FEATURES

FANUC Robot M-20iB is a middle size handling robot with 25 to 35kg payload capacity.

- Three models are available to meet a variety of applications.
  - FANUC Robot M-20iB/25
    This is a high speed general-purpose robot suitable for various applications, such as handling, assembling, and de-burring.
  - FANUC Robot M-20iB/25C
    This is a robot available for clean environment suitable for handling materials requiring cleanliness, such as food and pharmacy.
  - FANUC Robot M-20iB/35S
    This is a compact robot suitable for working in a small space.

- Cables and motors are not exposed. IP67 sealed structure can adapt to various environment.
- Connectors on the user interface don’t protrude and the cables from them can be tightly routed along the arm.
- The slim arm does not interfere with peripheral equipment.
- Advanced intelligent functions are available as an option, such as iRVision (integrated vision).

Application Examples

Vegetables Bin Picking

Loading/Unloading for Machine tools
### Specifications

**Model**
- **M-20iB/25, /25C**
- **M-20iB/35S**

<table>
<thead>
<tr>
<th>Specification</th>
<th>M-20iB/25, /25C</th>
<th>M-20iB/35S</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Articulated Type</td>
<td>Articulated Type</td>
</tr>
<tr>
<td><strong>Controlled axes</strong></td>
<td>6 axes (J1, J2, J3, J4, J5, J6)</td>
<td>6 axes (J1, J2, J3, J4, J5, J6)</td>
</tr>
<tr>
<td><strong>Reach</strong></td>
<td>1853 mm</td>
<td>1445 mm</td>
</tr>
</tbody>
</table>

**Installation**
- **Floor, Upside-down, Angle**
- **Ambient temperature**: 0 to 45°C
- **Ambient humidity**: Normally 75% RH or less (No dew nor frost allowed)
- **Vibration acceleration**: 4.9 m/s² (0.5G) or less

**Motion range (Maximum speed)**
- **J1 axis rotation**: 340°/360° (option) (205/s)
- **J2 axis rotation**: 5.93 rad / 6.28 rad (option) (3.58 rad/s)
- **J3 axis rotation**: 240° (205/s) 4.19 rad (3.58 rad/s)
- **J4 axis wrist rotation**: 303° (260°) 5.29 rad (4.54 rad/s)
- **J5 axis wrist swing**: 301.5° (260°) 5.26 rad (4.54 rad/s)
- **J6 axis wrist rotation**: 400° (415°/s) 6.98 rad (7.24 rad/s)
- **J6 axis wrist swing**: 290° (415°/s) 5.06 rad (7.24 rad/s)
- **J5 axis rotation center**: 260° (415°/s) 5.53 rad (7.24 rad/s)
- **J5 axis rotation center**: 9.42 rad (15.36 rad/s)

<table>
<thead>
<tr>
<th>Max. load capacity at wrist</th>
<th>25 kg</th>
<th>35 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Allowable load moment at wrist</strong></td>
<td>J4 axis</td>
<td>51.0 Nm</td>
</tr>
<tr>
<td><strong>Allowable load moment at wrist</strong></td>
<td>J5 axis</td>
<td>51.0 Nm</td>
</tr>
<tr>
<td><strong>Allowable load moment at wrist</strong></td>
<td>J6 axis</td>
<td>31.0 Nm</td>
</tr>
<tr>
<td><strong>Allowable load inertia at wrist</strong></td>
<td>J4 axis</td>
<td>2.20 kgm²</td>
</tr>
<tr>
<td><strong>Allowable load inertia at wrist</strong></td>
<td>J5 axis</td>
<td>2.20 kgm²</td>
</tr>
<tr>
<td><strong>Allowable load inertia at wrist</strong></td>
<td>J6 axis</td>
<td>1.20 kgm²</td>
</tr>
<tr>
<td><strong>Repeatability (Note 3)</strong></td>
<td>± 0.02 mm</td>
<td></td>
</tr>
<tr>
<td><strong>Mass (Note 4)</strong></td>
<td>210 kg</td>
<td>205 kg</td>
</tr>
</tbody>
</table>

**Operating space**

**Model**
- **M-20iB/25, /25C**
- **M-20iB/35S**

**Installation environment**
- **Ambient temperature**: 0 to 45°C
- **Ambient humidity**: Normally 75% RH or less (No dew nor frost allowed)
- **Vibration acceleration**: 4.9 m/s² (0.5G) or less

**Note 1** In case of angle mounting, J1 and J2 axis motion range are restricted.
**Note 2** During short distance motions, the axis speed may not reach the maximum value stated.
**Note 3** Compliant with ISO9283.
**Note 4** Without controller.
**Note 5** White paint, antirust surface and food grade grease are applied to the clean type.

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**All specifications are subject to change without notice.**