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# Robot FANUC M-20iA/12L

Max. payload 12 kg – max. reach 2009 mm  
Hollow Wrist, long arm version



## Function Description

The M-20 series leads the industry in terms of axis speed, payload and reach – six axes handle payloads up to 12 kg with a reach of 2.0 m.

The series is strong and yet light. This is ensured by the extraordinary design with hollow upper arm and wrist,

which makes no compromises in performance. The M-20 is a universal material handling talent for medium loads. The well thought-out design improves the functionality of the M-20 series.

All cables are protected in the arm – no more getting stuck, tearing and rubbing on cables and hoses.

To simplify the assembly of peripheral devices, the robot offers another design feature: a mounting frame on the back of the upper arm.

## Features

- **Suitable for narrow spaces**  
Compact design with slim arm and wrist: The M-20 is ideal for narrow work cells. And the cable routing inside through the arm and wrist prevents cable interference.
- **The right wrist for the application**  
Hollow or inline wrist and cantilevered J3 arm for increased strength and stability, better cable protection and easy maintenance.
- **Long arm for longest range**  
As the heaviest model in the series, this robot has a work envelope of up to 2009 mm and increases productivity in numerous applications.
- **Best payload and inertia in its class**  
High permissible wrist torques and inertia for complex tools and assembly aids.

## Technical Data

### Robot FANUC M-20iA/12L

Maximum load wrist:	12 kg
Maximum reach:	2009 mm
No. of axes:	6
Repeatability:	+/- 0,04 mm (based on ISO9283)
Weight (mechanical):	250 kg
Average power consumption:	1 kW
Protection body:	IP54 (standard), IP55 (option)
Controller:	R-30iB, A-cabinet (standard), iPendant Touch

	Motion range	Max. speed
Axis J1:	370°	200°/sec
Axis J2:	260°	175°/sec
Axis J3:	460,6°	190°/sec
Axis J4:	400°	430°/sec
Axis J5:	360°	430°/sec
Axis J6:	900°	630°/sec

## Motion range and dimensions

