

Compact Machining Center
SPEEDIO

brother
at your side

S700X2
S500X2
S300X2



SPEEDIO

Never Ends its Evolution!

SPEEDIO models respond to customers' requirements.

To make them essential in your process as expressed in our "Brother also in this process" concept, hidden areas have greatly been improved with minimum changes to the exterior, striving for higher productivity and higher reliability.

High Productivity

High Machining Capabil

High Operability

High Reliability

SPEEDIO S300X2



SPEEDIO S700X2



SPEEDIO S500X2



Photos show machines with a 21-tool magazine.
The magazine cover is not provided for a 14-tool magazine.

Basic specifications

Max. spindle speed (min ⁻¹)	10,000
	10,000 high-torque (optional)
	16,000 (optional)
	27,000 (optional)
Travels (mm)	S700X2 X700 Y400 Z300
	S500X2 X500 Y400 Z300
	S300X2 X300 Y400 Z300
Tool storage capacity (pcs.)	14 / 21
Rapid traverse rate (m/min)	X / Y / Z 50 / 50 / 56
Required floor space (mm)	S700X2 2,050 × 2,223
	S500X2 1,560 × 2,223
	S300X2 1,080 × 2,463
BT dual contact spindle (BIG-PLUS)	Optional
Coolant Through Spindle (CTS)	Optional

* CTS cannot be selected for 27,000 min⁻¹ specification models.

High Productivity

Achievement of high acceleration and high responsiveness through machine/controller integrated development and complete elimination of wasted operation and wasted time enable the machine to fully demonstrate its abilities, resulting in high productivity.

Pursuit of high productivity

Z-axis acceleration : **2.2G**

Fastest acceleration in its class

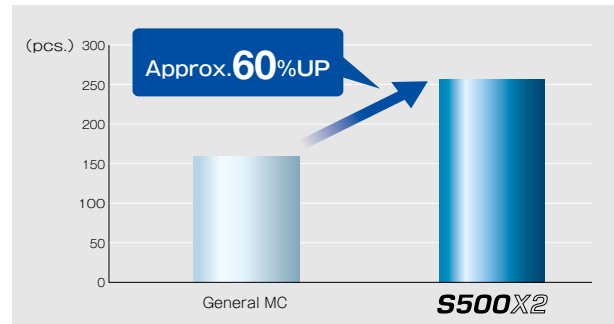
Shorter cycle time has been achieved by the fastest Z-axis acceleration in its class and the low-inertia spindle servomotor.
(Except 27,000 min⁻¹ specification models)

Improved productivity : **3% or more** (compared to previous model)

*Varies depending on machining programs or machining conditions.

Comparison of productivity

● Example of machining program created by Brother



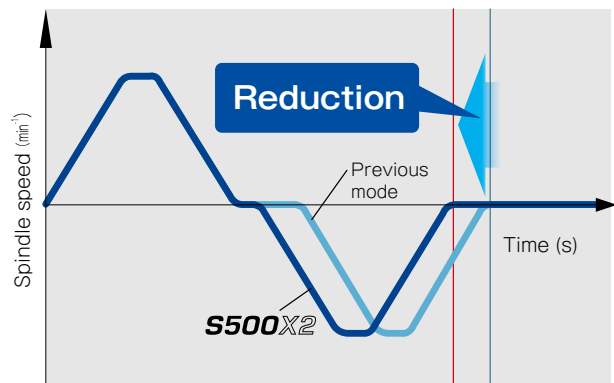
Highly-responsive servomotor

High-speed synchronized tapping at the fastest level in the world has been tuned further. Tapping can be completed in shorter time at high accuracy.



Comparison of cycle time in tapping

● Image of tapping cycle



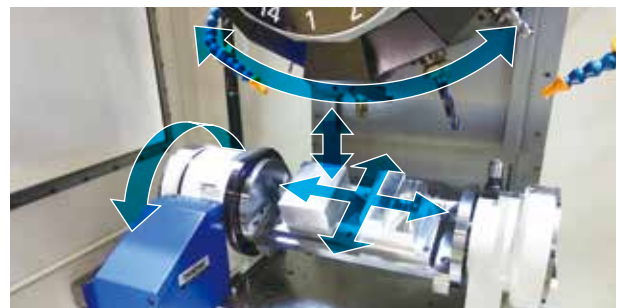
Non-stop ATC

Tool change time has been minimized by the increased Z-axis speed, in addition to the short spindle start/stop time.

	Previous model	S500X2
Tool - Tool :	0.8s	0.7s
Chip - Chip :	1.4s	1.3s

Simultaneous operation control

Reduction in non-cutting time has been achieved by simultaneously performing tool change and positioning X/Y and additional axes.

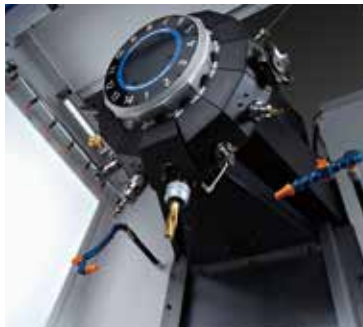


High Machining Capabilities

Improved machine rigidity, diverse spindle motors, and high performance and a highly functional NC controller ensure a broad range of machining, from high-speed machining to heavy-duty machining.

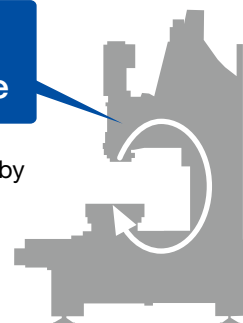
Highly rigid structure

To improve rigidity, an effective machine structure has been established based on accumulated engineering analysis data.



Rigid C-shaped machine structure

Rigidity has been enhanced by stress path reduction, especially for the Z-axis.



High-power spindle motor

Medium- and high-speed characteristics for high efficiency machining

Low-speed characteristics optimal for heavy-duty machining



● Grooving using standard specs
 Machining details: ● Cutting amount: 150 cc/min
 ● Material: Carbon steel (for ø16 end mill)



● Large hole drilling using high-torque specs
 Machining details: ● Hole diameter: ø40 mm
 ● Material: Carbon steel

Spindle motor torque values

Standard specifications

Max. torque : **40 Nm**
(momentary)

Max. output : **18.9 kW**

High-torque specifications (optional)

Max. torque : **92 Nm**
(momentary)

Max. output : **26.2 kW**

High-speed three dimensional machining

In addition to the high-speed spindle specifications, high-speed and highly accurate three-dimensional machining has been achieved by Brother's original three-dimensional machining control equipped with a 200-block look-ahead function and smooth path offset function.

High-speed Spindle specs. (optional) : Max. speed. **27,000 min⁻¹**

High accuracy mode BI (standard) : Look-ahead **40 blocks**

High accuracy mode BII (optional) : Look-ahead **200 blocks**



Operability and Reliability

Functions of Brother's original usability-focused controller "CNC-C00 Series" have been further enhanced to make it more user-friendly.

Operability



Equipped with tool monitoring functions

■ ATC monitoring

The presence of a spindle tool is detected without using a sensor.

■ Waveform output to memory card

Torque waveform data can be output to a memory card (CSV format).

■ Simple setting of high accuracy mode

Parameters used for machining can easily be adjusted.



■ Control box size

Space has been increased for system expansion in case of automation etc.



■ PLC function

Standard equipped with PLC. Input and output points can be expanded to up to 1,024 points each (optional).



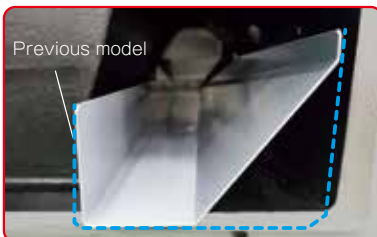
Reliability has been improved by implementing various improvements to prevent accumulation of chips and entry of coolant mist that can cause machine stoppage.

Reliability

Improved chip flow

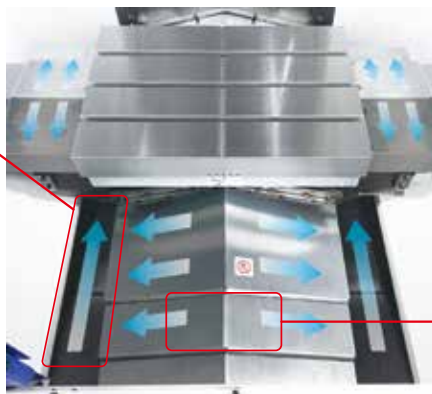
■ Use of roof shape telescopic cover

Roof shape telescopic covers are used for X- and Y-axes to facilitate chip flow. The shape of the chip flow path from the machining room to the tank is optimized to improve chip discharge performance.



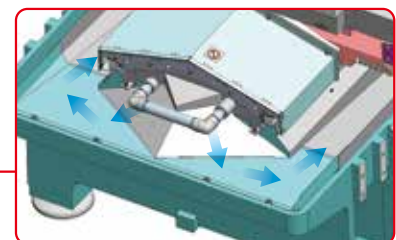
■ Shape of chip flow path

Chip discharge performance improved by increasing the flow rate



■ Y-axis telescopic cover (lower)

Chip discharge performance improved by optimizing the plate shape and adding piping

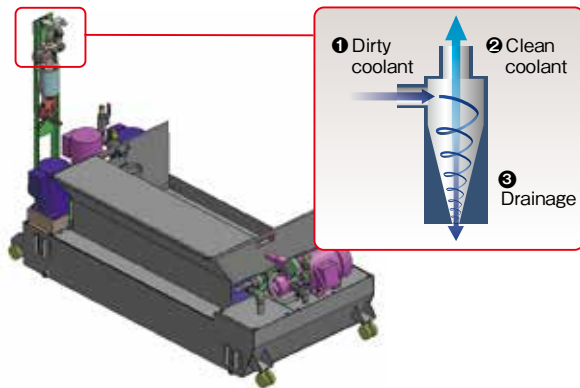


Reliability, Machining Capabilities, and Rotary Table

Improved chip handling

Tank with cyclone filter (special option for CTS)

Coolant is returned to a clean tank through a tank with a cyclone filter with fine chips removed. This reduces the filter change frequency and extends the service life of the pump.

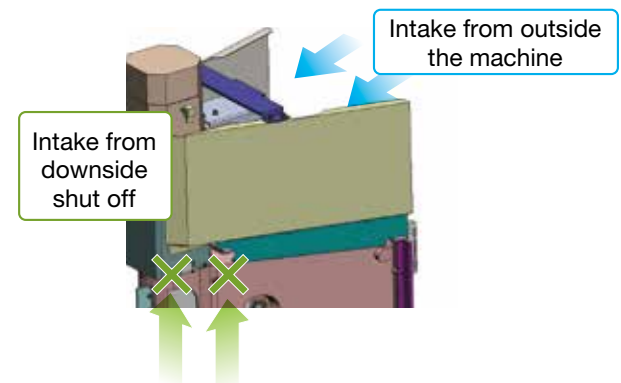


Improved coolant mist handling

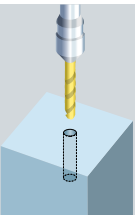
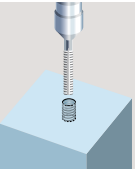
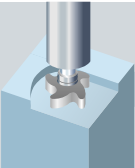
Improved motor cooling air flow

A cover is installed to improve the air flow to the spindle motor fan. Intake of mist is reduced, leading to extended motor service life.

Intake of mist :
Approx.
70%Less



Machining capability

		ADC	Cast iron	Carbon steel
Drilling  Tool diameter mm (inch) x Feed mm (inch)/rev	10,000min ⁻¹	D32(1.26)×0.2(0.008)	D28(1.1)×0.15(0.006)	D25(0.98)×0.1(0.004)
	10,000min ⁻¹ high-torque	D40(1.57)×0.2(0.008) D30(1.18)×0.7(0.03)	D34(1.34)×0.15(0.006) D26(1.02)×0.4(0.02)	D30(1.18)×0.15(0.006) D26(1.02)×0.25(0.01)
	16,000min ⁻¹	D24(0.94)×0.2(0.008)	D22(0.87)×0.15(0.006)	D18(0.71)×0.1(0.004)
	27,000min ⁻¹	D20(0.79)×0.2(0.008)	D19(0.75)×0.15(0.006)	D17(0.67)×0.1(0.004)
Tapping  Tool diameter mm (inch) x Pitch mm (inch)	10,000min ⁻¹	M27 × 3.0(1-8UNC)	M24 × 3.0(7/8-9UNC)	M16×2.0(5/8-11UNC)
	10,000min ⁻¹ high-torque	M39×4.0(1 1/2-6UNC)	M33×3.5(1 1/4-7UNC)	M27×3.0(1-8UNC)
	16,000min ⁻¹	M22×2.5(7/8-9UNC)	M18×2.5(5/8-11UNC)	M14×2.0(1/2-13UNC)
	27,000min ⁻¹	M22×2.5(7/8-9UNC)	M18×2.5(5/8-11UNC)	M12×1.75(7/16-14UNC)
Facing  Cutting amount cm ³ /min (inch ³ /min)	10,000min ⁻¹	960(58.6)	137(8.4)	100(6.1)
	10,000min ⁻¹ high-torque	1,700(102.4)	255(15.5)	200(12.2)
	16,000min ⁻¹	660(40.3)	73(4.5)	48(2.9)
	27,000min ⁻¹	600(36.6)	45(2.7)	24(1.5)

*The data is Brother's actual test data.

Rotary table T-200



Feature 1 High productivity

High acceleration and fast rotation ensure smooth operation even for jigs with a large unbalanced load.

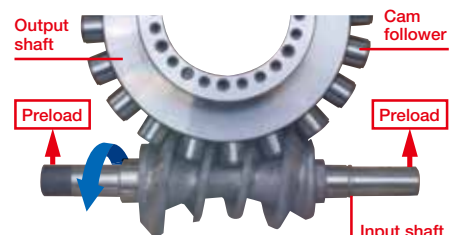
Feature 2 High accuracy

Preload applied between the input shaft and the output shaft achieves zero-backlash.

Feature 3 Extended service life

As very little abrasion on the input shaft and output shaft occurs due to rolling contact, adjustment is unnecessary for long periods.

Use of roller gear cam mechanism



Optional Specifications



Coolant unit

Can be selected from 50L, 100L, or 150L depending on the purpose.
(Photo: 150L tank with chip shower)



Coolant Through Spindle (CTS)

1.5 MPa CTS used for BT spindle.
*Please consult your local distributor for use of 3 MPa CTS.
*CTS cannot be selected for 27,000 min⁻¹ models.



High accuracy mode BII (look-ahead 200-blocks)

Equipped with a 200-block look-ahead function to achieve high-speed and highly accurate three-dimensional machining. Also equipped with the "smooth path offset function" to improve machining quality.



Tool washing (air-assisted type)

High discharge pressure and flow rate efficiently remove chips attached to the holder. Equipped with a filter clog warning function



LED work light (1 or 2 lamps)

LED lamps are used to extend lamp life and save energy.



Head coolant nozzle

Coolant can reliably be applied to the machining section as the tool and nozzles are set in place.



Side cover (transparent board type)

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



Tool breakage detector (touch type)

A touch switch type tool breakage detector is used.



Automatic grease lubricator

Regularly greases all greasing points on the three axes.
*Manual greasing applies to the standard specification model.

* Depending on the type of coolant, it may have a significant influence on the machine lifecycle. It is recommended to use the coolant which is commercially designated as high lubricity, for example Emulsion type. Especially, the coolant of chemical solution type (ex. Synthetic type) is prohibited to use, because it may cause machine damages.
* When using CTS (Coolant Through Spindle) function, usage of the coolant of combustible type (ex. Oil-based type) is prohibited.

Optional Specifications

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| <ul style="list-style-type: none"> ● Coolant unit <ul style="list-style-type: none"> ① 50L
(With valve, Pump: 180W) ② 100L
(With chip shower and valve, Pump: 250W×2) ③ 150L
(With chip shower and valve, Pump: 250W+400W) ④ 150L
(With chip shower, CTS, and valve, Pump: 250W+400W+650W) ⑤ 150L
(With cyclone filter, chip shower, CTS, and valve) ● Coolant Through Spindle (CTS) ● Mesh basket for chips ● Head coolant nozzle | <ul style="list-style-type: none"> ● Tool washing (air-assisted type) ● Tool breakage detector (touch type) ● Chip shower ● Cleaning gun ● Jig shower valve unit ● Back washing system (for CTS) ● Rotary table T-200 ● Automatic oil lubricator ● Automatic grease lubricator ● LED work light (1 or 2 lamps) ● Indicator light (1, 2, or 3 lamps) ● Automatic door (motor-driven) ● Area sensor ● Specified color ● Manual pulse generator | <ul style="list-style-type: none"> ● B-axis cord ● Spindle override ● High column (150 mm, 250 mm) ● Grip cover ● Top cover ● Side cover (transparent board type) ● RS232C (25 pin) for control box ● Operation preparation circuit ● 100V outlet (in control box) ● Power supply expansion ● Expansion I/O board (EXIO board) <ul style="list-style-type: none"> ① EXIO board assembly ② Additional EXIO board assembly ● Switch pane (8 holes, 10 holes) ● Memory expansion (approx. 500 Mbytes) | <ul style="list-style-type: none"> ● High accuracy mode BII (look-ahead 200 blocks, smooth path offset) ● Breaker handle cover ● Fieldbus <ul style="list-style-type: none"> ① CC-Link (remote device station) ② PROFIBUS DP (slave) ③ DeviceNet (slave) ● PLC programming software
(For Windows® XP, Vista, 7, and 8.1) <p><small>Windows® is a trademark or registered trademark of Microsoft Corporation in the United States and/or other countries.
*Please contact your Brother dealer for details.</small></p> |
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Machine Specifications and NC Unit Specifications

Item			S700X2 / S700X2 RD *9	S500X2 / S500X2 RD *9	S300X2 / S300X2 RD *9
CNC Unit			CNC-C00		
Travels	X axis	mm (inch)	700(27.6)	500(19.7)	300(11.8)
	Y axis	mm (inch)		400(15.7)	
	Z axis	mm (inch)		300(11.8)	
	Distance between table top and spindle nose end	mm (inch)	180~480(7.1~18.9)		
Table	Work area size	mm (inch)	800x400(31.4x15.7)	600x400(23.4x15.7)	
	Max.loading capacity (uniform load)	kg (lbs)	250[300 *6] (551[661 *6])		
Spindle	Spindle speed	min ⁻¹	10,000min ⁻¹ specifications : 1~10,000 16,000min ⁻¹ specifications (Optional) : 1~16,000 10,000min ⁻¹ high-torque specifications (Optional) : 1~10,000 27,000min ⁻¹ specifications (Optional) : 1~27,000		
	Speed during tapping	min ⁻¹	MAX. 6,000 (27,000min ⁻¹ specifications : MAX. 8,000)		
	Tapered hole		7/24 tapered No.30		
	BT dual contact system (BIG-PLUS)		Optional		
	Coolant Through Spindle (CTS)		Optional (CTS cannot be selected for 27,000 min ⁻¹ specification models.)		
Feed rate	Rapid traverse rate (XYZ-area)	m/min(inch/min)	50 x 50 x 56(1,969 x 1,969 x 2,205)		
	Cutting feed rate	mm/min(inch/min)	X, Y, Z axis : 1~30,000(0.04~1,181) *7		
ATC unit	Tool shank type		MAS-BT30		
	Pull stud type *4		MAS-P30T-2		
	Tool storage capacity	pcs.	14 / 21		
	Max. tool length	mm (inch)	250(9.8)	160(6.3) [21 tool]	250(9.8) [14 tool]
	Max. tool diameter	mm (inch)	110(4.3)		
	Max. tool weight *1	kg (lbs)	3.0(6.6) / Tool (TOTAL TOOL WEIGHT : 25(55.1) for 14 tools, 35(77.2) for 21 tools)		
	Tool selection method		Random shortcut method		
Tool change time *5	Tool To Tool	sec.	0.7		
	Chip To Chip	sec.	1.3		
Electric motor	Main spindle motor (10min/continuous)*2	kW	10,000min ⁻¹ specifications : 10.1 / 7.1 16,000min ⁻¹ specifications (Optional) : 7.4 / 5.1 10,000min ⁻¹ high-torque specifications (Optional) : 12.8 / 9.2 27,000min ⁻¹ specifications (Optional) : 8.9 / 6.3		
	Axis feed motor	kW	X, Y axis : 1.0 Z axis : 2.0		
Power source	Power supply		AC V±10%, 50/60Hz±1Hz		
	Power capacity (continuous)	kVA	10,000min ⁻¹ specifications : 9.5 16,000min ⁻¹ specifications (Optional) : 9.5 10,000min ⁻¹ high-torque specifications (Optional) : 10.4 27,000min ⁻¹ specifications (Optional) : 9.5		
	Air supply	MPa	0.4~0.6(recommended value : 0.5MPa *8)		
	Regular air pressure	L/min	45(27,000min ⁻¹ specifications : 115)		
Machining dimensions	Height	mm (inch)	2,497(98.3)		
	Required floor space [with control unit door open]	mm (inch)	2,050x2,223 [2,794] (80.7x87.5 [110])	1,560x2,223 [2,794] (61.4x87.5 [110])	1,080x2,463 [2,794] (42.5x96.9 [110])
	Machine weight (including control unit and machine cover)	kg (lbs)	2,400(5,291)	2,250(4,960)	2,200(4,850)
Accuracy *3	Accuracy of bidirectional axis positioning (ISO230-2:1988)	mm (inch)	0.006~0.020 (0.00024~0.00079)		
	Repeatability of bidirectional axis positioning (ISO230-2:2014)	mm (inch)	Less than 0.004 (0.00016)		
Front door			2doors		
Standard accessories	Instruction Manual (1 set), anchor bolts (4 pcs.), leveling plates (4 pcs.), machine cover (manual door)				

*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. *4. Brother specifications apply to the pull studs for CTS. *5. Measured in compliance with JIS B6336-9 and MAS011-1987. *6. Acceleration must be adjusted for X and Y axes. *7. When high accuracy mode B is used (When not used, 1 ~ 10,000 mm/min for X/Y axes and 1 ~ 20,000 mm/min for Z axis) *8. 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. *9. The machine needs to be equipped with a relocation detection device depending on the destination. Machines equipped with a relocation detection device come with "RD" at the end of the model name.

NC unit specifications	
CNC model	CNC-C00
Control axes	5 axes (X,Y,Z, two additional axes)
Simultaneously controlled axes	Positioning 5 axes(X,Y,Z,A,B)
	Interpolation Linear : 4 axes(X,Y,Z one additional axis) Circular : 2 axes Helical/conical : 3 axes(X,Y,Z)
Least input increment	0.001mm, 0.0001inch, 0.001 deg.
Max. programmable dimension	±9999.999mm, ±999.9999inch
Display	12.1-inch color LCD
Memory capacity	Approx. 100 Mbytes (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, conversation (changed by parameter) conversion from conversation program to NC language program available

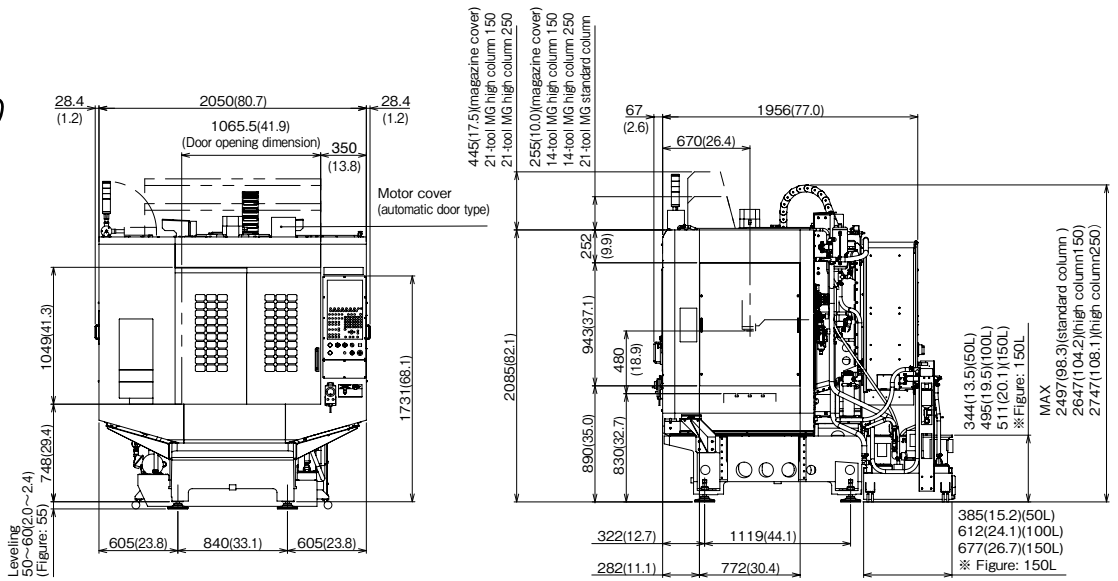
*Number of "control axes" and/or "simultaneously controlled axes" are the maximum number of axes, which will differ depending on the destination country and the machine specifications.
* Ethernet is a trademark or registered trademark of XEROX in the United States.

Standard NC functions		
<ul style="list-style-type: none"> Absolute / incremental Inch / metric Corner C / Corner R Rotational transformation Synchronized tap Coordinate system setting Dry run Restart Backlash compensation Rapid traverse override Cutting feed override Alarm history (1,000 pieces) Startus log Machine lock Computer remote Built-in PLC Motor insulation resistance measurement Operation log Tool monitoring Screen shot Waveform output to memory card Auto notification High-accuracy mode AIII 	<ul style="list-style-type: none"> Tool length measurement Tool life management / spare tool Background editing Graphic display Subprogram Herical / conical interpolation Tool washing filter with filter clogging detection Automatic power off (energy saving function) Servomotor off standby mode (energy saving function) Chip shower off delay Automatic coolant off (energy saving function) Automatic work light off (energy saving function) Heat expansion compensation systemII (X,Y,Z axes) Tap return function Automatic workpiece measurement *1 Waveform display Operation level External input signal key High accuracy mode BI (look-ahead 40blocks) Inverse time feed Spindle load monitoring function 	<ul style="list-style-type: none"> (NC) Expanded workpiece coordinate system Scaling Mirror image Menu programming Programmable data input Tool length compensation Cutter compensation Macro function Local coordinate system One-way positioning Operation in tape mode (Conversation) Operation program Schedule program Automatic tool selection Automatic cutting condition setting Automatic tool length compensation setting Automatic cutter compensation setting Automatic calculation of unknown number input Machining order control
Optional NC functions		
<ul style="list-style-type: none"> Memory expansion (Approx. 500 Mbytes) High accuracy mode BII (look-ahead 200 blocks, smooth path offset) Spindle override High-speed processing *2 	<ul style="list-style-type: none"> (NC) Submicron command *3 Interrupt type macro Rotary fixture offset 	

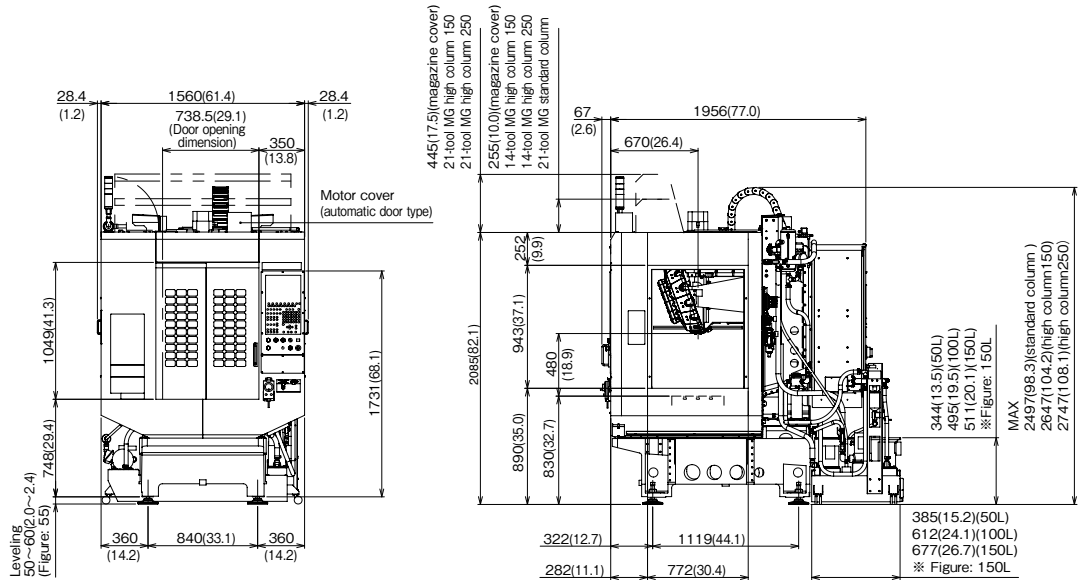
*1. Measuring instrument needs to be prepared by users. *2. Minute block processing time can be changed.
*3. When the submicron command is used, changing to the conversation program is disabled.
*Functions listed under (NC) and (Conversation) are available only for NC programs and conversation programs respectively.

External Dimensions

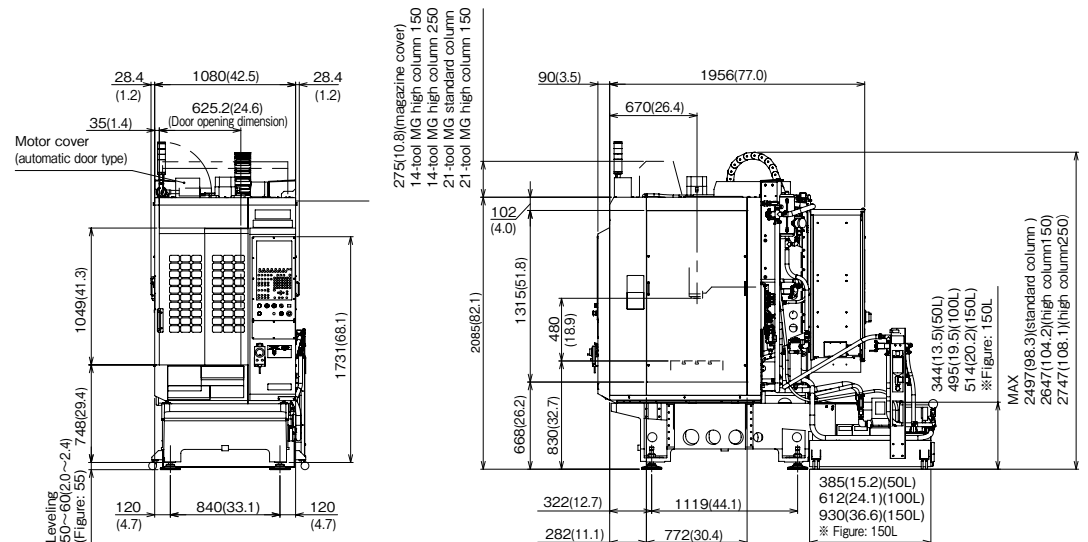
SPEEDIO S700X2

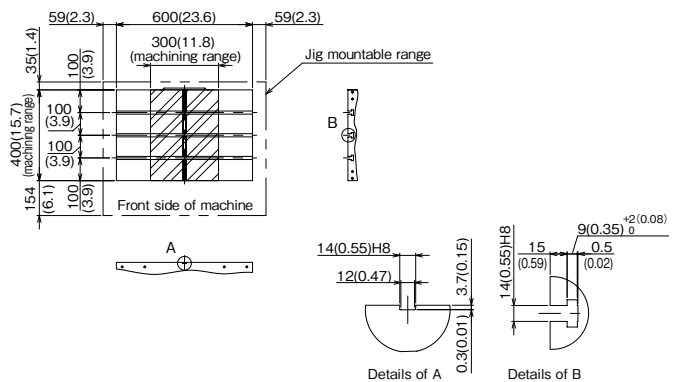
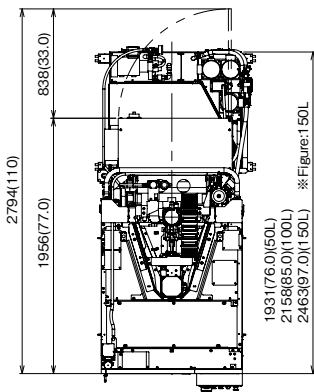
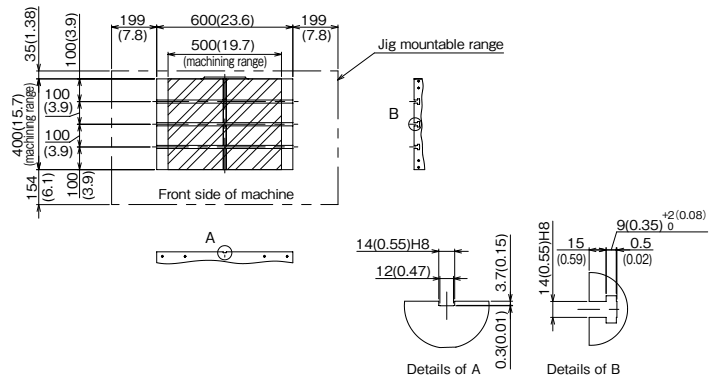
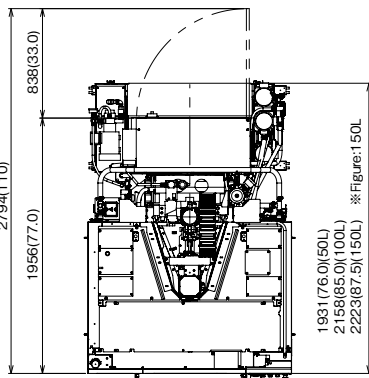
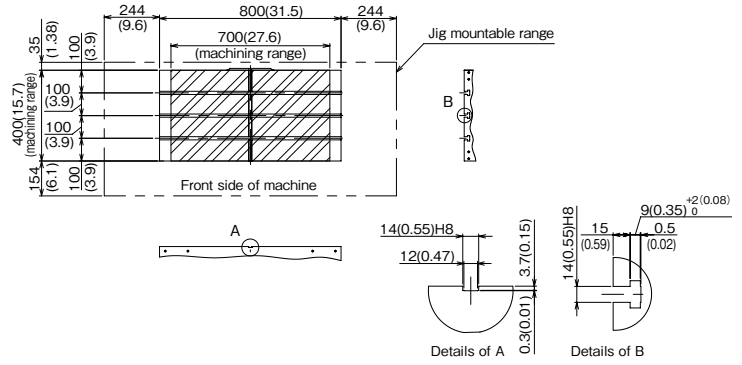
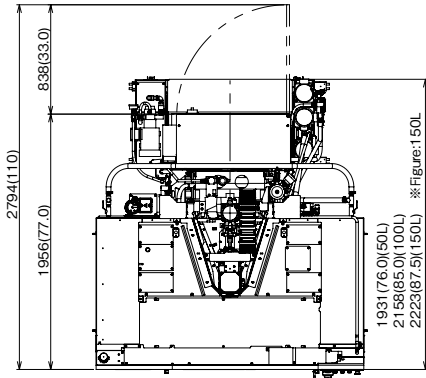


SPEEDIO S500X2



SPEEDIO S300X2





mm(inch)

Secure 700 mm (27.6 inch) between machines as maintenance space.

Global Service Sites

Local dealers are available to provide services in each region, in addition to the sites below.

U. S. A.

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

Germany

BROTHER INTERNATIONALE INDUSTRIEMASCHINEN GmbH
MACHINE TOOLS DIVISION FRANKFURT TECHNICAL CENTER
Hoechst Str.94, 65835 Liederbach, Germany
PHONE:(49)69-977-6708-0 FAX:(49)69-977-6708-80

India

BROTHER INTERNATIONAL (INDIA) PVT LTD.
Machine Tools Bengaluru Technical Center
Park Landing, Ground Floor, Municipal No.5AC-709, 2nd Block, HRBR Extension,
Bengaluru - 560 043 Karnataka, India
PHONE:(91)80-43721645

China

BROTHER MACHINERY (SHANGHAI) LTD.
(MACHINE TOOLS DIV.) SHANGHAI TECHNICAL CENTER
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Figures in brackets () are the country codes.

- Please read the instruction manuals and safety manuals before using Brother products for your own safety. When using oil-based coolant oil or when machining the materials which can cause a fire (ex. Magnesium, resin material), customers are requested to take thoroughgoing safety measures against fire. Depending on the types of cutting material, cutting tools, coolant oil, lubrication oil, it may have an influence on the machine lifecycle. Further questions, please contact our sales representative in charge.
- Leave 700 mm between machines as a maintenance space.
- When exporting our machine together with additional 1-axis rotary table or compound rotary table (including case that a rotary table is scheduled to be installed overseas), 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 compound 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 "non-white countries (excluding some countries and regions)", it is not possible to install a compound rotary table separately overseas after exporting the machine. Please make sure to obtain the export license of the machine together with compound rotary table before shipment.

Specifications may be subject to change without any notice.

brother

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