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CAUTIONS TO BE TAKEN TO ENSURE SAFETY

- For those persons involved with the operation/service of your system, including Kawasaki Robot, they must strictly observe all safety regulations at all times. They should carefully read the Manuals and other related safety documents.
- Products described in this catalogue are general industrial robots. Therefore, if a customer wishes to use the robot for special purposes, which might endanger operators or if the robot has any problems, please contact us. We will be pleased to help you.
- Be careful as photographs illustrated in this catalogue are frequently taken after removing safety fences and other safety devices stipulated in the safety regulations from the Robot operation system.

Kawasaki Robot MC series Medical and pharmaceutical robots
Designed specifically for pharmaceutical and medical applications, the MC series clean robots meet the healthcare industry’s demands.

Features

**Human-like arm with compact body**
The human-like arm joint configuration minimizes dead space and allows MC series robots to operate in constrained workspaces. Their compact design allows for direct mounting to a machine or table top.

**Sanitary features**
The streamlined design of the MC004N robot features a smooth surface, high performance seals, and a chemical resistant epoxy paint finish to help prevent contamination. The MC004AV robot offers a special metal casing and protective seals to withstand sterilization with Vaporized Hydrogen Peroxide (VHP).

**Hollow wrist**
The MC series robots' through-arm cable and lube technology minimizes potential interference with other processing and manufacturing equipment.

**Cleanroom classification**
Both MC series robots meet the ISO Class 5 (Class 100 of US FED STD 209B) cleanroom standard.

### Specifications

**MC004N**
- Dimensions (mm): 910 x 310 x 1130 **+**
- Structure: Open structure with direct cooling system (IP54)
- Number of controlled axes: 6
- Type of driving: Programmable digital servo system
- Types of motion control: Memory mode: PTP, Linear, Point-to-Point
- Teaching method: Point-to-point teaching or language-based programming
- Memory capacity (byte): 512
- I/O signals: 16 inputs, 16 outputs
- Operation panel: Teach/Reset switch, Emergency stop button
- Cable length (m): 6.5
- Mass (kg): 6.4
- Power requirements: AC200V 1Ph, 50/60Hz, 1000W
- Environmental conditions: Ambient temperature (°C): -5 to 40, Relative humidity (%): 20 to 85
- Robot controller: Teach pendant, Optional Teach pendant
- Dimensions: Width x Depth x Height: 910 x 310 x 1130
- Interface: Ethernet 1000BASE-T, USB 2.0

**MC004V**
- Dimensions (mm): 810 x 310 x 1130 **+**
- Structure: Enclosed structure with indirect cooling system (IP54)
- Number of controlled axes: 6
- Type of driving: Programmable digital servo system
- Types of motion control: Memory mode: PTP, Linear, Point-to-Point
- Teaching method: Point-to-point teaching or language-based programming
- Memory capacity (byte): 512
- I/O signals: 16 inputs, 16 outputs
- Operation panel: Teach/Reset switch, Emergency stop button
- Cable length (m): 6.5
- Mass (kg): 6.4
- Power requirements: AC200V 1Ph, 50/60Hz, 1000W
- Environmental conditions: Ambient temperature (°C): -5 to 40, Relative humidity (%): 20 to 85
- Robot controller: Teach pendant, Optional Teach pendant
- Dimensions: Width x Depth x Height: 810 x 310 x 1130
- Interface: Ethernet 1000BASE-T, USB 2.0

**Table**

<table>
<thead>
<tr>
<th>Feature</th>
<th>MC004N</th>
<th>MC004V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (mm)</td>
<td>910 x 310 x 1130 <strong>+</strong></td>
<td>810 x 310 x 1130 <strong>+</strong></td>
</tr>
<tr>
<td>Structure</td>
<td>Open structure with direct cooling system (IP54)</td>
<td>Enclosed structure with indirect cooling system (IP54) <strong>+</strong></td>
</tr>
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</tr>
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<tr>
<td>Cable length (m)</td>
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<td>6.5</td>
</tr>
<tr>
<td>Mass (kg)</td>
<td>6.4</td>
<td>6.4</td>
</tr>
</tbody>
</table>

**Notes:**
- **+** indicates additional features specific to the model.
- **IP54** indicates the robot is rated for an IP54 enclosure rating.
- **USB** indicates the robot is equipped with a USB port for data transfer.
- **Ethernet** indicates the robot is equipped with an Ethernet port for network connectivity.