

Australian Standard<sup>®</sup>

**Safety of machinery**

**Part 3101: Materials cutting—Milling  
machines (including boring machines)—  
Safety requirements**

**STANDARDS**  
Australia



This Australian Standard® was prepared by Committee SF-041, General Principles for the Guarding of Machinery. It was approved on behalf of the Council of Standards Australia on 30 May 2008.

This Standard was published on 30 June 2008.

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The following are represented on Committee SF-041:

- Australian Chamber of Commerce and Industry
- Australian Electrical and Electronic Manufacturers Association
- Department for Administration and Information Services, SA
- Department of Consumer and Employment Protection, WorkSafe Division, WA
- Department of Primary Industries, Mine Safety, NSW
- Engineers Australia
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- National Electrical and Communications Association
- National Safety Council of Australia
- Office of the Australian Safety and Compensation Council
- Safety Institute of Australia
- The University of Melbourne
- Tractor and Machinery Association of Australia
- Victorian WorkCover Authority

This Standard was issued in draft form for comment as Draft Standard S 04005.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Originally as AS CZ14—1971.  
Revised and redesignated as AS 4024.3101—2008.

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Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 8777 0

## PREFACE

This Standard was prepared by the Standards Australia Committee SF-041, General Principles for the Safety of Machinery as a revision of AS CZ14—1971, *Guarding and safe use of milling machines* which was withdrawn in 1997.

During its work, the Committee considered work emanating from the European Community, and agreed to use EN 13128:2001, *Machine tools—Safety—Milling machines (including boring machines)* as the basis for this Australian Standard.

This action will ensure the continuing consistency of machinery safety standards with each other, as well as ensuring that a consistent approach to machinery safety standards is maintained 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.

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## STANDARDS AUSTRALIA

**Australian Standard  
Safety of machinery****Part 3101: Materials cutting—Milling machines (including boring machines)—Safety requirements**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies the technical safety requirements and measures to be adopted by persons undertaking the design, construction and supply (including installation and dismantling, with arrangements for transport and maintenance) of milling machines including machines capable of performing boring operations.

Machines covered by this Standard include but are not limited to—

- (a) knee and column type milling machines (see Figures D1 and D2);
- (b) bed-type milling machines (see Figure D3);
- (c) multi-spindle milling machines (see Figures D4 and D5);
- (d) plano-milling machines (see Figures D4 and D5);
- (e) profile and contouring milling machines (see Figure D6); and
- (f) milling and boring machines (see Figure D7).

This Standard also applies to workpiece transfer devices when they form an integral part of the machine.

This Standard takes account of intended use including reasonably foreseeable misuse, maintenance, cleaning, and setting operations. It presumes access to the machine from all directions. It describes measures to reduce risks to both operators and other exposed persons.

This Standard deals with significant hazards relevant to milling machines when they are used as intended and under the conditions foreseen by the manufacturer.

Milling machines with automatic tool changing capabilities are not covered by this Standard.

**1.2 OBJECTIVE**

The objective of this Standard is to provide designers, manufacturers, suppliers, employers and users of milling machines, including boring machines, with means of minimizing risks to the health and safety of employees and others working with or otherwise near milling machines.

**1.3 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard: