

# 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).

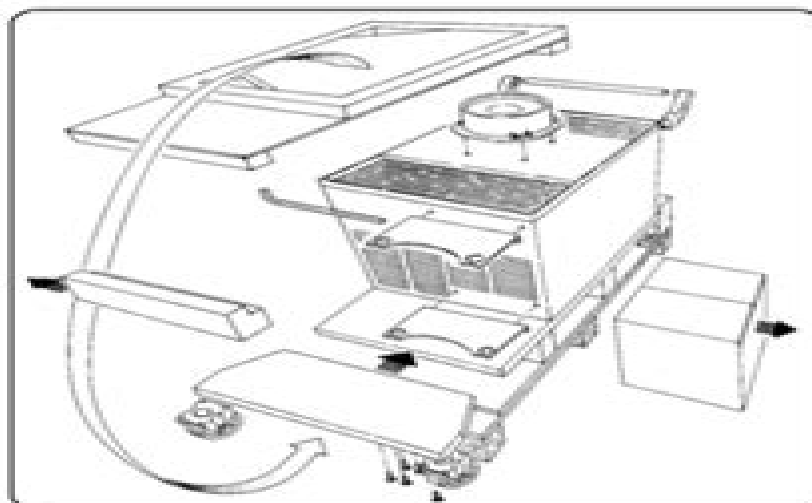
## 2 INSTALLATION

### 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

**Joacim Rocklöv**



## **Mig Welding Manual:**

*Introduction to M.I.G. Welding*, 1975      **Direct Support and General Support Maintenance Manual**, 1986      Field Manuals United States. War Department, 1979-04-02      Performance Welding Handbook Richard Finch, 2005      **The Farm Welding Handbook** Richard Finch,      *Organizational Maintenance Manual for Carrier, Guided Missile Equipment, Self-propelled, M730 (1450-00-930-8749) and M730A1 (1450-01-121-2122).*, 1984      ,      *Operator, Organizational, and Direct Support Maintenance Manual, Including Repair Parts and Special Tools Lists*, 1992      *Welding and Cutting* P T Houldcroft, R John, 2001-05-11 An authoritative 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      Lubrication and Reliability Handbook Michael J NEALE, 2001-01-05 This handbook helps engineers in industry with the operation and maintenance of machinery It provides the information that these engineers need in a form that is instantly accessible and easy to read The manufacturers of machinery give guidelines on the operation lubrication and maintenance required for their particular equipment There are however many different machines in an industrial plant or service organisation often supplied by many different manufacturers and there is a need to select as many similar lubricants as possible and to use related machine techniques This book bridges the gap which exists between the available data on the various machines by providing overall guidance on how to co ordinate the recommendations of the various equipment makers The book is structured in a number of sections that will make it easier to use and to bring together related topics so that when a reader is focusing on a particular problem they can also refer to related material that is also likely to be of interest THE handbook for an industrial audience consisting of plant engineers and maintenance managers It describes the essential theory and practice relating to matters of lubrication and reliability Unique layout and presentation of information makes this one of the best practical reference books available      **Health and Safety in Welding and Allied Processes** J Blunt, N C Balchin, 2002-03-28 This edition of Health and safety in welding and allied processes has been extensively revised to take into recent account advances in technology and legislative changes both in the UK and USA Beginning with a description of the core safety requirements it goes on to describe the special hazards found in the welding environment noise radiation fume gases and so on in terms of their effects and the strategies that can be adopted to avoid them The book takes each major joining technology in turn and discusses the key hazards that are most relevant to each process There are chapters covering the common arc and gas welding processes specialised welding processes brazing soldering and thermal spraying welding and flame spraying of plastics radiographic inspection mechanical hazards noise and

vibration radiation compressed gases fume and ventilation fire and first aid and welding in situations of increased hazard such as those requiring special precautions to ensure safe working on vessels contaminated by flammable materials The aim throughout the book is to explain the hazards clearly and concisely describe how they arise and suggest practical methods to achieve safe working Health and safety in welding and allied processes is an essential resource for welders their managers and all health and safety practitioners who have welding and related processes taking place in their workplaces A completely revised new edition of the definitive work on welding health and safety Provides detailed risk analysis for all the major processes Shows how to set up effective workplace systems for risk assessment first aid and reporting

**Introduction to Piping Fitters and Welders** Ram Babu Sao, 2025-03-28 It gives me great pleasure and sense of deep satisfaction to publish this book of Introduction to Piping Fitters and Welders You can learn how to make a proper pipe joint for welding or how to Weld pipe pipe supports and steel structures and teach yourself to be a master of the fitter s or welder s craft with the step by step instructions learning tools and equipment A pipe fitter and welder are the tradesperson who install assemble fabricate maintain and repair mechanical piping systems Pipe fitters usually begin as helpers or apprentices A pipe fitter and welder deal with industrial commercial marine piping and heating cooling systems Typical industrial process pipe is under high pressure which requires metals such as carbon steel stainless steel and many different alloy metals fused together through precise cutting threading grooving bending and welding Pipe fitter and welder plan and test piping and tubing layouts cut bend or fabricate pipe or tubing segments and join those segments by threading them using lead joints welding brazing cementing or soldering them together They install manual pneumatic hydraulic and electric valves in pipes to control the flow through the pipes or tubes These workers create the system of tubes in boilers and make holes in walls and bulkheads to accommodate the passage of the pipes they install Pipe fitter and welder are often exposed to hazardous or dangerous materials such as asbestos lead ammonia steam flammable gases various resins and solvents including benzene and various refrigerants Much progress was made in the 20th century toward eliminating or reducing hazardous materials exposures Many aspects of hazardous materials are now regulated by law in most countries including asbestos usage and removal and refrigerant selection and handling Other occupational hazards include exposure to the weather heavy lifting crushing hazards lacerations and other risks normal to the construction industry This book has proved to be a friend and guide to many Pipe Fitters or Welders Contractors and Technicians working with any Construction or Consultants Companies who are responsible for Laying out assembling or installation of piping systems pipe supports applying their knowledge of construction experience following blueprints and select type and size of pipe related materials and equipment such as supports hangers and hydraulic cylinders according to piping drawings and specifications Fitter and Welder are the main technical professionals who is responsible to deliver the quality job of piping work and they should have sufficient knowledge of Piping Engineering subject This will result in improving the general quality levels of a Pipe Fitter Welder in this direction

leading to a greater satisfaction in work This book is taking a lead in upgrading the awareness knowledge of various matters related with piping work benefiting Pipe Fitters and Welders working in the field of piping work The total practical approach of this book explodes the statistical data on mathematics physics chemistry and engineering that even the piping engineering subject is tough and difficult to understand a general reader or beginners willing to know about the subject will find the content very easy and simple to follow I hope that the excellence of this book will be appreciated by the readers from all parts of India and abroad

**Smithells Metals Reference Book** William F. Gale, Terry C. Totemeier, 2003-12-09 Smithells is the only single volume work which provides data on all key aspects of metallic materials Smithells has been in continuous publication for over 50 years This 8th Edition represents a major revision Four new chapters have been added for this edition these focus on Non conventional and emerging materials metallic foams amorphous metals including bulk metallic glasses structural intermetallic compounds and micro nano scale materials Techniques for the modelling and simulation of metallic materials Supporting technologies for the processing of metals and alloys An Extensive bibliography of selected sources of further metallurgical information including books journals conference series professional societies metallurgical databases and specialist search tools One of the best known and most trusted sources of reference since its first publication more than 50 years ago The only single volume containing all the data needed by researchers and professional metallurgists Fully updated to the latest revisions of international standards

**Handbook of Aluminum** Alcan Aluminum Corporation, 1970

**Fundamentals of Manufacturing For Engineers** T F Waters, 2017-07-12 This textbook will be welcomed throughout engineering education as the one stop teaching text for students of manufacturing It takes the student through the fundamental principles and practices of modern manufacturing processes in a lively and informative fashion Topics include casting joining cutting metal deformation processes surface treatment

The Welding of Aluminium and Its Alloys G Mathers, 2002-09-24 The Welding of Aluminium and its Alloys is a practical user's guide to all aspects of welding aluminium and aluminium alloys It provides a basic understanding of the metallurgical principles involved showing how alloys achieve their strength and how the process of welding can affect these properties The book is intended to provide engineers with perhaps little prior understanding of metallurgy and only a brief acquaintance with the welding processes involved with a concise and effective reference to the subject It is intended as a practical guide for the Welding Engineer and covers weldability of aluminium alloys process descriptions advantages limitations proposed weld parameters health and safety issues preparation for welding quality assurance and quality control issues along with problem solving The book includes sections on parent metal storage and preparation prior to welding It describes the more frequently encountered processes and has recommendations on welding parameters that may be used as a starting point for the development of a viable welding procedure Included in these chapters are hints and tips to avoid some of the pitfalls of welding these sometimes problematic materials The content is both descriptive and qualitative The author has avoided the use of mathematical

expressions to describe the effects of welding This book is essential reading for welding engineers production engineers production managers designers and shop floor supervisors involved in the aluminium fabrication industry A practical user s guide by a respected expert to all aspects of welding of aluminium Designed to be easily understood by the non metallurgist whilst covering the most necessary metallurgical aspects Demonstrates best practice in fabricating aluminium structures

**Process Pipe and Tube Welding** W Lucas,1991-05-31 The welding of tubes is an essential requirement in the fabrication of components in many industries The original idea for this book came from a seminar organized by The Welding Institute which attracted over 100 specialists concerned with design fabrication production and quality assurance and yielded a number of valuable papers Process Pipe and Tube Welding contains some of these papers together with additional chapters to provide comprehensive coverage of all aspects of tube welding from initial design considerations through production to final inspection In the first three chapters the authors outline the process and equipment options available for both manual and mechanized welding This is essential for design and production planning when faced with the choice of competing processes such as MMA MIG TIG or plasma helping engineers make the right choice for particular applications and ensuring the most cost effective welding techniques are employed Five further chapters are devoted to the application of tube welding in the aero engine ship building power generation petrochemical and chemical plant industries with numerous details on processes materials techniques and equipment The welding parameters and production data provided by the authors are a valuable source of information and will help engineers to overcome problems in production This title includes Process options and manual techniques for welding pipework fabrications Mechanised arc welding process options for pipework fabrications Process techniques and equipment for mechanised TIG welding of tubes Welding pipes for aero engines TIG welding pipework for ships Automatic tube welding in boiler fabrication TIG and MIG welding developments for fabrication of plant for the chemical petrochemical and offshore oil and gas industries Fabrication of aluminium process pipework A fabrication system for site mechanical construction Qualification of welding procedures for the chemical process industry Non destructive examination of welds in small diameter pipes Farm and Workshop Welding, Third Revised Edition Andrew Pearce,2021-02-02 A comprehensive visual handbook for welding in the farm home workshop school workshop blacksmith shop or auto shop Almost anyone can weld cut or shape metal That s the starting point for this supremely practical book which helps the beginner to improve and the intermediate operator to broaden their technique Its detailed sections describe all the major types of welds before progressing into trickier methods With this comprehensive guide you ll understand everything you need to know from arc TIG MIG and gas welding to plasma cutting soldering welding plastic and more Beyond welding metals and plastics advice extends into the wider workshop with chapters on drills cutting threads and basic blacksmithing Filled with helpful visuals and photography detailed explanations expert suggestions and step by step directions author and experienced welding instructor Andrew Pearce also lays out common pitfalls and mistakes

and how to avoid or correct them New updated edition will include brand new chapters on general welding skills and understanding metals expanded information on abrasives and four new step by step projects and plans including a steel table fire pit welding cart and more

Weld Quality: The Role of Computers Sam Stuart, 2016-05-13 Weld Quality The Role of Computers documents the proceedings of the International Conference on Improved Weldment Control with Special Reference to Computer Technology held in Vienna Austria 4-5 July 1988 under the auspices of the International Institute of Welding The topics of the four sessions are I Design Calculation and Prediction Models For Metallurgical Processes Conception II Inspection and In Service Monitoring III Fabrication Quality Assurance and IV Expert Systems Data Banks and Future Possibilities Session I includes papers on the use of computer technology to establish the quality of the welded joints computer aided design system for design of fillet welds with optimum shape and the use of numerical simulation software for predetermination and optimization of the mechanical resistance of brazed joints The papers in Session II cover topics such as acoustic emission testing eddy current inspection system for weld testing and holographic imaging of weld cracks Session III includes papers on a computer controlled friction welding system and a CAQ system for welding workshops The presentations in Session IV include an approach for writing conventional software and expert systems for welding engineers and an expert system for robotic welding

*Woldman's Engineering Alloys* John P. Frick, 2000-01-01 Annotation New edition of a reference that presents the values of properties typical for the most common alloy processing conditions thus providing a starting point in the search for a suitable material that will allow with proper use all the necessary design limitations to be met strength toughness corrosion resistance and electronic properties etc The data is arranged alphabetically and contains information on the manufacturer the properties of the alloy and in some cases its use The volume includes 32 tables that present such information as densities chemical elements and symbols physical constants conversion factors specification requirements and compositions of various alloys and metals Also contains a section on manufacturer listings with contact information Edited by Frick a professional engineering consultant Annotation c Book News Inc Portland OR booknews com

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