



UL 2565

STANDARD FOR SAFETY

Manual and Semiautomatic Metal Sawing Machines

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UL Standard for Safety for Manual and Semiautomatic Metal Sawing Machines, UL 2565

First Edition, Dated May 1, 2013

SUMMARY OF TOPICS

Adoption of the First Edition And First Time ANSI Approval Of The Standard For Semiautomatic Metal Sawing Machines, UL 2565

The new/revised requirements are substantially in accordance with Proposal(s) on this subject dated December 21, 2012 and March 15, 2013.

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The requirements in this Standard are now in effect, except for those paragraphs, sections, tables, figures, and/or other elements of the Standard having future effective dates as indicated in the note following the affected item. The prior text for requirements that have been revised and that have a future effective date are located after the Standard, and are preceded by a "SUPERSEDED REQUIREMENTS" notice.

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May 1, 2013



ANSI/UL 2565-2013

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UL 2565

Standard for Manual and Semiautomatic Metal Sawing Machines

Prior to the first edition, the requirements for the products covered by this standard were included in the Outline of Investigation for Manual and Semiautomatic Metal Sawing Machines, UL 2565.

First Edition

May 1, 2013

This ANSI/UL Standard for Safety consists of the First Edition.

The most recent designation of ANSI/UL 2565 as an American National Standard (ANSI) occurred on May 1, 2013. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, or effective date information.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <http://csds.ul.com>.

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INTRODUCTION

1 Scope

1.1 This standard covers manual and semi-automatic metal sawing machines that use a saw blade (tool) to cut off or change the shape of the work piece and are intended for use in industrial or commercial applications. Machines are manually operated or capable of performing one cutting cycle of operation, which is manually actuated.

1.2 This equipment is intended to be installed in accordance with the National Electrical Code, ANSI/NFPA 70 and Electrical Standard for Industrial Machinery, NFPA 79.

1.3 Machines included in this category are not intended for the handling of hazardous material.

1.4 The use of some equipment involves certain inherent hazards related to the risk of injury that cannot be wholly eliminated by practical design features. These requirements are intended to reduce such hazards to an acceptable level.

1.5 This standard does not cover:

- a) Robotics and associated control equipment. This equipment is covered by the Standard for Robots and Robotic Equipment, UL 1740.
- b) Automated equipment designed to perform repetitive manufacturing related cutting or sawing tasks, is covered by the Outline of Investigation for Factory Automation Equipment, UL 2011.
- c) Cord-connected or permanently-connected stationary and light industrial tools which are covered under Standard for Stationary and Fixed Electric Tools, UL 987.

1.6 Devices covered by this standard are not intended for the handling of hazardous materials in unattended applications.

1.7 In addition to complying with the requirements in this standard, manual and semi-automatic metal sawing machines shall also comply with:

- a) Standard for Machine Tools – Safety for Metal Sawing Machines, ANSI B11.10;
- b) Standard for Electrical Standard for Industrial Machinery, NFPA 79; and
- c) The applicable requirements in the Standard for Stationary and Fixed Electric Tools, UL 987.

1.8 A control panel which forms a portion of the overall equipment, either alone or in conjunction with the metal sawing machine, shall comply with the requirements in the Standard for Industrial Control Panels, UL 508A.

2 Components

2.1 Except as specified in 2.2 and 7.1, a component of a product covered by this standard shall comply with the requirements for that component. See Appendix A for a list of standards covering components generally used in the products covered by this standard.

2.2 A component need not comply with a specific requirement that:

- a) Involves a feature or characteristic not needed in the application of the component in the product covered by this standard; or
- b) Is superseded by a requirement in this standard.

2.3 A component shall be used in accordance with its rating established for the intended conditions of use.

2.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.

3 Units of Measurement

3.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

4 Undated References

4.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

5 Glossary

5.1 CLASS 2 CIRCUIT – An isolated secondary circuit involving a potential of not more than 30 V (42.4 V peak) supplied by:

- a) An inherently-limited Class 2 transformer;
- b) A combination of an isolated transformer secondary winding and a fixed impedance or regulating network that together comply with the performance requirements for an inherently limited Class 2 transformer;
- c) A dry-cell battery having output characteristics not greater than those of an inherently-limited Class 2 transformer;
- d) Any combination of (a), (b), and (c) above that together comply with the performance requirements for an inherently-limited Class 2 transformer; or
- e) One or more combinations of a Class 2 transformer and an overcurrent protective device that together comply with the performance requirements for a noninherently-limited Class 2 transformer.

A line-connected circuit connected in series with an impedance as a means of limiting the voltage and current is not a Class 2 circuit.