CITIZEN





Machine specifications

Machining capacity		BNJ-42S6 BNJ-42SY6	BNJ-51SY6	NC s	
Machining capacity		100		Dev	
Maximum machining length	Caladia Na. 1	100 mm	E1 aver Die	Cont	
Diameter of standard cutting	Spindle No. 1 Spindle No. 2	42 mm Dia. 42 mm Dia.	51 mm Dia.		
Chuck size	Spindle No. 1	5 inch	6 inch	Min.	
Childek Size	Spindle No. 2	5 inch	omon	Min.	
Spindle					
Number of spindle		2		Parts	
Spindle speed range	Spindle No. 1	6,000 min ⁻¹	5,000 min ⁻¹	Spin	
	Spindle No. 2	5,000 min ⁻¹			
Inner diameter of draw tube	Spindle No. 1	43 mm Dia.	52 mm Dia.	Rapi	
	Spindle No. 2	43 mm Dia.		. 1.	
Collet chuck	Spindle No. 1	H-S22, DIN177E			
Power chuck	Spindle No. 2 Spindle No. 1	JPN, H-S16, DIN171E	6" thru-hole chuck	Cutt	
Power chuck	Spindle No. 2	5" thru-hole chuck 5" thru-hole chuck	6 thru-hole chuck	Cutt	
Turret	Spinule No. 2	5 thid-hole chuck			
Number of turret		2		Inter	
Type of turret	Turret No. 1	12 station turret		Thre	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Turret No. 2	8 station turret		Can	
Shank height of square turning tool		20 mm Sq.		Wor	
Diameter of drill shank		25 mm Dia.			
Revolving tools				Tool	
Number of revolving tool	Turret No. 1	Max. 12			
	Turret No. 2	Max. 4		Dire	
Type of revolving tool	Turret No. 1	Single clutch		Inpu	
	Turret No. 2	Simultaneous drive in all positio	ons	Auto	
Tool spindle speed range	Turret No. 1	6,000 min ⁻¹			
Machining capacity Drill	Turret No. 2 Turret No. 1		3,000 min ⁻¹		
Machining capacity Dilli	Turret No. 2	Max. 13 mm Dia. Max. 10 mm Dia.		NC s	
Тар	Turret No. 1	Max. M12×1.75 (S45C-D)		10.4	
ιάρ	Turret No. 2	Max. M6×1.0 (S45C-D)		Man	
Slide stroke				Prog	
Turret slide stroke	X1 axis	165 mm			
	Z1 axis	246 mm		Char	
	Y1 axis	80 (±40) mm		Syn	
Spindle slide stroke	X2 axis	85 mm		Mul	
	Z2 axis	590 mm		Can	
Feed rate				Rigio	
Rapid feed rate	X1 axis	20 m/ min		Han	
	Z1 axis Y1 axis	20 m/ min		Refe	
	X2 axis	12 m/ min 20 m/ min		NC o	
	Z2 axis	20 m/ min		Helio	
Motors	EE UNIO	2011,1111			
Spindle drive	Spindle No. 1 Cs	15/ 11 kw (15 min/ cont.)			
	Spindle No. 2 Cs	7.5/ 5.5 (15 min/ cont.)		Envi	
Revolving tool drive	Turret No. 1	2.2 kw			
	Turret No. 2	0.75 kw			
Slide		1.2 kw (X1, Z1, Y, X2, Z2)		Basic Inform	
Hydraulic oil motor		2.2 kw		morm	
Lubricating oil motor		0.004 kw			
Coolant pump		0.25 kw×1, 0.18 kw×1			
Turret index motor		0.75 kw			
Power supply		AC 200/ 220±10% 50/ 60 Hz±	1.0/		
-	oltage		1 %	Enviror	
Capacity Air supply		33 KVA 0.5 MPa		Perform	
Air supply Fuse		100 A		Inform	
Tank capacity					
Hydraulic oil tank capacity		10 L			
Lubricating oil tank capacity		4 L			
Coolant tank capacity		300 L			
Machine dimensions					
Machine height		1,700 mm		Approa	
Floor space		2,840×1,560 mm (without Chip conveyor)		Environ	
			, source (si		
Machine weight Others		5,300 kg	, conveyor,	Issues	

NC specifications			
Device	FS 0i-TF		
Controlled axis	Simultaneously controlled axis Max.4		
	X1, Z1, Y1, Cs1, A1, A2(Opt.) X2, Z2, Cs2,		
Min. input increment	0.001 mm, 0.0001 inch, 0.001 deg		
Min. output increment	X axis: 0.0005 mm, X axis: Z0.001 mm		
	Y axis: 0.001mm		
Parts program strage capacity	Total 1MB (2,560mTape length)		
Spindle function	Spindle speed S4-digits		
	Constant Cutting speed control (G96)		
Rapid traverse rate	X1, X2, Z1 axis: 20m/ min		
	Z2 axis: 20m/ min		
	Y1 axis: 12m/ min		
Cutting feed rate	F 3.4 digit per revolution		
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		
Tool selection	by TAABB at the specified position for each		
	turret tool wearcompensation is selected by BB.		
Direct input of tool position	by measured MDI		
Input/ Output interface	USB, PC Card slot		
Automatic operation	1 cycle operation/ Continuous operation, Single block		
	Block delete, Machine lock, Dry run, feed hold		
	Optional block skip		
NC standard functions			
10.4"color LCD, No of resistere	d programs: 800, Decimal point input		
Manual pulse generator, Memo	protect, Polar coordinate interpolation		
Programable data input (G10),	C-axis control (SP1/SP2), superimposed control A		
	se R compensation, Background editing		
Synchronous mixed control, O	perating time/ Parts No. display		
Multiple repetitive canned cyc	le (G70-G76), Continuous threading		
	life management system, Variable-lead cutting		
	evolving tool), Circular interpolation, Custom macro		
	on cutting, Synchronized function, Dual check safety		
Reference position setting.			
NC option			

lical interpolation, RS-232C.

Environme	ental Information		
	model		
Basic Information		Power supply voltage	AC200V
	Energy usage	Electrical power requirement (Max)	33KVA
		Required pneumatic pressure	0.5MPa
Environmental Performance Information	Power consumption	Standby power*1	4.843kW
		Power consumption with model workpiece*2	0.0798kWh/cycle*3
		Power consumption value above converted to a CO2 value*4	37.8g/cycle
	Air consumption	Required air flow rate	max90NI/min: during air blow
	Lubricant consumption	At power ON	6co/15min
	Noise level	Value measured based on JIS	78dB
	Environmental load reduction	RoHS Directive / REACH regulations	Compliant
	Recycling	Indication of the material names of plastic parts	Covered in the instruction manual*5
Approach to Environmental Issues	Environmental management		We are ISO14001 accredited. We pursue "Green Procurement," whereby we make our purchases while prioritizing goods and services that show consideration for the environment.

nat turns servomotor excitate not cutting) for one of our sta

SP2 Work ejector & inner high pressure coolant, Chuck close confirmation, Total & preset counter (Custom menu)

Optional accessories

Cut-off confirmation, High pressure coolant, Revolving tool (HD2), Spindle brake, Drill breakage detector, Air blow, Part carrier, Parts catcher & Parts conveyor, Chip conveyor, Chip box, Coolant level switch, Bar feeder interface, Coolant mist collector & blast-proof damper, Signal tower, Automatic power shut-off,

Automatic fire extinguishing equipment, Thermo revision, Tool holder, tools, etc.

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