Cincom B12 Type VI

4 front/back I.D. tools U.S. standard

The standard in CNC automatic lathes
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The Standard in CNC Automatic Lathes

The Cincom B12 is a CNC automatic lathe with new concepts developed by Citizen for well into the 21st Century. Innovative and diversified technological advances have resulted in a smaller, faster machine with excellent cost performance. Operating the same way as a cam type lathe, the Cincom B12 is the new standard in CNC automatic lathes, and demonstrates improvements in every aspect over a cam type lathe.

Design Innovations Reduce Machining, NC Operation and Tool Replacement Time

- Multi axis control system resulting in extremely fast data processing
- All operations are directly controlled by the NC using a completely electronic full servo system
- Machining with higher precision is assured even in lengthy operations without being affected by the thermal displacement of a ball screw
- A built-in servo motor with an integrated ball screw realizes high speed, fast response operation of the feed system

A tool layout that is not constrained by the machine structure reduces setup and tool replacement times.

Improved Back Spindle Functionality

The back spindle offers drilling, S4- digits direct command, and a rotation speed of up to 7,000 rpm. Synchronization of the front and back spindles is enabled. Excellent acceleration and deceleration is provided by a 0.5 kw motor. The back spindle has the same electrical chuck as the front spindle. It may be opened and closed as needed, which eliminates the limitations of a conventional cam drive.
**Virtually Maintenance Free, Low Noise Levels**

The adoption of a full electronic servo system eliminates the need for limit switches, hydraulic and pneumatic sources, or solenoid valves. This not only increases the speed of the machine, but also increases its reliability by reducing the number of parts.

In addition to the 5 turning tools, the new B12VI also comes with 3 live cross tools and 4 front/back I.D. tools. This is the standard machine for the U.S. market.

The new B12VI offers quiet, precise, fast, and flexible machining with minimum maintenance and attendance. Partnered with the optional LUB 12 barloader, the new B12 is a complete manufacturing cell offered as a replacement for existing CAM type lathes.

**Quiet Integral Drive Spindle**

The drive spindle is built in and fully enclosed. This reduces vibration, enables operation at high speed and with high precision, and thus reduced noise. The sealed unit also enables the use of water soluble cutting oil.

**Operation Panel**

The operation panel’s user friendly man-machine interface makes the machine easy to operate.

**BARTOP LUB12 Automatic Bar Feeder for Cincom B12VI**

**A High Speed Bar Feeder that Complements the Cincom B12VI**

Similar to the Cincom B12, the Bartop LUB12 utilizes an all electric servo design, with no hydraulic or pneumatic components. This provides excellent reliability, speeds that are optimized for use with the Cincom B12, and a low noise level.

Rigid construction, automatic channel lubrication as well as vibration suppression rollers allow the Bartop LUB12 to rotate a 12 foot long bar at 12,000 rpm with very little noise or vibration. Maintenance is simplified by the small amount of required oil, and the electric servos. The well thought out design and solid construction make a bar size change easy and fast. Bar changes and remnant retractions are all servo driven.

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**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>LUB 12</th>
<th>SPECIFICATIONS</th>
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<tbody>
<tr>
<td>Footprint</td>
<td>17’9” (5.41m) x 1’5.7” (45cm)</td>
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<tr>
<td>Max Bar length</td>
<td>12’6” (3.81m)</td>
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<tr>
<td>Weight</td>
<td>660 lbs</td>
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<tr>
<td>Power requirements</td>
<td>0.5 KVA</td>
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<tr>
<td>Bar diameter range</td>
<td>5/64” – 1/2” (2mm – 12.7mm)</td>
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<tr>
<td>Bar storage capacity</td>
<td>60 bars @ 1/8” (3.18mm)</td>
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<tr>
<td>Remnant treatment</td>
<td>Servo rear remnant retraction</td>
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B12 Type VI FLOOR LAYOUT

- Maintenance Area
- Operation panel

Maximum machine height: 60.63 in. (including mount)