

R-2000iA/165EW/200EW

FANUC
Robotics
P e r p e t u a l M o t i o n

Basic Description

The R-2000iA/165EW and the R-2000iA/200EW are six-axis, heavy-payload, high-performance industrial robot, supported by our extensive service and parts network.

FANUC add the cable integrated robots R-2000iA/165EW/200EW to the R-2000iA series which are popular world-wide as multi-purpose intelligent robots.

They feature the SYSTEM R-J3iB intelligent robot control system.

R-2000iA, the Solution for:

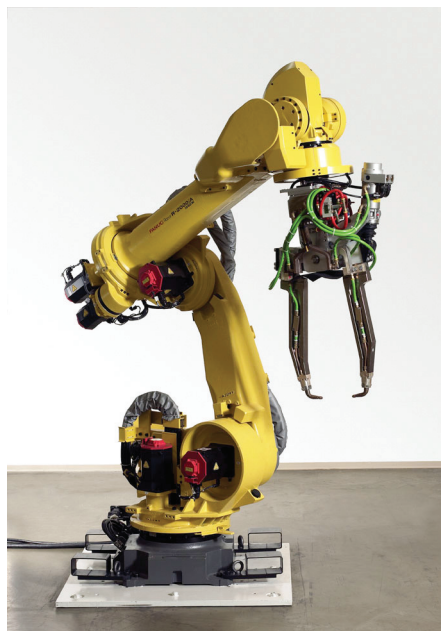
- Automotive spot welding and general assembly
- General industrial spot welding applications

Features

- Cables and hoses for spot welding are integrated into the J3 arm and the wrist.
- Customers can use the robot immediately after connecting the controller. It is not necessary to install, adjust or maintain an external cable package.
- Integrated cables and hoses have the same life as standard robot inner cables, extending the maintenance period of the cables.
- J1-J3 units are the same as the R-2000iA/165F, whose reliability has been well confirmed.

Mechanical

- Large work envelope with ability to reach overhead and behind.



- Slim profile design
- RV reducers for all axes
- Elimination of counterweight increases available workspace
- Process/application cables routed through the arm
- No motors at wrist

Control

- B-size cabinet
- Quick change amplifier (< 5 min)
- Fast boot-up time
- Easy connections to a variety of I/O, including distributed I/O networks

Software

- Specific tool packages for various applications

Benefits

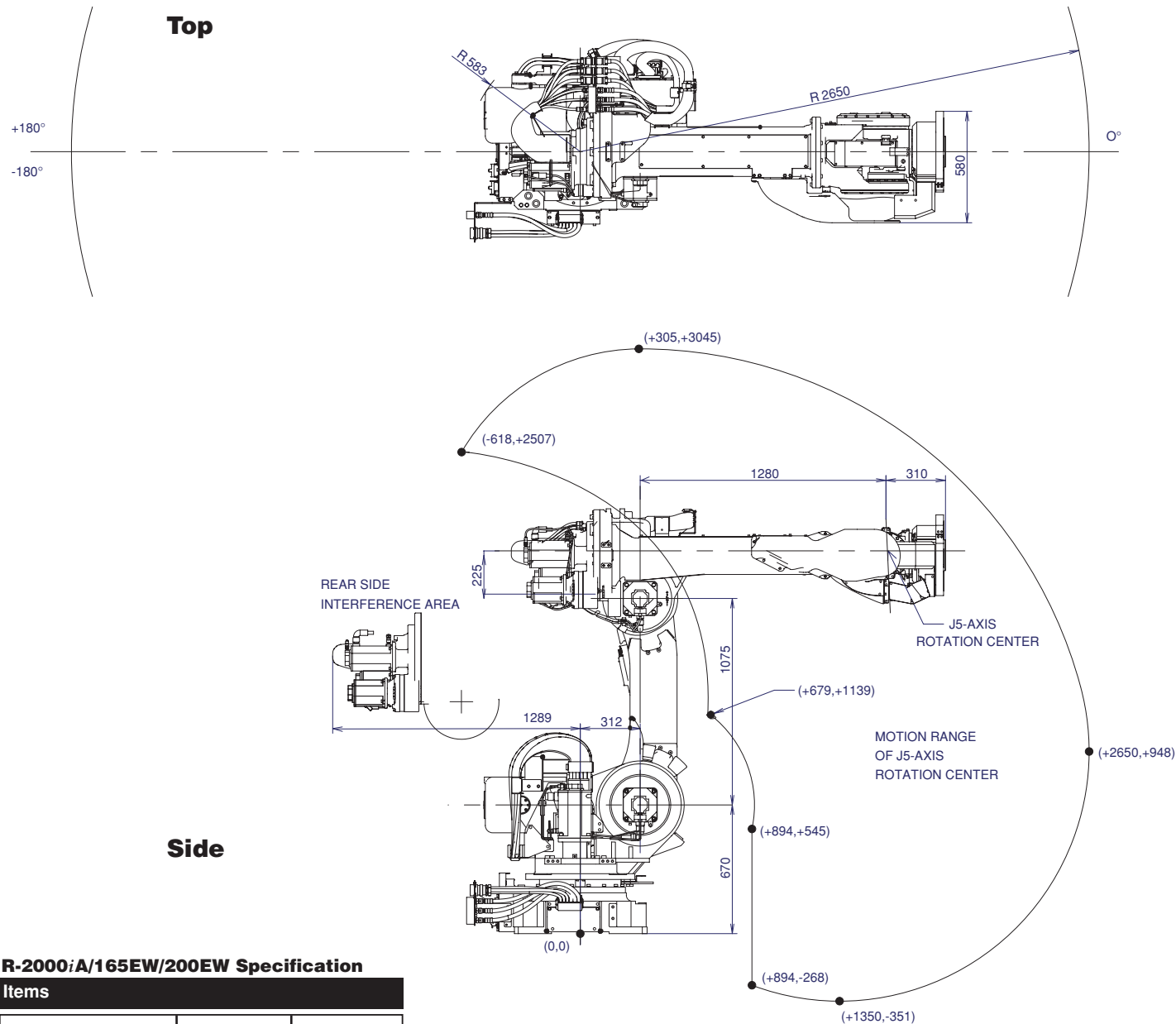
- Reduce the lead time for completion of the line.

- There are no exposed cables and hoses at the J3 arm to interfere with peripheral equipment.
- Increased reliability of cables and hoses.
- Easier, quicker on-line programming.
- Cable simulation is not necessary, so it is easy to perform accurate offline programming.
- Maintenance cost can be reduced.
- Start-up time can be reduced.

Options

- Variety of internal cables to meet the customer process requirements.

R-2000iA™/165EW/200EW Dimensions



Note: Dimensions are shown in millimeters.

R-2000iA/165EW/200EW Specification

Items		R-2000iA/165EW	R-2000iA/200EW
Load capacity of wrist [kg]		165	200
Reach [mm]		2650	2650
Repeatability [mm]		± 0.3	± 0.3
Maximum operation speed [°/s]	J1	105	90
	J2	90	85
	J3	105	90
	J4	130	110
	J5	130	110
	J6	210	155
Permissible load moment at wrist [Nm]	J4	1075	1411
	J5	1075	1411
	J6	461	686
Permissible inertia at wrist [kgm²]	J4	97.8	136.8
	J5	97.8	136.8
	J6	40.2	58.8

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