FEATURES

FANUC Robot M-3iA is a large-sized parallel link robot for
high speed picking and assembly.
The exclusive 6 axes type of parallel link robot expanded
robotization of transferring and assembling application.

- Three models are available to meet a variety of applications.
  - FANUC Robot M-3iA/6S
    Total 4 axes robot including single axis rotation at wrist.
The maximum payload is 8kg (option), suitable for high
speed arranging and handling of multi work pieces at the
same time on the conveyer.
  - FANUC Robot M-3iA/6A
    Total 6 axes robot including three rotation axes at wrist.
This model can change wrist direction freely and
suitable for assembling application.
  - FANUC Robot M-3iA/12H
    Total 3 axes and 12kg payload robot without rotation
axes at wrist. This model is suitable for super high speed
picking of plenty work pieces on the conveyer.

- IP67 of enclosed mechanical unit realized reliable water
and dust proof ability.
- Food adaptation option is available that adopts suitable
material, high durability surface treatment and food grade
lubricant. It will progress robotization of food market.
- The latest intelligent functions can be applied using
iRVision (integrated vision) or force sensor.

Application system

Standing the bottles by M-3iA/6A
High speed arranging the foods by M-3iA/6S
### Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>M-3iA/6S</td>
</tr>
<tr>
<td></td>
<td>M-3iA/6A</td>
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<tr>
<td></td>
<td>M-3iA/12H</td>
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<tr>
<td><strong>Controlled axes</strong></td>
<td>6 axes (J1, J2, J3, J4, J5, J6)</td>
</tr>
<tr>
<td></td>
<td>6 axes (J1, J2, J3)</td>
</tr>
<tr>
<td></td>
<td>6 axes (J1, J2, J3)</td>
</tr>
<tr>
<td><strong>Diameter</strong></td>
<td>1,350 mm, height 500 mm (Note 3)</td>
</tr>
<tr>
<td><strong>Motor range</strong></td>
<td>J1-J3 720° (4000/€) 12.57 rad (69.81 rad/s)</td>
</tr>
<tr>
<td></td>
<td>J4: 720° (2000/€) 12.57 rad (34.90 rad/s)</td>
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<tr>
<td></td>
<td>J5: 300° (2000/€) 5.24 rad (34.90 rad/s)</td>
</tr>
<tr>
<td><strong>Max. payload</strong></td>
<td>6 kg (8 kg with an option)</td>
</tr>
<tr>
<td></td>
<td>6 kg</td>
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<tr>
<td><strong>Repeatability</strong></td>
<td>±0.1 mm</td>
</tr>
<tr>
<td><strong>Drive method</strong></td>
<td>Electric servo drive by AC servo motor</td>
</tr>
<tr>
<td><strong>Mass</strong></td>
<td>160 kg</td>
</tr>
<tr>
<td></td>
<td>175 kg</td>
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<tr>
<td></td>
<td>155 kg</td>
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<tr>
<td><strong>Installation</strong></td>
<td>Ambient temperature: 0~45°C</td>
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<tr>
<td></td>
<td>Ambient humidity: 75%RH or less (No dew, nor frost allowed)</td>
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<tr>
<td></td>
<td>Short term: Max. 95%RH or less (within one month)</td>
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<tr>
<td></td>
<td>Vibration: 4.9 m/s² (0.5G) or less</td>
</tr>
</tbody>
</table>

Note 1) In case of short distance mode, the axis speed doesn’t reach maximum one.

Note 2) Without controller.

Note 3) For M-3iA/6S and M-3iA/12H, in case the payload is larger than 6 kg, there is a limitation on the work envelope.

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