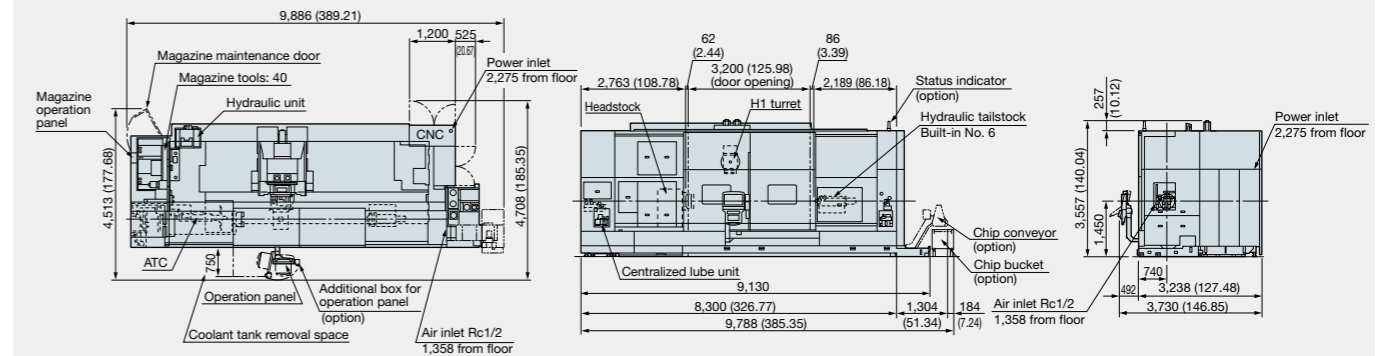
Unit: mm (in)

MULTUS B550 W × 2000



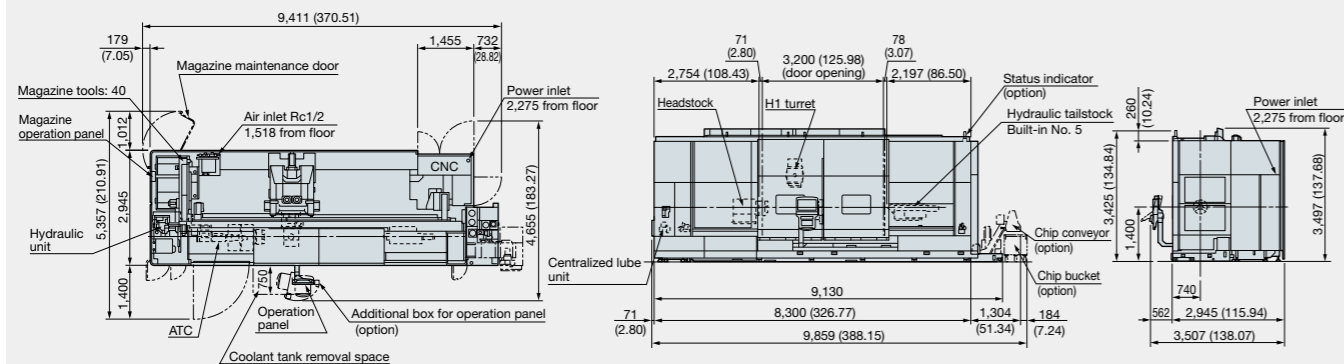
Unit: mm (in)

MULTUS B750 C × 3000



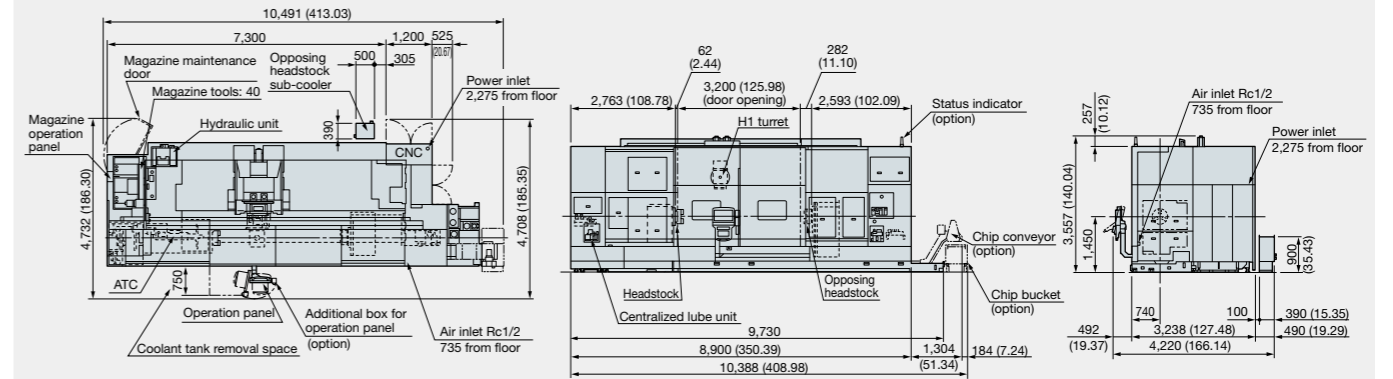
Unit: mm (in)

MULTUS B550 C × 3000



Unit: mm (in)

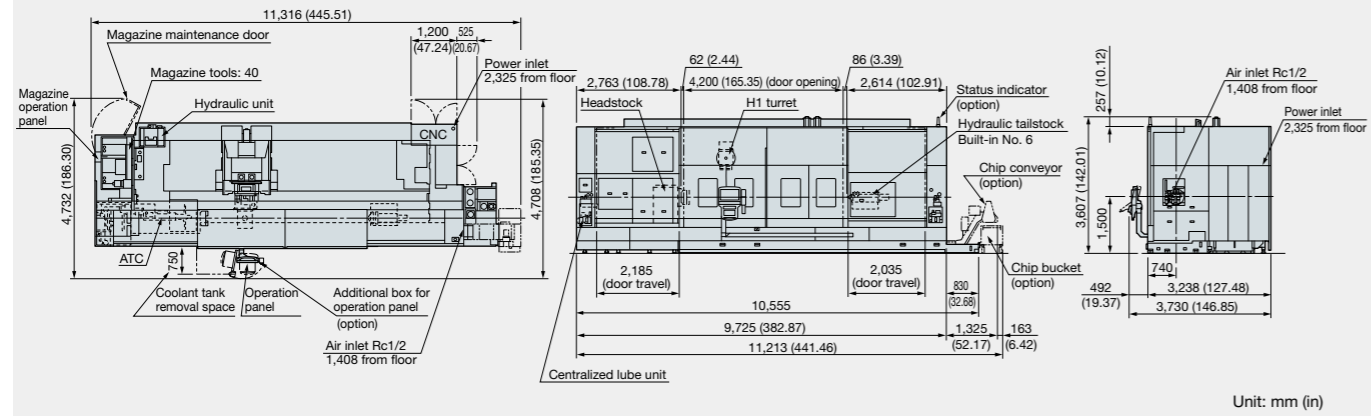
MULTUS B750 W × 3000



Unit: mm (in)

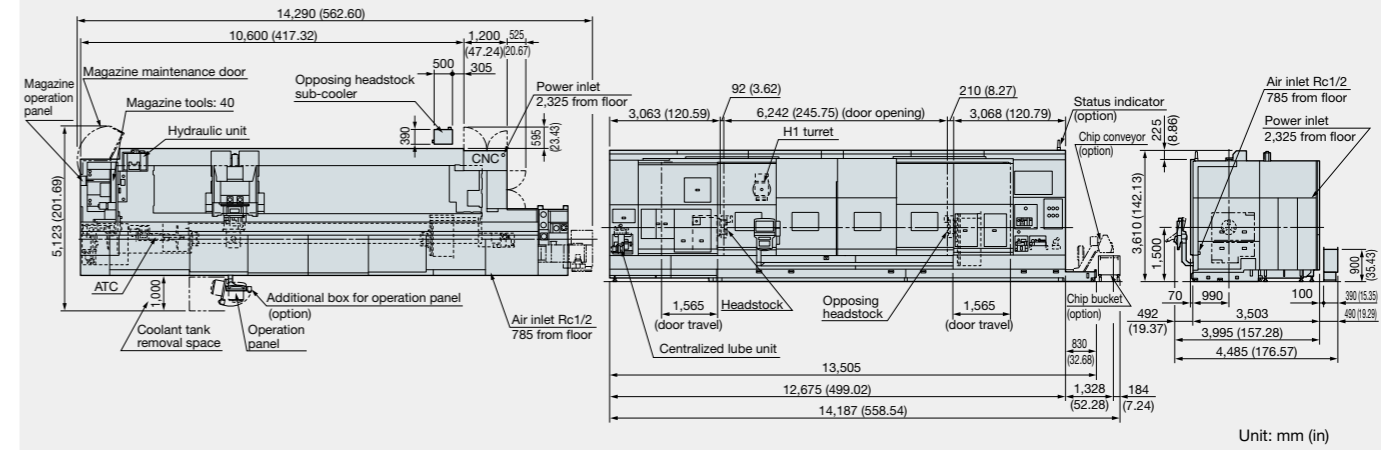
Dimensional and Installation Drawings

MULTUS B750 C x 4000



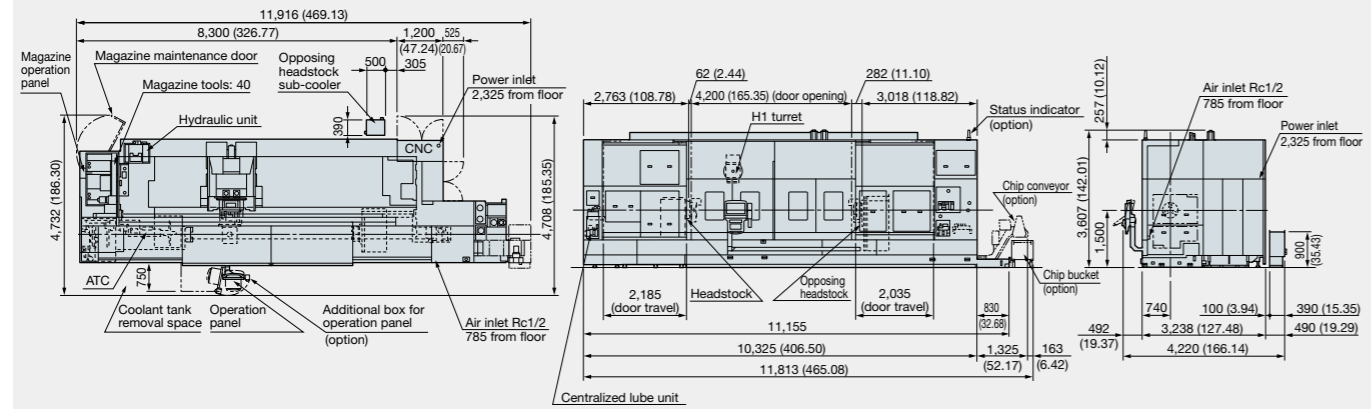
Unit: mm (in)

MULTUS B750 W x 6000



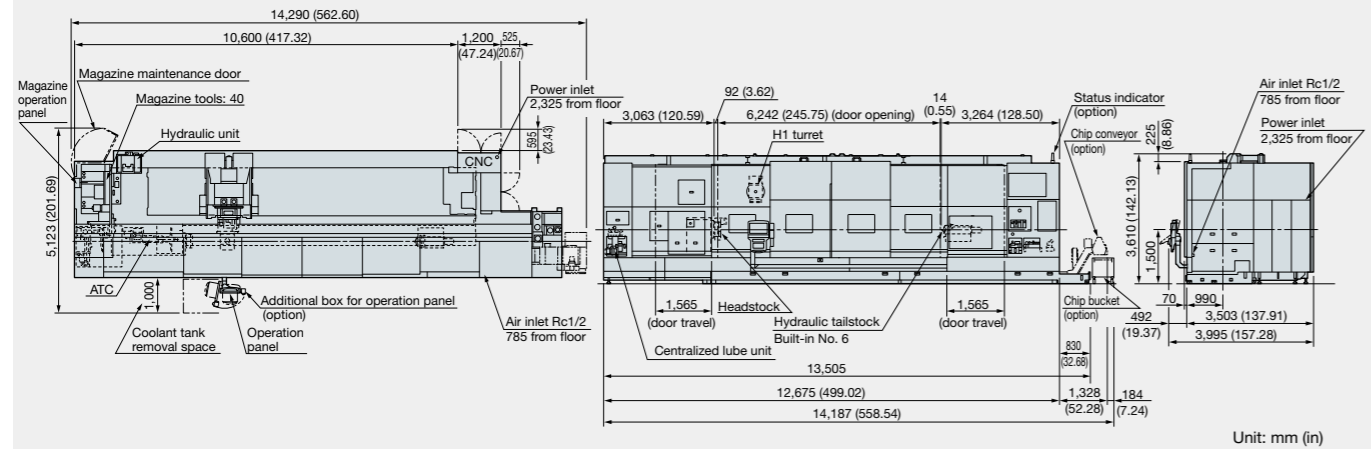
Unit: mm (in)

MULTUS B750 W x 4000



Unit: mm (in)

MULTUS B750 C x 6000



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.
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OKUMA Corporation

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

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