Machine Specification

| Item | L12 type VII |
|--|-----------------------------------|
| Maximum machining diameter (D) | φ12mm |
| Maximum machining length (L) | GB:135mm/1 chuck GBL:30mm/1 chuck |
| Maximum front drilling diameter | Φ8mm |
| Maximum front tapping diameter (tap, die) | M6 |
| Spindle through-hole diameter | φ20mm |
| Main spindle speed | Max.15,000min ⁻¹ |
| Max. chuck diameter of the back spindle | φ12mm |
| Max. protrusion length | 80mm |
| Max. protrusion length of the back spindle workpiece | 30mm |
| Max. drilling diameter for the back spindle | Φ6mm |
| Max. tapping diameter for the back spindle | M5 |
| Back spindle speed | Max.10,000min ⁻¹ |
| Gang rotary tool | |
| Maximum drilling diameter | φ5mm |
| Maximum tapping diameter | M4 |
| Spindle speed | Max.10,000min ⁻¹ |
| Back tool post rotary tool Option | |
| Maximum drilling diameter | φ5mm |
| Maximum tapping diameter | M4 |
| Spindle speed | Max.9,000min ⁻¹ |
| Number of tools to be mounted | 27 |
| Gang tool post | 6 |
| Gang rotary tool | 4~9 |
| Gang drilling tool | Front 4. Back 4 |
| Back tool post | 4 |
| Tool size | |
| Tool | □10mm |
| Sleeve | φ19.05mm |
| Main spindle collet chuck | FC096-M |
| Guide bushing | WFG541-M |
| Back spindle collet chuck | FC096-M-K |
| Rapid feed rate(All axes) | 35m/min |
| Motors | |
| Spindle drive | 2.2/3.7kW |
| Gang tool post rotary tool drive | 0.75kW |
| Back spindle drive | 0.4/0.75kW |
| Back tool post rotary tool drive Option | 0.5kW |
| Lubricating oil | 0.25kW |
| Center height | 1,000mm |
| Input power capacity | 8kVA |
| Air pressure and air flow rate for pneumatic devices | 0.5MPa、60NI |
| Weight | 1,500kg |

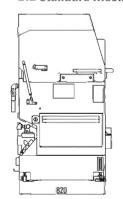
| Standard accessories | |
|---|-----------------------------------|
| Main spindle chucking device | Machine relocation detector |
| Back spindle chucking device | Door lock |
| Gang rotary tool driving devices | Workpiece separator |
| Coolant device (with level detector) | Lighting |
| Lubricating oil supply unit (with level detector) | Rotany quide hushing drive device |

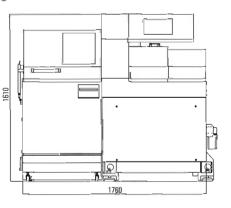
| | Special Accessories | |
|---|--|--|
| | Rotary guide bushing device | Medium-pressure coolant device |
| (| Cut-off tool breakage detector | Coolant flow rate detector |
| 1 | Knock-out jig for through-hole workpiece | Signal lamp |
| | Workpiece conveyor | 3-color signal tower |
| | | ar karakultuka antar sutt. Mantat Cibrasi (Cibrasi) (Cibrasi) antar katar karakultuk (Cibrasi) (Parta Alba), s |

| Standard NC functions | |
|---|---|
| NC unit dedicated to the L20 | Constant furface speed control function |
| 8.4 inch color liquid crystal display (LCD) | Automatic power-off function |
| Program storage capacity: 40m | Main spindle indexing at 1° interval |
| Tool offset pairs: 40 | On-machine program check function |
| | Chamfering, corner R |
| Spindle speed change detector | ~ |
| | |

| Special NC functions | |
|---|---|
| Variable lead thread cutting | Differential speed rotarytool function |
| Arc threading function | Tool offset pairs : 80 |
| Geometric function | Tool life management I |
| Spindle synchronized function | Tool life management II |
| Spindle C-axis function | Program storage capacity 600m |
| Milling interpolation | External memory program driving |
| Back spindle 1°indexing function | Submicrom commands |
| Back spindle C-axis function | User macros |
| Back spindle chasing function | Helical interpolation function |
| Multiple repetitive cycle for turning | Inclined helical interpolation function |
| Canned cycle drilling | Hob function |
| Rigid tapping function | Polygon function |
| High speed Rigid tapping function | Inch command |
| Rigid tanning phase adjustment function | Sub inch command |

L12 Standard Machine







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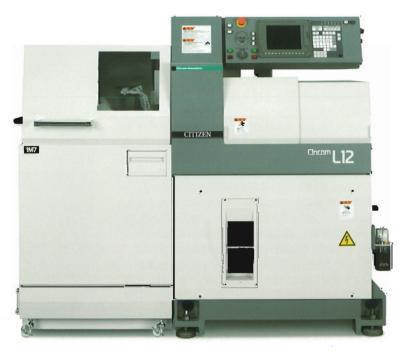
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Sliding Headstock Type Automatic CNC Lathe



Cincom Wiyano

"Evolution and Innovation" is the Future

The L12: Handling all small-diameter work with 5-axis control Detachable guide bushing and 15,000min-1 high-speed spindle

Cincom Innovation

Machining using a guide bushing is a useful method for small-diameter workpieces. On the other hand, using a guide bushing with short workpieces leaves a long remnant bar, increasing material costs. The optimum machine configuration differs according to the workpiece to be machined, and up until now a variety of different machines have been required. The L12 solves this problem. It is a simple matter to fit or remove the guide bushing, so the machine configuration can be changed to suit the workpiece to be machined. As an automatic lathe that encompasses two roles in a single unit, it can be used to machine both long and short workpieces effectively. It also shows uncompromising performance as a machine for high-speed, small-diameter applications. It shortens cycle times with a front spindle capable of high-speed rotation of 15,000 min⁻¹ and 10,000 min⁻¹ rotary tools. The L series that has built Cincom's history is now making new functions and performance standard in automatic lathes.



[Two roles in one automatic lathe]

Switching between guide bushing and guide bushing-less specifications

The guide bushing can be fitted and removed simply, so the L12 can be used in accordance with the workpiece to be machined, either as a machine for long workpieces utilizing the guide bushing, or as a guide bushing-less machine able to leave short remnant bars.

[Achieving optimum machining conditions]

High-speed spindle and rotary tools

The maximum speed of the front spindle is 15,000 min-1 even when using a rotary guide bushing (maximum machining length: 135 mm per chuck), and rotary tools are able to reach speeds of 10,000 min⁻¹. This makes it possible to use the optimum machining conditions when machining small-diameter bar material or using small diameter drills or end mills.

[Improved productivity per unit area] Compact design

The design is only 1,760 mm wide by 820 mm deep. You can introduce a high-productivity, 5-axis machine into the same space as required to install an A12/16 series or B12 machine up until now.

[Handles workpieces with complex shapes]

Comprehensive tooling

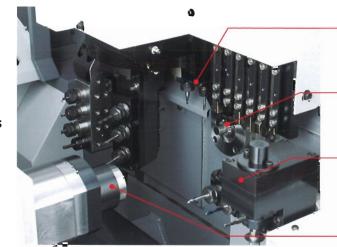
A full range of optional tooling is available. Three both-end rotary tools (angle adjustable from 0° to 30°) can be mounted among the rotary tools on the gang tool post. In addition, adopting rotary tool specifications for the back tool post has made it possible to mount end face rotary tools and a slitting spindle for back machining.

[Display of Pertinent Information]

Easy-to-use operation screens

An NC unit that is easy to use, has an established reputation for high-speed arithmetic processing and has an extensive record of use in high-end machines has been adopted. Features like the on-machine check function that is useful when starting the production of a workpiece and the code list display that allows you to check details of G and M codes on the machine's screen, can

L12 Type VII Tooling example



Rotary tool

Max. spindle speed : 10,000 min-1 Motor: 0.75 kW

Front spindle

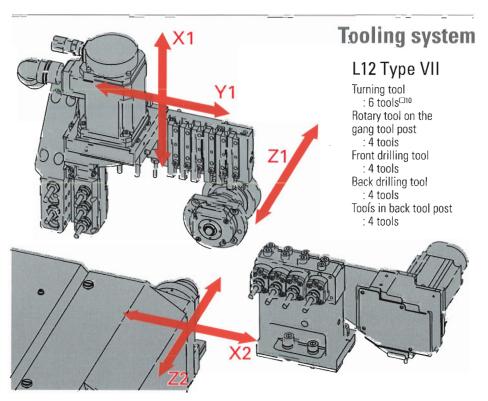
Max. spindle speed : 15,000 min-Motor: 2.2/3.7 kW

Back spindle

Max. spindle speed : 10,000 min-1 Motor: 0.4/0.75 kW

Back rotary tool (option)

Max. spindle speed : 9,000 min-1 Motor: 0.5 kW





Program input/output

NC programs can be input and output by using the PC card slot or the USB terminal.



Product receiver box

The workpieces consigned into the product chute are accommodated in the product receiver box.



Coolant tank

The coolant tank has a large capacity of 110 liters