

R-2000iB™ Series

Basic Description

The R-2000iB-series is FANUC Robotics' latest-generation, six-axis, heavy-payload, high-performance family of industrial robots. The R-2000iB provides higher sales through industry-leading performance, reliability and maintainability, and is supported by our extensive service and parts network.

R-2000iB Series, the Solution for:

- Automotive spot welding and general assembly
- General industrial applications
- Material handling
- Part transfer
- Material removal
- Dressing
- Machine loading

Benefits

- Slim arm and wrist assemblies minimize interference with system peripherals and allow operation in confined spaces.
- Large allowable wrist moments and inertia meet a variety of heavy handling challenges.
- Many process attachment points make integration easier.
- Non-rotating forearm simplifies hose and cable dressout to prolong service life.
- Proven, reliable FANUC servo drives provide highest uptime and productivity.
- Longer maintenance intervals equate to lower operating costs.
- Fewer mechanical components reduce down time, increase mean time between failure (MTBF) and minimize spare part requirements.
- High-performance motion yields fast cycle times and high throughput.
- Wrist flange and base mounting are identical to the R-300iA, offering for seamless backward compatibility.
- R-2000iB can reach all areas of R-2000iA work envelope for easy replacement.

Note: iPPacart™ and FoundryPPac™ are registered trademarks of FANUC LTD.



Features

Mechanical

- Large work envelope with ability to reach overhead and behind.
- 6 axes of motion.
- Slim profile design.
- RV reducers on all axes.
- Lack of counterweight increases available workspace.
- Process/attachment cables routed through the arm.
- No motors at wrist.
- Standard J1 adjustable hand stop.
- IP67 rated wrist/forearm.

Control

- 30% average faster TTP and FANUC execution speed over previous generation.
- Up to 24 axes on main servo card plus 16 axes on mini-slot card for 40 axes maximum.
- Quick change amplifier <5 minutes.
- Fast load time <30 seconds.
- Two Ethernet ports standard.
- USB interface on panel and PC/MCA slot internal.
- Easy connections to a variety of I/O, including a number of distributed I/O networks.
- iPendant™, a color, internet-ready teach pendant for even easier programming and system set-up/interface design.
- Built-in support for machine vision applications for error proofing and robot guidance, without the need for a PC.

Options

- Process specific software packages for various applications.
- Web-based software tools for remote connectivity, diagnostics and production monitoring.
- FANUC's iRTVision™ (Integrated Robot Vision) system delivers high performance 2-D and 3-D machine vision capabilities with FANUC reliability. Additional option for Error Proofing can provide integrated vision based capabilities to check for product completeness before product is packaged or further operations are performed.
- Foundry FPPC™ protection package and two-part epoxy paint for foundry and harsh environments.
- Standard baseplate for quick robot installation.
- Auxiliary axes packages for integration of peripheral servo-controlled devices and robot track units.
- Adjustable hand stops for J1, J2 and J3.
- Various robot connection cable lengths for flexible cabinet placement and optional track rated cables.
- Pendant with touch screen for custom HMI applications.
- Monochrome teach pendant.
- Integrated spot welding utilities.
- Electrically insulated receptacle.

FANUC
Robotics

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