AS 1473.8—2007

Australian Standard®

Wood processing machinery—Safety

Part 8: Finishing machinery—Milling tools and circular saw blades

This Australian Standard® was prepared by Committee SF-007, Guarding of Woodworking Machinery. It was approved on behalf of the Council of Standards Australia on 6 August 2007.
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The following are represented on Committee SF-007:

- Australian Chamber of Commerce and Industry
- Australian Industry Group
- Australian Woodworking Industry Suppliers Association
- Construction, Forestry, Mining and Energy Union
- Department for Administrative and Information Services, SA
- Department of Consumer & Employment Protection, WorkSafe Division, WA
- Department of Justice, Tas.
- Department of Labour, New Zealand
- Furnishing Industry Association of Australia
- Furnishing Training Australia
- Furniture Teachers Advisory Group
- National Distribution Union, New Zealand
- National Safety Council of Australia
- New Zealand Logging Industry Research Association
- Safety Institute of Australia
- Tasmanian Timber Promotion Board
- Victorian Association of Forest Industries
- Victorian WorkCover Authority
- WorkCover New South Wales

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Part 8: Finishing machinery—Milling tools and circular saw blades

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PREFACE

This Standard was prepared by the Standards Australia Committee SF-007, Guarding of Woodworking Machinery as a revision, in part, of AS 1473—1991, *Guarding and safe use of woodworking machinery*.

This Standard is one of a series of Standards dealing with the safety of woodworking machinery which has been developed as a result of requests from regulatory authorities for a new edition of this Standard.

This Standard sets out particular requirements for milling tools and circular saw blades. Additional requirements which are applicable to all woodworking machines are to be found in AS 1473.2, *Wood processing machinery—Safety,* Part 2: *Finishing machinery—Common requirements*.

In common with many of the Standards dealing with safety of machinery, this Standard is based upon documents released by the European Committee for Standardization, CEN. In using these documents the Committee is maintaining consistency with machinery safety Standards published in Australia.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

CONTENTS

STANDARDS AUSTRALIA

Australian Standard
Wood processing machinery—Safety

Part 8: Finishing machinery—Milling tools and circular saw blades

1 SCOPE

This Standard sets out the safety requirements for milling tools for woodworking machinery of the shank mounting, bore mounting or integrated spindle type, as well as for circular saw blades.

The Standard also sets out means for determining the maximum rotational speed for a given eccentricity at the clamping devices and a given tool shank strength. The means is applicable to milling tools having a cylindrical shank. Marking requirements for the tool are also specified. The maximum speed is applicable whether the tools are mounted horizontally or vertically.

This Standard does not apply to boring bits, eccentric single router cutters, cutters with a cutting circle of less than 16 mm and to tools used in rotary knife lathes and copying lathes where the hazard of ejection and contact with the tool is always prevented by a system of fixed guards and/or movable guards interlocked with guard-locking and/or self-closing guards.

2 OBJECTIVE

The objective of this Standard is to provide designers and manufacturers of wood-processing milling cutters, circular saw blades and shanks for shank-mounted tools with the technical means of minimizing the risks to the health and safety of machine operators and others working with, or otherwise near, wood-processing machinery using milling cutters and circular saw blades.

3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard.

AS	
1654	ISO system of limits and fits
1654.2	Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts
1817	Metallic materials—Vickers hardness test
1817.1	Part 1: Test methods (ISO 6507-1:1997, MOD)
4024	Safety of machinery
4024.1301	Part 1301: Risk assessment—Principles for risk assessment
ISO	
513	Classification and application of hard cutting materials for metal removal with defined cutting edges—Designation of the main groups and groups of application
1940	Mechanical vibration—Balance quality requirements for rotors in a constant (rigid) state
1940-1	Part 1: Specification and verification of balance tolerances

