

Robot FANUC M-710iC/20L

Max. payload 20 kg – max. reach 3110 mm
for the automatic painting



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.

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.

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

	Motion range	Max. speed
Axis J1:	360°	175°/sec
Axis J2:	225°	175°/sec
Axis J3:	432°	180°/sec
Axis J4:	400°	350°/sec
Axis J5:	280°	360°/sec
Axis J6:	900°	600°/sec

Motion range and dimensions

