



for Woodworking Machinery
Safety Requirements

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American National Standard for Woodworking Machinery - Safety Requirements

Secretariat

Wood Machinery Manufacturers of America®

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American National Standards Institute, Inc.

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Forward (This forward is not part of American National Standard O1.1-2004)

Historical Perspective

The revision of the original Safety Code for Woodworking Machinery was approved in 1944. The Standards Committee was reorganized in 1952, and the scope of the standard was changed. A comprehensive revision of the section on cooperage machinery was completed and a new section dealing with radial-type saws was included. The resulting standard was issued in 1954 and reaffirmed in 1961. In 1969 the Standards Committee was again called and revised the 1954 (R1961) standard. The 1971 revision corrected and clarified several issues related to guarding and incorporated as a section of the standard an important head note in Section 6.1 of earlier versions of this standard.

The standard was again revised and issued in 1975. In 1979 an amendment was made to the 1975 edition.

In 1980, the Committee was again convened for the purpose of updating and revising the standard. The committee determined that the format to be used in the new version would be the left hand column for requirements and the right hand column for explanation and clarification. Cooperage and veneering were removed from the standard, as were other provisions found to be included in other standards. Clarification of responsibilities was another important accomplishment of this edition, published in 1992.

In 1993 the committee set about correcting editorial errors in the current version. This process was completed in 1999 and submitted to ANSI for publication.

Changes Found In This Version

Also in 1999, the committee determined that a complete restructuring of the standard was needed. The standard was becoming complex, it included obsolete machines, and many machines were not covered. The committee also wished to create a standard that could be normalized to developing world wide standards.

The committee therefore decided to develop an umbrella standard under which all machine specific standards could be further developed. This version of O1.1 became the umbrella standard. Future machine specific standards are to be developed as part of the O1 system. With this structure, any machine for which there is no machine-specific O1.x standard can be developed using the general hazards portions of this standard. Machine specific standards are to be written with the intent of superseding their respective portions of this standard. For historical continuity, those portions of the prior version relating to specific machines were brought forward without change into this version, with the intent that new machine specific standards would also supersede those provisions.

Throughout the past few decades other standards existed for machines that were mentioned in this standard. To resolve the conflict, the committee changed the scope of this standard to clearly delineate between industrial/commercial machinery and others, and to exclude machines which are not industrial/commercial.

As worker safety continues to be prominent in this standard, the committee sought, and gained, more active participation from the Occupational Safety and Health Administration. First initiated under the direction of the Assistant Secretary of Labor for Occupational Safety and Health, Charles Jeffress, then continued under his successor, John L. Henshaw, this standard was developed with the following resolution:

Resolved: As the standards developed by this committee are relevant to the health and safety of workers

in the wood working industry, and as this committee is charged with developing such standards and recognized for its expertise in wood working industry safety and machinery, it is the intent and expectation of this committee that newly published versions of standards developed by this committee be adopted by the US Department of Labor as regulations under the United States Occupational Safety and Health Act.

It is also anticipated by the committee that this adoption process will take time, and that the machines, uses and applications covered by this standard can not, as a practical matter, be updated contemporaneously with the publication of the standard.

Suggestions for improvements to this standard are welcome. They should be addressed to the ASC O1 Committee Secretariat, Wood Machinery Manufacturers of America®, 100 North 20th Street, 4th Floor, Philadelphia, PA 19103-1443.

This standard continues to be maintained by the Accredited Standards Committee (ASC) O1 in accordance with the consensus Committee method as described by the American National Standards Institute's Procedures for Development and Coordination of American National Standards. Committee approval of this standard does not necessarily imply that all committee members voted for its approval. At the time it approved this standard, the ASC O1 had the following members:

Michael L. Gililand, Chairman

NAME	STATUS	AFFILIATION
Jim McDonald	Member	Accu-Router, Inc.
Joe Harrill	Member	American Furniture Manufacturers Association
White Watkins	Alternate	American Furniture Manufacturers Association
Michael McKee	Member	Tropp & Company
Chuck LeRoux	Member	Andersen Corp.
Al Weaver	Member	American Society of Safety Engineers
Neal Growney	Alternate	American Society of Safety Engineers
Walter Painter	Member	Member at Large
Mat Ros	Alternate	Member at Large
Lou Brickner	Alternate	Member at Large
Jim Jones	Member	Member at Large
David Coble	Alternate	Member at Large
Bill Pritchard	Member	Kitchen Cabinet Manufacturers Association
Max Green	Member	Mereen-Johnson Machine Co.
Jim Laster	Member	Newman Whitney
Frank Smith	Alternate	US Occupational Safety and Health Administration
Wayne Hill	Member	Power Tool Institute
Dan Montague	Alternate	Power Tool Institute
Nathan Sauder	Member	Sauder Woodworking Co.
Steve Jones	Member	Stiles Machinery, Inc.
Jack Hyde	Member	System Safety Society
Joe Durst	Member	United Brotherhood of Carpenters and Jointers of America
Michael Belcher	Member	Underwriters Laboratories, Inc.
Barrett Wilson	Alternate	Underwriters Laboratories, Inc.
Heinz Schmidt	Member	Woodworking Machinery Industry Association
Giordano Checchi	Alternate	Woodworking Machinery Industry Association
Dan DeLong	Alternate	Wood Machinery Manufacturers of America®

In addition to the above membership, the committee wishes to acknowledge the participation of others during the process. These included:

Cole Sumners, Accu-Router, Inc.
Jon Parish, American Furniture Manufacturers Association
Craig Karasack, Alliance of American Insurers
Andy Shook, Biesse Group America
Richard Sauger, US Occupational Safety and Health Administration
Judy Goodrich, US Occupational Safety and Health Administration
Greg Dix, Power Tool Institute
Dennis Cope, Underwriters Laboratories, Inc.
Bill Politsch, Wood Machinery Manufacturers of America®

This is a preview of "ANSI O1.1-2004". [Click here to purchase the full version from the ANSI store.](#)

American National Standard for Woodworking Machinery — Safety Requirements

STANDARD REQUIREMENTS

1 SCOPE, PURPOSE, AND APPLICATION

1.1 Scope

This standard covers the safety requirements for the design, installation, care and use of wood-working machinery and accessory equipment, used in industrial and commercial applications, having a total connected power of 5 hp (3.7kw) or greater, or having 3-phase wiring.

1.1.1 Machine types excluded

Power tools intended to be handheld in use, assembly machines, finish application equipment, primary panel product manufacturing machinery, cooperage machinery, sawmills, and machinery covered by other American National Standards are excluded from this standard.

1.2 Purpose

The purpose of this standard is to establish the safety requirements for the design, installation, care and use of woodworking machinery and accessory equipment covered by this standard.

1.3 Applications

EXPLANATORY NOTES

(These notes are not a mandatory part of this standard)

E1.1 Scope

Design of products outside of the scope of this standard and not specifically excluded in paragraph 1.1.1 are referred to ANSI/UL 987 or other standards covered by individual requirements.

Governmental, educational, and similar institutions as well as business establishments are considered commercial applications in this standard.

E1.1.1 Machine types excluded

Primary panel product manufacturing machines are referred to as panel mills or board mills. Panel products as identified in this standard are plywood, particle board, medium density fiberboard, chip board, straw board, oriented strand board, pressed board, and similar products made from wood, wood chips or wood fiber.

E1.3 Applications

This standard should be applied to machines for which there is no machine-specific standard within this ANSI O1 series. If such standard exists, it supersedes this standard.