

PERFECT FINISH – PAINTED BY THE SPECIALIST.



Fanuc Robot M-10iA/10S

Short arm version – Payload up to 10 kg, reach 1098 mm



The M-10iA/10S is FANUC Robotics' latest-generation, six-axis, high performance industrial robot. This small but mighty robot only weighs 130 kg but provides 10 kg payload with the highest wrist moments and inertia in its class. Dress-out and routing of cables and airlines have been greatly simplified with a 50-mm hollow wrist and upper arm, helping to reduce system cost and improving reliability. The M-10iA/10S can be floor or wall mounted at any angle, or ceiling mounted. J3 can also flip over allowing the robot to work behind itself creating a very large work envelope. Along with FANUC's integrated vision package in the controller called iRVision™, the M-10iA/10S comes vision ready with a 2D vision cable integrated through the robot arm as a standard option.

The robot M-10iA/10S has the highest axis speeds and the best repeatability in its class, making for an extremely fast and highly repeatable robot. The M-10iA/10S is setting

the industry standard for small robots and is the perfect solution for your application.

M-10iA Series, the solution for:

- Painting and dispensing
- Material handling
- Material removal
- Assembly
- Picking and packing

Features and benefits:

- 6 degrees of freedom
- ± 0.05 mm repeatability
- 10 kg payload at wrist
- Large wrist moments and inertia for real-world IC/GTs and workpieces
- Supplementary payload mount on J3 casting
- 2D vision cables from J1 to J3 as a standard option
- Compact size, slim wrist, and small footprint permit operation in tight work spaces
- Robot can be floor, angle, wall or ceiling mounted
- High joint speeds maximize throughput
- Absolute encoder positioning eliminates homing at power-up
- Intelligent colourgraphic teach pendant is network ready
- Built-in solution arm, 50mm hollow wrist and upper arm

Reliability

- RV reducer, gear and harmonic drivetrains provide rigidity and performance in a compact package
- Sealed bearings and brushless, maintenance-free AC motors provide protection and improve reliability

Robot and Controller Options

- iRVision for guidance and inspection
- Up to 40 axes (robot + auxiliary) on same controller
- Extended communications capabilities: FTP, ProNet, FANUC Model A I/O rack, etc.
- Linear or circular conveyor tracking
- Many unique robot and application-driven software options available

User Manual Fanuc Robotics

Jerry Banks



User Manual Fanuc Robotics:

Handbook of Industrial Robotics Shimon Y. Nof, 1999-03-02 About the Handbook of Industrial Robotics Second Edition Once again the Handbook of Industrial Robotics in its Second Edition explains the good ideas and knowledge that are needed for solutions Christopher B Galvin Chief Executive Officer Motorola Inc The material covered in this Handbook reflects the new generation of robotics developments It is a powerful educational resource for students engineers and managers written by a leading team of robotics experts Yukio Hasegawa Professor Emeritus Waseda University Japan The Second Edition of the Handbook of Industrial Robotics organizes and systematizes the current expertise of industrial robotics and its forthcoming capabilities These efforts are critical to solve the underlying problems of industry This continuation is a source of power I believe this Handbook will stimulate those who are concerned with industrial robots and motivate them to be great contributors to the progress of industrial robotics Hiroshi Okuda President Toyota Motor Corporation This Handbook describes very well the available and emerging robotics capabilities It is a most comprehensive guide including valuable information for both the providers and consumers of creative robotics applications Donald A Vincent Executive Vice President Robotic Industries Association 120 leading experts from twelve countries have participated in creating this Second Edition of the Handbook of Industrial Robotics Of its 66 chapters 33 are new covering important new topics in the theory design control and applications of robotics Other key features include a larger glossary of robotics terminology with over 800 terms and a CD ROM that vividly conveys the colorful motions and intelligence of robotics With contributions from the most prominent names in robotics worldwide the Handbook remains the essential resource on all aspects of this complex subject

Intelligent Control, Robotics, and Industrial Automation Sanjay Sharma, Bidyadhar Subudhi, Umesh Kumar Sahu, 2023-11-17 This volume comprises peer reviewed proceedings of the International Conference on Robotics Control Automation and Artificial Intelligence RCAAI 2022 It aims to provide a broad spectrum picture of the state of art research and development in the areas of intelligent control the Internet of Things machine vision cybersecurity robotics circuits and sensors among others This volume will provide a valuable resource for those in academia and industry

Vehicle and Automotive Engineering 4 Károly Jármay, Ákos Cservedák, 2022-09-09 This book presents the selected proceedings of the third fourth Vehicle and Automotive Engineering conference reflecting the outcomes of theoretical and practical studies and outlining future development trends in a broad field of automotive research The conference's main themes included design manufacturing economic and educational topics

Instrument Engineers' Handbook, Volume 3 Bela G. Liptak, Halit Eren, 2018-10-08 Instrument Engineers Handbook Volume 3 Process Software and Digital Networks Fourth Edition is the latest addition to an enduring collection that industrial automation AT professionals often refer to as the bible First published in 1970 the entire handbook is approximately 5 000 pages designed as standalone volumes that cover the measurement Volume 1 control Volume 2 and software Volume 3 aspects of automation This fourth edition of the third volume provides an

in depth state of the art review of control software packages used in plant optimization control maintenance and safety Each updated volume of this renowned reference requires about ten years to prepare so revised installments have been issued every decade taking into account the numerous developments that occur from one publication to the next Assessing the rapid evolution of automation and optimization in control systems used in all types of industrial plants this book details the wired wireless communications and software used This includes the ever increasing number of applications for intelligent instruments enhanced networks Internet use virtual private networks and integration of control systems with the main networks used by management all of which operate in a linked global environment Topics covered include Advances in new displays which help operators to more quickly assess and respond to plant conditions Software and networks that help monitor control and optimize industrial processes to determine the efficiency energy consumption and profitability of operations Strategies to counteract changes in market conditions and energy and raw material costs Techniques to fortify the safety of plant operations and the security of digital communications systems This volume explores why the holistic approach to integrating process and enterprise networks is convenient and efficient despite associated problems involving cyber and local network security energy conservation and other issues It shows how firewalls must separate the business IT and the operation automation technology or AT domains to guarantee the safe function of all industrial plants This book illustrates how these concerns must be addressed using effective technical solutions and proper management policies and practices Reinforcing the fact that all industrial control systems are in general critically interdependent this handbook provides a wide range of software application examples from industries including automotive mining renewable energy steel dairy pharmaceutical mineral processing oil gas electric power utility and nuclear power

Introduction to Robotics Saeed B. Niku, 2010-09-22 Now in its second edition Introduction to Robotics is intended for senior and introductory graduate courses in robotics Designed to meet the needs of different readers this book covers a fair amount of mechanics and kinematics including manipulator kinematics differential motions robot dynamics and trajectory planning It also covers microprocessor applications control systems vision systems sensors and actuators making the book useful to mechanical engineers electronic and electrical engineers computer engineers and engineering technologists A chapter on controls presents enough material to make the understanding of robotic controls and design accessible to those who have yet to take a course in control systems

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 **Advances in Mechanism Design IV** Jaroslav Beran, Martin Bílek, Miroslav Václavík, Petr Žabka, 2024-08-30 This book presents the latest research advances relating to machines and mechanisms Featuring papers from the XIV International Conference on the Theory of Machines and Mechanisms TMM held in Liberec Czech Republic on September 3-5 2024 it includes a selection of the most important new results and developments The book is divided into five parts representing a well balanced overview and spanning the general theory of machines and mechanisms through analysis and synthesis of planar and spatial mechanisms linkages and cams robots and manipulators dynamics of machines and mechanisms rotor dynamics computational mechanics vibration and noise in machines optimization of mechanisms and machines mechanisms of textile machines mechatronics and control and monitoring systems of machines This conference is traditionally held every four years under the auspices of the international organisation IFToMM and the Czech Society for Mechanics Automation in Agriculture Stephan Hussmann, 2018-03-14 According to Prof D Despommier by the year 2050 nearly 80% of the earth's population will reside in urban centers Furthermore the human population will increase by about 3 billion people during the interim New land will be needed to grow enough food to feed them At present throughout the world over 80% of the land that is suitable for raising crops is in use What can be done to avoid this impending disaster One possible solution is indoor farming However not all crops can easily be moved in an indoor environment Nevertheless to secure the food supply it is necessary to increase the automation level in agriculture significantly This book intends to provide the reader with a comprehensive overview of the impact of the Fourth Industrial Revolution and automation examples in agriculture **Robotics in STEM Education** Myint Swe Khine, 2017-07-10 This book describes recent approaches in advancing STEM education with the use of robotics innovative methods in integrating robotics in school subjects engaging and stimulating students with robotics in classroom based and out of school activities and new ways of using robotics as an educational tool to provide diverse learning experiences It addresses issues and challenges in generating enthusiasm among students and revamping curricula to provide application focused and hands on approaches in learning The book also provides effective strategies and emerging trends in using robotics designing learning activities and how robotics impacts the students interests and achievements in STEM related subjects The frontiers of education are progressing very rapidly This volume brought together a collection of projects and ideas which help us keep track of where the frontiers are moving This book ticks lots of contemporary boxes STEM robotics coding and computational thinking among them Most educators interested in the STEM phenomena will find many ideas in this book which challenge provide evidence and suggest solutions related to both pedagogy and content Regular reference to 21st Century skills achieved through active collaborative learning in authentic contexts ensures the enduring usefulness of this volume John Williams Professor of Education and Director of the STEM Education Research Group Curtin University

Perth Australia **Advances in Italian Mechanism Science** Giuseppe Quaglia, Giovanni Boschetti, Giuseppe Carbone, 2024-08-01 This book presents the proceedings of the 5th International Conference of IFToMM ITALY IFIT held in Turin Italy on September 11 13 2024 It includes peer reviewed papers on the latest advances in mechanism and machine science discussing topics such as biomechanical engineering computational kinematics the history of mechanism and machine science gearing and transmissions multi body dynamics robotics and mechatronics the dynamics of machinery tribology vibrations rotor dynamics and vehicle dynamics A valuable up to date resource it offers an essential overview of the subject for scientists and practitioners alike and inspires further investigations and research *CAD/CAM, Robotics, and Factories of the Future* Raj Gill, Chanan S. Syan, 1996 **Industrial Automation and Robotics** A. K. Gupta, Gupta, 2007

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 **Research and Education in Robotics - EUROBOT 2011** David Obdrzalek, Achim Gottscheber, 2011-06-14 This book constitutes the proceedings of the International Conference on Research and Education in Robotics EUROBOT 2011 held in Prague Czech Republic in June 2011 The 28 revised full papers presented were carefully reviewed and selected from numerous submissions The papers present current basic research such as robot control and behaviour applications of autonomous intelligent robots and perception processing and action as well as educationally oriented papers addressing issues like robotics at school and at university practical educational robotics activities practices in educational robot design and future pedagogical activities *Robotic Safety Systems* Justin Starr, Christopher Quick, 2024-11-14 This book reboots the conversation about all technologies relating to robot safety It covers key features of industry standards relevant government regulations hardware devices physical safeguards and vendor specific software implementations including FANUC's Dual Check Safety ABB's SafeMove and more Robotic Safety Systems An Applied Approach discusses some of the unique concerns associated with remote I/O and systems designed to be controlled over wide area networks including the internet It includes annotated example safety configurations and programs that can be customized and loaded and deployed on existing robots giving the reader tools to immediately apply the lessons learned in this text The text also provides best practices for using cutting edge systems such as cobots and mobile robotic arms with some autonomy systems that have advanced faster than the regulatory frameworks Included are real world examples from FANUC ABB Universal Robots and Kuka the most popular brands on the market Finally as an

appendix to this text a case study demonstrating proper use of A3 RIA standards is included This will allow readers to make an informed decision prior to purchasing these expensive references This book is intended for post secondary classes at universities with specializations in robotics or robotic engineering It will also be useful for robot systems integrators design engineers consultants integration experts robot programmers **Springer Handbook of Automation** Shimon Y.

Nof,2023-06-16 This handbook incorporates new developments in automation It also presents a widespread and well structured conglomeration of new emerging application areas such as medical systems and health transportation security and maintenance service construction and retail as well as production or logistics The handbook is not only an ideal resource for automation experts but also for people new to this expanding field **Official Gazette of the United States Patent**

and Trademark Office United States. Patent and Trademark Office,2001 *Robotics* Joseph A. Angelo Jr.,2006-12-30

Although advanced technologies are the cornerstone of modern life few people understand how such technologies as robotics or nuclear science actually work Fewer still realize how and how dramatically technology influences our society and culture *Robotics* is a reference guide that provides nonspecialists with the most up to date information on seminal developments in the technology of robotics as well as covering the social political and technical impacts of those developments on everyday life both now and in the future **Robot Control and Programming** Mr. Rohit Manglik,2024-04-06 EduGorilla Publication

is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **Handbook of Simulation** Jerry

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There has never been a single definitive source of key information on all facets of discrete event simulation and its applications to major industries The Handbook of Simulation brings together the contributions of leading academics practitioners and software developers to offer authoritative coverage of the principles techniques and uses of discrete event simulation Comprehensive in scope and thorough in approach the Handbook is the one reference on discrete event simulation that every industrial engineer management scientist computer scientist operations manager or operations researcher involved in problem solving should own with an in depth examination of Simulation methodology from experimental design to data analysis and more Recent advances such as object oriented simulation on line simulation and parallel and distributed simulation Applications across a full range of manufacturing and service industries Guidelines for successful simulations and sound simulation project management Simulation software and simulation industry vendors

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