

THE FACTORY AUTOMATION COMPANY

**FANUC**

# Maximum precision and outstanding path accuracy

## M-800/60-20B



### ULTRA-PRECISE

ideal for high-accuracy path applications such as 3D laser cutting



### FAST & ACCURATE MOTION

optimised for narrow spaces



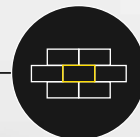
### 60 KG PAYLOAD

perfect for additional tooling



### iRCalibration Signature

for absolute accuracy



### RIGID DESIGN

for enhanced precision and stability



### Precision perfected: Redefined robotic accuracy

- **Unmatched precision:** Delivers  $\pm 0.1$  mm path accuracy and  $\pm 0.015$  mm repeatability, ideal for high-precision tasks like laser cutting, welding, milling, and drilling.
- **CNC alternative for complex machining:** Delivers advanced machining capabilities as a flexible and efficient alternative to traditional CNC machines, especially beneficial in large-part manufacturing like gigacasting.
- **Advanced control & vision:** Equipped with the new R50iA controller and enhanced vision system for superior path tracking and sensor-guided applications.
- **Robust & reliable:** Built for harsh environments with IP67/IP54 protection and enhanced stiffness to ensure consistent performance in demanding conditions.
- **User-friendly operation:** Features the industry's lightest touch-panel Teach Pendant for faster, easier programming and improved operator comfort.

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# M-800/60-20B



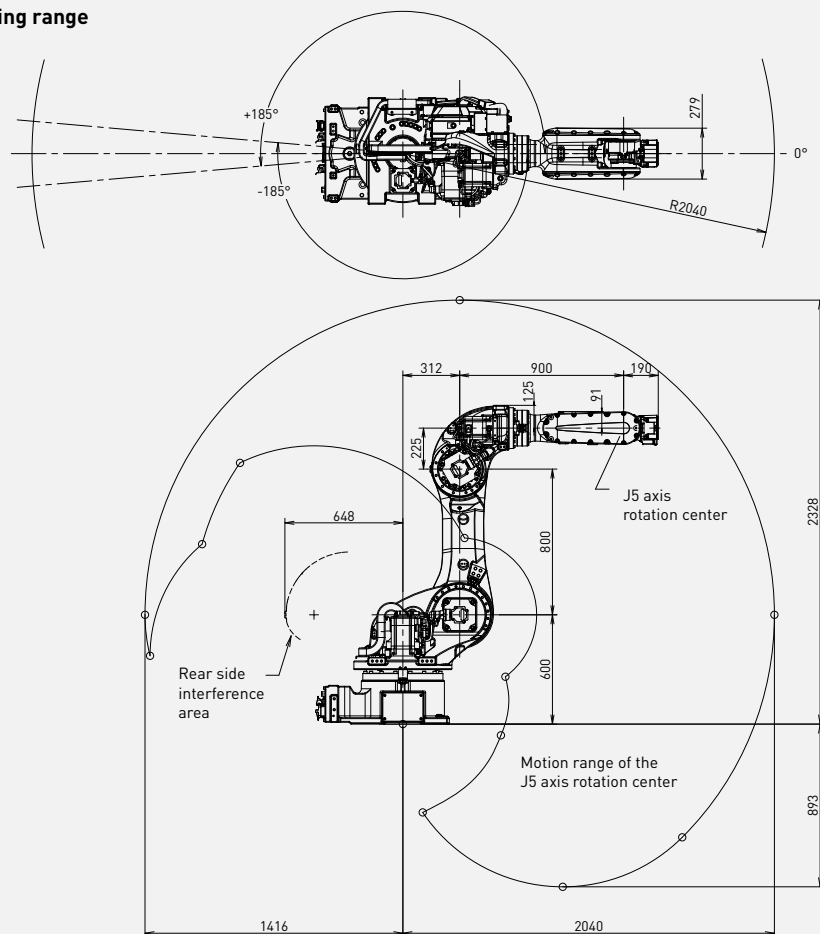
Max. load capacity  
at wrist: **60 kg**



Max. reach:  
**2040 mm**

Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range [°]						Maximum speed [°/s]						J4 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J5 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J6 Moment/ Inertia (Nm/kgm <sup>2</sup> )
			J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6			
6	± 0.015*	820	370	225	340	720	250	720	150	150	150	260	260	400	210/30	210/30	130/20

## Working range



## Robot

## M-800/60-20B

Robot footprint [mm]	678 x 536
Mounting position Floor	●
Mounting position Upside down	-
Mounting position Angle	-



## Controller

## R-50iA

Mate cabinet	-
A-cabinet	●
B-cabinet	○
C-cabinet	○
iPendant Touch	●

## Electrical connections

Voltage 50/60Hz 3phase [V]	380-575
Voltage 50/60Hz 1phase [V]	-
Average power consumption [kW]	2.5

## Integrated services

Integrated signals on upper arm In/Out	8/8
Integrated air supply	1

## Environment

Acoustic noise level [dB]	70
Ambient temperature [° C]	0-45

## Protection

Body standard/optional	IP54
Wrist & J3 arm standard/optional	IP67

● standard ○ on request - not available [ ] with hardware and/or software option