

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 rates 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
- Drilling
- Machine loading

Benefits

- One arm and wrist assemblies minimize interference with system peripherals and allow operation in confined spaces.
- Large allowable wrist moments and inertias 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 drive time, increase mean time between failure (MTBF) and minimize spare part requirements.
- High-performance motion yields fast cycle times and high throughput.
- Wrist design and base mounting are identical to the R-2000iA, allowing for seamless customer compatibility.
- R-2000iB can reach all areas of R-2000iA work envelope for easy replacement.

Note: iPPAC™ 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.
- PM reducers on all axes.
- Lack of counterweight increases available workspace.
- Process attachment cables routed through the arm.
- Piv-motors at wrist.
- Standard J1 adjustable hand stop.
- IP67 rated wrist/seam.

Control

- 30% average faster TTP and PAMP™ execution speed over previous generation.
- Up to 24 axes on main servo card plus 10 axes on mini-slot card for 40 axes maximum.
- Quick change amplifier <5 minutes.
- Fast load time <30 seconds.
- True 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.
- iPanel™, a color, internet-ready touch 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 iMotion™ (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 compliance before product is packaged or further operations are performed.
- Foundry PPO™ 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 customer placement and optional track rated cables.
- Pendant with touch screen for custom HMI applications.
- Monochrome touch pendant.
- Integrated spot welding utilities.
- Electrically insulated receptacle.

FANUC
Robotics

Fanuc Paint Shop Robot Programming Manual

Daniela Niemeyer



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Motor Business Japan ,1997 The Japanese motor industry worldwide *Robomatix Reporter* ,1984 Ward's Auto World ,1984 *68th Porcelain Enamel Institute Technical Forum* William D. Faust,2009-09-29 The Porcelain Enamel Institute showcases and promotes innovations in materials and processing to improve the overall efficiency of enamelling operations encourages product use in all possible applications and advances and protects the legitimate interests of the industry and its individual members Papers that comprise this book are taken from the 68th Annual Porcelain Enamel institute Technical Forum May 15 18 2006 Organized and sponsored by The American Ceramic Society and The American Ceramic Society s Engineering Ceramics Division in conjunction with the Nuclear and Environmental Technology Division

Introduction to Robotics Arthur J. Critchlow,1985 *Sheet Metal Industries* ,1996 **Thomas Register of American Manufacturers** ,2003 Vols for 1970 71 includes manufacturers catalogs **Japanese Technical Abstracts** ,1986

Thomas Register ,2004 **Welding and Metal Fabrication** ,1993 **ASTME Technical Digest** American Society of Tool and Manufacturing Engineers,1989 Control Engineering ,1984 Instrumentation and automatic control systems

Technical Digest ,1990 The Video Source Book David J. WEINER,1990 **Polymers, Ceramics, Composites Alert** ,1989 *The New York Times Index* ,1983

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