

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 dress-out 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: 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.
- 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 Welding Robot Programming Manual

Alan Gomersall, Penny Farmer



Fanuc Welding Robot Programming Manual:

Robotic Welding, Intelligence and Automation Tzyh-Jong Tarn, Shan-Ben Chen, Xiao-Qi Chen, 2015-07-15 The primary aim of this volume is to provide researchers and engineers from both academic and industry with up to date coverage of new results in the field of robotic welding intelligent systems and automation The book is mainly based on papers selected from the 2014 International Conference on Robotic Welding Intelligence and Automation RWIA 2014 held Oct 25 27 2014 at Shanghai China The articles show that the intelligentized welding manufacturing IWM is becoming an inevitable trend with the intelligentized robotic welding as the key technology The volume is divided into four logical parts Intelligent Techniques for Robotic Welding Sensing of Arc Welding Processing Modeling and Intelligent Control of Welding Processing as well as Intelligent Control and its Applications in Engineering *CAD/CAM, Robotics, and Factories of the Future* Raj Gill, Chanan S. Syan, 1996

Measurements and Control in Robotics Ioan Doroftei, Yvan Baudoin, Zafar Taqvi, Simone Keller Fuchter, 2026-03-07 This book covers topics in the broad range of topics related to robotics and human robot systems such as robot design innovations sensors smart sensors their integration fusion advanced controls and actuators methods of AI in robotics humanoid climbing walking and autonomous robots anthropomorphic robots augmented mixed virtual reality VR intelligent CAD and IMS visual auditory tactile force displays tools and techniques for modelling VR systems software architectures for VR VR interaction and navigation techniques distributed VR Systems motion tracking VR input and output devices human factors in VR Gathering the proceedings of the 26th International Symposium on Measurement and Control in Robotics ISMCR held in Sambreville Belgium on October 7 8 2025 The proceedings extend this platform to all researchers scientists industry experts and students interested in these fields

Congress on Intelligent Systems Harish Sharma, Mukesh Saraswat, Anupam Yadav, Joong Hoon Kim, Jagdish Chand Bansal, 2021-05-27 This book is a collection of selected papers presented at the First Congress on Intelligent Systems CIS 2020 held in New Delhi India during September 5 6 2020 It includes novel and innovative work from experts practitioners scientists and decision makers from academia and industry It covers topics such as Internet of Things information security embedded systems real time systems cloud computing big data analysis quantum computing automation systems bio inspired intelligence cognitive systems cyber physical systems data analytics data web mining data science intelligence for security intelligent decision making systems intelligent information processing intelligent transportation artificial intelligence for machine vision imaging sensors technology image segmentation convolutional neural network image video classification soft computing for machine vision pattern recognition human computer interaction robotic devices and systems autonomous vehicles intelligent control systems human motor control game playing evolutionary algorithms swarm optimization neural network deep learning supervised learning unsupervised learning fuzzy logic rough sets computational optimization and neuro fuzzy systems Robomatix Reporter, 1986

Modern Problems of Robotics Arkady Yuschenko, 2021-10-08 This book constitutes the post conference

proceedings of the 2nd International Conference on Modern Problems of Robotics MPoR 2020 held in Moscow Russia in March 2020 The 16 revised full papers were carefully reviewed and selected from 21 submissions The volume includes the following topical sections Collaborative Robotic Systems Robotic Systems Design and Simulation and Robots Control The papers are devoted to the most interesting today s investigations in Robotics such as the problems of the human robot interaction the problems of robot design and simulation and the problems of robot and robotic complexes control

Robotics Alan Gomersall,Penny Farmer,1984 International Journal of Materials & Product Technology ,1997 *The Specifications and Applications of Industrial Robots in Japan* ,1997 *Welding and Metal Fabrication* ,1993 *ASTME Technical Digest* American Society of Tool and Manufacturing Engineers,1989 Sheet Metal Industries ,1999
Technical Digest ,1990 **Engineers' Digest** ,1985 **Scientific and Technical Aerospace Reports** ,1985
Manufacturing Engineering ,2009 Motor Business Japan ,1997 The Japanese motor industry worldwide
Automotive Engineering International ,2004 **Trajectory Planning for Coordinated Motion of a Robot and a Positioning Table Along Smooth and Sharp Cornered Paths** Musa Khalil Jouaneh,1989 *Robotics Abstracts* ,1990

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