Books and Pamphlets

Download Miller Weld's technical handbooks covering a variety of miscellaneous welding subjects. All files are pdf format.

For arc welding and cutting the safe way! We strongly recommend that you download this clear, simple, picture - based Safety Guide and keep it near your welder or plasma cutter. Work like a pro - always read and follow safety information before doing any arc welding or arc cutting!

SafetyGuide.pdf (English)

(0.25 MB, 0 min 37 sec at 56kb/s)

SafetyGuide.pdf (French)

(0.24 MB, 0 min 36 sec at 56kb/s)

SafetyGuide.pdf (Spanish)

(0.23 MB, 0 min 35 sec at 56kb/s)

TIG Handbook

An all inclusive study of the fundamentals of this widely used process as well as concise and practical information on techniques used to produce a good weld. This is a well illustrated comprehensive text that contains a wide range of information on closely related subjects such as joint design, weld symbols, weld defects, troubleshooting, and safety. An in depth glossary is included as well as numerous tables to aid in selecting parameters.

84 pages - 8 1/2" x 11"

Guidelines for Shielded Metal Arc (Stick) Welding (SMAW)

(0.45 MB, 1 min 8 sec at 56kb/s)

An excellent informational booklet for beginners. Covers the fundamentals of shielded metal arc (stick) welding such as techniques for striking the arc, running beads, basic joints, out-of-position welding.

18 pages - 5 1/2" x 8 1/2"

Guidelines to Gas Metal Arc Welding (GMAW)

(0.13 MB, 0 min 19 sec at 56kb/s)

An excellent informational booklet for beginners. Covers a description of the process, how to set up equipment, how to make a weld, conditions that affect weld bead shape, and welding troubleshooting.

16 pages - 5 1/2" x 8 1/2"

Guidelines to Gas Tungsten Arc Welding (GTAW)

(2.6 MB, 6 min 28 sec at 56kb/s)

Contains 16 pages of vital information on one of the cleanest welding processes available. Sections on Process, Arc Shaping, Tungsten Electrodes, and Shielding Gases give the reader the essentials of a weld process that has many variables. Power sources for GTAW and how to select parameters are also covered.

16 pages

Submerged Arc Welding

(2.4 MB, 5 min 53 sec at 56kb/s)

Describes the process, equipment requirements including power sources, wire feeding and flux systems, guns and types of fixtures. Consumables, fluxes and wires are discussed. Weld preparation and welding is also described and illustrated.

28 pages - 8 1/2" x 11"

Handbook for Resistance Spot Welding

(0.28 MB, 0 min 42 sec at 56kb/s)

A thorough analysis of the process, its fundamentals and procedures. Extensive tables on recommended practices for various types of metal.

20 pages - 8 1/2" x 11"

Arc Stud Welding Fundamentals

(0.68 MB, 1 min 42 sec at 56kb/s)

Describes the process and the equipment, procedures and techniques required to achieve good arc stud welds. Illustrations and charts support the easy-to-understand text.

20 pages - 5 1/2" x 8 1/2"

Paralleling Arc Welding Power Sources

(0.5 MB, 1 min 15 sec at 56kb/s)

Procedures for correctly connecting multiple power sources in parallel to achieve increased amperage. Covers transformer type and enginedriven welding generators.

12 pages - 5 1/2" x 8 1/2"

Welding & World of Metals

(4.2 MB, 10 min 31 sec at 56kb/s)

A chronological account of metalworking from pre-Biblical times to the exotic joining methods known today. A composite of historical events which paved the way to modern welding technology.

36 pages - 8 1/2" x 11"

Basic Electricity (Service Publication)

(2.6 MB, 6 min 29 sec at 56kb/s)

Electrical fundamentals, as applied to arc welding, explained through a collection of informal articles from early Miller publications in their original format. As relevant today as when written, the author uses easy-to-understand language and simple illustrations to explore many of the theories, laws, and concepts relating to basic electricity.

100 pages - 5 1/2" x 8 1/2"Ý