

# INSTRUCTION MANUAL FOR MIG WELDING MACHINE

## IMPORTANT!!!

READ THIS MANUAL CAREFULLY BEFORE INSTALLING, USING, OR PERFORMING ANY MAINTENANCE ON THE MACHINE. PAY SPECIAL ATTENTION TO THE CHAPTER ON "SAFETY PRECAUTIONS". CONTACT YOUR DISTRIBUTOR IF YOU DO NOT FULLY UNDERSTAND THESE INSTRUCTIONS.

## 1 GENERAL DESCRIPTIONS

### 1.1 SPECIFICATIONS

This manual has been prepared for the purpose of educating personnel assigned to install, operate and service the welding machine.

This equipment is a constant-voltage generator, suitable for MIG/MAG and OPEN-ARC welding.

Upon receiving the machine, make sure there are no broken or damaged parts.

The purchaser should address any complaints for losses or damage to the vector. Please indicate the article and serial number whenever requesting information about the welding machine.

### 1.2 EXPLANATION OF TECHNICAL SPECIFICATIONS

EN50199 The welding machine is manufactured according to these international standards.  
EN60974.1 Serial number, which must be indicated on any type of request regarding the welding machine.

N° three-phase transformer-rectifier.



Flat characteristic.



Downslope



Suitable for continuous electrode welding.



Suitable for TIG welding.



Suitable for MMA welding.

$I_2$  MAX Unconventional welding current. This value represents the maximum limit available during welding.

$U_0$  Secondary open-circuit voltage (peak value).  
X Duty cycle percentage  
The duty cycle expresses the percentage of 10 minutes during which the welding machine may run at a certain current without overheating.

$I_2$  Welding current.  
 $U_2$  Secondary voltage with welding current  $I_2$ .  
 $U_1$  Rated supply voltage.

3~ 50/60Hz 50- or 60-Hz three-phase power supply.  
 $I_1$  Absorbed current at the corresponding welding current  $I_2$ .

IP21 Protection rating for the housing. Grade 1 as the second digit means that this equipment is suitable for use outdoors in the rain.

 Suitable for use in high-risk environments.

NOTES: The welding machine has also been designed for use in environments with a pollution rating of 3. (See IEC 664).

## 2 INSTALLATION

### 2.1 PLACEMENT

Dust, dirt, and any other foreign matter entering the welding machine can interfere with ventilation and thus with smooth operation.

Mount the handle, the 2 cylinder supports, the extension support and pivot support.

Mount the 2 fixed wheels on the wheel support located on top of the welder. remove the Styrofoam buffer from under the bottom, at the back of the welding machine. Insert the wheel support on the bottom, fastening it in place with the screws provided.



### 2.2 START-UP

- Only qualified personnel should install this welding machine.
- Connect a plug suitable for the absorbed current to the power supply cable.
- Connect the yellow-green wire of the machine mains to an efficient grounding socket.
- Never use water pipes as a grounding conductor.

#### 2.2.1 Connecting the mass clip.

- Connect the power cable terminal to socket AA on the machine.
- Connect the mass cable clip to the workpiece.
- Make sure the cable is firmly attached to the mass terminal; check periodically to make sure these connections are tight. A loose coupling may cause drops in the welding current.

# Mig Welding Manual

**S E Hughes**



## **Mig Welding Manual:**

*Mig Welding Guide* K Weman,G Lindén,2006-04-30 MIG metal inert gas welding also known as gas metal arc welding GMAW is a key joining technology in manufacturing MIG welding guide provides a comprehensive practical and accessible guide to this widely used process Part one discusses the range of technologies used in MIG welding including power sources shielding gases and consumables Fluxed cored arc welding pulsed MIG welding and MIG brazing are also explored Part two reviews quality and safety issues such as improving productivity in MIG MAG welding assessing weld quality health and safety and methods for reducing costs The final part of the book takes a practical look at the applications of MIG welding with chapters dedicated to the welding of steel and aluminium the use of robotics in MIG welding and the application of MIG welding in the automotive industry MIG welding guide is essential reading for welding and production engineers designers and all those involved in manufacturing Provides extensive coverage on gas metal arc welding a key process in industrial manufacturing User friendly in its language and layout Looks at the practical applications of MIG welding

**Welding: A Comprehensive Guide** Pasquale De Marco,2025-07-23 Welding A Comprehensive Guide is the definitive reference book for welders of all levels Written by a team of expert welders this book covers everything you need to know about welding from the basics to the most advanced techniques Whether you re a beginner or a seasoned pro you ll find valuable information in this book The book starts with an overview of the welding process including the different types of welding the equipment you ll need and the safety precautions you should take From there the book dives into the details of each welding process including step by step instructions on how to perform each weld The book also covers the metallurgy of welding which is essential for understanding how welds work and how to make them strong and durable The book also includes a chapter on welding codes and standards so you can be sure that your welds meet the requirements of your industry In addition to the technical information the book also includes a wealth of practical advice on how to troubleshoot welding problems and how to improve your welding skills With its clear explanations detailed illustrations and expert advice Welding A Comprehensive Guide is the only book you ll need to become a master welder Here are just a few of the things you ll learn in this book The different types of welding processes The equipment you need for each welding process The safety precautions you should take when welding How to perform each type of weld The metallurgy of welding Welding codes and standards How to troubleshoot welding problems How to improve your welding skills With Welding A Comprehensive Guide you ll have the knowledge and skills you need to weld like a pro If you like this book write a review

**Field Manuals** United States. War Department,1979-04-02

**The Farm Welding Handbook** Richard Finch, *Direct Support and General Support Maintenance Manual* ,1986

**A Practical Guide to Welding Solutions** Robert W. Messler, Jr.,2019-04-29 As critically important as welding is to a wide spectrum of manufacturing construction and repair it is not without its problems Those dependent on welding know only too well how easy it is to find information on the host of available processes and on the

essential metallurgy that can enable success but how frustratingly difficult it can be to find guidance on solving problems that sooner or later arise with welding welds or weldments Here for the first time is the book those that practice and or depend upon welding have needed and awaited A Practical Guide to Welding Solutions addresses the numerous technical and material specific issues that can interfere with success Renowned industrial and academic welding expert and prolific author and speaker Robert W Messler Jr guides readers to the solutions they seek with a well organized search based on how a problem manifests itself i e as distortion defect or appearance where it appears i e in the fusion zone heat affected zone or base metal or it certain materials or situations      A Quick Guide to Welding and Weld Inspection S E Hughes,2009-10-20 A concise and accessible guide to the knowledge required to fulfil the role of a welding inspector In covering both European and US based codes the book gives those wishing to gain certification in welding inspection a basic all round understanding of the main subject matter A concise and accessible guide to the knowledge required to fulfil the role of a welding inspector Covers both European and US based codes Gives those wishing to gain certification in welding inspection a basic all round understanding of the main subject matter      Welding Processes Handbook K Weman,2011-11-08 The first edition of Welding processes handbook established itself as a standard introduction and guide to the main welding technologies and their applications This new edition has been substantially revised and extended to reflect the latest developments After an initial introduction the book first reviews gas welding before discussing the fundamentals of arc welding including arc physics and power sources It then discusses the range of arc welding techniques including TIG plasma MIG MAG MMA and submerged arc welding Further chapters cover a range of other important welding technologies such as resistance and laser welding as well as the use of welding techniques for cutting surface cladding and hardfacing soldering and brazing A final group of chapters discuss more general issues such as mechanisation safety residual stress and distortion welding design costs and quality assurance as well as the welding of steel and aluminium The new edition of Welding processes handbook confirms its reputation as a concise authoritative and practical introduction to welding and its applications for both students and engineers It is designed to meet the requirements of Module 1 Welding processes and equipment of the International Institute of Welding IIW guidelines for the training of welding personnel at IWE IWT IWS and IWP level This new edition has been substantially revised and extended to reflect the latest developments in the main welding technologies and their applications Reviews gas welding and discusses the fundamentals of arc welding including arc physics and power sources before covering the range of arc welding techniques including TIG plasma MIG MAG MMA and submerged arc welding Examines a range of important welding technologies such as resistance and laser welding and the use of welding techniques for cutting surface cladding and hardfacing soldering and brazing      *Mastering the Art of Welding: A Comprehensive Guide to Techniques, Materials, and Safety* MR. BIG WEALTH,2023-09-07 Mastering the Art of Welding is the ultimate guide for enthusiasts and professionals alike who are passionate about the art of welding This comprehensive book covers a wide

range of topics including welding techniques materials and safety protocols Whether you are a beginner seeking to learn the basics or an experienced welder looking to refine your skills this guide is your go to resource With detailed instructions helpful illustrations and expert tips Mastering the Art of Welding empowers you to create stunning welds with precision and confidence Unlock your potential and take your welding skills to new heights with this indispensable guide **Illustrated Theatre Production Guide** John Ramsey Holloway,2014-06-20 Illustrated Theatre Production Guide delivers a step by step approach to the most prevalent and established theatreproduction practices focusing on essential issues related to the construction of wooden fabric plastic and metal scenery used on the stage A must have resource for both the community theatre worker who must be a jack of all trades and the student who needs to learn the fundamentals on his or her own it covers the necessities in great detail without bogging you down Offering techniques and best practice methods from an experienced industry expert it will allow you to create a foundation on which to build a successful and resourceful career behind the scenes in theatre production This third edition has been completely restructured to more effectively lead you through the basics of stagecraft Through detailed lessons and hundreds of drawings author John Holloway offers you solutions to the problems that you ll face every day in a production from rigging to knot tying New to this edition are guides to jobs in theatre construction documentation and video projection methods with expanded information on Thrust Theatres lighting audio and video practices This book is suitable for Stagecraft courses in university Theatre programs as well as for professional theatre technicians Advanced Welding and Deforming Kapil Gupta,J. Paulo Davim,2021-04-17 Advanced Welding and Deforming explains the background theory working principles technical specifications and latest developments on a wide range of advanced welding joining and deforming techniques The book s subject matter covers manufacturing with chapters specifically addressing remanufacturing and 3D printing applications Drawing on experts in both academia and industry coverage addresses theoretical developments as well as practical improvements from R D By presenting over 35 important processes from plasma arc welding to nano joining and hybrid friction stir welding this is the most complete guide to this field available This unique guide will allow readers to compare the characteristics of different processes understand how they work and create parameters for their effective implementation As part of a 4 volume set entitled Handbooks in Advanced Manufacturing this series also includes volumes on Advanced Machining and Finishing Additive Manufacturing and Surface Treatment and Sustainable Manufacturing Processes Provides theory operational parameters and the latest developments in over 35 different processes Addresses new welding technologies such as additive manufacturing using wire and arc as well as the latest developments in more traditional applications Introduces basic concepts in welding joining and deformation in three introductory chapters thus helping readers with a range of backgrounds engage with the subject matter GATE 2020 Mechanical Engineering Guide with 10 Practice Sets (6 in Book + 4 Online) 7th edition Deepak Pathak,2019-05-30 GATE Mechanical Engineering Guide 2020 with 10 Practice Sets 6 in Book 4 Online Tests 7th edition for

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source of reference on every aspect of thermal welding and associated cutting processes Each process is examined clearly and comprehensively from first principles through to more complex technical descriptions suited to those who need more technical information Copiously illustrated throughout and with an extensive glossary of terms this book is essential reading for welding and production engineers metallurgists designers quality control engineers distributors students and all who are associated with the selection and application of equipment and consumables reprinted with corrections 2001 Automation in the Welding Industry Syed Quadir Moinuddin, Shaik Himam Saheb, Ashok Kumar Dewangan, Murali Mohan Cheepu, S. Balamurugan, 2024-02-02

**AUTOMATION IN THE WELDING INDUSTRY** This volume serves as a multidimensional perspective of welding practices in Industry 5.0 from the perspective of automation digitization digital twins cobots virtual reality augmented reality machine learning artificial intelligence and IoT ranging from rudiments to advanced applications This book introduces the concept of Industry 5.0 in welding technologies where the human brain collaborates with robots to achieve rapid productivity and economic efficiency It presents the latest information on adapting and integrating Industry 5.0 in welding industries through critical constituents such as artificial intelligence AI machine learning ML Internet of Things IoT digital twin augmented and virtual reality AR VR and collaborative robots Cobots towards intelligent welding systems The chapter authors have comprehensively addressed the issues related to welding industries such as a shortage of welders challenges in critical applications creating defect free and quality products through real time monitoring feedback systems and in situ adjustments etc The utilization of cobots in welding technology is addressed in real world problems to move towards a green welding environment i.e. minimal fumes with less shielding gas and thereby less energy consumption Two or more welding processes are combined to form a hybrid process where the compatibility of existing materials and novel materials can be used in 3D 4D and 5D printing of complex geometries Audience Engineering research scholars industry welding and additive manufacturing groups A diverse group of industries will be interested in this book such as medical automotive construction pipeline shipping aerospace etc *The TAB Guide to DIY Welding* Jackson Morley, 2013-05-07 Hands on projects and illustrated instructions with photos and drawings that provide step by step procedures and clear explanations *Illustrated Theatre Production Guide* John Holloway, 2013-03-20 This invaluable guide takes a step by step approach to the most common and popular theatre production practices and covers important issues related to the construction of wooden fabric plastic and metal scenery used on the stage This new edition of the *Illustrated Theatre Production Guide* uniquely shows you how to build scenery through detailed lessons and hundreds of drawings The illustrations make this book like no other and offers solutions to problems that you face from rigging and knot tying to drapery folding and the most detailed information on metal framing available Written for the community theatre worker who has to be a jack of all trades and the student who needs to learn the fundamentals respected author John Holloway teaches in a way that covers the necessities but doesn't bog you down with heavy language and boring verbosity New features in this

book range from expanded information on metal framing and foam construction to brand new elements such as a chapter on stage management and an extremely helpful Website with videos meant to go along with the informative section on projects. These videos take you from the drawings and descriptions in the book to the video instructions that will help you learn visually. A must have for the theatre professional as a guide to refer back to over and over again.



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