

SPEEDIO H550Xd1

Horizontal Compact Machining Center

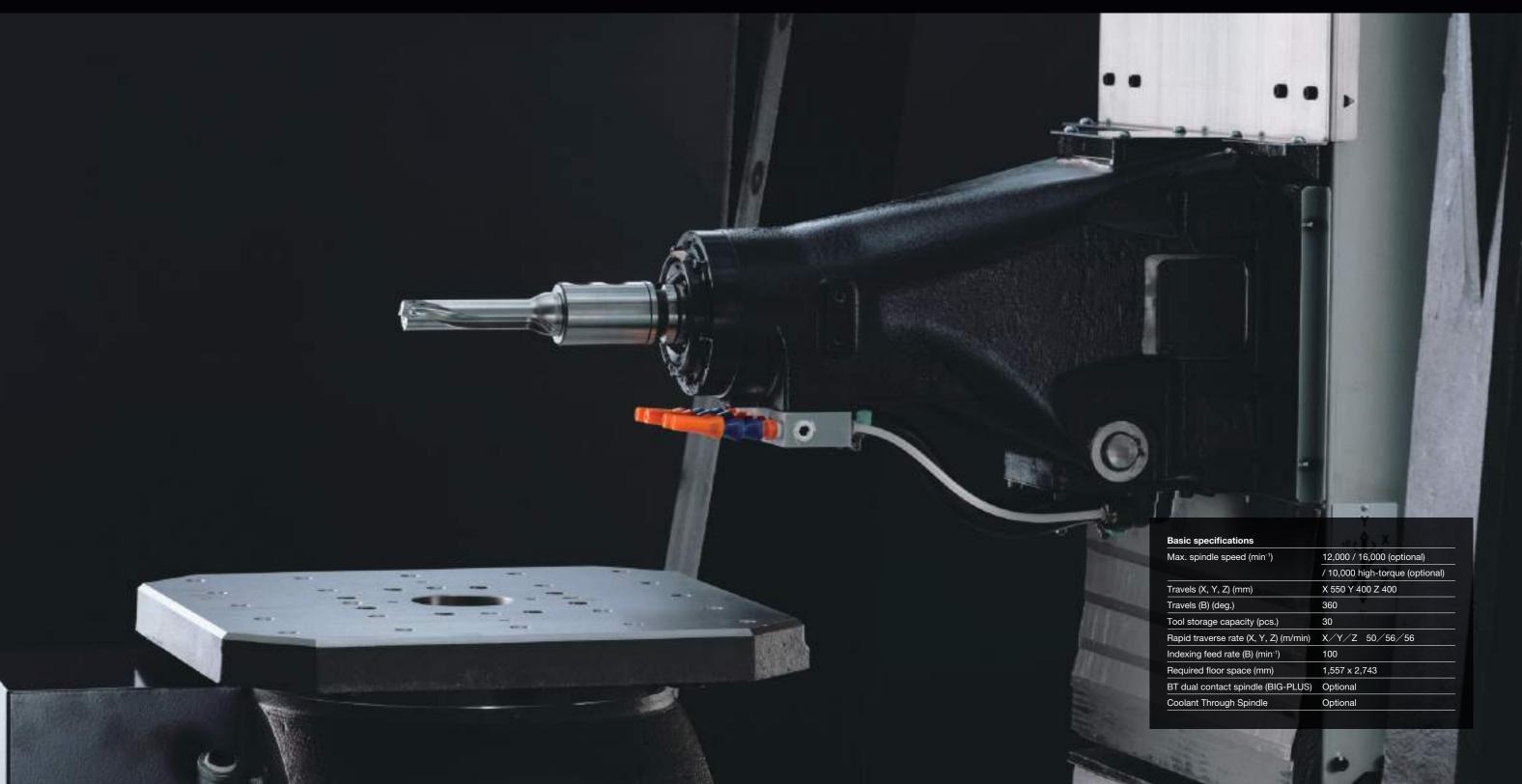


New style of SPEEDIO Horizontal Compact Machining Center now available

The H550Xd1 horizontal machining center with a BT30 spindle provides high productivity and excellent environmental performance.

Ample jig area and a newly developed 30-tool magazine enable multi-face machining of large or long workpieces. The H550Xd1 further expands the coverage of the SPEEDIO.

Cutting Out the Waste SPEEDIO





H550Xd1

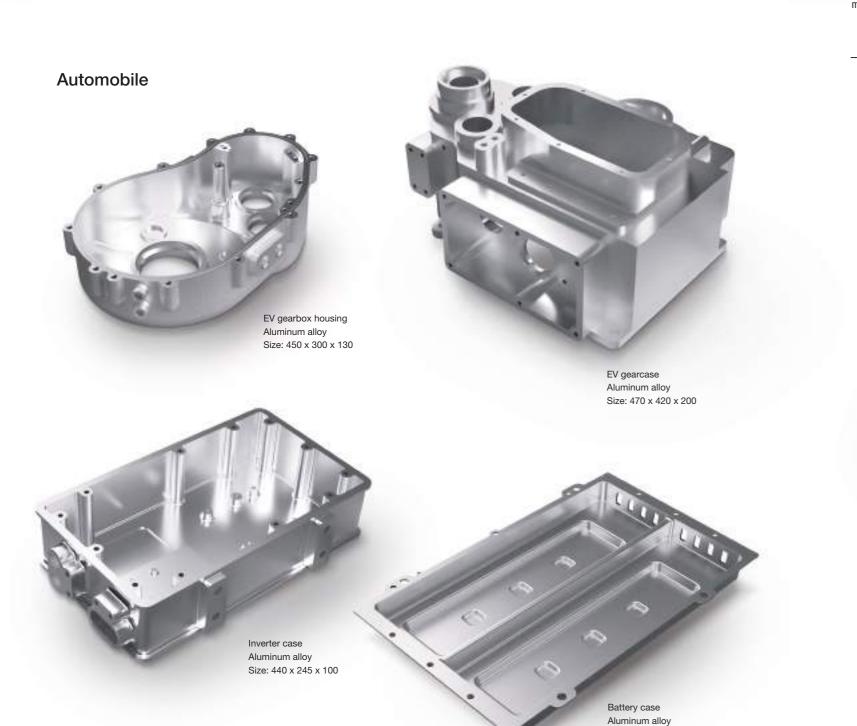
Highly efficient machining of large/long workpieces by BT30 spindle horizontal machining center

Taking advantage of the high productivity feature of the BT30 spindle horizontal machining center, the H550Xd1 achieves highly efficient machining of large or long workpieces. This machine supports a broad range of applications to further expand the coverage of SPEEDIO range.

Jig mounting examples

Ample jig area, standard-provided B-axis table, and 30-tool magazine that can support maximum tool length of 250 mm enable machining of large workpieces (e.g. gearcase, aluminum wheel) or long workpieces (e.g. steering parts), and multi-face machining of small workpieces.





Size: 500 x 320 x 100



Aluminum alloy



3

Multi-face machining





Size: ϕ 550 x 230

Steering rack housing Aluminum alloy Size: 520 x 170 x 130

ABS valve housing Aluminum allov Size: 90 x 70 x 30

Highly productive horizontal machining center enables machining of large/long workpieces

Highly productive horizontal machining center using a BT30 spindle and is equipped with ample jig area, 30-tool magazine, and high-speed B-axis table

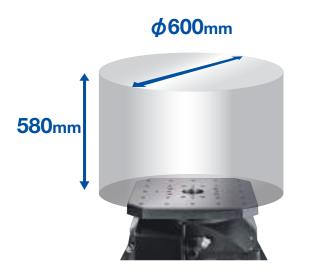
This enables machining of large or long workpieces that was not possible on conventional BT30 machines.

Jig area

Ample jig area of ø600 x 580 mm has been achieved. *1 Can be expanded to ø800 mm by moving the tool to a safe position, etc. *2 This enables a large or long workpiece to be mounted.

Space saving

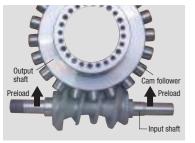
Machine dimensions are 1,557 mm in width and 2,990 mm in depth, achieving reduction in space while maintaining ample jig and machining areas.



*1. Interference area is created depending on the tool length or tool diameter.
*2. The tool must be moved to a safe position when the B-axis rotates or the tool length is restricted.



B-axis table



B-axis rotary speed

100min⁻¹

The B-axis table with a roller gear cam mechanism is standard-provided, achieving a fast rotary speed of 100 min⁻¹. The table size is 400 x 400 mm, and the maximum loading capacity is 300 kg. This enables handling of a heavy workpiece or jig while maintaining high-speed performance.

Loading capacity

Max. 300kg

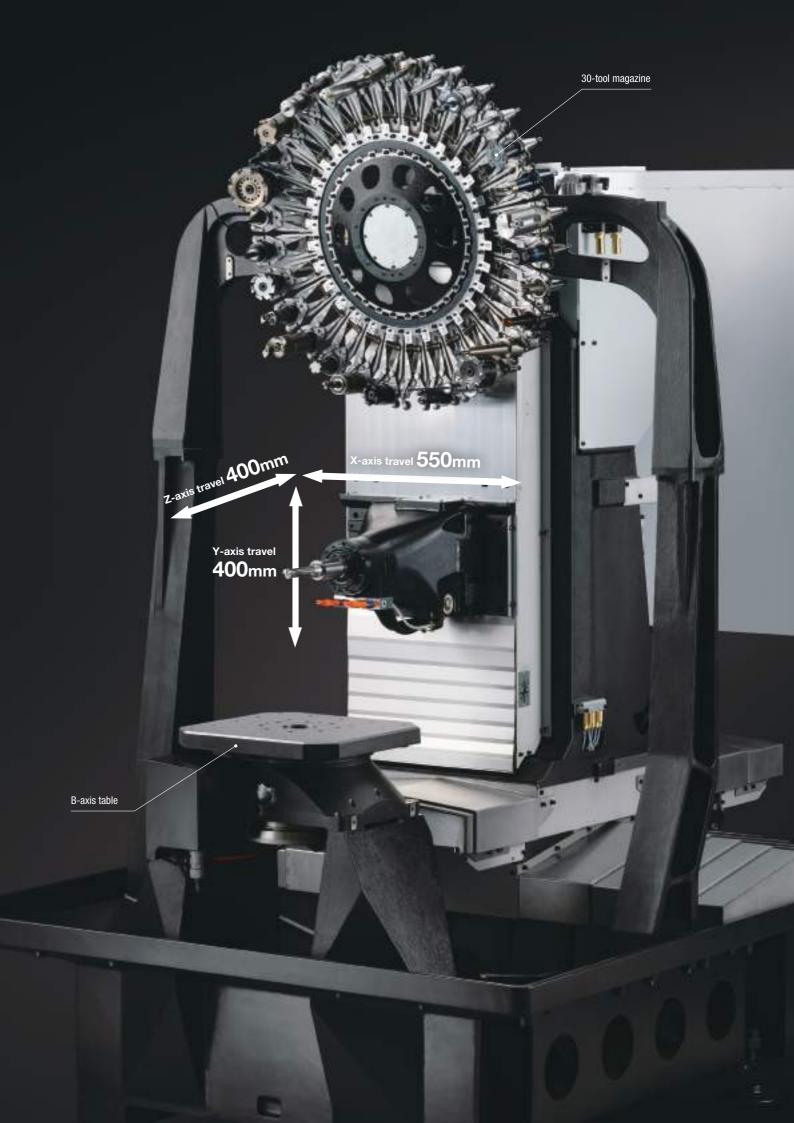
30-tool magazine



Equipped with the newly developed direct ATC type 30-tool magazine. Supports maximum tool length of 250 mm, maximum tool diameter of 125 mm, and maximum tool weight of 4 kg, enabling a variety of machining, including long workpieces.

Max. tool lengthMax. tool diameterMax. tool weight250mm125mm*54kg

*5. When attaching an adjacent tool, the total diameter of a tool and its adjacent tool must be less than 130 mm.



Untiring pursuit of high productivity by achieving faster and optimized operation through machine/controller integrated development

Overwhelming high productivity has been achieved by utilizing advantages of machine/controller integrated development, such as fast acceleration/deceleration spindle, faster and optimized tool change operation, and inertia estimation function.

*1. Value of high-torque spec.

Fast acceleration/deceleration spindle

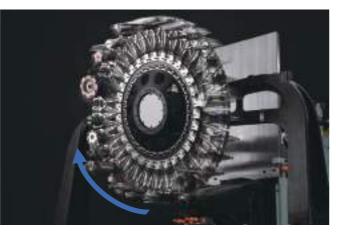
Using a low inertia spindle and high acceleration/deceleration spindle motor has achieved faster spindle start/stop.



Spindle start/stop time

0.15s or less *1

High-speed tool change By utilizing the advantages of machine/controller integrated development, high-speed tool change has been achieved by fast acceleration/deceleration and optimized operation.



Тооl change time т-т **1.1s** с-с **2.4s**

High-speed B-axis table indexing

A roller gear cam mechanism is used for the B-axis table to achieve both durability and high-speed performance. A maximum rotary speed of 100 min⁻¹ enables high-speed indexing.

Wasted time is further reduced by simultaneously performing tool change and B-axis indexing.

In addition, machining can be performed only by the holding torque with motor without using the clamp mechanism depending on the machining load.

B-axis table inertia estimation function

Provided with an inertia estimation function that estimates the inertia of a jig mounted on the B-axis table. This optimally controls acceleration according to the level of inertia, leading to the improvement of productivity. *3 *3. Parameter setting needs to be changed.

B-axis table inc	dexing time *2
0→90° 0→180°	

*2. Value in standard inertia mode



High inertia





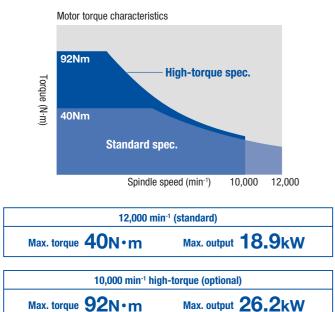


High machining capabilities achieved by highly efficient spindle motor and optimal machine design

The machine is equipped with a highly efficient high-power spindle motor, including a newly developed 12,000 min⁻¹ standard spindle motor, and newly developed highly rigid spindle. CAE analysis technologies accumulated through the development of the SPEEDIO series have achieved both high speed and high rigidity of the machine. The machine demonstrates high machining capabilities as it supports a 7MPa high-pressure coolant system and is equipped with a B-axis table with high clamp torque.

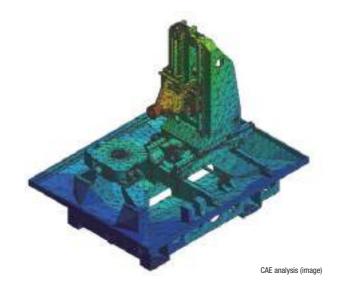
Highly efficient spindle motor

The machine is equipped with a highly efficient spindle motor with a newly developed 12,000 min⁻¹ spec. (standard) or 10,000 min⁻¹ high-torque (max. 92 N·m) spec. (optional). As the spindle can provide high torque in the medium- and high-speed range, the machine demonstrates its full capabilities at high-speed with highly efficient machining of aluminum or steel.



Optimal machine design and highly rigid spindle

Both high speed and high rigidity of the machine has been achieved by optimizing the cast shape utilizing CAE analyses. A newly developed spindle provides higher clamp force than that for previous SPEEDIO models. In addition, the high-torque spindle features the SPEEDIO's largest bearing diameter. With these improvements, the machine demonstrates high machining capabilities from highly efficient machining to heavy-duty machining.



7 MPa Coolant Through Spindle (CTS) (optional) *1

The CTS option can be selected from 3 MPa or 7 MPa. With this option, the machine can operate to its fullest potential in high-speed drilling or deep-hole drilling. *1. 7 MPa CTS option is available only for the BBT spec.







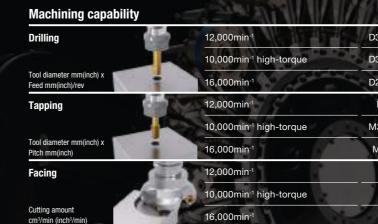
A roller gear cam mechanism is used for the B-axis table. The mechanical clamp

plus servo clamp mechanism provides high clamp torque. This enables the

B-axis clamp torque

*2. Value of mechanical clamp (at pneumatic 0.5 MPa) plus servo clamp





*Data obtained from tests conducted by Brother. *These values are when the X/Y axes are at their travel center. The above machining capabilities may not be achieved under some conditions, depend

The above machining capabilities may not be achieved under some conditions, depending on usage environment,



1. WH				
ADC	Cast iron	Carbon steel		
30 x 0.2 (1.18 x 0.008)	D30 x 0.15 (1.18 x 0.006)	D22 x 0.1 (0.87 x 0.004)		
33 x 0.2 (1.30 x 0.008)	D33 x 0.15 (1.30 x 0.006)	D24 x 0.1 (0.94 x 0.004)		
23 x 0.2 (0.91 x 0.008)	D23 x 0.15 (0.91 x 0.006)	D19 x 0.1 (0.75 x 0.004)		
M27 x 3.0 (1-8UNC)	M24 x 3.0 (7/8-9UNC)	M20 x 2.5 (3/4-10UNC)		
136 x 4.0 (1 3/8-6UNC)	M33 x 3.5 (1 1/4-7UNC)	M27 x 3.0 (1-8UNC)		
M22 x 2.5 (7/8-9UNC)	M22 x 2.5 (7/8-9UNC)	M16 x 2.0 (5/8-11UNC)		
1,200 (73.2)	101 (6.2)	77 (4.7)		
1,920 (117.2)	358 (21.8)	232 (14.2)		
960 (58.6)	960 (58.6) 83 (5.1)			

s in use, and coolant, etc

Equipped with new "CNC-D00" controller for improved usability Enhanced ease of setup and workpiece change

Intuitive operation is possible with new apps and 15-inch vertical LCD touch panel display.

Waste-free operation is possible in setup, machining adjustment, production, and recovery process, leading to improved work efficiency and operating rate. Operability has been enhanced by locating the operation panel on the side of the machine.

New user interface

Usability has been greatly improved by grouping relevant functions, creating new support apps that are intuitive with improved operability and visibility, providing useful accessories (calculator, notebook, file viewer etc.), and making operation on conventional screens possible on the touch panel.



List of support apps

Setup support

Equipped with functions to easily perform setup, such as an ATC tool app that enables all magazine tool settings to be performed on one screen, menu programming that enables you to create NC programs by following instructions on the screen, and an on-screen help function.



ATC tool app

Workability

The operation panel is located on the side of the machine to enhance visibility and make setup easier. In addition, a large front door opening width is secured, and a rotary table switch (optional) has been prepared to make workpiece change easier.





658mm



Equipped with functions to easily perform optimal machining adjustment to improve productivity, such as a machining parameter adjustment app that enables you to easily adjust parameters according to machining details and a machining load waveform display/saving function.



Waveform display app



Equipped with functions to improve the operating rate, such as real time tool monitoring to eliminate defects, displaying production performance, power consumption etc. as a graph, and PLC/network functions to meet peripheral equipment and automation requirements.



Production performance app



Equipped with functions to prevent failure or ensure quick recovery, such as maintenance time notice. displaying details when an alarm occurs, and guidance for recovery/check work.



Recovery support app





11

Chip shower (side of machine

Reliability that ensures high productivity Provides high environmental performance to contribute to carbon neutrality

High reliability has been achieved by thorough evacuation and efficient handling of chips, and maintenance functions to prevent failures. Low power and air consumption greatly reduces CO₂ emissions, providing high environmental performance.

Chip evacuation performance

Designed to enhance chip evacuation performance to prevent problems caused by chips.

Center trough structure

The inclined base and the center trough structure effectively evacuate chips that fall on the base to the outside of the machine.

Head shower (optional) *1

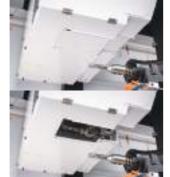
A head shower is available to remove chips from the spindle head. *1. Included with the coolant nozzle (optional).





Magazine cover ATC shutter

The magazine is separated from the machining area by a shutter to minimize the effect of chips on tools.



Chip conveyor (optional)

The hinge and scraper type chip conveyor with drum filter evacuates chips in a variety of sizes and shapes.

Chip shower (optional)

Chip shower pipes are located at the upper section inside the machine for more efficient flow, and flexible shower nozzles can be directed to the side of the machine cover or sections where chips tend to accumulate.

Tool washing, air-assisted type (optional)

When changing tools, air-assisted high discharge pressure and discharge amount steadily remove chips attached to the holder.

Reliability and maintenance functions

The machine is equipped with many maintenance functions that can prevent possible defects in production sites, and functions that assist with recovery in the case of problems.

ATC tool monitoring

The presence of a spindle tool is checked before and after tool change without using a sensor.



Machining load monitoring

Machining load applied to the spindle is monitored to issue an alarm when the load is not within the preset range.



Maintenance notice

Notifies operators of maintenance related issues in advance, such as greasing time.



Alarm log

Displays alarm log details to help identify the cause.



Environmental performance

Provides excellent environmental performance, including low power and air consumption, to achieve carbon neutrality.

Roof-shape telescopic cove

Low power consumption

In addition to the low inertia spindle and highly efficient spindle motor, the machine is equipped with various energy saving functions to lower power consumption.

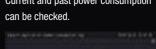
Power regeneration system

Reuses the energy generated when the servomotor decelerates.

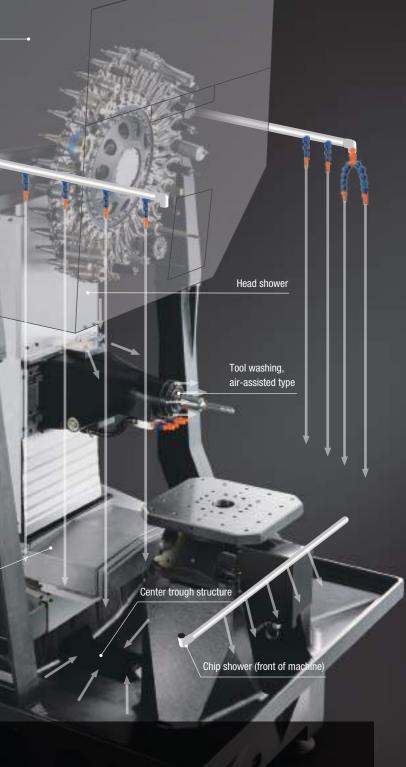
Power consumption app

Current and past power consumption

Highly efficient spindle motor Energy-saving pump LED work light **Energy-saving NC functions** Automatic coolant off Automatic work light off Standby mode Automatic power off





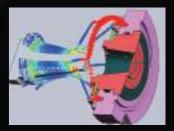


Low air consumption

Air related functions have been reviewed and optimized to eliminate any waste, leading to reduction in air consumption.

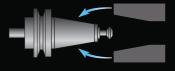
Air purge

A highly airtight structure achieved through repeated flow rate analysis reduces the amount of air used.



Spindle air blow

Amount of air used is reduced by discharging three times the conventional volume of air only when required.





Chip conveyor A two-step structure (hinged plate and scrapper) is used, enabling evacuation of chips in a variety of sizes and shapes. An oil skimmer can be added.



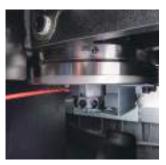
Coolant tank with chute Coolant flows through the chute to evacuate chips. The chute can be separated from the coolant tank, making maintenance easier.



Coolant Through Spindle (CTS) Can be selected from 3 MPa or 7 MPa. Pump and tank are not included. * 7 MPa CTS option is available only for the BBT spec.



Head coolant nozzle with head shower Coolant can reliably be applied to the machining section as the tool and nozzles are set in place. In addition, a head shower is provided to remove chips from the head.



Rotary joint

Provided with 9+1 ports and built into the B-axis table, making jig mounting easier. 9 ports: Hydraulic (7 MPa) / Pneumatic (1 MPa) 1 port (center): Coolant (0.3 MPa)

Tool washing, air-assisted type

High discharge pressure and flow rate

efficiently remove chips attached to the

function

holder. Equipped with a filter clog warning



Chip shower

Chip shower pipes are located at the upper section inside the machine for more efficient flow and flexible shower nozzles can be directed to the side of the machine cover or sections where chips tend to accumulate.



Fixture shower valve unit Consists of jig washing valves and pipes to the ceiling of the machine. Pipes from the machine to the required location must be prepared by customers.

save energy. Locating two lamps at optimal

positions helps work from the front or side

* Work light (1 lamp) can be selected.

of the machine



Cleaning gun Helps clean the workpiece or chips inside the machine after machining.



Signal light (1, 2, or 3 lamps) LED lamps are used. No maintenance required. Can be tilted to improve visibility.

Please read the instruction manuals and safety manuals before using Brother products for your own safety.

When using oil-based coolant or when machining materials which can cause a fire (ex. magnesium, resin), customers are requested to take thorough safety measures against fire. The types of cutting material, cutting tools, coolant, or lubrication oil may have an influence on the machine's lifecycle.

For further questions, please contact our sales representative.

- I eave 700 mm between machines as maintenance space.
- •When exporting our machine, the machine is deemed to be included in the "applicable listed items" controlled by the Foreign Exchange and Foreign Trade Law of Japan. When exporting the machine, please obtain required permissions, including an export license, from the Ministry of Economy, Trade and Industry (METI) or Regional Bureaus of Economy, Trade and Industry before shipment. When re-selling or re-exporting the machine, you may need to obtain permissions from METI, and the government of the country where the machine is installed.
- •When exporting our machine together with additional 1-axis rotary table (including case that a rotary table is scheduled to be installed overseas), as a machine conforming to Row 2 of Appended Table 1 of Export Trade Control Order, a relocation detection device is installed on the machine depending on the destination country. After relocating the machine with the detection device, the machine is locked and any operation is temporarily impossible.
- Please inform your local distributor of machine relocation in advance and apply to perform the release operation of relocated machine. • In order to operate our machine with an additional axis rotary table installed separately overseas after exporting the machine, the procedure to activate the axis of rotary table is needed. Please inform your local distributor of these processes in advance, because the predetermined procedure is required to perform the activation. In addition, for export to some countries and regions other than "Group A countries", it is not possible to install an additional 1-axis rotary table separately overseas after exporting the machine. Please make sure to obtain the export license of the machine together with additional 1-axis rotary table before shipment.



Automatic oil lubricator Regularly applies oil to all lubricating points on the three axes. * Automatic oil lubricator or automatic grease lubricator must be selected. Manual greasing is not available.



Automatic grease lubricator

points on the three axes.

greasing is not available.

Regularly applies grease to all lubricating

grease lubricator must be selected. Manual

* Automatic oil lubricator or automatic

Tool breakage detector, touch type A cable is provided for the manual pulse A touch switch type tool breakage detector generator, making setup easier, Equipped is available. with emergency stop and enable switches.

Master on circuit

required separately.

attached.

Master on circuit and switch can be

* A switch panel (8 holes or 10 holes) is



Front switch panel (10 holes) A 10-hole switch panel is available so that various switches, including automatic door open/close switches can be located on the front of the machine

Coolant tank

1) Coolant tank with chute, 200L 2) Coolant tank with chute, 200L for 1.5 MPa CTS pump with cyclone filter 3) Chip conveyor tank, 360L 4) Chip conveyor tank, 360L with oil skimmer 5) Chip conveyor tank 360L for 1.5 MPa CTS pump with cyclone filter

- 6) Chip conveyor tank, 360L for 1.5 MPa CTS pump with cyclone filter and oil skimmer
- Coolant through spindle (CTS) piping, Max. 3 MPa
- Coolant through spindle (CTS) piping, Max. 7 MPa
- ·Head coolant nozzle with head shower
- Rotary joint, 9+1 ports Chip shower
- Tool washing, air-assisted type
- Fixture shower valve unit
- Cleaning gun
- Mesh basket for collecting chips
- Side cover with transparent window, one side

*The type of coolant may have a significant influence on the machine's lifecycle. It is recommended to use high-lubricity (emulsion type) coolant. Do not use chemical solution type (synthetic type) coolant, as it may cause damage to the machine. *When using CTS (Coolant Through Spindle) function, do not use flammable coolant (ex. oil-based type).

LED lamps are used to extend lamp life and



External light is drawn in to make the inside of the machine brighter and improve visibility





Automatic door with switch panel 10 holes A motor-driven door is used, achieving smooth operation.





Optical area sensors are used. Use area sensors to prevent operators being caught in the automatic door.



Rotary table switch

The B-axis table or additional axes can be operated from the front of the machine. Changing workpieces is easier when performing multi-part machining or similar.



Spindle override Spindle speed can be changed without changing the program.



Data protection switch, key type Changing the operation level is enabled or disabled by the key.

•Work light (1 or 2 lamps)

Automatic oil lubricator

Additional axis cable

•Spindle override

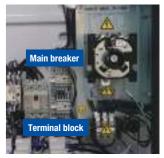
Master on circuit

Folding door (two-door)

Area sensor

•Signal light (1, 2, or 3 lamps)

- Automatic grease lubricator Automatic door with switch panel 10 holes
- Switch panel (8 holes or 10 holes)
- Front switch panel (10 holes) Manual pulse generator with enable switch
- Connector and hook for manual pulse generator with enable switch •Tool breakage detector, touch type
- Rotary table switch (for B-axis, for additional axes)
- RS232C 25-pin connector at control box
- Data protection switch, key type

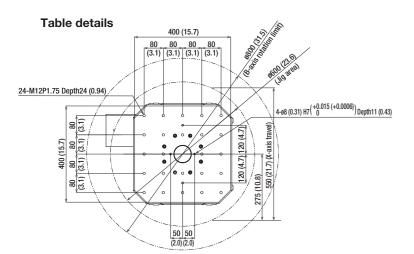


Power supply expansion 50A

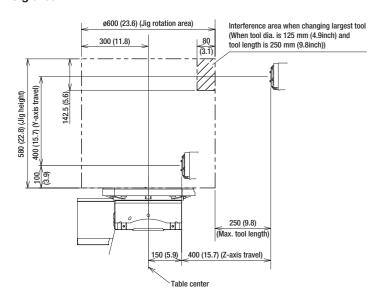
The capacity of the main breaker can be increased from 30A to 50A. The size of the relevant wiring increases accordingly. A terminal block for external equipment power supply is provided under the main breaker.

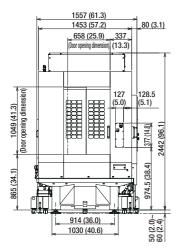
- Parts name sticker set
- Origin alignment mark
- 100V outlet in control box
- Power supply expansion 50A Transformer box
- Specified color
- EXIO board assembly
- 1) EXIO board, input 32/output 32, additional #1
- 2) EXIO board, input 32/output 32, additional #2
- PLC programming software for D00
- Industrial network 1) CC-Link master station
- 2) CC-Link, remote device station
- 3) PROFIBUS-DP, slave
- 4) DeviceNet, slave
- 5) PROFINET, slave
- 6) EtherNet/IP, slave
- Memory expansion 3 Gbytes

H550Xd1 External Dimensions / Specifications



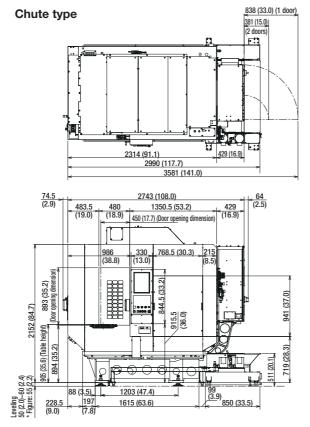
Jig area



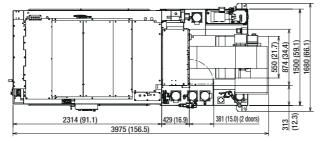


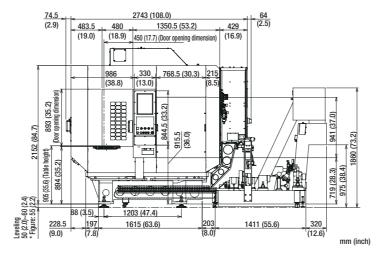
NC unit specifications

CNC model	CNC-D00				
Control axes	5 axes (X, Y, Z, 2 additional axes)				
Simultaneously controlled axes	Positioning	5 axes (X, Y, Z, 2 additional axes)			
	Interpolation	Linear: 4 axes (X, Y, Z, 1 additional axis)			
		Circular: 2 axes			
		Helical/Conical: 3 axes (X, Y, Z)			
Least input increment	0.001 mm, 0.0001 inch, 0.001 deg.				
Max. programmable dimension	±999999.999 mm, ±99999.9999 inch				
Display	15-inch color LCD touch display				



Chip conveyor type





Memory capacity	500 Mbytes, 3 Gbytes (optional)		
	(Total capacity of program and data bank)		
External communication	USB memory interface, Ethernet, RS232C (optional)		
No. of registrable programs	4,000 (Total capacity of program and data bank)		
Program format	NC language *Conversational language not available		

**Control axes" and "Simultaneously controlled axes" indicate the maximum number of axes, which will differ depending on the destination country and the machine specifications.

*Ethernet is a registered trademark of Xerox Corporation in the United States.

Machine specifications

Item			H550Xd1/H550Xd1 RD *8			
CNC Unit			CNC-D00			
	X axis	mm(inch)	550 (21.7)			
	Y axis	mm(inch)	400 (15.7)			
Travels	Z axis mm(inch)		400 (15.7)			
	B axis deq.		360			
	Distance between table top and spindle center mm(inch)		100~500 (3.9~19.7)			
	Distance between table center and spind	e nose end mm(inch)	150~550 (5.9~21.7)			
	Work area size mm(inch)		400 (15.7) x 400 (15.7)			
Table	Max. loading capacity kg(lbs)		300 (661)			
	Max. table load inertia	kg·m ² (lb·inch ²)	3.4 (11,618) [5.4 (18,453) *10]			
	Spindle speed min ⁻¹		12,000min ⁻¹ specifications: 1~12,000, 16,000min ⁻¹ specifications (optional): 1~16,000			
	- F F		10,000min ⁻¹ high-torque specifications (optional): 1~10,000			
	Speed during tapping min ⁻¹		MAX. 6.000			
Spindle	Tapered hole		7/24 tapered No.30			
	BT dual contact spindle (BIG-PLUS		Optional			
	Coolant Through Spindle (CTS)		Optional			
	Rapid traverse rate (XYZ-area) m/min(inch/min)		50 x 56 x 56 (1,969 x 2,205 x 2,205)			
Feed rate	Cutting feed rate mm/min(inch/min)		X, Y, Z axis: 1~30,000 (0.04~1,181) *7			
000 1000	Indexing feed rate (B)	min ⁻¹	100 (85 *10)			
	Tool shank type		MAS-BT30			
	Pull stud type *4		MAS-P30T-2			
	Tool storage capacity pcs.		30			
ATC unit	Max. tool length	mm(inch)	250 (9.8)			
	Max. tool diameter	mm(inch)	125 (4.9) *11			
	Max. tool weight *1	kg(lbs)	4.0 (8.8) / tool, <total (110.2)="" 50="" tool="" weight:=""></total>			
	Tool selection method	Kg(ib3)	Random shortcut method			
	Tool To Tool	sec.	1.1			
Tool change time *5	Chip To Chip Sec.		2.4			
	Main spindle motor (10min/continu		12.000min ⁻¹ specifications: 10.1/7.0, 16,000min ⁻¹ specifications (optional): 7.4/5.1			
Electric motor		1003) 2 KW	10.000min ⁻¹ high-torque specifications (optional): 12.8/9.2			
	Axis feed motor	kW	X.Z axis: 1.0 Y axis: 1.8 B axis: 1.8			
	Power supply		AC 200 to 230 V±10%, 3-phase, 50/60Hz±2%			
	Power capacity (continuous)	kVA	12,000 min ⁻¹ specifications: 9.5, 16,000 min ⁻¹ specifications (optional): 9.5			
Power source	Fower capacity (continuous)	KVA	10,000min ⁻¹ high-torque specifications (optional): 10.4			
rower source	Poqular air propura	MDo	0.4~0.6 (recommended value 0.5MPa *6)			
	Air supply Regular air pressure	MPa				
	Required flow	L/min	45			
Maakina dimana's s	Height	mm(inch)	2,497 (98.3)			
Machine dimensions	Required floor space*9 [with control unit door open] mm(inch)		1,557 x 2,743 [3,581] (61.3 x 108.0 [141.0])			
	Weight	kg(lbs)	2,850 (6,284)			
	Accuracy of bidirectional axis positioning (IS0230-2:1988)		X, Y, Z axis: 0.006~0.020 mm (0.00024~0.00079 inch)			
Accuracy *3		(IS0230-2:2014)	B axis: 28 sec or less			
	Repeatability of bidirectional axis position	oning (ISO230-2:2014)	X, Y, Z axis: Less than 0.004 mm (0.00016 inch) B axis: 16 sec or less			
Standard accessories			Instruction Manual (DVD 1 set), leveling bolts (4 pcs.), leveling plate (4 pcs.)			

*1. Actual tool weight differs depending on the configuration and center of gravity. The figures shown here are for reference only. *2. Spindle motor output differs depending on the spindle speed. *3. Measured in compliance with ISO standards and Brother standards. Please contact your local distributor for details. *4. Brother specifications apply to the pull studs for CTS. *5. Measured in compliance with JIS B6336-9 and MAS011-1987. *6. Regular air pressure varies depending on the machine specifications, machining program details, or use of peripheral equipment. Set the pressure higher than the recommended value. *7. Value when using high accuracy mode B. *8. The machine needs to be equipped with a relocation device depending on the destination. Machines equipped with a relocation detection device come with "BD" at the end of the model name. *9. Dimensions not including the coolant tank and chip conveyor. *10. Value in high inertia mode. Parameter setting needs to be changed. *11. When attaching an adjacent tool, the total diameter of a tool and its adjacent tool must be less than 130 mm.

NC functions

Operation	Dry run		<0ptional>		Built-in PLC (LD/ST/FBD)	NC language	Menu programming
	Machine lock		High accuracy mode BII		<0ptional>	functions	Local coordinate system
	Program restart		(Look-ahead 1,000 blocks,		CC-Link, master station		Expanded workpiece coordinate syster
	Rapid traverse override		smooth path offset)		CC-Link, remote device station		One-way positioning
	Cutting feed override	Monitoring	Machining load monitoring		PROFIBUS-DP, slave		Inverse time feed
	Background editing		ATC tool monitoring	Energy saving	DeviceNet, slave		Programmable data input
	Screen shot		Overload prediction		PROFINET, slave		Tool length compensation
	Operation level		Waveform display / Waveform		EtherNet/IP, slave		Cutter compensation
	External input signal key		output to memory card		Automatic power off		Scaling
	Shortcut keys		Heat expansion compensation		Standby mode		Mirror image
	<0ptional>		system II (X, Y, and Z axes)		Automatic coolant off		External sub program call
	Spindle override		Production performance display		Automatic work light off		Macro
Programming	Absolute / Incremental		Tool life / Spare tool		Chip shower off delay		Operation in tape mode
	Inch / Metric	Maintenance	Tap return function	Support apps	Adjust machine parameters		Multiple skip function
	Coordinate system setting		Status log		ATC tool		<0ptional>
	Corner C / Corner R		Alarm log		Tool life		Submicron command
	Rotational transformation		Operation log		Waveform display		Interrupt type macro
	Synchronized tap		Maintenance notice		Production performance		Rotary fixture offset
	Subprogram		Motor insulation resistance		Power consumption		Feature coordinates setting
	Graphic display		measurement		Recovery support		Involute interpolation
Measurement	Automatic workpiece measurement *1		Tool washing filter with filter		Inspection		
	Tool length measurement		clogging detection		PLC		
High speed and	Machining parameter adjustment		Battery-free encoder	Accessories	File viewer		
high accuracy	High-accuracy mode AllI		Brake load test		Notebook		
	High-accuracy mode BI	Automatic /	Computer remote		Calculator		
	(look-ahead 160 blocks)	Network	OPC UA		Register shortcut		
	Backlash compensation		Auto notification		Display off		

*1. Measuring instrument needs to be prepared by users

Global Service Sites

Brother Technology Center Chicago

BROTHER INTERNATIONAL CORP. 2200 North Stonington Avenue, Suite 270, Hoffman Estates, IL 60169, U.S.A. PHONE:(1)224-653-8415 FAX:(1)224-653-8821

Brother Technology Center Frankfurt

BROTHER INTERNATIONALE INDUSTRIEMASCHINEN GmbH Hoechster Str.94, 65835 Liederbach, Germany PHONE:(49)69-977-6708-0 FAX:(49)69-977-6708-80

Brother Technology Center Bengaluru

BROTHER MACHINERY INDIA PVT LTD. SB-111-112, 1st Stage, 2nd Cross, Peenya Indi Estate, Bengaluru - 560058 Karnataka, India PHONE:(91)80-43721645

Brother Technology Center Shanghai

BROTHER MACHINERY (SHANGHAI) LTD. Unit 01, 5/F., No.799, West Tianshan Rd., ChangNing District Shanghai 200335, China PHONE:(86)21-2225-6666 FAX:(86)21-2225-6688

Brother Technology Center Chongqing

BROTHER MACHINERY (SHANGHAI) LTD. Room 30, 31, N0.104 Cuibai Road, Dadukou District, Chongqing Province, 400084, China PHONE:(86)23-6865-5600 FAX:(86)23-6865-5560

Nanjing Office

BROTHER MACHINERY (SHANGHAI) LTD. 503 Room,Building No.1,No.39,Dongcun Road,Jiangning District,Nanjing City, Jiangsu Province, China PHONE:(86)25-87185503

Brother Technology Center Queretaro

BROTHER INTERNATIONAL DE MÉXICO, S.A. DE C.V. Calle 1 No.310 Int 15, Zona Industrial Jurica, Parque Industrial Jurica, Queretaro, QRO C.P. 76100 México PHONE:(52)55-8503-8760 FAX:(52)442-483-2667

Brother Technology Center Bangkok

BROTHER COMMERCIAL (THAILAND) LTD. 317 Pattanakarn Road, Pravet Sub-District, Pravet District, Bangkok 10250, Thailand PHONE:(66)2321-5910 FAX:(66)2321-5913

Gurugram Service Center

BROTHER MACHINERY INDIA PVT LTD. CE SERVICED OFFICES PVT. LTD., DLF CYBER HUB, Building No 10, Tower A, Level 1, Phase 3, DLF Cyber City, Gurugram - 122002 Haryana - India PHONE:(91)80-43721645

Brother Technology Center Dongguan

BROTHER MACHINERY (SHANGHAI) LTD. Room 103, Building 1, No.2 Nanbo Road, Songshan Lake District, Dongguan City, Guangdong Province, China PHONE:(86)769-2238-1505 FAX:(86)769-2238-1506

Brother Technology Center Ningbo

BROTHER MACHINERY (SHANGHAI) LTD. 1F, Building 1, No. 102, Hongtang South Road West Section, Jiangbei District, Ningbo City, Zhejiang Province, China PHONE:(86)574-87781232 FAX:(86)574-88139792

Figures in brackets () are the country codes.



Please check here for detailed information and the latest information of the base.

https://machinetool.global.brother/

Specifications may be subject to change without any notice.

BROTHER INDUSTRIES, LTD.

Machinery Business Division

1-5, Kitajizoyama, Noda-cho, Kariya-shi, Aichi-ken 448-0803, Japan https://www.brother.co.jp

