The Latest Model Joining the SB-R Series with Guide Bush/Non-Guide Bush Switching Function

By selecting a G.B. type, tool post and tool unit and arranging them according to the machining process it enables many different kind of machining option.

1. For long parts, the G.B. type can be used to regulate material deflection and achieve accurate machining. For short parts, the N.G.B. type can be used to minimize the residual material length and reduce the material cost.
2. A movable control panel can be introduced for operation at an optimum position.
3. A tool post best suited for the desired machining purpose can be selected from four types.
4. The 4-spindle-type unit for back working can readily accommodate rotating tool drive options.
5. Both the main spindle and sub spindle are equipped with a C-axis control function as standard equipment.
6. The main spindle incorporates a built-in motor to achieve improved indexing accuracy.


Four types of tool posts are available to allow for a tooling layout most suited to the required machining applications.
CNC SWISS TYPE AUTOMATIC LATHE

**Standard Machine Specifications**

<table>
<thead>
<tr>
<th>Item</th>
<th>1BR</th>
<th>2OR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. machining diameter</td>
<td>1BR 2OR</td>
<td>1BR 2OR</td>
</tr>
<tr>
<td>Max. headstock G.B. type</td>
<td>205mm</td>
<td>205mm</td>
</tr>
<tr>
<td>Tool</td>
<td>6 tools</td>
<td>7 tools</td>
</tr>
<tr>
<td>4-Spindle sleeve holder</td>
<td>4 tools</td>
<td>4 tools</td>
</tr>
<tr>
<td>Max. dicing capacity</td>
<td>φ12mm</td>
<td>φ12mm</td>
</tr>
<tr>
<td>Max. tapping capacity</td>
<td>M10 XP 1.5</td>
<td>M10 XP 1.5</td>
</tr>
<tr>
<td>Number of tools</td>
<td>4 tools</td>
<td>4 tools</td>
</tr>
<tr>
<td>ER11 max. capacity</td>
<td>16mm</td>
<td>16mm</td>
</tr>
<tr>
<td>ER11 speed</td>
<td>25000 rpm</td>
<td>25000 rpm</td>
</tr>
<tr>
<td>Drive motor</td>
<td>1.0kw</td>
<td>1.0kw</td>
</tr>
</tbody>
</table>

**Rapid feed rate**
- 35mm/min (X1, Y1, Z1, X2, Z2)

**Backworking Attachment Specifications**

<table>
<thead>
<tr>
<th>Item</th>
<th>1BR</th>
<th>2OR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Chucking diameter</td>
<td>φ10mm</td>
<td>φ20mm</td>
</tr>
<tr>
<td>Max. length front ejection</td>
<td>80mm</td>
<td>80mm</td>
</tr>
<tr>
<td>Max. parts projection length</td>
<td>30mm</td>
<td>30mm</td>
</tr>
<tr>
<td>Number of tools</td>
<td>4 tools</td>
<td>4 tools</td>
</tr>
<tr>
<td>ER11 max. capacity</td>
<td>16mm</td>
<td>16mm</td>
</tr>
<tr>
<td>ER11 speed</td>
<td>25000 rpm</td>
<td>25000 rpm</td>
</tr>
<tr>
<td>Drive motor</td>
<td>0.75kw</td>
<td>0.75kw</td>
</tr>
</tbody>
</table>

**Optional Accessories and Functions**

1. Coolant flow detector
2. Water removal unit
3. Beacon
4. Parts conveyer
5. Parts recepacle in the machine
6. Parts separator unit A
7. Main spindle inner tube
8. 5-spindle cross drilling unit
9. Cartridge type
10. 5-spindle cross drilling unit
11. Driver unit for power-driven attachment B
12. Parts ejector (Air cylinder type)
13. Parts ejector (Spring type)
14. Parts ejector with guide tube
15. Parts stopper unit
16. Coolant unit 2.5MPa
17. Coolant unit 3MPa
18. Coolant unit 5MPa
19. Coolant unit 10MPa
20. Coolant pipings
21. Automatic bar feeder interface
22. Compliant with the RS-232C interface
23. Transformer
24. Safety relay module version
25. Transformer CE marking version
26. Cable for CE marking version
27. CE marking version

**External Dimensions and Floor Space**

<table>
<thead>
<tr>
<th>Length</th>
<th>2.9m</th>
<th>3.0m</th>
<th>4.0m</th>
</tr>
</thead>
</table>
| 2-16   | 3.896 (111) | 3.896 (111) | 4.866 (160)
| ASPX-20A | 3.896 (111) | 3.896 (111) | 4.866 (160)
| DS20E | 3.660 (116) | 4.060 (132) | — |
| DS20E | 3.644 (1195) | 4.094 (1343) | 4.849 (1623) |

Overall height: 1,760mm (57.7)

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