

# 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).

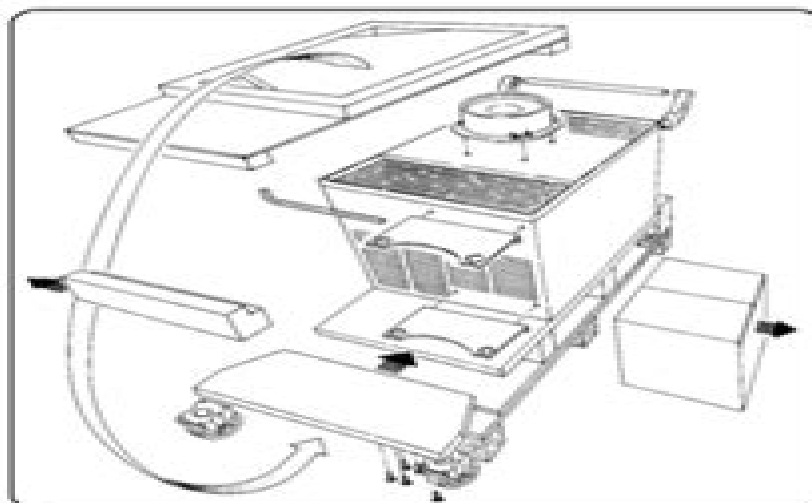
## 2 INSTALLATION

### 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

**John P. Frick**



## **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

**Introduction to M.I.G. Welding**, 1975 The Farm Welding Handbook Richard Finch, *Manufacturing Engineer's Reference Book* D. KOSHAL, 2014-06-28 Never before have the wide range of disciplines comprising manufacturing engineering been covered in such detail in one volume Leading experts from all over the world have contributed sections The coverage represents the most up to date survey of the broad interests of the manufacturing engineer Extensive reference lists are provided making this an indispensable work for every engineer in industry Never before have the wide range of disciplines comprising manufacturing engineering been covered in such detail in one volume Leading experts from all over the world have contributed sections Materials and processes are described as well as management issues ergonomics maintenance and computers in industry CAD Computer Aided Design CAE Computer Aided Engineering CIM Computer Integrated Manufacturing and Quality are explored at length The coverage represents the most up to date survey of the broad interests of the manufacturing engineer Extensive reference lists are provided making this an indispensable work for every engineer in industry

**Welding Design & Fabrication Data Book**, 1960 **A Management and Engineer's Guide to MIG Welding Quality, Costs, and Training** Edward F. Craig, 1996 MIG and flux cored weld results achieved with the world's most utilized welding equipment are frequently influenced by weld sales advice This 600 plus page book has been called the MIG bible by some readers It's the most comprehensive book ever written on managing the MIG process The book covers all aspects of controlling both the MIG and flux cored process A MANAGER OR ENGINEER DOES NOT REQUIRE THE ABILITY TO WELD HOWEVER THEY SHOULD HAVE THE FUNDAMENTAL PROCESS KNOWLEDGE OF WHAT MAKES A GOOD MIG OR FLUX CORED WELD WHEN A MANAGER OR ENGINEER UNDERSTANDS HOW SALES INFLUENCE AND HYPE EFFECTS THE WELD SHOP THEY ARE WELL ON THEIR WAY TO WELD PROCESS MANAGEMENT In the MIG Management book you will find Extensive data on MIG gas selection without sales input Over 100 pages on the problems

with the pulsed process How to establish effective weld process controls for robot cells How to use special techniques to increase robot weld speeds How to optimize manual and robot weld deposition rates How to control sheet metal welds in automotive plants How to best utilize MIG and flux cored for pipe welds All this along with a unique simple method for controlling weld costs These are just a few of the important topics Without question this is the most practical and comprehensive book you will ever find on managing the MIG process     *Manual MIG Welding of Aluminium* Aluminium du Canada Ltée,1967     **Handbook of Aluminum** Alcan Aluminum Corporation,1970     *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     **Kaiser Aluminum Weldor's Training Manual** Kaiser Aluminum and Chemical Sales, inc,1958     **Process Pipe and Tube Welding** W Lucas,1991-05-31 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine

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     *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     Handbook of Stainless Steels Donald Peckner,Irving Melvin Bernstein,1977

*Welding and Metal Fabrication* ,1975     *Metal Construction and British Welding Journal* ,1971 Includes two special issues per year containing the proceedings of a major conference     Engineer's Year-book of Formulae, Rules, Tables, Data & Memoranda ,1999     **Production Engineering** ,1980     *Future Developments in Process Plant Technology* ,1981

**The Welding Encyclopedia** Louis Burton MacKenzie,1968

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