CITIZEN

Miyano

BNA42MSY

Fixed Headstock Type CNC Automatic Lathe

Machine specification

Items		BNA-42MSY2
Machining capacity		
Max. machining diameter of bar work	SP1	42 mm Dia.
	SP2	34 mm Dia.
Max. work length		100 mm
Slide stroke		
Turret slide stroke	X1 axis	140 mm
	Z1 axis	235 mm
	Y1 axis	70 (±35 mm)
Spindle slide stroke	X2 axis	140 mm
	Z2 axis	310 mm
Spindle		
Number of spindle		2
Inner diameter of draw tube	SP1	43 mm Dia.
	SP2	30 mm Dia.
Spindle speed range	SP1	6,000 min^{-1}
	SP2	5,000 min^{-1}
Collet chuck type	SP1	Hardinge S20, DIN 173E,
		B&S 22D, HAINBUCH SK42
	SP2	Spring collet, DIN171E, B&S 22
Power chuck type		5"thru-hole chuck
Spindle minimum index angle	SP1	0.001°
	SP2	0.001°
Turret		
Number of turret		1
Type of turret		8st.
Shank size of turning tool		20 mm squ.
Diameter of sleeve holder		25mm Dia.
Revolving tools		
Number of revolving tools		Max. 8
Tool spindle speed range		Max. 6,000min^{-1}
Machining capacity	Drill	Max.10 mm Dia.
	Tap	Max. M8×1.25
Feed rate		
Rapid Feed rate	X1 axis	20 m/ min
	Z1 axis	20 m/ min
	Y1 axis	12 m/ min
	X2 axis	12 m/ min
	Z2 axis	20 m /min
Motors		
Spindle drive	SP1	11/ 7.5kw (15min/ cont.)
	SP2	5.5/ 3.7kw (15min/ cont.)
Revolving tool drive		1.0 kW
Power supply		
Electrical capacity		29 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 swich, Signal tower,		
Coolant mist collector, Automatic fire- extinguishing equipment,		
Automatic power shut-off, Chip conveyor, Chip box, Parts catcher, Parts conveyor,		
Drill breakage detector, RS-232C, 100V		

NC Specification

Model device	MITSUBISHI M70V
Display devise	8.4"color LCD
Controllable axis	
command specified axes	X1, Z1, Y1, C1, X2, Z2, C2-axis
auxiliary axes	C3, TI-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	160m
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	
Arbitrary superposition function	
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	
Tool nose R compensation function	
Arc radius specification	
Thread cutting canned cycle	
Spindle synchronizing control function	
Milling interpolation	
Option	
Helical interpolation, Corner chamferring/ Radius function,	
Spindle synchronous tap function, Revolving tool synchronous tap function,	
Custom macro, Multiple canned cycles for turning, Canned cycles for drilling,	
Inchi/ metric change	

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