

CITIZEN

Cincom

R01/04

Sliding Headstock Type CNC Automatic Lathe



Machine Specification

Item	R01 / R04	
	Type II (R01-5F2, R04-5F2)	Type VI (R01-5F6, R04-5F6)
Max. machining diameter (D)	1 mm / 4 mm dia. (7 mm Dia. ^{OP})	
Max. machining length (L)		
Fixed guide bushing	20 mm / 40 mm	
Rotary guide bushing	20 mm / 30mm	
Max. front drilling diameter	3 mm dia.	
Max. front tapping diameter	M3 (cutting tap)	
Spindle through-hole diameter	10 mm dia.	
Spindle speed	Max. 20,000 min ⁻¹ (Over size : 16,000 min ⁻¹)	
Max. chuck diameter of the back spindle	---	1 mm / 4mm dia.
Max. workpiece protrusion length from the back spindle	---	10 mm
Maximum collectable part length	20 mm / 40 mm	
Max. drilling diameter in the back machining	---	3 mm dia.
Max. tapping diameter in the back machining	---	M3
Back spindle speed	---	Max. 20,000 min ⁻¹ Over size : 16,000 min ⁻¹
Rotary tool on the gang tool post		
Max. drilling diameter	2 mm dia.	
Max. tapping diameter	M2 (cutting tap)	
Spindle speed	Max. 8,000 min ⁻¹	
Number of tools mountable	13	17
Turning tool	7	7
Rotary tool on the gang tool post	2 (3 ^{OP})	2 (3 ^{OP})
Front drilling tool	4	4
Back drilling tool	---	4
Tool size		
Tool (gang)	8 mm sq.	
Sleeve	15.875 mm sq.	
Chucks / bushings		
Spindle collet chuck	FCD08-M (FC090-M ^{OP})	
Back spindle collet chuck	---	FCD08-M (FC090-M ^{OP})
Rotary tool collet chuck	ER11	
Chuck for drill sleeves	ER8, ER11	
Guide bushing	WFG044-M (WFG601-M ^{OP})	
Rapid feed rate		
All axes	30 m/min	
Motor		
for spindle drive	0.5/ 0.75 kW	
for rotary tool on the gang tool post	0.1 kW	
for back spindle drive	---	0.5/ 0.75 kW
for coolant	0.06 kW	
for lubrication	0.003 kW	
Center height	1,000 mm	
Rated power consumption	2.3 kVA	3.4 kVA
Full-load current (main breaker capacity)	5 A(20 A)	10 A(20 A)
Pneumatic device Required pressure, Required flow rate	0.5 MPa, 32 NL/min (At power ON) / 70 NL/min (In normal state) / 136 NL/min (During air blow)	
Machine footprint	1,465 × 535 × 1,633 mm	
Weight	1050 kg	1100 kg

Main standard accessory devices

Spindle chucking device	Back spindle chucking device *Only for type VI
Headstock cooling device	Rotary tool spindle drive device of the gang tool post
Coolant device (with level detector)	Lubricating device (with level detector)
Workpiece separator	Longitudinally adjustable fixed guide bushing device
Machine relocation detector	

Special accessory devices

Open/close guide bushing device	Knock-out jig for through-hole workpiece
Suction-type workpiece separator	Compact (4-division) workpiece separator
Cut-off tool breakage detector	Signal lamp
3-color signal tower	Coolant flow rate detector
Work light	Magnet-equipped filter
Dual chucking device	

Standard NC functions

Axis feed overlap function	Preprocessing function
In-machine tool set function	On-machine program check function
Manual data input (MDI) function	Manual feed function
Background edit function	Display of code list
Part count function	Cycle time check function
Automatic backlight turning-off function	Input/output interface
Door open detection function	Door lock function
Automatic power-off function	Optional stop
Memory protection function	Interference check function
Machine lock	Chamfering ON / OFF
Exact stop check	Error detect ON / OFF
Tool offset 16 pairs	Subprogram call function
Spindle speed fluctuation detection function	Spindle constant surface speed control function
Continuous thread cutting	Thread cutting canned cycle
Back spindle pick-off failure detection function	Program storage capacity 40 m (16 KB)
Sub-microns command	Spindle 15° indexing function
Optional block skip	Chamfering/Corner rounding
Multiple repetitive cycle for turning	Canned cycle drilling
Nose radius compensation	

Special additional NC functions

Spindle C-axis function	Spindle synchronized tapping function
Spindle synchronized control function *Only for type VI	Spindle 1° indexing function
Back spindle synchronized tapping function	Back spindle 1° indexing function *Only for type VI
Back spindle C-axis function *Only for type VI	Rotary tool synchronized tapping function
Cut-off tool breakage detection function program	B code I/F
Tool offset pairs 32 pairs	Tool life management I
User macro	Tool life management II
Polygon machining function	Program storage capacity 80 m (32 KB)
Variable lead thread cutting	Program storage capacity 120 m (48 KB)
Optional block skip (9 sets)	Program storage capacity 160 m (64 KB)
Sub inch command	Program storage capacity 320 m (128 KB)
Drawing dimension direct input	Program storage capacity 600 m (240 KB)
Network I/O function	Program storage capacity 1280 m (512 KB)
Environmental Information	Program storage capacity 2560m (1MB)

Environmental Information

Basic Information	Energy usage	Supply voltage	AC200V
		Electrical power requirement	2.3 kVA; Type II 3.4 kVA; Type VI
		Required pneumatic pressure	0.5MPa
Environmental Performance Information	Power consumption	Standby power	0.314kW
		Power consumption with model workpiece ^{*1}	0.0052kWh/ cycle
		Power consumption value above converted to a CO2 value ^{*2}	2.58 g / cycle
	Air consumption	Required air flow rate	32NI / min(Power on), 70NI / min (Normal state), 136NI / min (With air blow)
	Lubricating oil consumption	At power ON	0.6cc / 60min
	Noise level	Value measured based on JIS	75.4dB
	Environmental load reduction	RoHS Directive / REACH regulations	Compliant
Approach to Environmental Issues	Recycling	Indication of the material names of plastic parts	Covered in the instruction manual ^{*3}
	Environmental management		We pursue 'Green Procurement', whereby we make our purchases while prioritizing goods and services that show consideration for the environment.

*1: This is the power consumption in program operation (when not cutting) for one of our standard test pieces, shown for the purpose of comparing the environmental performance with that of existing models.

*2: This is the value converted in accordance with the CHUBU Electric Power CO2 emissions coefficient for 2014 as published by the Ministry of the Environment.

*3: If polyvinyl chloride (PVC) and fluorine resin are not processed correctly, they can generate harmful gases. When recycling these materials, commission a contractor that is capable of processing them appropriately.

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