

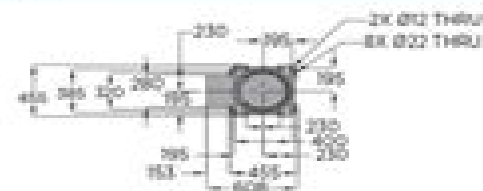
VIEW A



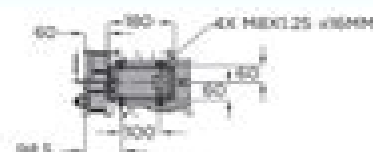
VIEW B



VIEW C



VIEW D



All dimensions are metric (mm) and for reference only. Request detailed drawings for all design/engineering requirements.

## SPECIFICATIONS

Axes	Maximum motion range	Maximum speed	Allowable moment	Allowable moment of inertia
	degrees	°/sec	Nm	kgm <sup>2</sup>
S	±180	180	-	-
L	+135/-90	140	-	-
U	+205/-80	178	-	-
R	±360	250	147	10
B	±125	250	147	10
T	±360	360	78	4

Item	Unit	GP35L
Controlled axes		6
Maximum payload	kg	35
Repeatability	mm	0.07
Horizontal reach	mm	2,538
Vertical reach	mm	4,449
Weight	kg	600
Internal user I/O cable		24 conductors w/ ground
Internal user air line		(2) 3/8" connection
Power requirements		380-480 VAC
Power rating	kVA	4.5

Specifications for GP35L with KP package may be different. Mounting Options: Floor, Wall, Tilt or Ceiling

\* The MLX500 software option is not available for use with arc or spot welding applications. MLX500 fieldbus cards, I/O cards and vision equipment must be purchased separately from the supplier. All peripherals are programmed using a PLC.

# Motoman Robot Operating Manuals

**G Orfield**



## **Motoman Robot Operating Manuals:**

**Handbook Of Industrial Automation** Richard Shell,2000-08-29 Supplies the most essential concepts and methods necessary to capitalize on the innovations of industrial automation including mathematical fundamentals ergonometics industrial robotics government safety regulations and economic analyses *Industrial Robot Handbook* Richard K. Miller,2013-11-21 These are exciting times for manufacturing engineers It has been said that American industry will undergo greater changes during the 1980 and 1990 decades than it did during the entire eight preceding decades of this century The industrial robot has become the symbol of this progress in computer integrated manufacturing This book is for engineers and managers in manufacturing industries who are involved in implementing robotics in their operations With tens of thousands of industrial robots already in use in the United States there are plenty of role models for proposed applications to be patterned after This book provides an overview of robot applications and presents case histories that might suggest applications to engineers and managers for implementation in their own facilities The application of industrial robots were well developed in the late 1970s and early 1980s While the reader may note some of the examples discussed in this handbook incorporate older robot models it is the application that is of interest As Joseph Engelberger the founding father of robotics has pointed out industrial robots in 1988 are doing pretty much the same kind of work as they did in 1980 **The**

**Professional Bar & Beverage Manager's Handbook** Amanda Miron,Douglas Robert Brown,2006 CD ROM contains forms in PDF and a business plan in MS Word **A Manager's Guide to Robotic Systems** Datapro Research Corporation,1985

**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

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

**The Professional Caterers' Handbook** Lora Arduser, Douglas Robert Brown, 2006 Do you need a comprehensive book on how to plan start and operate a successful catering operation This is it an extensive detailed manual that shows you step by step how to set up operate and manage a financially successful catering business No component is left out of this encyclopedic new book explaining the risky but potentially highly rewarding business of catering Whether your catering operation is on premise off premise mobile inside a hotel part of a restaurant or from your own home kitchen you will find this book very useful You will learn the fundamentals profitable menu planning successful kitchen management equipment layout and planning and food safety and HACCP The employee and management chapters deal with how to hire and keep a qualified professional staff manage and train employees and report tips properly in accordance with the latest IRS requirements The financial chapters focus on basic cost control systems accounting and bookkeeping procedures auditing successful budgeting and profit planning You'll also master public relations and publicity learn low cost internal marketing ideas and discover low and no cost ways to satisfy customers One section of the book is devoted to home based catering entrepreneurs With low startup costs and overhead a home based catering business can be an ideal do it yourself part or full time business Another section is for restaurateurs that wish to add catering to their restaurant operation A successful restaurant's bottom line could be greatly enhanced by instituting catering functions in slow hours or down time For example many restaurants are closed on Saturday afternoons so this would be an ideal time to create a profit by catering a wedding

This book is also ideal for professionals in the catering industries as well as newcomers who may be looking for answers to cost containment and training issues There are literally hundreds of innovative ways demonstrated to streamline The companion CD ROM is included with the print version of this book however is not available for download with the electronic version It may be obtained separately by contacting Atlantic Publishing Group at sales atlantic pub com Atlantic Publishing is a small independent publishing company based in Ocala Florida Founded over twenty years ago in the company president s garage Atlantic Publishing has grown to become a renowned resource for non fiction books Today over 450 titles are in print covering subjects such as small business healthy living management finance careers and real estate Atlantic Publishing prides itself on producing award winning high quality manuals that give readers up to date pertinent information real world examples and case studies with expert advice Every book has resources contact information and web sites of the products or companies discussed

*Vehicle and Automotive Engineering 3* Károly Jármai,Katalin Voith,2020-10-19 This book presents the proceedings of the third 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 **Technologies of Robotic Welding** Maoai Chen,Wenjian Ren,Yuanning Jiang,2024-11-11 The book deals with robotic welding systems and their applications The mechanical design of manipulator sensing technology welding process manipulating technology and maintenance procedure of welding robot are presented in detail with must know basic theories about operation principle of robot briefly introduced The book features a large quantity of carefully selected images and tables to help the reader understand the technologies of robotic welding easily and quickly The book benefits welding engineers mechanical engineers researchers and senior undergraduate students and postgraduate students in the fields of welding engineering mechanical engineering etc

Live-Line Operation and Maintenance of Power Distribution Networks Tianyou Li,Qiu Jin Lin,Genghuang Chen,2017-03-20 Excellent reference outlining the technical basis and working principles of live line working with current application technology tools and working methods Introduces live line working technology for the operation and maintenance of medium and low voltage power distribution networks covering both the methods and techniques of live line working on distribution networks with O M field practices and experiences Elaborates the technical basis and working principles of live line working in detail with current application technology tools and working methods Combining theory and practice closely it provides technical guidance and helpful references to technical personnel who are engaged in distribution operation management as well as related academics and researchers Written by a team of authors with extensive experience in both industry and academic fields providing first hand testimony of the issues facing electricity distribution companies and offering sound theoretical foundations and rich field experiences October 2023 - Surplus Record Machinery & Equipment Directory Tom Scanlan, SURPLUS RECORD is the leading independent business directory of new and used capital equipment machine tools

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**Manual de instalación** NAVARRO PIÑA, ALEJHANDRO,2020-12-18 El robot industrial es una pieza fundamental de cualquier proceso industrial En este libro se indica un procedimiento b sico para llevar a cabo la ingenier a de la instalaci n de una c lula robotizada por lo que servir de gu a para cualquier persona involucrada en la instalaci n o que desee instalar un robot industrial en su empresa Se acompa ar al lector por cada una de las etapas que se deben seguir para desarrollar de forma efectiva una c lula robotizada desde la selecci n del robot el dise o de la herramienta de trabajo y la selecci n de los componentes de seguridad de la c lula hasta la programaci n Adicionalmente a lo largo de varios cap tulos se ilustra un caso pr ctico real donde se demuestra cada una de las etapas mencionadas con el fi n de afianzar la teor a El autor Alejhandro V Navarro Pi a es ingeniero mec nico con posgrado en Mecatr nica profesor de posgrado en la Universidad Arturo Michelena de Venezuela y CEO en la empresa AN Mecatr nica especializada en el desarrollo de proyectos industriales en el sector de la ergonom a y manufactura automatizada **Wearable Robots** Jose L. Pons,2008-04-15 A wearable robot is a mechatronic

system that is designed around the shape and function of the human body with segments and joints corresponding to those of the person it is externally coupled with Teleoperation and power amplification were the first applications but after recent technological advances the range of application fields has widened Increasing recognition from the scientific community means that this technology is now employed in telemanipulation man amplification neuromotor control research and rehabilitation and to assist with impaired human motor control Logical in structure and original in its global orientation this volume gives a full overview of wearable robotics providing the reader with a complete understanding of the key applications and technologies suitable for its development The main topics are demonstrated through two detailed case studies one on a lower limb active orthosis for a human leg and one on a wearable robot that suppresses upper limb tremor These examples highlight the difficulties and potentialities in this area of technology illustrating how design decisions should be made based on these As well as discussing the cognitive interaction between human and robot this comprehensive text also covers the mechanics of the wearable robot and its biomechanical interaction with the user including state of the art technologies that enable sensory and motor interaction between human biological and wearable artificial mechatronic systems the basis for bioinspiration and biomimetism general rules for the development of biologically inspired designs and how these could serve recursively as biological models to explain biological systems the study on the development of networks for wearable robotics Wearable Robotics Biomechatronic Exoskeletons will appeal to lecturers senior undergraduate students postgraduates and other researchers of medical electrical and bio engineering who are interested in the area of assistive robotics Active system developers in this sector of the engineering industry will also find it an informative and welcome resource *New Trends in Engineering Research 2024* Nenad Mitrovic, Goran Mladenovic, Aleksandra Mitrovic, 2025-01-07 This book is a collection of high quality peer reviewed research papers presented at the International Conference of Experimental and Numerical Investigations and New Technologies CNNTech2024 held in Belgrade Serbia from 24 June to 27 June 2024 The book discusses various industrial engineering and scientific applications of engineering techniques Researchers from academia and industry present their original work and exchange ideas experiences information techniques applications and innovations in mechanical engineering materials science chemical and process engineering experimental techniques numerical methods and new technologies *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 Automotive Engineering

International ,2006      **Handbook of Robotic and Image-Guided Surgery** Mohammad Hossein Abedin Nasab,2019-09-25  
Handbook of Robotic and Image Guided Surgery provides state of the art systems and methods for robotic and computer assisted surgeries In this masterpiece contributions of 169 researchers from 19 countries have been gathered to provide 38 chapters This handbook is 744 pages includes 659 figures and 61 videos It also provides basic medical knowledge for engineers and basic engineering principles for surgeons A key strength of this text is the fusion of engineering radiology and surgical principles into one book A thorough and in depth handbook on surgical robotics and image guided surgery which includes both fundamentals and advances in the field A comprehensive reference on robot assisted laparoscopic orthopedic and head and neck surgeries Chapters are contributed by worldwide experts from both engineering and surgical backgrounds      Sheet Metal Industries ,1997      **Industrial Robots Programming** J. Norberto Pires,2007-04-03  
Industrial Robots Programming focuses on designing and building robotic manufacturing cells and explores the capabilities of today s industrial equipment as well as the latest computer and software technologies Special attention is given to the input devices and systems that create efficient human machine interfaces and how they help non technical personnel perform necessary programming control and supervision tasks Drawing upon years of practical experience and using numerous examples and illustrative applications J Norberto Pires covers robotics programming as it applies to The current industrial robotic equipment including manipulators control systems and programming environments Software interfaces that can be used to develop distributed industrial manufacturing cells and techniques which can be used to build interfaces between robots and computers Real world applications with examples designed and implemented recently in the lab Industrial Robots Programming has been selected for indexing by Scopus For more information about Industrial Robotics please find the author s Industrial Robotics collection at the iTunesU University of Coimbra channel



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