

Cincom

L32

Sliding Headstock Type CNC Automatic Lathe



The new L32 – an icon reinvented

With a legacy as one of the best-selling Cincom machines, the next-generation L32 is launched with 3 models in modular design.

Ranging from a 5-axis machine with excellent cost performance to a high-end machine equipped with B axis and back tool post Y axis, you can select the machine according to the functions you require.

A wide range of modular tooling ensures that the new L32 is both versatile and flexible to meet your production demands into the future.

Rotary tools on the gang tool post
6,000 rpm (Max)
4,500 rpm (rating)
Motor: 1.0 kW

Rotary tools on the opposite tool post (optional)
6,000 rpm (Max)
3,000 rpm (rating)
Motor: 1.0 kW

Back spindle
8,000 rpm
Motor: 2.2 / 3.7 kW

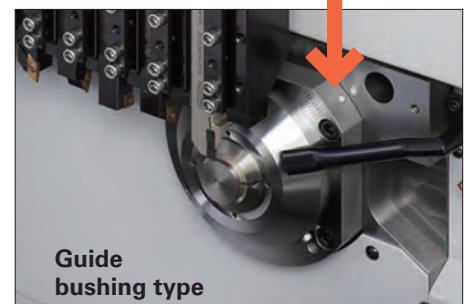
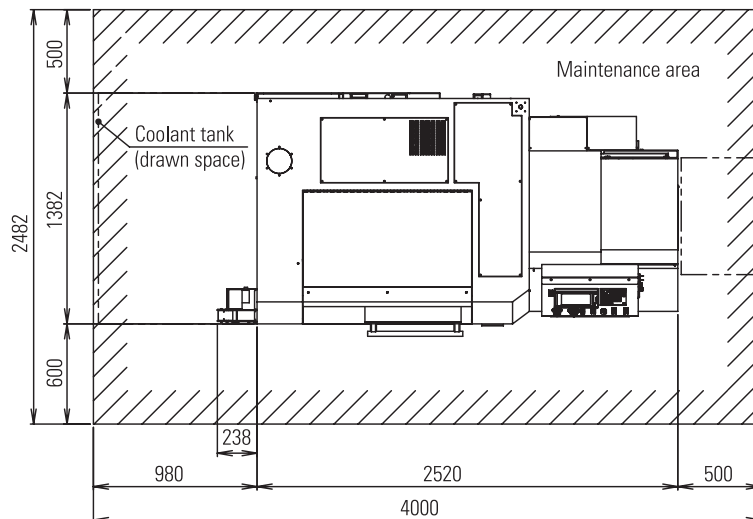
Back tool post rotary tools (optional type VIII)
6,000 rpm (Max)
3,000 rpm (rating)
Motor: 1.0 kW

Front spindle
8,000 rpm
Motor: 3.7 / 7.5 kW
Max. machining length: 320mm/1 chucking (GB)

L32 Type XII example tooling

| | Type VIII | Type X | Type XII |
|---|-----------|--------|----------|
| B axis (rotary tools on the gang tool post) | – | – | ○ |
| Y axis (back tool post Y axis) | – | ○ | ○ |
| Rotary tools on the opposite tool post | OP | OP | OP |
| Rotary tools on the back tool post | OP | ○ | ○ |

L32 Standard Layout



Switchable between guide bushing mode or non-guide bushing mode
Can be switched by operator in approximately 30 mins.

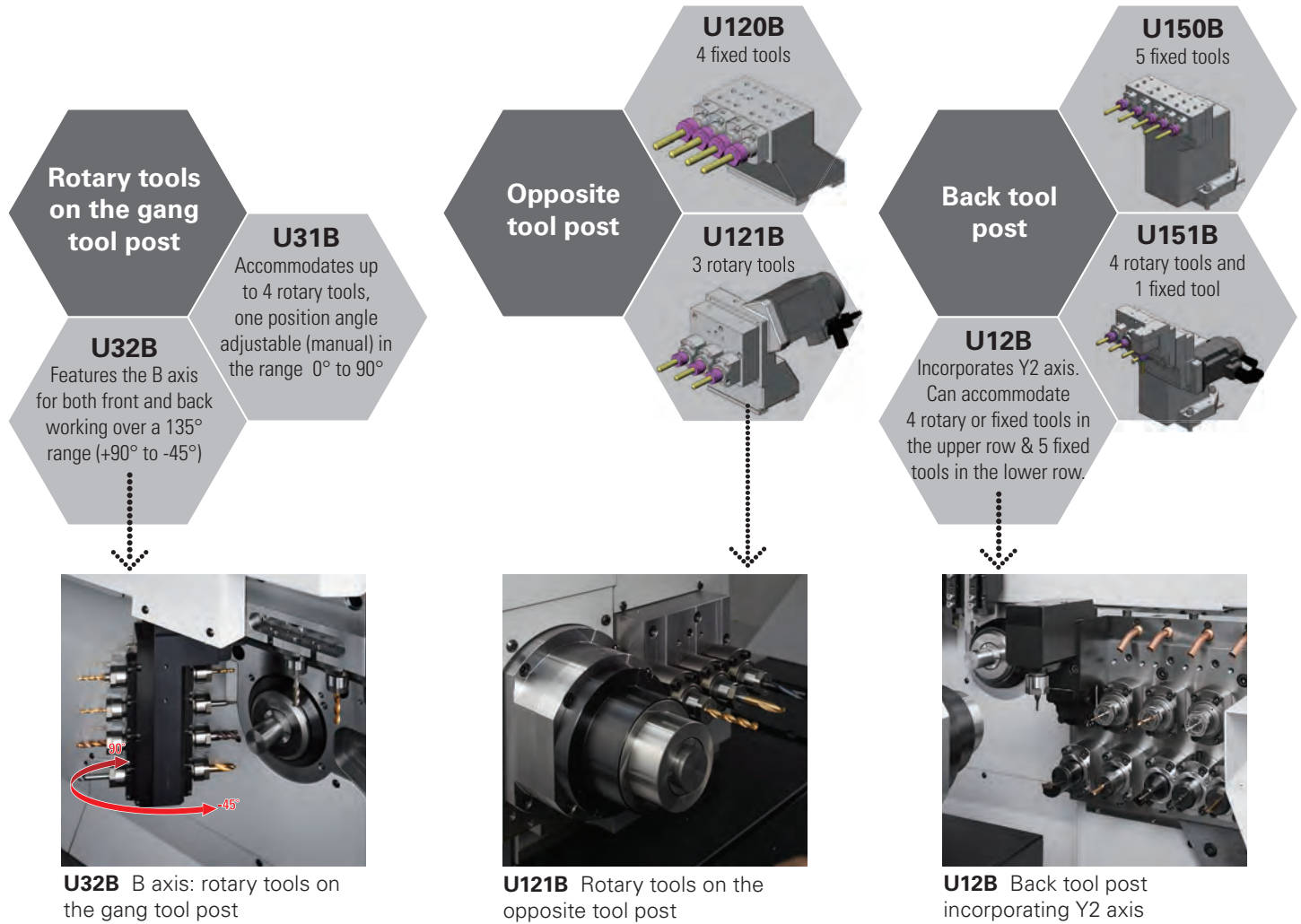
Stable, powerful, productive with versatile modular design

Function modules that can be combined without restrictions

With the current shift in manufacturing industry, the requirement is for variable-lot machining of diverse workpiece shapes and

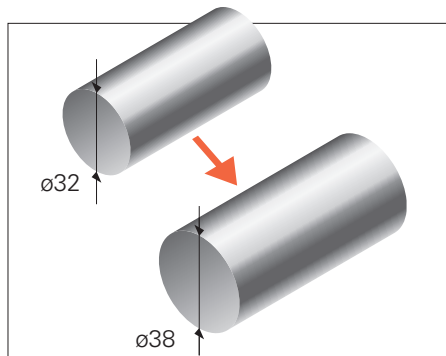
sizes. In order to meet this requirement, Citizen has introduced modular design to the new L32 thus enabling our customers

to optimize their manufacturing by selecting the functions to achieve the ideal machine configuration for their needs.



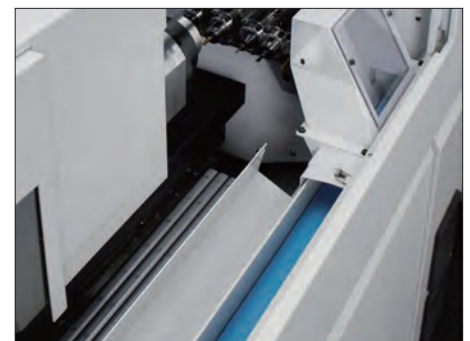
Extra-wide cover for operator convenience

The operator door can be flipped up to provide access to the interior of the machining area through a very large opening, allowing comfortable and easy access for tool setting and other adjustments.



ø32 mm max. bar as standard; ø38 mm as option

Supply of bar stock up to ø38 mm is supported as an option. The machining length per chucking is 320 mm in both capacities. A wide range of workpieces can be machined.



Workpiece conveyor equipped as standard

Workpieces are discharged to the left front of the machine.

Machine Specifications

| Item | Type VIII | Type X | Type XII |
|--|---|----------|----------|
| | L32-1M8 | L32-1M10 | L32-1M12 |
| Max. machining diameter (D) | ø32 mm (option: ø38) | | |
| Max. machining length (L) | GB:320 mm/1chucking NGB: 2.5D | | |
| Spindle through-hole diameter | ø39 mm | | |
| Main spindle speed | Max.8,000 min ⁻¹ | | |
| Max. chuck diameter of back spindle | ø32 mm | | |
| Max. protrusion length of back spindle workpiece | 80 mm | 65 mm | |
| Max. protrusion length | 150 mm | 140 mm | |
| Back spindle speed | Max.8,000 min ⁻¹ | | |
| Gang rotary tool: Spindle speed | Max.6,000 min ⁻¹ (Rating 4,500 min ⁻¹) | | |
| Front rotary tool (OP): Spindle speed | Max.6,000 min ⁻¹ (Rating 3,000 min ⁻¹) | | |
| Back tool post rotary tool (OP type VIII): Spindle speed | Max.6,000 min ⁻¹ (Rating 3,000 min ⁻¹) | | |
| Number of tools to be mounted (max.) | 19-30 | 24-44 | 30-40 |
| Gang turning tool | 6 | | |
| Gang rotary tool | 4-6 | 5-13 | 7-11 |
| Front drilling tool | 4-9 | 4-16 | 4-9 |
| Back drilling tool | 5-11 | 9-20 | 13-19 |
| Tool size | | | |
| Gang turning tool | □5/8" | | |
| Sleeve | 1" | | |
| Chuck and bushing | | | |
| Main spindle collet chuck | TF37SP (TF43: ø38 spec) | | |
| Back spindle collet chuck | TF37SP (TF43: ø38 spec) | | |
| Rotary tool collet chuck | ER11, ER16 | | |
| Chuck for drill sleeves | ER11, ER16 | | |
| Guide bushing | TD32 (STM38: ø38 spec) | | |
| Rapid feed rate | | | |
| All axes (except Y2) | 32 m/min | | |
| Y2 axis | - | 24 m/min | |
| Motors | | | |
| Spindle drive | 3.7/7.5 kW | | |
| Gang tool post rotary tool drive | 1.0 kW | | |
| Back spindle drive | 2.2/3.7 kW | | |
| Back tool post rotary tool drive (OP type VIII) | 1.0 kW | | |
| Front rotary tool drive (OP) | 1.0 kW | | |
| Coolant oil | 0.4 kW | | |
| Lubricating oil | 0.003 kW | | |
| Center height | 1,050 mm | | |
| Rated power consumption | 13.2 kVA | | |
| Full-load current | 36A | | |
| Main breaker capacity | 60A | | |
| Air pressure and air flow rate for pneumatic devices | 0.5 MPa, 64.2 NL | | |
| Weight | 6,283 lb | 6,393 lb | |

*Type VIII back tool post rotary tool is optional; **Front rotary tool drive unit is optional for all types

Environmental Information

| | | | | |
|--|--------------------------|--|---|---|
| Basic Information | <i>Energy Usage</i> | Power supply voltage | AC200V | |
| | | Electrical power requirement (Max) | 13.2kVA | |
| | | Required pneumatic pressure | 0.5MPa | |
| Environmental Performance Information | <i>Power Consumption</i> | Standby power ^{*1} | 0.320kW | |
| | | Power consumption with model workpiece ^{*2, *3} | 0.0133kWh/cycle | |
| | | Power consumption value above converted to a CO2 value ^{*4} | 6.3g/cycle | |
| | | <i>Air Consumption</i> | Required air flow rate | 45NL/min (max. 182 NL/min., during air blow) |
| | | <i>Lubricant Consumption</i> | At power ON | 1.5cc/60min |
| Approach to Environmental Issues | <i>Noise Level</i> | Value measured based on JIS | 78.5dB | |
| | | <i>Environmental load reduction</i> | RoHS Directive / REACH regulations | Compliant |
| | | <i>Recycling</i> | Indication of the material names of plastic parts | Covered in the instruction manual ^{*5} |
| | | <i>Environmental management</i> | We pursue "Green Procurement" by prioritizing purchases for goods and services that show consideration for the environment. | |

*1: This is the standby power in the idle stop mode (a function that turns servomotor excitation off when it is not necessary, for example during program editing).

*2: 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.

*3: The average cycle time is 55 sec with the standard test workpiece of our company.

*4: This is the value converted in accordance with the CHUBU Electric Power CO2 emissions coefficient for 2009 as published by the Ministry of the Environment.

*5: 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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