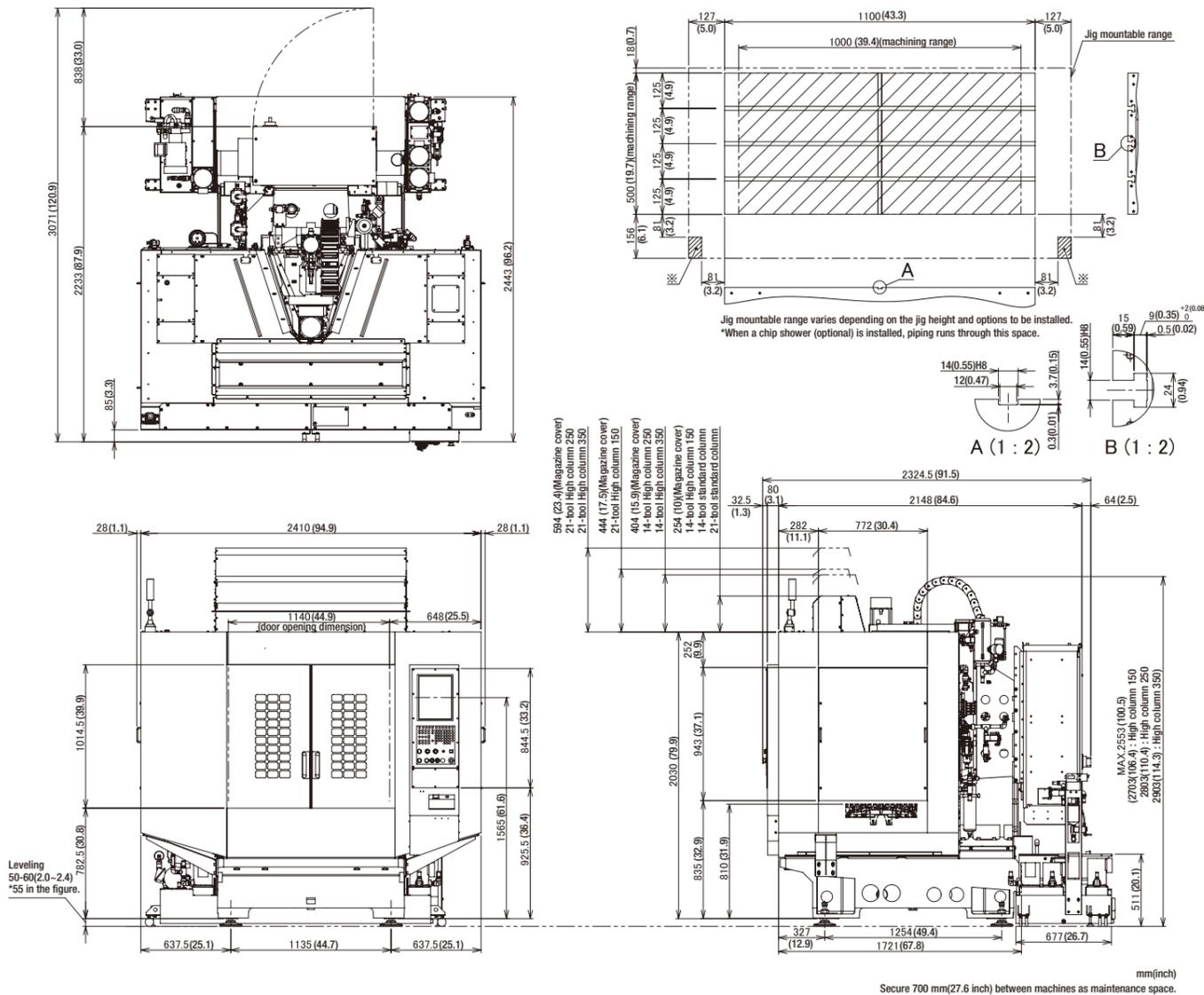


External Dimensions



NC unit specifications

CNC model	CNC-D00
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) Involute interpolation (optional)
Least input increment	0.001mm, 0.0001inch, 0.001 deg.
Max. programmable dimension	±999999.999mm, ±99999.9999inch
Display	15-inch color LCD touch display
Memory capacity	500 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), conversation 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.

Machine Specifications

Item		W1000Xd1 / W1000Xd1 RD *10	
CNC unit			CNC-D00
Travels	X axis	mm(inch)	1,000 (39.4)
	Y axis	mm(inch)	500 (19.7)
	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)	1,100 × 500 (43.3 × 19.7)
	Max. loading capacity (uniform load)	kg(lbs)	300[400 *1] (661[881*1])
Spindle	Spindle speed	min <sup>-1</sup>	10,000min <sup>-1</sup> specifications: 1-10,000, 10,000min <sup>-1</sup> high-torque specifications (optional): 1-10,000, 16,000min <sup>-1</sup> specifications (optional): 1-16,000
	Speed during tapping	min <sup>-1</sup>	MAX. 6,000
	Tapered hole		7/24 tapered NO.30
	BT dual contact spindle (BIG-PLUS)		Optional
Feed rate	Coolant through spindle (CTS)	MPa	1.5/7.0: Optional
	Rapid traverse rate (XYZ-area)	m/min(inch/min)	50 × 50 × 56 (1,969 × 1,969 × 2,205)
ATC unit	Cutting feed rate	mm/min(inch/min)	X,Y,Z: 1-30,000 (0.04 - 1,181) *2
	Tool shank type		MAS-BT30
	Pull stud type *3		MAS-P30T-2
	Tool storage capacity	pcs.	14 / 21
	Max. tool length	mm(inch)	250 (9.8)
	Max. tool diameter	mm(inch)	ø110 (4.3)
Tool change time *6	Max. tool weight *4	kg(lbs)	3.0(6.6) [4.0(8.8) *5]/tool, (TOTAL TOOL WEIGHT : 25 (55.1) for 14 tools, 35 (77.2) for 21 tools)
	Tool selection method		Random shortcut method
Electric motor	Tool To Tool	sec	0.6
	Chip To Chip	sec	1.2
Power source	Main spindle motor (10min/continuous) *7	kW	10,000min <sup>-1</sup> specifications: 10.0/6.9, 10,000min <sup>-1</sup> high-torque specifications (optional): 12.8/9.2, 16,000min <sup>-1</sup> specifications (optional): 7.3/5.0
	Axis feed motor	kW	X,Y axis: 1.0 Z axis: 2.0
Machining dimensions	Power supply		AC200V±10%, 50/60Hz±1Hz
	Power capacity (continuous)	kVA	10,000min <sup>-1</sup> specifications: 9.5, 10,000min <sup>-1</sup> high-torque specifications (optional): 10.4, 16,000min <sup>-1</sup> specifications (optional): 9.5
	Air supply	Regular air pressure Required flow	MPa L/min
Accuracy *9	Height	mm(inch)	2,553 (100.5)
	Required floor space [with control unit door open]	mm(inch)	2,410×2,443 [3,072] (94.9×96.2[121.0])
	Weight	kg(lbs)	3,350 (7,386)
Front door	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)
Standard accessories			2doors

\*1 Acceleration must be adjusted for X and Y axes. \*2 When using high accuracy mode B. \*3 Brother specifications apply to the pull studs for CTS. \*4 Actual tool weight differs depending on the configuration and center of gravity. The figures shown here are for reference only. \*5 Parameter settings must be changed. (Tool magazine indexing time will change.) \*6 Measured in compliance with JIS B6336-9 and MAS011-1987. \*7 Spindle motor output differs depending on the spindle speed. \*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 Measured in compliance with ISO standards and Brother standards. Please contact your local distributor for details. \*10 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 functions

Standard NC functions

Absolute / incremental	Background editing	NC	Menu programming
Inch / metric	Graphic display		Local coordinate system
Coordinate system setting	Screen shot		Expanded workpiece coordinate system
Corner C / Corner R	File viewer		One-way positioning
Rotational transformation	Status log		Inverse time feed
Synchronized tap	Alarm log		Programmable data input
Subprogram	Operation log		Tool length compensation
High-accuracy mode A III	Production performance display		Cutter compensation
High-accuracy mode B I (look-ahead 160blocks)	Computer remote		Scaling
Tool life / Spare tool	Auto notification		Mirror image
Automatic workpiece measurement *1	OPC UA		External sub program call
Dry run	Built-in PLC		Multiple skip function
Machine lock	External input signal key		Macro
Restart	Automatic power off		Operation in tape mode
Rapid traverse override	Servomotor off standby mode		
Cutting feed override	Automatic coolant off		
Tool length measurement	Automatic work light off	Conversation	Operation program
Spindle load monitoring	Chip shower off delay		Schedule program
ATC monitoring	Power consumption display		Automatic tool selection
Adjust machining parameter screen	Motor insulation resistance measurement		Automatic cutting condition setting
Check over load	Tool washing filter with filter clogging detection		Automatic tool length compensation setting
Waveform display / waveform output to memory card	Operation level		Automatic cutter compensation setting
Heat expansion compensation system II (X,Y,Z axes)	Backlash compensation		Automatic calculation of unknown number input
Tap return function			Machining order control

Optional NC functions

Memory expansion 3Gbytes	NC	Submicron command *2
Spindle override		Interrupt type macro
High accuracy mode BII, look-ahead 1,000 blocks, with smooth path offset		Rotary fixture offset
		Involute interpolation

\*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 respectively.