

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
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PHONE:(1)224-653-8415 FAX:(1)224-653-8821

Germany

BROTHER INTERNATIONALE INDUSTRIEMASCHINEN GmbH

MACHINE TOOLS DIVISION FRANKFURT TECHNICAL CENTER Hoechster Str.94, 65835 Liederbach, Germany

PHONE:(49)69-977-6708-0 FAX:(49)69-977-6708-80

India

BROTHER INTERNATIONAL (INDIA) PVT LTD.

BANGALORE TECHNICAL CENTER Park Landing, Ground Floor, Municipal No.5AC-709, 2nd Block, HRBR Extension,

Bangalore - 560 043 Karnataka, India

China

BROTHER MACHINERY (SHANGHAI) LTD.
DONGGUAN BRANCH (MACHINE TOOLS DIV.) DONGGUAN TECHNICAL CENTER

1F, Fuyuan Business Center Building, No.1 Lane 13, Maiyuan Road, Xin'an community, Chang'an Town, Dongguan City, Guangdong Province, 523008, P.R.China PHONE:(86)769-2238-1505 FAX:(86)769-2238-1506

BROTHER INTERNATIONAL DE MÉXICO, S.A. DE C.V.

División de Maquinaria Industrial Centro Técnico Querétaro Calle 1 No.310 Int 15, Zona Industrial Jurica, Parque Industrial Jurica,

Queretaro QBQ C P 76100 México

PHONE:(52)55-8503-8760 FAX:(52)442-483-2667

Thailand

BROTHER COMMERCIAL (THAILAND) LTD.

MACHINE TOOLS TECHNICAL CENTER
317 Pattanakarn Road, Pravet Sub-District, Pravet District, Bangkok 10250, Thailand

PHONE:(66)2321-5910 FAX:(66)2321-5913

China

(MACHINE TOOLS DIV.) SHANGHAI TECHNICAL CENTER
Room B, 3/F., No.567, West Tianshan Rd., ChangNing District, Shanghai 200335, P.R.China

PHONE:(86)21-2225-6666 FAX:(86)21-2225-6688

China

BROTHER MACHINERY (SHANGHAI) LTD. CHONGQING BRANCH (MACHINE TOOLS DIV.) CHONGQING TECHNICAL CENTER

Room 105, No.51 Xuefudadao, Nan' an District, Chongqing Province, 400074, P.R.China PHONE:(86)23-6865-5600 FAX:(86)23-6865-5560

Figures in brackets () are the country codes.

Specifications may be subject to change without any notice.



BROTHER INDUSTRIES, LTD. MACHINERY & SOLUTION COMPANY

1-5, Kitajizoyama, Noda-cho, Kariya-shi, Aichi-ken 448-0803, Japan

PHONE: 81-566-95-0075 FAX: 81-566-25-3721

http://www.brother.com





S700X1 S500X1 S300X1 SPEEDIO S500%



SPEDIO

The compact machining center SPEEDIO has been released, achieving overwhelming productivity and excellent environmental performance based on Brother's original technologies.

Our efforts have been focused on releasing a machine that brings about success to users producing mass-production parts, in response to their deep confidence.

S700X1

S500X1



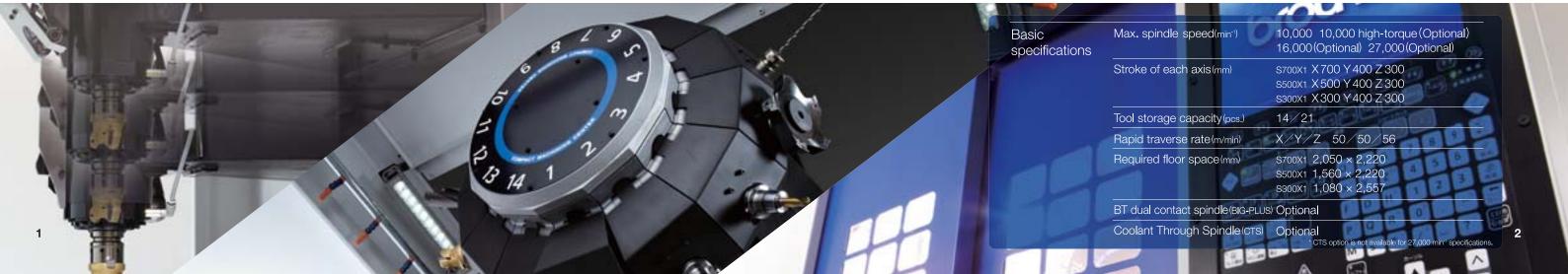
S300X1

S500101

brother



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





The machine has achieved overwhelming high productivity as a result of achieving high acceleration and quick response. In particular, Z-axis acceleration has been greatly improved, which is highly effective for improvement of productivity.

rovement of productivity.

and drives machine performance to the fullest to demonstrate high productivity.

Achievement of high acceleration

Z-axis acceleration: 1.1_{G} $\stackrel{\text{SPEEDIO}}{\longrightarrow} 2.2_{G}$

As the Z-axis moves most frequently, Z-axis acceleration has been improved to twice the former model.

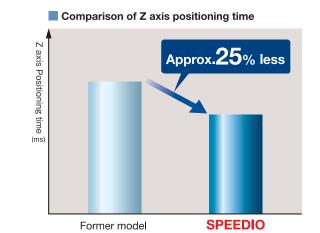
Optimal acceleration according to loading capacity (X/Y-axes)*

(Max. load): 1.4G/1.1G

(150 kg load): 2.0 G / 1.3 G

The X/Y-axes optimal acceleration setting function sets the most appropriate acceleration according to the table loading capacity.

* Acceleration for the S500X1. The loading capacity needs to be set via parameter.



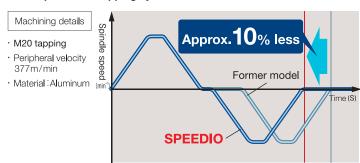
* When moving from Z-axis home position to stroke center

Highly-responsive servo motor

Delay in response has been reduced to almost zero by increasing the responsiveness of the servo motor. For example, high-speed synchronized tapping at the fastest level in the world is completed within much shorter time.



Comparison of tapping cycle time



 * Data taken by running machining program created by Brother

Nonstop ATC

Tool change time is minimized by optimizing the magazine operation and improving the Z-axis acceleration, in addition to the shorter start and stop time of the spindle.

Chip - Chip: 1.6s 1.4s

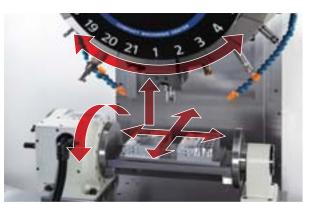
Tool - Tool : $0.9s \rightarrow 0.8s$

Simultaneous operation control

Optimized waste elimination control

Brother's original NC unit thoroughly eliminates waste motion and waste time,

Further reduction of waste time achieved by positioning X/Y and additional axes simultaneously with tool change.



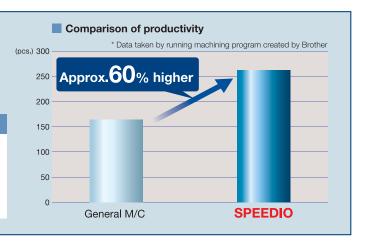
When compared to a general machining center (M/C), the high productivity of the SPEEDIO is outstanding. Brother is constantly pursuing overwhelmingly high productivity.

Conditions for productivity comparison

Major machining details

- \cdot D5.1 drilling \times 12 \cdot Boring \times 2
- M6 tapping × 12 No. of tools used: 9
- · Spot facing × 7

Workpiece change time:15s 1day (10hours) × 85% operating rate



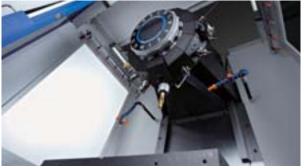
4

Machining Capabilities



Technologies accumulated over years to enhance machine rigidity, and use of a high-power spindle motor allow the machine to demonstrate its broad machining capabilities from high-speed, high-efficiency machining to heavy-duty machining.

Highly rigid structure



Based on accumulated analysis technology data, the machine uses a structure that effectively further improves its rigidity.

Z-axis rigidity 15% increase For the Z-axis in particular, the stress path is reduced, leading to improvement of rigidity by approximately 15%.

High-power spindle motor

Medium-and high-speed range enabling high-efficiency machining

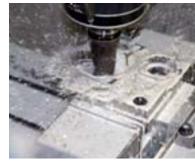


■ Grooving using standard specs

Machining details

Cutting amount: 150cc/min Material: Carbon steel (for ø16 end mill)

Low-speed range suitable for heavy-duty machining



Large hole drilling using high-torque specs Machining details

Hole Glanteton 2 ...

Material: Carbon steel Hole diameter: ø40mm

Spindle motor torque

Standard specs

Max. torque (momentary): 40 Nm

Max. output: 18.9kW

High-torque specs (Optional)

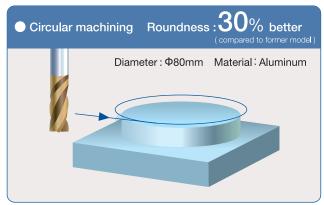
Max. torque (momentary): 92Nm

Max. output: 26.2kW

High-accuracy machining has been achieved by improving machine rigidity, renewing the control system using a new NC unit, and adding new functions. Stable accuracy for circular machining and three-dimensional machining has also been achieved.

Pursuit of high accuracy

Resolution of the encoder has greatly improved and various offset functions have been added. These improvements achieve high accuracy for circular machining and pitch machining. The machine structure used is not easily affected by heat expansion due to coolant.



* This accuracy may not be obtained under some machining conditions, machine installation conditions etc.

High-speed three-dimensional machining

High-speed and highly accurate three-dimensional machining has been achieved by high-speed spindle specifications and Brother's original three-dimensional machining control, such as the 200-block look-ahead function and smooth path offset function.

High-speed spindle specs: **27,000**min⁻¹

Look-ahead function

High accuracy mode BI (Standard):



High accuracy mode BII (Optional): 200 blocks



The machine is equipped with the CNC-C00 series next generation NC unit with greatly improved processing capabilities and functions, and enhanced usability.

brother

Operability

Equipped with 'shortcut' keys to quickly open the desired screen and 'sub folder' to make program management easier, in addition to the USB memory interface, menu programming and tap return function.



Shortcut keys

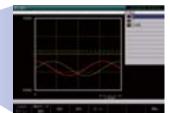
Network function

High capacity program data can be transferred via Ethernet at high speed. The simple production monitoring function is also available allowing you to monitor the machine's status.



Machining support functions

Equipped with machining support functions, such as torque waveform display,high accuracy mode, and heat expansion compensation system.



Maintenance functions

Equipped with motor insulation resistance measurement, operation log, and maintenance notice function.



System capacity

Standard equipped with PLC. Input and output points can be extended to up to 1024 points each (Optional).



A power regeneration system that effectively lowers power consumption is used for all models.

Lower power and air consumption ensures high environmental performance.

Low power consumption is achieved by using an energy saving pump etc. in addition to a low-inertia spindle and high-efficiency motor.

Power consumption for one cycle

* Data taken by running machining program created by Brother

Approx.80%
less

General M/C SPEEDIO





LED type work light (Optional)

Energy saving pumi

The SPEEDIO is an earth-friendly machine equipped with a variety of energy-saving functions.

utomatic coolant off — Turns off the coolant pump when the preset time elapses.

Standby mode — Turns off the servomotor when the machine is not operated for the preset time.

Automatic work light off — Turns off the work light when the preset time

elapses.

Automatic power off —— Turns off the power at the preset time.

Reliable functions that enhance productivity, minimizing defects and preventing failure

Productivity can also be enhanced from the following viewpoints: "prevent dimensional defects" and "prevent machine failure with minimal maintenance to minimize machine down time". The SPEEDIO is equipped with functions to achieve these.



Air-assisted tool washing (Optional)

High discharge pressure prevents Separates the r chips becoming attached to the holder. machine room.



Top cover (Optional)



Motor insulation resistance measurement function

Detects motor failure in advance.



Maintenance notice function

Notifies operators of when greasing is required etc.

Optional Specifications



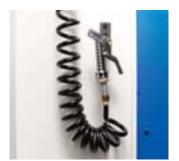
Coolant unit

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



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.



Cleaning gun

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



Side cover (transparent board type)

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



Coolant Through Spindle (CTS)

1.5 MPa CTS used for BT spindle.

* Please consult Brother for use of 3 MPa CTS. * CTS option is not available for 27,000min⁻¹ specifications.



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.



LED type work light (1or 2 lamps)

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



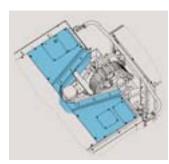
Automatic door (motor-driven)

A motor-driven door is used, achieving smooth operation.



Back washing system (for CTS)

This prevents the filter from clogging, enabling long continuous operation without filter replacement.



Top cover

Shutting the opening on the top prevents coolant or chips splashing outside of the machine, and reduces the effect of there on the spindle motor.



Indicator light (1,2, or 3 lamps)

LED lamps are used. There are no bulbs to burn out, making it completely



Automatic grease lubricator

Regularly greases all greasing points on

the three axes.

* Manual greasing applies to the standard specification model.



High accurancy mode BII (look-ahead 200 blocks)

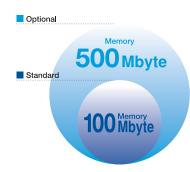
The 200-block look-aheard function enables high-speed and highly accurate three-dimensional machining.

Also equipped with a smooth path offset function to improve machining quality.



Spindle override

Spindle speed can be changed without changing the program



Memory expansion

Memory can be expanded to up to 500 Mbytes.

Optional Specifications Coolant unit ① 50L

(with valve and 180W pump) (2)100L

(with chip shower, valve and 250W + 250W pumps)

3150L (with chip shower, valve and 250W + 400W pumps) (4)150L

(with chip shower, CTS, valve and 250W + 400W + 650W pumps)

- Coolant Through Spindle (CTS)
- Mesh basket for chips
- Tool washing (air-assisted type)
- Tool breakage detector (touch type)
- Chip shower
- Cleaning gun

*1 When the submicron command is used, changing to the conversation program is disabled.
*2 EXIO board assembly can not be selected when selecting Fieldbus.



Tool breakage detector (touch type)

A touch switch type tool breakage detector is used.



B-axis cord (for 1 axis, 2 axis)

Multi-face machining is possible by adding one or two axes.

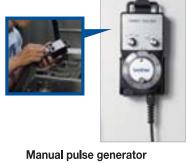


Switch panel (6 holes, 10 holes)

The position of the manual pulse generator can be changed using the switch hole, avoiding the generator being positioned behind the roller conveyor or similar



- Back washing system (for CTS)
- Automatic oil lubricator Automatic grease lubricator
- LED type work light (1 or 2 lamps) Indicator light (1, 2, or 3 lamps)
- Automatic door (motor-driven)
- Area sensor
- Specified color
- Manual pulse generator
- B-axis cord (1 axis, 2 axes)
- Spindle override
- High column (150 mm, 250 mm)
- Grip cover Top cover
- Side cover (transparent board type)

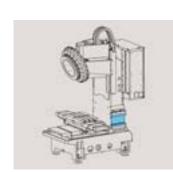


Manual pulse generator with a cable makes operation through maintenance window easier.



RS232C(25 pin)

Conventional 25-pin connector can be attached to the side of the control box.



High column (150mm, 250mm)

High column of 150mm and 250mm used in response to customers' needs. *250 mm high column is not available for S300X1 21 ATC specifications

- RS232C (25 pin) for control box
- Expansion I/O board (EXIO board) ①EXIO board assembly *2
- ②Additional EXIO board assembly Switch panel (6 holes, 10 holes)
- Memory expansion (approx. 500 Mbytes)
- High accuracy mode B II
- (look-ahead 200 blocks, smooth path offset) Submicron command *1
- Interrupt type macro
- Fieldbus
- ① CC-Link (remote device station) 2 PROFIBUS DP (slave)
- (3) DeviceNet (slave)
- PLC programming software (for Windows[®]XP, Vista, and 7)
- Windows⁶ is a trademark or registered trademark of Microsoft Corporation in the United States and/or other countries.

 * Please contact your Brother dealer for details.

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Machine Specifications and NC Unit Specifications

ltem			S700X1	S500X1	S300X1		
CNC Unit				CNC-C00			
	X axis		mm (inch)	700(27.6)	500(19.7)	300(11.8)	
	Y axis		mm (inch)		400(15.7)		
Travels	Z axis		mm (inch)	300(11.8)			
•	Distance between table top and spindle nose end		mm (inch)	180~480(7.1~18.9)			
	Work area size		mm(inch)	800×400(31.4×15.7) 600×400(23.4×15.7)		23.4×15.7)	
Table	Max.loading capacity (uniform load)		kg (lbs)	250[300 *6](551[661 *6])			
	Spindle speed		min ⁻¹	10,000min ⁻¹ specifications : 10~10,000 16,000min ⁻¹ specifications (Optional) : 16~16,000 10,000min ⁻¹ high-torque specifications (Optional) : 10~10,000 27,000min ⁻¹ specifications (Optional) : 27~27,000			
Spindle	Speed during tapping min		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 option is not available for 27,000min 'spec.)			
Feed rate	Rapid traverse rate (XYZ-area) m/		min(inch/min)	50 × 50 × 56 (1,969 × 1,969 × 2,205)			
	Cutting feed rate mm		min(inch/min)	X, Y, Z axis: 1~30,000 (0.04~1,181) *7			
	Tool shank type				MAS-BT30		
	Pull stad type *4			MAS-P30T-2			
	Tool storage capacity		pcs.	14/21		T	
ATC unit	Max. tool length		mm (inch)			160(6.3)[21 tool] 250(9.8)[14 tool]	
,	Max. tool diameter		mm (inch)	110(4.3)			
	Max. tool weight *1 kg		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 To Tool		Sec.	0.8			
Tool change time *5	Chip To	<u>'</u>	Sec.	1.4			
	Cut To Cut		Sec.	1.2			
Electric motor	Main spindle motor (10min/continuous)*2		kW	10,000min ⁻¹ specifications: 10.1/6.7 16,000min ⁻¹ specifications(Optional): 7.4/4.9 10,000min ⁻¹ high-torque specifications(Optional): 12.8/8.8 27,000min ⁻¹ specifications(Optional): 8.9/6.3			
	Axis feed motor		kW	X, Y axis : 1.0 Z axis : 2.0			
	Power supply			AC V±10%, 50/60Hz±1Hz			
Power source	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	Regular air pressure	MPa	0.4~0.6(recommended value: 0.5MPa *8)			
	supply	Required flow	L/min	45(27,000min ⁻¹ specifications : 115)			
-	Height		mm (inch)	2,497(98.3)			
Machining dimensions		floor space[with control unit door open]	mm (inch)	2,050×2,220 [2,692] (80.7×87.4 [106.0])	1,560×2,220 [2,692] (61.4×87.4 [106.0])	1,080×2,557 [2,776] (42.5×100.7 [109.3])	
aimensions	Weight (including control unit, machine cover)		kg (lbs)	2,400(5,291)	2,250(4,960)	2,200(4,850)	
			mm (inch)	0.006~0.020(0.00024~0.00079)			
Accuracy *3			mm (inch)	Less than 0.004 (0.00016)			
Front door				2doors			

*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 using high accuracy mode B. (Non high accuracy mode B) X,Y axis: 1~10,000mm/min. Z axis: 1~20,000mm/min. *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.

Absolute / incremental

Orner C / Corner R

Synchronized tap

Rotational transformation

Coordinate system setting

Inch / metric

NC unit specifications					
CNC model	CNC-C00				
Control axes	5 axes (X,Y,Z, two additional axes)				
Cinculton and all	Positioning	5 axes(X,Y,Z,A,B)			
Simultaneously controlled axes	Interpolation	Linear: 4 axes(X,Y,Z one additional axis)			
controlled axes		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)					
Dragram format	NC language, conversation (changed by parameter)				
Program format	conversion from conversation program to NC laguage program available				

Standard accessories Instruction Manual (1 set), anchor bolts (4 pcs.), leveling bolts (4 pcs.), machine cover (manual door)

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memory operation.
*Ethernet is a trademark or registered trademark of XEROX in the United States.

Dry run	 Herical / conical interpolation 	 Tool length compensation 				
Restart	Tool washing filter with filter clogging detection	Cutter compensation				
 Backlash compensation 	 Automatic power off (energy saving function) 	Macro function				
 Rapid traverse override 	 Servomotor off standby mode (energy saving function) 	 Local coordinate systen 				
 Cutting feed override 	 Chip shower off delay 	One-way positioning				
Alarm history(1,000 pieces)	 Automatic coolant off (energy saving function) 	 Opeation in tape mode 				
Startus log	 Automatic work light off (energy saving function) 	(Conversation)				
Machine lock	Heat expansion compensation system	Operation program				
Computer remote	(X,Y,Z axes)	Schedule program				
Built-in PLC	Tap return function	 Automatic tool selection 				
 Motor insulation resistance measurement 	Automatic workpiece measurement *1	 Automatic cutting condition setting 				
Operation log	Waveform display	 Autmatic tool length compensation setting 				
High accuracy mode BI	Operation level	 Autmatic cutter compensation settin 				
(look-ahead 30blocks)	 External input signal key 	 Autmatic calculation of unknown number inpu 				
		 Machining order contro 				
	Optional NC functions					
Memory expansion (Approx. 56 High accuracy mode BII (look-ahead 200 blocks, smooth Spindle override	Submicron command *2 Interrupt type macro Rotary fixture offset High-speed processing *3					
*O. When the submission command is used, changing to the conversation program is disabled						

Standard NC functions High-accuracy mode AIII

Tool life management / spare tool

Tool length measurement

Background editing

Graphic display

Subprogram

(NC)

Scaling

Mirror image

Expanded workpice coordinate system

Menu programming

Program compensation

SPEEDIO

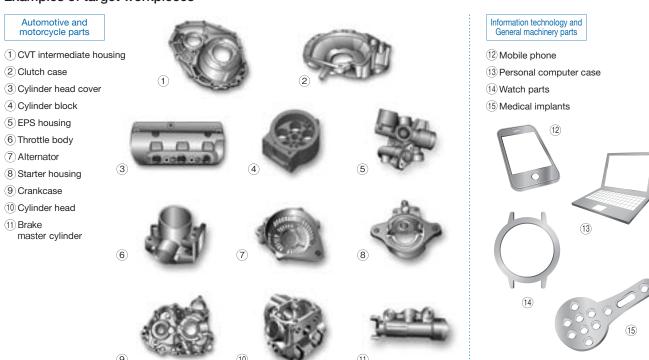
Machining capability • Examples of target workpieces

Machining capability

		ADC	Cast iron	Carbon steel
■ Drilling	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)
Tool diameter mm(inch) × Feed mm(inch)/rev	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	10,000min ⁻¹	M27 × 3.0(1-8UNC)	M24 × 3.0(7/8-9UNC)	M16×2.0(5/8-11UNC)
annumuu Annumuu	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)
Tool diameter mm(inch) × Pitch mm(inch)	27,000min ⁻¹	M22×2.5(7/8-9UNC)	M18×2.5(5/8-11UNC)	M12×1.75(7/16-14UNC)
■ Facing	10,000min ⁻¹	960:100×3.2×3,000 (58.6:3.94×0.13×118.1)	137:40×6.0×573 (8.4:1.57×0.24×22.6)	100 : 40 × 5.2 × 484 (6.1 :1.57×0.2×19.1)
	10,000min ⁻¹ high-torque	1,700:100× 5.7×3,000 (102.4:3.94×0.22×118.1)	137:40×6.0×573 (8.4:1.57×0.24×22.6)	100 : 40 × 5.2 × 484 (6.1 :1.57×0.2×19.1)
Cutting amount cm ² /min(inch ² /min): Cutting width mm(inch) ×	16,000min ⁻¹	660:100×2.2×3,000 (40.3:3.94×0.09×118.1)	73:40×3.2×573 (4.5:1.57×0.13×22.6)	48: 40 × 2.5 × 484 (2.9:1.57×0.1×19.1)
Cutting depth mm(inch) × Feed rate mm/min(inch/min)	27,000min ⁻¹	600:100×2.0×3,000 (36.6:3.94×0.08×118.1)	45:40×2.0×573 (2.7:1.57×0.08×22.6)	24:40 × 1.2 × 484 (1.5:1.57×0.05×19.1)

*The data is Brother's actual test data

Examples of target workpieces



- Be sure to read the instruction manual and safety manual before using the product safely. If you use oil-based coolant or machine materials that may ignite, such as magnesium and resin, take thorough safety measures to prevent fire. Please contact the sales personnel for any inquiries.
 When exporting this product, carefully check the customer and their purpose of use from the viewpoint of security assurance. You may have to obtain permission from the supervisory authorities prior to export due to revisions of laws and regulations etc. Please contact Brother before exporting the machine.
- Secure 700mm (27.6inch) between machines as maintenance space.
 When exporting our product with tilting rotary table, "list control" is applicable, according to view of Ministry of Economy, Trade and Industry(METI) in Japan. Therefore, please apply for export license in advance of export. If necessary, please contact METI,

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^{*}When program size is bigger than 2 Mbytes, machine works with extended

^{*1.} Measuring instrument needs to be prepared by users. *2. When the submicron command is used, changing to the conversation program is disabled.

^{*3.} Minute block processing time can be changed. As there are some restrictions, please contact your local distributor for details.

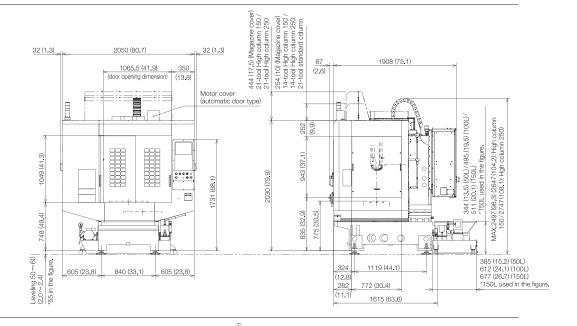
^{*}Functions listed under (NC) and (Conversation) are available only for NC programs and conversation programs respectively



External Dimensions

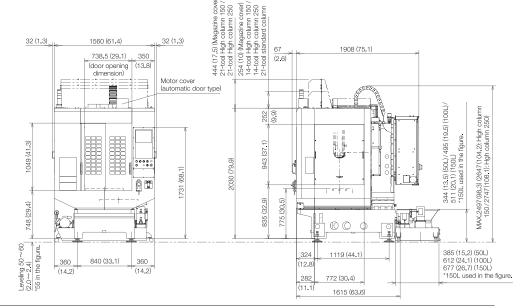
SPEEDIO S700X1





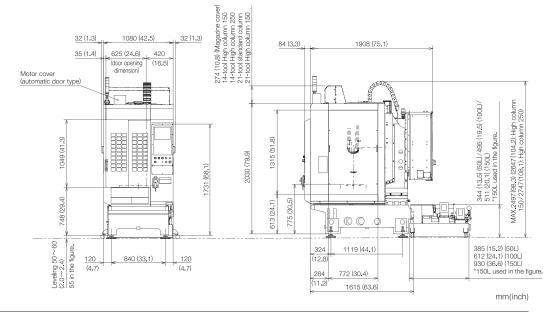


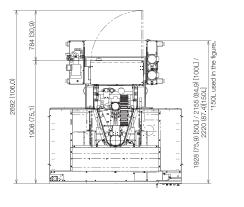


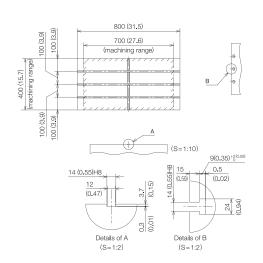


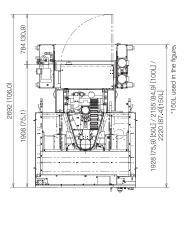


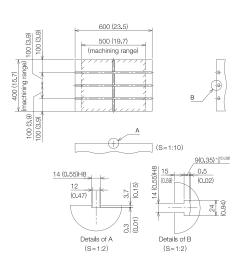


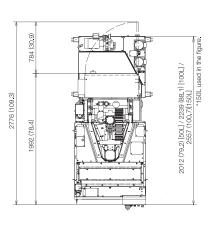


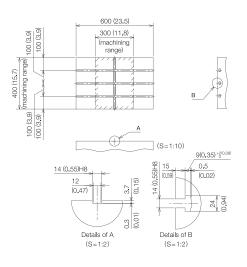












13 Secure 700 mm(27.6 inch) between machines as maintenance space. Secure 700 mm(27.6 inch) between machines as maintenance space. 14