

# 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).

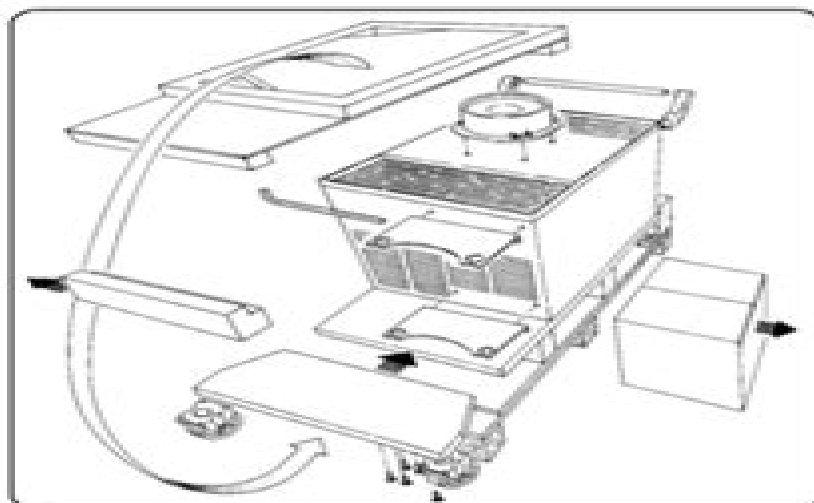
## 2 INSTALLATION

### 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

**Carlos Alonso**



## Mig Welding Manual:

**Welding Practice Manual** Carlos Alonso, 2025-12-09 Welder certification is not just a test it is a true reflection of skill knowledge and technical preparation This manual compiles the essential exercises for qualification in shielded metal arc welding SMAW TIG MIG MAG flux cored arc welding FCAW and oxy fuel welding covering materials such as carbon steel stainless steel cast iron and aluminium alloys in all joint configurations fillet welds butt welds pipe to plate and pipe to pipe connections Welding Practice Manual contains exercises backed by over 18 000 hours of training experience and the practical knowledge gained from preparing hundreds of welders for certification under ISO 9606 and ISO 15614 standards However this manual goes beyond listing exercises it provides an innovative and structured learning approach integrating key welding concepts that every professional should master This manual is designed not only to help you pass a qualification test but to understand refine and master welding at a professional level Introduction to M.I.G. Welding ,1975 **Direct Support and General Support Maintenance Manual for Carrier, Guided Missile Equipment, Self-propelled, M730 (1450-00-930-8749) and M730A1 (1450-01-121-2122).** ,1983 *Manual MIG Welding of Aluminium* Aluminium du Canada Ltée,1967 Welding Design & Fabrication Data Book ,1960 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 **Metal Construction and British Welding Journal** ,1972 Includes two special issues per year containing the proceedings of a major conference *Welding and Metal Fabrication* ,1970 **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 **Handbook of Stainless Steels** Donald Peckner,Irving Melvin Bernstein,1977 *Handbook of Aluminum* Alcan Aluminum Corporation,1970 *Manufacturing Engineers' Manual* Rupert Le Grand,1971 **Joining & Materials** ,1988 Welding Kaiser Aluminum Kaiser Aluminum and Chemical Sales, inc,1978 British Welding Journal ,1967 *Motor Auto Body Repair, Technical Manual* Robert Scharff,Ltd Staff Scharff Associates,1992-03 Schweisstechnik ,1974 **Future Developments in Process Plant Technology** ,1981 Journal of Gas Lighting and Water Supply ,1968 **Engineer's Year-book of Formulae, Rules, Tables, Data & Memoranda** ,1999

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