

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 vendor. Please indicate the article and serial number whenever requesting information about the welding machine.

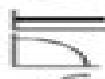
1.2 EXPLANATION OF TECHNICAL SPECIFICATIONS

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, three-phase transformer-rectifier.



Flat characteristic.



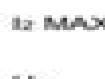
Downslope



Suitable for continuous electrode welding.



Suitable for TIG welding.



Suitable for MMA welding.



I_z MAX: Unconventional welding current. This value represents the maximum limit available during welding.

U_z: Secondary open-circuit voltage (peak value).

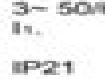
Duty cycle percentage:

The duty cycle expresses the percentage of 10 minutes during which the welding machine may run at a certain current without overheating.

I_z: Welding current.

U_z: Secondary voltage with welding current I_z.

U_r: Rated supply voltage.



3~ 50/60Hz: 50- or 60-Hz three-phase power supply.

I_r: Absorbed current at the corresponding welding current, I_z.



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



S: 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).

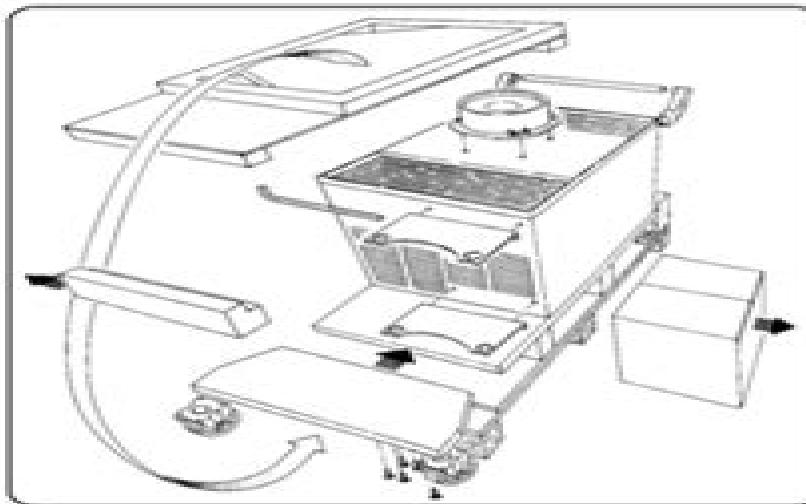
2 INSTALLATION

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

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The book delves into Mig Welding Manual. Mig Welding Manual is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Mig Welding Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Mig Welding Manual
- Chapter 2: Essential Elements of Mig Welding Manual
- Chapter 3: Mig Welding Manual in Everyday Life
- Chapter 4: Mig Welding Manual in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Mig Welding Manual. The first chapter will explore what Mig Welding Manual is, why Mig Welding Manual is vital, and how to effectively learn about Mig Welding Manual.
3. In chapter 2, the author will delve into the foundational concepts of Mig Welding Manual. This chapter will elucidate the essential principles that need to be understood to grasp Mig Welding Manual in its entirety.
4. In chapter 3, this book will examine the practical applications of Mig Welding Manual in daily life. The third chapter will showcase real-world examples of how Mig Welding Manual can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Mig Welding Manual in specific contexts. This chapter will explore how Mig Welding Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Mig Welding Manual. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Mig Welding Manual.

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