

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.
- PM 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 user 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.
- iPendant with touch screen for custom HMI applications.
- Monochrome teach pendant.
- Integrated spot welding utilities.
- Electrically insulated receptacle.

FANUC
Robotics

Fanuc Robot Manual Guide

Hao-Shang Ma, Hwa-Young Jeong, Yu-Wei Chan, Hsuan-Che Yang

Fanuc Robot Manual Guide:

Wearable Robotics: Challenges and Trends Juan C. Moreno, Jawad Masood, Urs Schneider, Christophe Maufroy, Jose L. Pons, 2021-07-01 This book reports on advanced topics in the areas of wearable robotics research and practice It focuses on new technologies including neural interfaces soft wearable robots sensors and actuators technologies discussing industrially and medically relevant issues as well as legal and ethical aspects It covers exemplary case studies highlighting challenges related to the implementation of wearable robots for different purposes and describing advanced solutions Based on the 5th International Symposium on Wearable Robotics WeRob2020 and on WearRacon Europe 2020 which were both held online on October 13 16 2020 the book addresses a large audience of academics and professionals working in for the government in the industry and in medical centers as well as end users alike By merging together engineering medical ethical and industrial perspectives it offers a multidisciplinary timely snapshot of the field of wearable technologies *From Cogs to Code: The Evolution of Robotics* Danny Kurt, The story of robotics is a compelling narrative of human ingenuity a testament to our innate desire to create and innovate From the earliest attempts to mimic human actions through simple automatons to the complex AI powered systems of today the evolution of robotics reflects not only our technological progress but also our evolving understanding of ourselves and the world around us This book embarks on a journey through this remarkable history beginning with the ancient dreams and mechanical marvels that laid the groundwork for modern robotics We will explore the fascinating world of early automata revealing how even in antiquity humans sought to create machines capable of simulating life and performing tasks The development of clockwork mechanisms and programmable devices such as the Jacquard loom will be examined highlighting their crucial role in laying the foundations for automated control The narrative then progresses to the post war era charting the birth of modern robotics with the invention of the first industrial robot and the subsequent rise of industrial automation We will delve into the technical advancements that propelled this progress exploring the development of early programming languages sensor technologies and control systems The integration of artificial intelligence AI into robotics marks another pivotal moment and we will investigate how this convergence has given rise to increasingly autonomous and sophisticated machines The book will also explore the fascinating advancements in robotic locomotion and manipulation from the evolution of robotic arms to the challenges of creating robots capable of walking and navigating complex environments Further we will delve into the crucial role of perception and navigation in robotics examining the techniques used to enable robots to sense their surroundings and interact with the world effectively The diverse applications of robotics across various industries and domains from manufacturing and healthcare to exploration and space will be examined Finally the book will address the important ethical considerations surrounding the rapidly advancing field of robotics discussing the societal implications of automation AI safety and the future of human robot coexistence It is our hope that this comprehensive exploration of the evolution of robotics will provide both a fascinating

historical account and a thoughtful perspective on the future implications of this transformative technology

Manufacturing In The Era Of 4th Industrial Revolution: A World Scientific Reference (In 3 Volumes) ,2021-01-13 The era of the fourth industrial revolution has fundamentally transformed the manufacturing landscape Products are getting increasingly complex and customers expect a higher level of customization and quality Manufacturing in the Era of 4th Industrial Revolution explores three technologies that are the building blocks of the next generation advanced manufacturing The first technology covered in Volume 1 is Additive Manufacturing AM AM has emerged as a very popular manufacturing process The most common form of AM is referred to as three dimensional 3D printing Overall the revolution of additive manufacturing has led to many opportunities in fabricating complex customized and novel products As the number of printable materials increases and AM processes evolve manufacturing capabilities for future engineering systems will expand rapidly resulting in a completely new paradigm for solving a myriad of global problems The second technology is industrial robots which is covered in Volume 2 on Robotics Traditionally industrial robots have been used on mass production lines where the same manufacturing operation is repeated many times Recent advances in human safe industrial robots present an opportunity for creating hybrid work cells where humans and robots can collaborate in close physical proximities This Cobots or collaborative robots has opened up to opportunity for humans and robots to work more closely together Recent advances in artificial intelligence are striving to make industrial robots more agile with the ability to adapt to changing environments and tasks Additionally recent advances in force and tactile sensing enable robots to be used in complex manufacturing tasks These new capabilities are expanding the role of robotics in manufacturing operations and leading to significant growth in the industrial robotics area The third technology covered in Volume 3 is augmented and virtual reality Augmented and virtual reality AR VR technologies are being leveraged by the manufacturing community to improve operations in a wide variety of ways Traditional applications have included operator training and design visualization with more recent applications including interactive design and manufacturing planning human and robot interactions ergonomic analysis information and knowledge capture and manufacturing simulation The advent of low cost solutions in these areas is accepted to accelerate the rate of adoption of these technologies in the manufacturing and related sectors Consisting of chapters by leading experts in the world Manufacturing in the Era of 4th Industrial Revolution provides a reference set for supporting graduate programs in the advanced manufacturing area

Innovative Computing 2025, Volume 2 Hao-Shang Ma,Hwa-Young Jeong,Yu-Wei Chan,Hsuan-Che Yang,2025-07-22 This book comprises select proceedings of the 7th International Conference on Innovative Computing which was held in Bangkok Thailand Jan 19 23 2025 IC 2025 focusing on cutting edge research carried out in the areas of information technology science and engineering Some of the themes covered in this book are cloud communications and networking high performance computing architecture for secure and interactive IoT satellite communication wearable network and system infrastructure management etc The essays are written by leading international experts making it a

valuable resource for researchers and practicing engineers alike **Industrial Robots** United States. Patent and Trademark Office. Office of Technology Assessment and Forecast,1982 **Machinery Buyers' Guide** ,1999 *Springer Handbook of Robotics* Bruno Siciliano,Oussama Khatib,2008-05-20 With the science of robotics undergoing a major transformation just now Springer s new authoritative handbook on the subject couldn t have come at a better time Having broken free from its origins in industry robotics has been rapidly expanding into the challenging terrain of unstructured environments Unlike other handbooks that focus on industrial applications the Springer Handbook of Robotics incorporates these new developments Just like all Springer Handbooks it is utterly comprehensive edited by internationally renowned experts and replete with contributions from leading researchers from around the world The handbook is an ideal resource for robotics experts but also for people new to this expanding field CAD/CAM, Robotics, and Factories of the Future Raj Gill,Chanan S. Syan,1996 Robótica John J. Craig,2006 *National Guide to Educational Credit for Training Programs 2004-2005* Jo Ann Robinson,Troy Polite,Nancy Musick,2004 For more than 25 years this guide has been the trusted source of information on thousands of educational courses offered by business labor unions schools training suppliers professional and voluntary associations and government agencies These courses provide academic credit to students for learning acquired at such organizations as AT T Citigroup Delta Air Lines General Motors University NETg and Walt Disney World Resort Each entry in the comprehensive INational Guide R provides L L DBL Course title L DBL Location of all sites where the course is offered L DBL Length in hours days or weeks L DBL Period during which the credit recommendation applies L DBL Purpose for which the credit was designed L DBL Learning outcomes L DBL Teaching methods materials and major subject areas covered L DBL College credit recommendations offered in four categories by level of degrees and expressed in semester hours and subject areas s in which credit is applicable L L The introductory section includes ACE Transcript Service information For more than 25 years this guide has been the trusted source of information on thousands of educational courses offered by business labor unions schools training suppliers professional and voluntary associations and government agencies These courses provide academic credit to students for learning acquired at such organizations as AT T Citigroup Delta Air Lines General Motors University NETg and Walt Disney World Resort Each entry in the comprehensive INational Guide R provides L L DBL Course title L DBL Location of all sites where the course is offered L DBL Length in hours days or weeks L DBL Period during which the credit recommendation applies L DBL Purpose for which the credit was designed L DBL Learning outcomes L DBL Teaching methods materials and major subject areas covered L DBL College credit recommendations offered in four categories by level of degrees and expressed in semester hours and subject areas s in which credit is applicable L L The introductory section includes ACE Transcript Service information **Robotics Simplified** Jisu Elsa Jacob,Manjunath N,2022-01-22 A comprehensive outlook on all the concepts of Robotics for beginners KEY FEATURES Includes key concepts of robot modeling control and programming Numerous examples and exercises on various aspects of

robotics Exposure to physical computing robotic kinematics trajectory planning and motion control systems

DESCRIPTION

Robotics Simplified is a learner's handbook that provides a thorough foundation around robotics including all the basic concepts. The book takes you through a lot of essential topics about robotics including robotic sensing, actuation, programming, motion control, and kinematic analysis of robotic manipulators. To begin with, the book prepares you with the basic foundational knowledge that assists you in understanding the basic concepts of robotics. It helps you to understand key elements of robotic systems including various actuators, sensors, and different vision systems. It explains the actual physics that robotic systems work upon, such as trajectory planning and motion control of manipulators. It covers the kinematics and dynamics of multi-body systems while you learn to develop a robotic model. Various programming techniques and control systems have practically been demonstrated that guide you to reverse engineer, reprogram, and troubleshoot some existing simple robots. You will also get a practical demonstration of how your robots can become smart and intelligent using various image processing techniques illustrated in detail. By the end of this book, you will gain a solid foundation of robotics and get well versed with the modern techniques that are used for robotic modeling, controlling, and programming.

WHAT YOU WILL LEARN

- Understand and develop robotic vision and sensing systems
- Integrate various robotic actuators and end effectors
- Design and configure manipulators with robotic kinematics
- Prepare the trajectory and path planning of robots
- Learn robot programming using C, Python, and VAL

WHO THIS BOOK IS FOR

This book has been meticulously crafted for engineers, students, entrepreneurs, and robotics enthusiasts. This book provides a complete explanation of all major robotics principles, allowing readers of all levels to learn from scratch.

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Robots at Work John Hartley, John R. Hartley, 1983 *Manufacturing Engineering*, 2008 *Applied Mechanics Reviews*, 1991 Advanced Technologies For Meat Processing Leo M.L. Nollet, Fidel Toldra, 2006-03-21

In recent years, the meat industry has incorporated important technological advances that to this point have not been addressed in a single source. Comprehensive and authoritative, *Advanced Technologies for Meat Processing* presents developments concerning the quality analysis and processing of meat and meat products. Co-Edited by Fidel Toldra, Recipient of the 2010 Distinguished Research Award from the American Meat Science Association. Featuring contributions from a panel of international experts, the book details technologies used in the meat processing chain. It describes important processing methodologies such as gene technology, automation, irradiation, hot boning, high pressure, vacuum salting, enzymes, starters, and bacteriocins. The book begins by exploring various production systems that include the use of modern biotechnology, automation in slaughterhouses, and rapid non-destructive on-line detection systems. It proceeds to describe different new technologies such as decontamination, high

pressure processing and fat reduction The book then examines functional meat compounds such as peptides and antioxidants and the processing of nitrate free products and dry cured meat products It also discusses bacteriocins that fight against meat borne pathogens and the latest developments in bacterial starters for improved flavor in fermented meats It concludes with a discussion of packaging systems of the final products **Annual Research Review** Carnegie-Mellon University. Robotics Institute,1985 *Machinery* ,2004 *Joining & Materials* ,1988 **Robomatix Reporter** ,1984 **Japanese Motor Business** ,1995 A research bulletin examining the Japanese automotive industry s impact worldwide

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