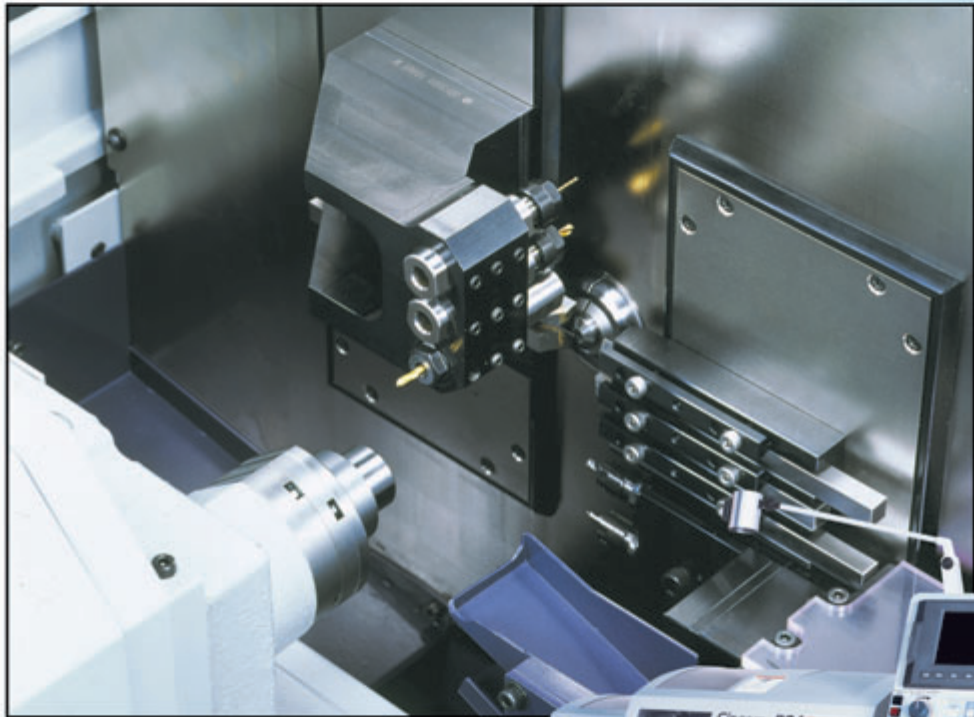


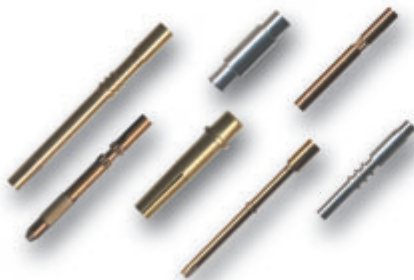
Marubeni Citizen-Cincom Inc.

# Cincom R04 Type VI



Super-high speed  
Super-high precision

The ultimate machine for tiny precision parts



# Cincom R04 means rapid progress with high tolerance and productivity, while utilizing very little space.

## ■ SUPER HIGH-SPEED TURNING

The new main spindle and chucking mechanism results in state-of-the-art, super high-speed turning resulting in greatly reduced machining time.

## ■ NEW SLIDE STRUCTURE

CITIZEN developed the optimum slide structure for machining tiny parts. The new slide is driven by a linear motor, without any deflection and backlash from power transmission, resulting in the highest-speed, the highest response and making the least noise. Moreover, equipped with two independently driven gang tool posts, the Cincom R04 processes as a Cam-lathe.

## ■ COMPACT AND EFFICIENT DESIGNING

The CITIZEN R04 requires half the space of a B12, due to the design of the built-in spindle and linear motor. Productivity space per unit is drastically improved.

### Standard Accessories

- Main spindle chuck
- Workplace separator
- Stationary guide bushing device
- Chasing device
- Stand-alone coolant tank with level sensor
- Door switch

### Optional Accessories

- Stationary guide bushing device with open/close function
- Bar loader
- Small 4-division separator
- Chip conveyor
- Cutoff tool breakage detector
- Coolant flow rate detector
- Workpiece unloading device
- Patrol lamp indicator
- Illuminator

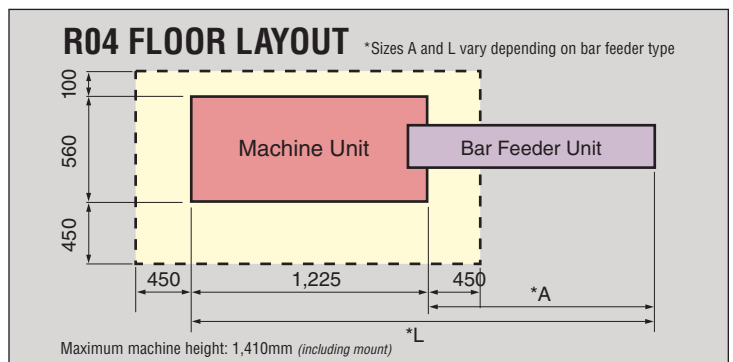
### Standard NC Functions

- NC unit dedicated to the R series
- 7" monochrome LCD display
- Display language
- Axis control group count: 5
- Input code: ISO
- Command input: incremental or absolute
- Feed command: millimeters per revolution feed or millimeters per minute feed
- Zero point return function
- Automatic return to return position
- Automatic return to queuing position
- Automatic return to the start position
- On-machine program check function
- Automatic power off function
- Tool offset pairs: 16
- Macro dedicated to the R series
- Background editing
- Input/output interface: RS232C/PC card
- Operating time display
- Product counter: Up to 8 digits
- Manual feed function
- Self diagnostic function
- Program storage capacity equivalent to 20m
- Alarm history display
- Main spindle 15° index

### Optional NC Functions

- Program storage capacity  
Equivalent to 40m of tape  
Equivalent to 80m of tape  
Equivalent to 120m of tape
- Corner chamfer/round function
- 1° indexing, main, back
- Canned cycle for drilling
- Tool noise radius compensation
- Continuous thread cutting
- Synchronous tapping

ITEM	Specification Type VI
Maximum machining diameter	5/32in. / φ4mm
Maximum machining length	2in./50mm per chucking
Main spindle through hole diameter	φ9mm
Main spindle speed	200-20,000 min-1
Main spindle speed change	Stepless 5-digit
Main spindle indexing	15°
Back spindle speed	100-10,000 min-1
<b>Live tool spindle</b>	
Maximum spindle speed	8,000 min-1
Spindle speed change	Stepless S 4-digit
<b>Collet chuck and guide bushing</b>	
Main spindle collet chuck	TF8
Guide bushing	PD4
Drill chuck	AR8, ER8
Number of cutting tools	Maximum 13
Turning tool on tool post 1	3
Turning tool on tool post 2	2
ID tool on tool post 2	3 x 2 (front & back)
Rotary tool post 1	2
<b>Tooling size</b>	
Turning tool	5/16in.sq.
Drill sleeve diameter	5/8in.
Rotary tool	φ6 (ER8)
<b>Rapid speed</b>	
X1, X2 Axis	30 m/min
Y1, Y2 Axis	30 m/min
Z1 Axis	30 m/min
Z3 Axis	20 m/min
Least input increment	
X1, X2, Y1, Y2, Z1 Axis (option)	0.0001 mm
Maximum material length	59 in.
Center height	39.37 in.
<b>Motor power 1</b>	
Main spindle	0.75/1.1kW
Back spindle	0.4kW
Rotary tool	0.2kW
<b>Motor power 2</b>	
X1, X2 Axis	0.4/14kW
Y1, Y2 Axis	0.4/14kW
Z1 Axis	0.6/2kW
Z3 Axis	0.2kW
Coolant pump	0.18kW
Power consumption	4KVA
Coolant tank capacity	25 liters
Floor layout	560 depth x 1,225 width x 1,410 height
Weight	800 kg



CITIZEN. The World Leader in CNC Swiss Turning.

# Marubeni Citizen-Cincom Inc.

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