

CITIZEN

Miyano

BNE51/65 MYY

Fixed Headstock Type CNC Automatic Lathe



Machine Specification

Item	BNE-51MY		BNE-65MY	
Machining capacity				
Max. machining length	195 mm			
Max. machining diameter	51 mm dia.		65 mm dia.	
Max. drilling diameter	SP1	25 mm dia.		
	SP2	20 mm dia.		
Max. tapping diameter	SP1	M22 × 2.5		
	SP2	M20 × 2.0		
Spindles				
Number of spindles	2			
Main spindle speed	SP1 & SP2	Max. 5,000 min ⁻¹		
Main spindle collet chuck	SP1	Hardinge S22	Hardinge S26	
		DIN 177E	DIN 185E	
		HAINBUCH 51	HAINBUCH 65	
	SP2	Hardinge S22	Hardinge S26	
		DIN 177E	DIN 185E	
		HAINBUCH 51	HAINBUCH 65	
Power chuck type	SP1 & SP2	6" 3-claw chuck, 6" 2-claw chuck		
Travel distance				
Slide travel distance	X axis	X1: 205 mm, X2: 205 mm, X3: 155 mm		
	Z axis	Z1: 380 mm, Z2: 175 mm, Z3: 500 mm		
	Y axis	Y1: +60/-40mm, Y2: ±40 mm		
Tool posts				
Number of tool posts	2			
Type of tool post	HD1	12 ST.		
	HD2	12 ST.		
Dimensions of tools used	20 mm sq.			
Dimensions of tool post holes	25 mm dia.			
Rotary tools				
Number of installed rotary tools	HD1	Max.12		
	HD2	Max.12		
Type of rotary tool drive	Independent clutch drive			
Rotating speed of rotary tools	6,000 min ⁻¹			
Machining capacities	Drill	16 mm dia.		
	Tap	M12 × 1.75		
Feed rate				
Rapid feed rate	X1, Z1, X3, Z3 axes	20 m/ min		
	X2, Z2 axes	18 m/ min		
	Y1, Y2 axes	12 m/ min		
Motors				
Spindle motor	SP1	18.5/ 15 kW (30min./ cont.)		
	SP2	11/ 7.5 kW (15min./ cont.)		
Rotary tools motor	SP1 & SP2	4.0 kW		
Required power source				
Power supply	AC 200 ± 10%			
Power supply capacity	47 KVA			
Air pressure source	0.5 MPa			
Air pressure flowrate	120 NL/min. (When using air blower for 1 sec. in 3 locations)			
Tank capacity				
Hydraulic oil tank capacity	18 L			
Lubricating oil tank capacity	5 L			
Coolant tank capacity	350 L			
Machine dimensions				
Machine height	2,070 mm			
Floor space	W 2,860 × D 2,190 mm			
Machine weight	8,250 kg	8,300 kg		
Option				
Spindle brake, Air blow, Work ejector, Automatic fire extinguisher, Automatic power shut-off, Chip box				
Parts conveyor, Coolant level switch, High pressure coolant, Inner high pressure coolant & air blow				
Turret high pressure & air blow, Tool setter, Parts Catcher, Parts Box, Chuck system, Chip conveyor, Signal tower,				
Filler tube, Spindle inner bushing, Bar feeder inner bushing, Cut-off confirmation, Parts carrier, Left over catcher,				
Thermal displacement correction function				

- *1 This is the standby power in the idle stop mode (a function that turns servomotor excitation off when it is not necessary, for example during program editing).
- *2 This is the power consumption in program operation (when not cutting) for one of our standard test pieces, shown for the purpose of comparing the environmental performance with that of existing models.
- *3 This is the value converted in accordance with the CHUBU Electric Power CO2 emissions coefficient (actual emissions coefficient) for 2020 as published by the Ministry of the Environment.
- *4 If polyvinyl chloride (PVC) and fluorine resin are not processed correctly, they can generate harmful gases. When recycling these materials, commission a contractor that is capable of processing them appropriately.

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CITIZEN

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NC specifications

NC units		MITSUBISHI M830W (BNE-MYY)	
Command specified axes	HD1	X1, Z1, Y1,	
	HD2	X2, Z2, Y2	
	SP1	C1	
	SP2	C2	
	SP2 Slide	X3, Z3	
Auxiliary axes	HD1 Rotary tool	S3	
	HD1 Index	T1	
	HD2 Rotary tool	S4	
	HD2 Index	T2	
Control axis groups	3 groups		
Input code	ISO		
Command input system	Incremental and absolute		
Number of tool offsets	99		
Feed command system	Per rotation feed and per minute		
Override function	Rapid feeding/Cut feeding 0 to 100%		
Zero return function	Manual zero return		
On-machine program check function	Manual pulse generator		
Program operation storage capacity	960 Kbyte (2400 m)		
Input/Output interface	SD card slot and USB memory slot		
Spindle C-axis function	0.001°		

Standard function

Zero return function, On-machine program check function, Manual feed function, Manual data input (MDI) function, Back up function, Operation time display, Product counter display, Eco display, Cycle time check function, Automatic screen off function, 4-Group simultaneous spindle speed command, 3-group simultaneous M command, Superimposition of freely selected axis function, BNE-MYY-dedicated macros, Optional block skip, Optional stop, Cut-off check function, Corner chamfering/ Radius function, Arc radius specification, Canned cycle for threading, Rotary tool synchronous tap function, Spindle synchronizing control function, Multiple canned cycles for turning, Canned cycle for drilling, Milling interpolation, Helical interpolation, Inch/Millimeter switching function, Safety monitoring, Program parameters input

Standard operating functions

Start position automatic return, Waiting point automatic return, Back spindle retract return, Turret retract return, Automatic cut-off machining function, Tool set function, Spindle speed set function, Tool select function, Check adjustment function, Auxiliary manual operation function (AUX), Jog function, Handle operation function, Zeroing operation function

Editing support functions

Calculator function, Code list display, Code insert, Coordinate calculation function, Format check, Alarm block display function, Background editing, Simultaneous 3-system program editing

Option

Program operation memory capacity of 1,920 Kbyte (4,800 m), Program memory capacity of 10 MB, Program memory range of 20 MB, Program memory range of 50 MB, Program memory range of 100 MB Network I/O function, RS-232C, Automatic power shut-off function, Thermal displacement correction function, tool setter, Tool monitor, 3D chamfering function, Variable lead threading, Arc threading, 2-System simultaneous threading I, 2-System simultaneous threading II, High-speed tapping function, Tool life management I, Spindle superimposition function, External memory program operation

Environmental Performance Information

		Model	BNE-51MY
Basic Information	Energy consumption	Supply voltage	AC 200V±10%
		Electrical power requirement	47 kVA
		Required pneumatic pressure	0.5 MPa
Environmental Performance Information	Power consumption	Standby power ^{*1}	0.891 kW
		Power consumption with model workpiece ^{*2}	0.0799 kWh/cycle
		Power consumption value above converted to a CO2 value ^{*3}	36.12 g/cycle
	Air consumption	Required air flow rate	54 NL/min (max. 113 NL/min: when using air blow)
	Lubricating oil consumption	At power ON	3.78 cc
	Noise level	Value measured based on JIS	78 dB
Approach to Environmental Issues	Recycling	Indication of the material names of plastic parts	Detailed in the Instruction Manual ^{*4}
	Environmental management		We are ISO 14001 certified. We pursue "Green Procurement", whereby we make our purchases while prioritizing goods and services that show consideration for the environment.