

CITIZEN

Miyano

BNA42GT

Fixed Headstock Type CNC Automatic Lathe



Machine specification

Items		BNA-42GT	
Machining capacity			
Max. machining diameter of bar work	SP1	φ42 mm	
	SP2	φ34 mm	
Max. machining length		110 mm	
Spindle			
Number of spindle		2	
Spindle speed range	SP1	6,000 min ⁻¹	
	SP2	5,000 min ⁻¹	
Spindle minimum index angle	SP1	0.001°	
	SP2	0.001°	
Turret			
Number of turret		2	
Tool for SP1	Turning	3	
		-	
Revolving tool	Turning	3	
		-	
Tool for SP2	Turning	5	
		-	
Revolving tool	Turning	-	
		-	
Type of turret		8 St.	
Revolving tool		8 (Op.)	
Max. number of tools		21- 43	
Shank size of turning tool		20 mm Sq.	
Diameter of sleeve holder		25 mm Dia	
Revolving tool chuck		AR16 (10 mm Dia)	
Tool spindle speed range		6,000 min ⁻¹	
Slide stroke			
Traverse rate/ Feed rate	Z1 axis	110 mm	30 m/ min
	X1 axis	95 mm	24 m/ min
	Y1 axis	260 mm	30 m/ min
	Z2 axis	235 mm	20 m/ min
	X2 axis	140 mm	20 m/ min
	Y2 axis	70 mm	12 m/ min
	Z3 axis	360 mm	20 m/ min
	X3 axis	190 mm	12 m/ min
Motors			
Spindle drive	SP1	11/ 7.5kw (15 min/ cont.)	
	SP2	5.5/ 3.7kw (15 min/ cont.)	
Revolving tool drive	Turret	1.0 kW	
Gang tool		1.5 kW	
Tank capacity			
Coolant tank capacity		165 L	
Hydraulic tank capacity		7 L	
Lubricating tank capacity		2 L	
Power supply			
Voltage		AC 200/ 220 V ± 10%	
Capacity		28 KVA	
Fuse		100 A	
Air supply		0.5 MPa	
Machine dimensions			
Machine height		1,680 mm	
Floor space		W 2,350× D 1,475 mm	
Machine weight		3,740 kg	
Options			
Spindle air blow, Spindle Brake, High pressure coolant,			
Inner High pressure coolant & Air blow, Coolant level swich, Signal tower,			
Coolant mist collector, Automatic power shut-off, Chip conveyor, Chip box, Parts catcher, Parts conveyor,			
Drill breakage detector, RS-232C, 100V, LFV			

NC Specification

Model device	MITSUBISHI M730VS
Display devise	10.4" color LCD
Controllable axis	
command specified axes	X1, Z1, Y1, C1 -axis X2, Z2, Y2, C2 -axis X3, Z3 -axis
auxiliary axes	C3, C4, T1 -axis
Control axis groups	3 groups
Input code	ISO
Command input system	Incremental and absolute
Feed command system	Per rotation feed and per minute
Cutting feed rate and Rapid feed override	Max.100%
Tool offset data	80 pairs
Program storage capacity	320 m
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	
Background editing	
Simultaneous program editing two control axis group	
Editing support functions	
Calculator function	
Code list display	
Coordinate calculation function	
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 chamfering/ Radius function,	
Spindle synchronous tap function, Revolving tool synchronous tap function,	
Custom macro, Multiple canned cycles for turning, Canned cycles for drilling,	
Inch / metric change, Rotary tool feed per revolution	

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