

Miyano



Miyano Innovation Line

CNC Turning center with 2 spindles and 1 turret

BNA-42MSY

BNA



CNC Turning center with 2 spindles and 1 turret

X 2 axis to sub-spindle

Enables simultaneous, independent machining of the front and back of the workpiece. This, in effect, provides the benefits of a twin turret machine with the significant cost savings of a single turret model.

Y axis to turret; increased power and torque

Complete machining is easily performed on the main and sub-spindle efficiently. The spindle motors have increased power; a high-torque revolving tool motor provides heavier cutting.

Machine Specification

Items	Miyano BNA-42MSY
Machining capacity	
Max. machining diameter of bar work SP1	Ø 42 mm
Max. machining diameter of bar work SP2	Ø 34 mm
Max. work length	100 mm
Slide stroke	
Turret slide stroke X1-axis	140 mm
Turret slide stroke Z1-axis	235 mm
Turret slide stroke Y1-axis	70 (± 35 mm)
Spindle slide stroke X2-axis	140 mm
Spindle slide stroke Z2-axis	310 mm
Spindle	
Number of spindle	2
Through hole diameter	Ø 43 mm
Inner diameter of draw tube SP1	Ø 43 mm
Inner diameter of draw tube SP2	Ø 30 mm
Spindle speed range SP1	6,000 min ⁻¹
Spindle speed range SP2	5,000 min ⁻¹
Collet chuck type SP1	Hardinge S20
Collet chuck type SP2	Spring collet
Power chuck type	5" thru-hole chuck
Spindle minimum index angle SP1	0.001°
Spindle minimum index angle SP2	0.001°
Turret	
Number of turret	1
Type of turret	8
Shank size of turning tool	20 mm
Diameter of sleeve holder	Ø 25 mm
Revolving tools	
Number of revolving tools	Max. 8
Tool spindle speed range	50 ~ 5,000 min ⁻¹
Machining capacity Drill	Max Ø 10
Machining capacity Tap	Max. M8 × 1.25
Feed rate	
Rapid Feed rate X1-axis	20 m/min
Rapid Feed rate Z1-axis	20 m/min
Rapid Feed rate Y1-axis	12 m/min
Rapid Feed rate X2-axis	12 m/min
Rapid Feed rate Z2-axis	20 m/min
Motors	
Spindle drive SP1	11/7.5 kw (15 min/cont.)
Spindle drive SP2	5.5/3.7 kw (15 min/cont.)
Revolving tool drive	1.0 kW
Electrical capacity	33 kVA
Coolant tank capacity	165 L
Machine dimensions	
Machine height	1,620 mm
Floor space	W 2,278 × D 1,450 mm
Machine weight	3,000 kg

Optional accessories

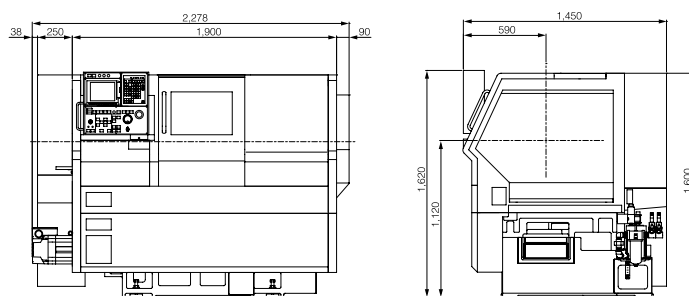
Spindle air blow, Spindle Brake, High pressure coolant, Inner High pressure coolant & Air blow, Coolant level switch, Counter, Signal tower, Coolant mist collector, Automatic fireextinguishing equipment, Automatic power shut-off, Chip conveyor, Chip box, Parts catcher, Parts conveyor, Drill breakage detector, RS-232C, 100 V

High speed NC unit with 'Cincom Control'

The latest high speed NC is adopted for fast processing and short cycle time. 'Cincom Control' ensures reduced idle time and easy set-up for outstanding productivity.

NC Specification	
Model device	Mitsubishi M70V
Display device	8.4" color LCD
Controllable axis	
command specified axes	X1, Z1, Y1, C1, X2, Z2, C2-axis
auxiliary axes	C3, T1-axis
Control axis groups	Two groups
Input code	ISO
Command input system	Incremental and absolute
Feed command system	Per rotation feed and per minute
Cutting Feed Rate Override	Max. 100%
Tool offset data	80 pairs
Program storage capacity	160 m
Option	Automatic power-off function
Standard function	
On machine program check function, Manual feed function, Manual data input (MDI) function, Operation time display, Product counter display, Cycle time check function, Preparation functions, Start position automatic return, Automatic cut-off machining function, Tool set function, Spindle speed simultaneous command for 3 spindle, 3 Sets of M code simultaneous command, Control axis swap function, Control axes superimpose command, Function to superimpose 2 pairs of axes, BNA-42MSY dedicated macros, Background editing, Simultaneous program editing two control axis group, Editing support functions, Calculator function, Code list display, Coordinate calculation function, Main spindle C-axis function spindle, Constant surface speed control, Cut off confirmation, Corner chamfering/Radius function, Tool nose R compensation function, Arc radius specification, Thread cutting canned cycle, Synchronous tap function, Spindle synchronous tap function, Revolving tool synchronous tap function, Spindle synchronizing control function, Custom macro, Multiple canned cycles for turning, Canned cycles for drilling, Milling interpolation	

External view BNA-42MSY



CITIZEN MACHINERY MIYANO CO., LTD.	JAPAN	CITIZEN MACHINERY MIYANO CO., LTD.	TEL.81-267-32-5961 FAX.81-267-32-5928
		Cincom Company 4107-6 Miyota, Miyota-machi, Kitasaku-gun, Nagano-ken, 389-0206, Japan	
		Miyano Company 500 Akazawa, Yabuki-machi, Nishishirakawa-gun, Fukushima-ken 969-0206, Japan	TEL.81-248-44-3050 FAX.81-248-44-3051
	SOUTH ASIA	CITIZEN MACHINERY ASIA CO., LTD. 69 Moo 1 Phaholyothin Road, Sanubtube, Wang Noi, Ayutthaya 13170, THAILAND	TEL.66-35-721-833 FAX.66-35-721-835
	CHINA	CITIZEN CHINA PRECISION MACHINERY CO., LTD. 366.HENGTONG ROAD OF ZHOUCUN, ZIBO, SHANDONG, P.R.CHINA	TEL.86-533-6150560 FAX.86-533-6161379
	EUROPE-Germany	CITIZEN MACHINERY EUROPE GmbH Mettinger Strasse 11, D-73728 Esslingen, GERMANY	TEL.49-711-3906-100 FAX.49-711-3906-106
	EUROPE-UK	CITIZEN MACHINERY UK LTD. 1 Park Avenue, Bushey, WD23 2DA, UK	TEL.44-1923-691500 FAX.44-1923-691599
	AMERICA	MARUBENI CITIZEN-CINCOM INC. 40 Boroline Road Allendale, NJ 07401, U.S.A.	TEL.1-201-818-0100 FAX.1-201-818-1877

URL: <http://cmj.citizen.co.jp/>

All specifications are subject to change without prior notice. This product is an export control item subject to the foreign exchange and foreign trade act. Thus, before exporting this product, or taking it overseas, contact your CITIZEN machine dealer. Please inform your CITIZEN machine dealer in advance of your intention to re-sell, export or relocate this products. For the avoidance of doubt products includes whole or part, replica or copy, technologies and software. In the event of export, proof of approval to export by government or regulatory authority must be evidenced to CITIZEN. You can operate the machines after the confirmation of CITIZEN. CITIZEN is a registered trademark of Citizen Holdings Co., Japan.