Model SR Newly Developed with Upgraded Functions and More Versatile Machining Performance

Evolutionarily advanced SR-20J with optimum cost performance to respond to the machining needs of the times

Newly developed SR-20J with an optional 3-spindle back drill unit and back working cross drill unit to increase the flexibility of operations to be carried out in the sub spindle.

- A maximum of 6 tools can be added to the rear side thanks to a 3-spindle back drill unit to be attached to the 4-spindle back working unit.
- A back working cross drill unit can be added optionally for cross machining on the rear side.
- A combination of the tool post equipped with a slant-type sliding guideway and the rear headstock with a Z/B axis sliding guideway achieves overwhelmingly high rigidity.
- Type N, with no guide bush for minimizing the remaining material length to 70mm, is included in the product line. (The minimum remaining material length is 35mm when the used bar feeder discharges remaining materials in the forward direction.)

Points that are more advanced than the conventional type.

* This unit is not usable together with 2-spindle deep-hole drill attachments.
### Standard Machine Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>SR-20J type C</th>
<th>SR-20J type N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. machining diameter</td>
<td>φ20mm(25/32in)</td>
<td></td>
</tr>
<tr>
<td>Max. backhead Standard</td>
<td>205mm(8in)</td>
<td></td>
</tr>
<tr>
<td>stroke</td>
<td>172mm(6-5/32in)</td>
<td>Max.55mm(Max.11&amp;64mm)</td>
</tr>
<tr>
<td>Tool</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of tools</td>
<td>6 tools</td>
<td></td>
</tr>
<tr>
<td>Tool Shank</td>
<td>□12mm×100×135mm</td>
<td>□12mm×100×135mm</td>
</tr>
<tr>
<td>4-Spindle sleeve holder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of tools</td>
<td>2 tools</td>
<td></td>
</tr>
<tr>
<td>Max. drilling capability</td>
<td>φ15mm(5/64in)</td>
<td></td>
</tr>
<tr>
<td>Max. drilling capacity</td>
<td>M8×P1.0</td>
<td></td>
</tr>
<tr>
<td>Power driven att.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of tools</td>
<td>3 tools</td>
<td></td>
</tr>
<tr>
<td>Max. drilling capability</td>
<td>φ8mm(5/16in)</td>
<td></td>
</tr>
<tr>
<td>Max. drilling capacity</td>
<td>M6×P1.0</td>
<td></td>
</tr>
<tr>
<td>Max. motor capacity</td>
<td>φ10mm(25/64in)</td>
<td></td>
</tr>
<tr>
<td>Max. motor speed</td>
<td>1,000rpm</td>
<td></td>
</tr>
<tr>
<td>Main spindle indexung angle</td>
<td>C-axis control</td>
<td></td>
</tr>
<tr>
<td>Main spindle speed</td>
<td>1,000rpm</td>
<td></td>
</tr>
<tr>
<td>Main spindle motor</td>
<td>2.2kw(continuous)</td>
<td>3.0kw(15min/60%ED)</td>
</tr>
<tr>
<td>2-spindle front sleeve holder</td>
<td>2 tools</td>
<td></td>
</tr>
<tr>
<td>Max. drilling capability</td>
<td>φ8mm(3/16in)</td>
<td></td>
</tr>
<tr>
<td>Max. drilling capacity</td>
<td>M4×P0.7</td>
<td></td>
</tr>
<tr>
<td>Power-driven att. drive motor</td>
<td>1.5kw</td>
<td></td>
</tr>
<tr>
<td>Coolant tank capacity</td>
<td>150l</td>
<td></td>
</tr>
<tr>
<td>Dimensions (W×D×H)</td>
<td>2,250×1,200×1,700mm</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>2,200kg</td>
<td></td>
</tr>
<tr>
<td>Power consumption</td>
<td>5.2kVA</td>
<td></td>
</tr>
<tr>
<td>A-weighted sound pressure</td>
<td>Max. 69dB(A)</td>
<td></td>
</tr>
</tbody>
</table>

### Standard Accessories and Functions

1. CNC unit FANUC 31i-B
2. Operation panel 10.4 inch color LCD display
3. Collar (Main/Sub)
4. Revolving guide bush unit
5. 6-station tool holder
6. C-axis control unit (Main/Sub)
7. Spindle clamp unit (Main/Sub)
8. Drive system for power-driven attachment (including the 3-spindle cross-milling unit)
9. 4-Spindle sleeve holder
10. 2-Spindle front sleeve holder
11. Back 4-Spindle unit
12. Drive unit for power-driven attachment B
13. Automatic centralized lubrication unit
14. Door interlock system
15. Coolant level detector (lower limit)
16. Broken cutoff tool detector
17. Parts ejection detector
18. Leakage breaker
19. Pneumatic unit
20. Air purge for revolving guide bush
21. Main spindle air purge unit
22. Sub spindle air blow unit
23. Sub spindle air purge unit
24. Work light
25. Parts conveyors

### Optional Accessories and Functions

1. Spindle 15° indexing unit
2. Stopper
3. Parts ejector (Air cylinder type)
4. Parts separator unit A
5. Parts ejector with guide tube
6. Parts stopper unit
7. Coolant unit 1.5MPa
8. Coolant unit 6.9MPa
9. Coolant fittings
10. Main spindle inner tube

* type C only
* type N only

Units with "" mark differ to type C and type N

### External Dimensions and Floor Space

- **Bar Feeder**
  - **Type**: SR20S
    - **Length**: 3,883(110.97)
    - **Max. dia.**: 3.0mm(0.118)
  - **Type**: OS203E
    - **Length**: 3,493(11.77)
    - **Max. dia.**: 3.0mm(0.118)
  - **Type**: Z-16
    - **Length**: 3,902(153.23)
    - **Max. dia.**: 3.4mm(0.134)
  - **Type**: ASR X-20P
    - **Length**: 3,820(150.00)
    - **Max. dia.**: 3.2mm(0.126)

- **Overall height**: 1,700mm(67"

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**Design features, specifications and technical execution are subject to change without prior notice.**

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