

CITIZEN

Miyano

BNC42

Fixed Headstock Type CNC Automatic Lathe



Machine specifications

Item	BNC-42C	
Machining capacity		
Max. work length		175mm*
Max. machining diameter of bar work	SP1	42mm Dia.
Spindle		
Number of spindle		1
Spindle speed range	SP1	60 - 6,000min ⁻¹
Inner diameter of draw tube	SP1	43mm Dia.
Collet chuck type	SP1	Hardinge S20, DIN173E, B&S#22D, JPN34
Power chuck type	SP1	5", 6" thru-hole chuck
Turret		
Type of turret	HD1	8ST.
Shank size of turning tool		20mm Sq.
Diameter of sleeve holder		25mm Dia. , 32mm Dia.
Slide stroke	X axis	135mm
	Z axis	235mm
Rapid feed rate	X axis	20m/min
	Z axis	20m/min
Revolving tool		
Number of revolving tools		Max. 8
Type of revolving tools		Single clutch
Tool spindle speed range		50 - 5,000min ⁻¹
Machining capacity	Drill	Max. 10mm Dia.
	Tap	Max. M6×1 (S45C)
		M8×1.25 (Spiral tap and point tap only)
		Max. M8×1.25(BSBM)
Tailstock (option)		
Max.slide stroke		175mm
Live center size		MT2
Max.slide force		4.3KN (at 3.4MPa)
Motors		
Spindle drive	Cs	7.5/5.5kw (15min./cont)
Revolving tool drive		2.8/1.0kw
Coolant pump		0.18kw
High pressure coolant drive		1.0/0.6kw (60/50Hz)
Tank capacity		
Hydraulic oil tank capacity		7L
Lubricating oil tank capacity	2L	
Coolant tank capacity		165L
Machine dimensions		
Machine height		1,686mm
Floor space		W2,272×D1,270mm
Machine weight		2,400kg
Option		
Spindle air blow, High pressure coolant, Coolant level switch, Counter, Signal tower,		
Automatic fire- extinguishing equipment, Automatic power shut-off, Revolving tool, Tailstock,		
Chip conveyor, Chip box, Part catcher, Part conveyor, Cut-off confirmation		
Drill breakage detector, Foot switch, RS-232C		

*Restrictions apply depending on the chuck.
JPN34, B&S#22D, 5" power chuck ... 175 mm, DIN173E ... 160 mm, H-S20 ... 150 mm

NC Specification	
Model device	FS.0I-TD
Controlled axis	X,Z,E (Turret),C,A(Revolving tool/Option)
Min. input increment	0.001mm (Diameter for X axis), 0.001deg.
Min. output increment	X axis: 0.0005mm, Z axis: 0.001mm
Parts program storage capacity	320kB (800mTape length)
Spindle function	Spindle speed S4-digits, directly specified (G97), Constant Cutting speed control (G96)
Cutting feed rate	F3.4 digit per revolution, F6 digit per minute, directly specified.
Cutting feed rate override	0 - 150% (in 10% increments)
Interpolation	G01, G02, G03
Threading	G32, G92
Canned cycle	G90, G92, G94
Work coordinate setting	Automatic Setting, 64 work coordinate setting by the tool position memory and the geometry offset.
Tool selection and work coordinate settings, and tool wear compensation	Tool selection and work coordinate settings are selected from 1-64 by T##** at the specified position for each turret tool wear compensation is selected by**.
Direct input of tool position	by measured MDI
Input/Output interface	Reader pancha interface, Memory card interface USB memory card interface.
Automatic operation	1 cycle operation/Continuous operation, Single block Block delete, Machine lock, Optional block skip Dry run feed hold.
Others	8.4" color LCD, No of registered programs: 400 Decimal point input, Manual pulse generator Memory protect, AC digital servo motor.
NC standard functions	Chamfering/Corner R, Tool nose R compensation Constant peripheral speed (G96), Background editing Programmable data input (G10), Operating time/ Parts No. display Multiple repetitive canned cycle (G70 - G76) Rigid tap function (Main & sub), Cylindrical interpolation Custom macro B, Drilling canned cycle (G80 - G86) Tool life management system.

CITIZEN MACHINERY CO., LTD.

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