



For your safety and to avoid Electrical Shock, read all safety notes and precautions detailed throughout your Operator's Manual.

## METAL THICKNESS

| WELD PROCESS | WIRE TYPE/<br>ELECTRODE TYPE                                    | WIRE DIA./<br>ELECTRODE DIA.<br>(in.) | 24 ga<br>.014 in<br>C/O (C) | 22 ga<br>.018 in<br>C/O (C) | 20 ga<br>.024 in<br>C/O (C) | 18 ga<br>.030 in<br>C/O (C) | 16 ga<br>.036 in<br>C/O (C) | 14 ga<br>.045 in<br>C/O (C) | 12 ga<br>.060 in<br>C/O (C) | 1/8" (16 ga)<br>.125 in<br>C/O (C) | 3/16"<br>.187 in<br>C/O (C) | 1/4"<br>.250 in<br>C/O (C) |
|--------------|-----------------------------------------------------------------|---------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------------|-----------------------------|----------------------------|
| DC+<br>      | Steel MIG<br>SUPERARC® L-56® (DC+) 75% Ar / 25% CO <sub>2</sub> | 0.025                                 | C/3                         | C/3                         | D/4                         | E/5                         | F/6                         | G/7                         | I/9                         | -                                  | -                           | -                          |
|              |                                                                 | 0.030 <sup>(1)</sup>                  | -                           | B/3                         | C/3                         | D/4                         | E/5                         | F/6                         | G/8                         | H/8                                | J/9 <sup>(1,2)</sup>        | -                          |
|              | Steel MIG<br>SUPERARC® L-56® (DC+) 100% CO <sub>2</sub>         | 0.025                                 | D/4                         | E/4                         | E/4.5                       | F/5                         | G/6                         | H/7                         | I/9                         | J/9 <sup>(1,2)</sup>               | -                           | -                          |
|              |                                                                 | 0.030 <sup>(1)</sup>                  | -                           | -                           | D/3.5                       | D/5                         | E/5.5                       | F/6                         | G/7                         | H/8                                | J/9 <sup>(1,2)</sup>        | -                          |
| DC-<br>      | Steel Self Shielded<br>NR®-311-MP (DC-) No Gas                  | 0.030 <sup>(1)</sup>                  | -                           | -                           | -                           | B/2.5                       | B/3                         | D/4                         | E/5                         | G/6 <sup>(1,2)</sup>               | H/6 <sup>(1,2)</sup>        | J/7 <sup>(1,2)</sup>       |
|              |                                                                 | 0.035                                 | -                           | -                           | -                           | B/2                         | B/2                         | C/2                         | D/3                         | F/6                                | G/7 <sup>(1,2)</sup>        | I/8 <sup>(1,2)</sup>       |
| DC+<br>      | Aluminum<br>ER4043 (DC+) 100% Argon                             | 0.035                                 | -                           | -                           | -                           | B/2                         | C/2.5                       | E/3                         | G/4.5                       | I/6                                | J/10                        | -                          |
| DC+<br>      | Steel<br>E6011 / E6013 (DC+)                                    | 3/32                                  | -                           | -                           | -                           | E                           | E                           | F                           | G                           | H                                  | -                           | -                          |
|              | Steel<br>E7014 / E7018 (DC+)                                    | 3/32                                  | -                           | -                           | -                           | -                           | G                           | G                           | H                           | I                                  | J                           | -                          |
| DC-<br>      | Steel & Stainless Steel<br>(DC-) 100% Argon                     | 1/16                                  | B-C                         | B-C                         | B-D                         | C-D                         | D-E                         | E-F                         | -                           | -                                  | -                           | -                          |
|              |                                                                 | 3/32                                  | -                           | -                           | -                           | C-D                         | D-E                         | E-F                         | F-G                         | H-I                                | -                           | -                          |

(1) Connect to 25 amp circuit. (2) Multiple Pass Required. (3) Use .035 groove in drive roll for .030 wire.

Refer to manual for Current and Voltage values.

Visit [www.lincolnelectric.com](http://www.lincolnelectric.com) for additional product information.

# Mig Welding Pocket Guide

**Yi-Tong Ma**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Mig Welding Pocket Guide:**

*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     **Audel**

**Welding Pocket Reference** James E. Brumbaugh,Rex Miller,2007-03-15 Featuring updated charts dealing with the most common situations welding workers face on the job this comprehensive pocket sized reference is based on recommendations from working professionals and covers welding symbols and definitions types of joints and welds typical welding station configurations oxygen cylinders arc welding charts U S metric measures and more     **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     **Complete Siding Handbook** James E. Brumbaugh,1993-01-19 The ultimate guide to siding for homeowners and professional builders The Complete Siding Handbook Installation Maintenance Repair offers comprehensive guidance for all major types of siding including wood board

aluminum shingle plywood vinyl and more Aimed at professional builders but accessible to homeowners this informative guide includes practical information on sheathing flashing vapor and air retarders insulation and other preparatory materials as well as expert advice on painting staining and finishing Detailed diagrams clarify installation and construction while photographs show real world applications of various materials and methods to provide builders and DIY ers with an invaluable resource     Performance Welding Handbook Richard Finch,2005     **Welder's Handbook** Richard Finch,1997 A complete guide to MIG TIG ARC and Oxyacetylene welding Step by step techniques are fully illustrated to help you use and latest welding technology     Welding and Metal Fabrication ,1976     **The Welding of Aluminium** ,2005     *Welding Handbook* American Welding Society,2001     **The Farm Welding Handbook** Richard Finch,     *Welding For Dummies* Steven Robert Farnsworth,2010-09-07 Get the know how to weld like a pro Being a skilled welder is a hot commodity in today s job market as well as a handy talent for industrious do it yourself repairpersons and hobbyists *Welding For Dummies* gives you all the information you need to perform this commonly used yet complex task This friendly practical guide takes you from evaluating the material to be welded all the way through the step by step welding process and everything in between Plus you ll get easy to follow guidance on how to apply finishing techniques and advice on how to adhere to safety procedures Explains each type of welding including stick tig mig and fluxcore welding as well as oxyfuel cutting which receives sparse coverage in other books on welding Tips on the best welding technique to choose for a specific project Required training and certification information Whether you have no prior experience in welding or are looking for a thorough reference to supplement traditional welding instruction the easy to understand information in *Welding For Dummies* is the ultimate resource for mastering this intricate skill     **British Welding Journal** ,1967     **Welder's Handbook** Richard Finch,2007-02-21 A newly updated state of the art guide to MIG and TIG arc welding technology Written by a noted authority in the field this revised edition of HP s bestselling automotive book for over 20 years is a detailed instructional manual on the theory technique equipment and proper procedures of metal inert gas MIG and tungsten inert gas TIG welding     **When Technology Fails** Matthew R. Stein,Matthew Stein,2008-03-27 Matthew Stein s comprehensive guide to sustainable living skills gives you the tools you need to fend for yourself and your family in times of emergency or disaster It also goes a step further giving sound instructions on how to become self reliant in seemingly stable times and for the long term by adopting a sustainable lifestyle Cover p 4     **Popular Mechanics** ,1995-10 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle     Popular Mechanics ,1995-10     **Essential Guide to Metals and Manufacturing** Krishan Katyal,2019-04-30 This book is intended for new owners engineers technicians purchasing agents chief operating officers finance managers quality control managers sales managers or other employees who want to learn and grow in metal manufacturing business

The book covers the following 1 Basic metals their selection major producers and suppliers websites 2 Manufacturing processes such as forgings castings steel fabrication sheet metal fabrication and stampings and their equipment suppliers websites 3 Machining and finishing processes and equipment suppliers websites 4 Automation equipment information and websites of their suppliers 5 Information about engineering drawings and quality control 6 Lists of sources of trade magazines technical books that will provide more information on each subject discussed in the book     **TIG and MIG**

**Welding Guide Book** Hughes R Fisher,2023-02-10 Welding is a necessary system for the building of a variety of objects and structures and it can be utilized to the introduction of purposeful objects as nicely as works of art such as sculptures

**Welding Design & Fabrication** ,1974     **TIG and MIG Welding Guide** Lucy J Lozano,2023-02-10 this book center on TIG and MIG welding Welding is the becoming a member of metals The 4 elements are the metals themselves a warmth source filler material and some sort of protect from the air

Mig Welding Pocket Guide: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year. Mig Welding Pocket Guide : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Mig Welding Pocket Guide : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Mig Welding Pocket Guide : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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