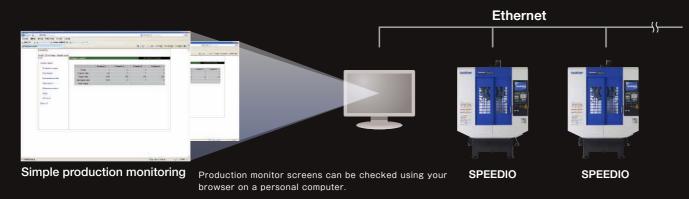
Network function

High capacity program data can be transferred quickly via Ethernet. The simple production monitoring function also allows you to monitor the machine's operating screen on a personal computer.



Brother's NC unit CNC-COO



System capacity

Standard equipped with PLC to be able to easily respond to the control of peripheral equipment. Ladder program capacity has been greatly increased to approximately three times the capacity of the previous model.

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NC unit specifications				
CNC model	CNC-C00			
Control axes	5 axes(X,Y,Z	, two additional axes)		
Simultaneously	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, ±999.9999 inch				
Display	12.1-inch color LCD			
Memory capacity	Approx.100 N	Ibytes (Total capacity of program and data bank)		
External communication USB memory interface, Ethernet, RS232C 1ch				
No.of registrable programs	4,000 (Total	capacity of program and data bank)		
Program format	NC language, conversation (changed by parameter)			
	conversion from	n conversation program to NC laguage program available		

*When program size is bigger than 2 Mbytes. machine works with extended memory operation

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

	Standard NC functions	S
Absolute / incremental	High-accuracy mode AIII	(NC)
Inch / metric	Tool length measurement	Expanded workpice coordinate system
Corner C / Corner R	Tool life management / spare tool	Scaling
Rotational transformation	Background editing	Mirror image
Synchronized tap	Graphic display	Menu programming
Coordinate system setting	Subprogram	Program compensation
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
Pitch error compensation	Servomotor off standby mode (energy saving function)	Local coordinate system
Raid traverse override	Chip shower off delay	One-way positioning
Cutting feed override	Automatic coolant off (energy saving function)	Opeation in tape mode
Alarm history (1,000 pieces)	Automatic work light off (energy saving function)	(Conversation)
Startus log	Heat expansion compensation system II	Operation program
Machine lock	(X,Y,Z axes)	Schedule program
Computer remote	Tap return function	Automatic tool selection
Built-in PLC	Automatic workpiece measurement *1	Automatic cutting condition setting
Motor insulation resistance measurement	Waveform display	Autmatic tool length compensation setting
Operation log	 Operation level 	Autmatic cutter compensation setting
High accuracy mode BI	External input signal key	Autmatic calculation of unknown number input
(look-ahead 30 blocks)		Machining order control

EXIO board

Number of steps:

(max. 1,024 points each) Input/output points:

16 points each (standard) 1.024 points each (optional)

Approx. 25,000 for standard ladder Approx. 3,000 for high-speed ladder

Optional NC functions

Memory expansion (Approx. 500 Mbytes)			
High accuracy mode	BII (look-ahead 200	blocks,	smooth	path offs	et
Spindle override					

Submicron command *2 Interrupt type macro

*1 Measuring instrument needs to be prepared by users. *2 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 respective

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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



Brother has persisted with their original NC unit to drive machine performance to the fullest. The CNC-C00 has advanced further, achieving overwhelmingly high productivity and excellent usability.



High productivity

Equipped with various functions to achieve outstandingly high productivity

G100 Tool change canned cycle (nonstop ATC)

A spindle with a shorter start/stop time is used, enabling the Z-axis to rise to the tool change position without stopping halfway. Waste time is reduced by simultaneously positioning the X/Y and additional axes while changing tools.



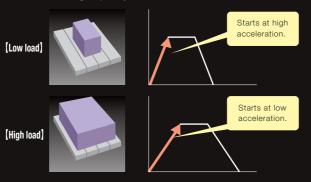
G100 program 01 G100T1G90G54G00X0.Y-20.G43H1Z100.M3S2000 G77 Tapping cycle (synchronizing mode)

Equipped with Brother's original high-speed synchronized tapping control, a peripheral velocity 377 m/min is possible, the fastest in the world.

Peripheral velocity 377 m/min : M20 Tapping Spindle speed : S6000 Material : Aluminum



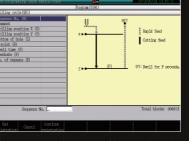
Optimal acceleration setting according to loading capacity The X/Y-axes optimal acceleration can be set according to the table loading capacity.



Operability

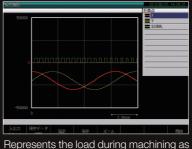
Functions with excellent usability are fully utilized, leading to improvement in work efficiency at production sites.

Tool length range setting function Menu programming function



Programs can be created by entering the required items while viewing the graphical display.

Waveform display function



Machining support

a waveform and displays it on the screen

The CNC-C00 series is equipped with various functions useful in a wide variety of machining.

High accuracy mode B

in real time.

High-speed and highly accurate threedimensional machining is achieved by Brother's original "high accuracy mode B" with look-ahead function and smooth path offset function.

Look-ahead function 30 blocks (Standard) 200 blocks* (Optional) Smooth path offset*

*1 When using high accuracy mode BI.*2 Available when using a high accuracy mode BII as an option.

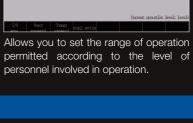
Maintenance performance

Various maintenance functions are provided to minimize machine down time.





Measures the motor insulation resistance to detect any sign of motor failure and issues an alarm.





The measurement range for the tool length is preset to prevent a numerical value not within the range being entered.

Operation level setting function



Alarm details display Recovery wethod 1. Oteck the poet-supply voltage. - For 400 Y region threse the tap connection of Units former 1. Direck the voltage source capacity. Theck the length and dimension of the poet capits. At front power dropped by 30 or more. 2. AC frowt power dropped instantaneously. 200 Y replan the voltage source capacity, the length and diameter of f the plant-side power supply.

Alarm details and solutions, the same as those provided in the instruction manual, are available on the machine screen.

Tap return function

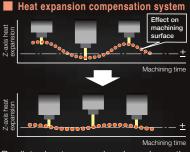




Allows the operator to easily release any tap caught in the workpiece due to power failure etc.







Predicts heat expansion based on the operation status of each axis without using sensors, and compensates for it. *3

*3 External factors, such as coolant temperature or ambient temperature, are not considered. Accuracy may be affected depending on the conditions

Issues a maintenance notice in advance.



Stores the key operation history. This is helpful for investigation of the causes of machine failure etc.