## CITIZEN

**Cincom** L12 Sliding Headstock Type CNC Automatic Lathe



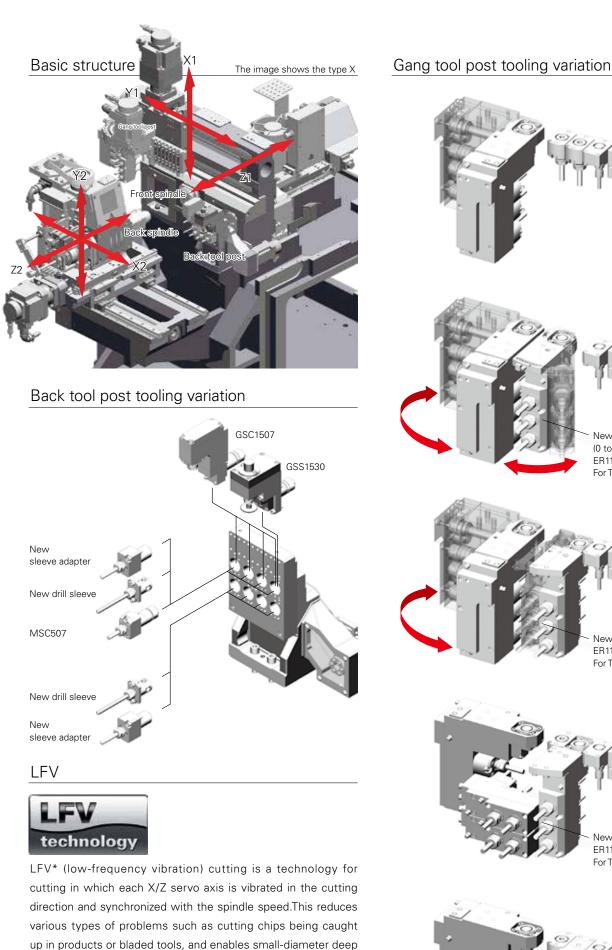


# Adoption of a modular tooling system. Addition of Y2 axis for even higher functionality.

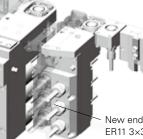
A modular tooling system has been adopted for the gang and back tool posts. The wide variety of tooling layouts available, such as "adjustable angle end-face spindle" that allows for slanted hole drilling, enable you to perform various kinds of machining. Equipping of a Y2 axis <sup>Type X</sup> to the back spindle strengthens back machining.

This increases the degree of freedom for process allocation, and increases the maximum number of tools that can be installed to 38 <sup>Type X</sup> and 34 <sup>Type VIII</sup>. Additionally, adoption of a built-in motor for the back spindle drive enables a maximum speed of 12,000 min<sup>-1</sup>. This reduces the acceleration/deceleration time to improve productivity. Compatible with oversize of 16 mm dia.



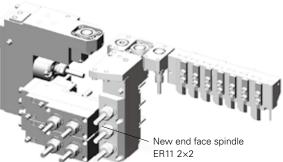


New end face slanted spindle (0 to 30°) ER11 3×3 For T10

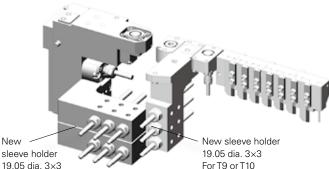




New end face spindle ER11 3×3 For T9 or T10



For T12/T13



sleeve holder 19.05 dia. 3×3

For T12/T13

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 LFV machining cannot be performed with the Y axis.
Up to one pair (= two axes) can be operated simultaneously as LFV machining.
LFV machining using rotary tools requires the "LFV function" and "Rotary tool per rotation feedrate" options.

Back performs

standard cutting

VIII, X

hole drilling and machining of materials that are difficult to cut.

Front performs

standard cutting

\* LFV is a registered trademark of Citizen Watch Co., Japan.

### Machine Specification

Item	L12		Main standard accessories			
	VIII	x	Main spindle chucking unit	Back spindle chucking unit		
	L12 - 2M8	L12 - 2M10	Gang rotary tool driving unit	Coolant oil supply unit (with level detector)		
Max. machining diameter (D)	12 mm dia.			Air-driven knock-out device for back machining		
Max. machining length (L)	135 mm/1 chucking (GB), 30 mm (GBL)		Lubricating oil supply unit			
Max. front drilling diameter	8 mm dia.		(with level detector)			
Max. tapping diameter for the front spindle	M6		Machine relocation detector	Door lock		
Spindle through-hole diameter	20 mm dia.		Product chute	Automatic fire extinguishing unit		
Main spindle speed	Max. 15,000 min <sup>-1</sup> (GB), Max. 12,000 min <sup>-1</sup> (GBL)		Lighting			
Max. chuck diameter for the back spindle	12 mm dia.					
Max. protrusion length	80 mm		Special accessories	Special accessories		
Max protrusion length of the back spindle workpiece	30 mm		Rotary guide bushing unit	Motor-driven knock-out device for back machining		
Max. drilling diameter for the back spindle	8 mm dia.		Cut-off tool breakage detector	Workpiece conveyor		
Max. tapping diameter for the back spindle	M6		Knock-out jig for through-hole workpiece	Chip conveyor		
Back spindle speed	Max. 12,000 min <sup>-1</sup>		Scratchproof chute part	Medium-pressure coolant unit		
Gang rotary tools						
Max. drilling diameter	5 mm dia.		Workpiece separator (For front)	Signal lamp		
Max. tapping diameter	M4		Coolant flow rate detector	3-color signal tower		
Main spindle speed	Max. 10,000 min <sup>-1</sup>		Machine internal lighting equipment	LFV		
Back rotary tools OP			Back rotary tool driving unit			
Max. drilling diameter	5 mm dia.					
Max. tapping diameter	M4		Standard NC functions			
Main spindle speed	Max. 9,000 min <sup>-1</sup>		CINCOM SYSTEM M70LPC-VL (Mitsubishi Electric)	8.4 inch color liquid crystal display (LCD)		
Number of tools to be mounted	34 7	38	Program storage capacity: 40 m (Approx. 16 KB)	Constant peripheral speed control function		
Gang tool post	7 6 to 17	17	Tool offset pairs: 40	Automatic power-off function		
Gang rotary tools Front drills	6 to 17 Standard: 2, Max.: 11					
Back drills	4(13)	8(17)	Product counter indication (up to 8 digits)	Spindle 1° indexing function		
Tool size	4(13)	0(17)	Operating time display function	On-machine program check function		
Turning tool	□ 10 mm, □ 12 mm <sup>OPT</sup>		Spindle speed change detector	Nose radius compensation		
Sleeve	19.05 mm dia.		Chamfering/Corner R function	Spindle speed change detector		
Chuck and bushing	10.00 11111 0.00.		Eco display	Obstruction check		
Main spindle collet chuck	FC096-M		Machine operation information display			
Guide bushings	WFG541-M					
Back spindle collet chuck	FC096-M-K		Special NC functions	Special NC functions		
Rapid feed rate			Variable lead thread cutting	Tool offset pairs: 80		
All axes	35 m / min		Arc threading function	Tool life management l		
Motors				-		
Front spindle drive	2.2/3.7 kW		Geometric command function	Tool life management II		
Gang tool post rotary tool drive	0.75 kW		Spindle synchronized function	Program storage capacity: 600 m (Approx. 240 KB)		
Back spindle drive	0.75 / 1.5 kW		Spindle C-axis function	External memory program driving		
Back tool post rotary tool drive OP	0.5 kW		Milling interpolation function	Network I/O function		
Coolant oil	0.25 kW		Back spindle 1° indexing function	Submicron commands		
Center height	1,050 mm		Back spindle C-axis function	User macros		
Rated power consumption	8 KVA		Back spindle chasing function	Helical interpolation function		
Full-load current	22 A					
Main breaker capacity	40 A		Canned cycle for drilling	Inclined helical interpolation function		
Power supply voltage	AC200V ± 10%		Synchronized tapping function	Hob function		
Pneumatic unit: Required pressure and required flowrate	0.5 MPa at 44 NL/min (Power on),		High-speed synchronized tapping function	Polygon function		
	55 NL/min. (Stationary), 150 NL/min (Air blower)		Synchronized tapping phase adjustment function	Inch command		
Machine main unit dimensions	W 1,840 × D 970 × H	1,710 mm	Differential speed rotary tool function	Sub inch command		
Weight	2,200 kg		Optional block skip (9 sets)	Back machining program skip function		

Canned cycle for composite turning

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