Robot FANUC M-710iC/20L
Max. payload 20 kg – max. reach 3110 mm
for the automatic painting

By the combination of a long range (3.11 m) and a precise mechanics arm the robot is excellently suitable for spraying application.

Main components and features
- The size of the wrist was reduced around up to 19% which makes it possible to reach by even smaller openings into the workroom for the robot.
- Repeatability of ± 0.11 mm (based on ISO 9283) at full speed and full load within the complete workroom.
- Special pneumatic and electric connections at the axis A3 (with each eight digital in- and outputs).
- 20 kg load on flange plate.
- Without changes of the mechanical unit are diverse assembly positions possible including floor, ceiling, wall or angle assembly.
- RV axis reducing gear with integrated bearing offers rigidity and performance in a compact packet.

Function Description
The M-710iC/20L is a six-axis, modular constructed, electric servo-driven robot designed for a variety of industrial applications. Based on his simple and reliable construction delivers the M-710iC/20L highly movement control and constant performance on high productivity standard. The control R-30iB and the simply to be used application software PaintTool offer exact and constant axis performance.

The innovative robot M-710iC/20L has been designed for highest productivity under rough working conditions and narrow rooms.

Features
- Highest movement speeds in his class for maximum performance and productivity.
- Default fault safe brakes at all 6 axes increase safety, functionality and control.
- Compact design of the servomotors minimizes disturbing contours and simplifies the installation of this robot system.
- Extremely fast wrist axes reduce side times, what increases the throughput.
- Sealed bearings and brushless AC servomotors offer protection and increase the reliability.
Technical Data

Robot FANUC M-710iC/20L

Maximum load wrist: 20 kg
Maximum reach: 3110 mm
No. of axes: 6
Repeatability: +/- 0.11 mm (based on ISO 9283)
Weight (mechanical): 540 kg
Average power consumption: 2.5 kW
Protection body: IP54 (standard), IP67 (optional)
Controller: R-30iB, A-cabinet (standard), iPendant Touch

<table>
<thead>
<tr>
<th>Axis</th>
<th>Motion range</th>
<th>Max. speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>J1</td>
<td>360°</td>
<td>175°/sec</td>
</tr>
<tr>
<td>J2</td>
<td>225°</td>
<td>175°/sec</td>
</tr>
<tr>
<td>J3</td>
<td>432°</td>
<td>180°/sec</td>
</tr>
<tr>
<td>J4</td>
<td>400°</td>
<td>350°/sec</td>
</tr>
<tr>
<td>J5</td>
<td>280°</td>
<td>360°/sec</td>
</tr>
<tr>
<td>J6</td>
<td>900°</td>
<td>600°/sec</td>
</tr>
</tbody>
</table>

Motion range and dimensions