

CITIZEN

Miyano

BNE51MSY

Fixed Headstock Type CNC Automatic Lathe



Machine specifications

Item	BNE-51MSY	
Machining capacity		
Maximum work length		90 mm
Maximum bar diameter	SP1	φ51 mm
	SP2	φ51 mm
Spindle		
Number of spindles		2
Spindle speed	SP1	5,000 min ⁻¹
	SP2	5,000 min ⁻¹
Spindle nose	SP1	A2-6
	SP2	A2-6
Draw tube Dia.	SP1	φ52
	SP2	φ52
Type of collet chuck	SP1	H-S22/ DIN177E
	SP2	H-S22/ DIN177E
Power chuck size and type	SP1	6" (φ169)
	SP2	6" (φ169)
Turret		
Number of turret		2
Turret stations	HD1	12 ST.
	HD2	12 ST.
Shank size of square turning tool		20 mm Sq.
Diameter of drill shank		φ25 mm
Revolving tool		
Number of revolving tools		Max.12+12
Type of revolving tools		Single clutch
Tool spindle speed range		Max. 6,000 min ⁻¹
Feed rate		
Rapid feed rate	X1 axis	18 m/ min
	Z1 axis	20 m/ min
	Y1 axis	12 m/ min
	X2 axis	16.2 m/ min
	Z2 axis	18 m/ min
	X3 axis	18 m/ min
	Z3(B) axis	20 m/ min
	Slide stroke	X1 axis
Z1 axis		380 mm
	Y1 axis	80 (±40) mm
	X2 axis	195 mm
	Z2 axis	175 mm
	X3 axis	155 mm
	Z3(B) axis	450 mm
	Motors	
Spindle motor	SP1	15/ 11 kw (15min./ cont)
	SP2	7.5/ 5.5 kw (15min./ cont)
Revolving tool motor		2.2 kw 20 Nm / 4.0kw 25Nm(op.)
Hydraulic operating motor		1.5 kw
Lubricating motor		0.023 kw
Coolant motor		0.25 kw
High-pressure coolant motor		0.8/ 1.36 kw (50/60Hz)
Turret index motor		0.7 kw
Power supply		
Capacity		44 KVA
Voltage		AC 200/ 220 V
Air supply		0.5 Mpa
Fuse		125 A
Tank capacity		
Hydraulic oil tank capacity		10 L
Lubricating oil tank capacity		4 L
Coolant tank capacity		350 L
Machine dimensions		
Machine height		2,050 mm
Floor space		W 2,725×D 2,159mm
Machine weight		8,000 kg
Optional accessories		
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 coolant & Air blow, Tool setter		
Parts Catcher, Parts Box, Collet chuck system, Chip conveyor, Total & preset counter		
Oil mist collector, Signal tower, Filler tube, Spindle inner bushing, Bar feeder inner bushing		
Cut-off confirmation, Parts carrier, Left over catcher, Drill checker, Drill checker touch (HD1)		
Thermo revision, 100V, Revolving tool power No.1 (25Nm).		

NC specifications

Model device	MITSUBISHI M730VS
Command specified axes	HD1: X1, Z1, Y1,
	HD2: X2, Z2,
	SP1 : C1,
	SP2 : C2,
	SP2 Slide : X3, Z3
Auxiliary axes	HD1 Revolving tool : C3
	HD1 Revolving tool : C4
	HD1 Index T1
	HD2 Index T2
Control axis groups	3 groups
Input code	ISO
Command input system	Incremental and absolute
Tool offset data	200 pairs
Feed command system	Per rotation feed and per minute
Cutting feed rate and	Max.100%
Rapid feed override	
Zero return function	Manual zero return
On machine program check function	Manual pulse generator
Program storage capacity	512KB (1200 m)
Input/Output interface	Compact flash card slot
Spindle C-axis function	0.001°
Display devise	10.4" color LCD
Standard function	
Start position automatic return, Manual feed function	
Manual data input (MDI) function, Back up function	
Operation time display, Product counter display	
Cycle time check function, Automatic screen off function	
Optional block skip, Optional stop	
Constant surface speed control Cut off confirmation	
Corner chamfering/ Radius function	
Tool nose R compensation function	
Arc radius specification, Thread cutting canned cycle	
Spindle synchronizing control function	
Revolving tool synchronous tap function	
Spindle synchronizing control function, Custom macro	
Multiple canned cycles for turning, Canned cycle for drilling	
High speed program check function, Milling interpolation	
Helical Interpolation	
Preparation functions	
Start position automatic return, Waiting point automatic return	
Sub spindle retract return, Turret retract return	
Automatic cut-off machining function, Tool set function	
Spindle speed set function, Tool select function	
Chuck adjustment function, AUX Manual select function	
JOG operation function, Handle operation function	
Spindle speed simultaneous command for 3 spindle	
3 Sets of M code simultaneous command	
Control axis swap function, Arbitrary superposition function	
Background editing, Function to superimpose 2 pairs of axes	
Editing support functions	
Calculator function, Code list display, Code insert, Coordinate calculation function,	
Format check	
Option	
Automatic power shut-off, Thermo revision, tool setter, Eco function RS232C	

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