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Safety of machinery

Part 1703: Human body measurements—Principles for determining the dimensions required for access openings

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Federal Chamber of Automotive Industries
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Australian/New Zealand Standard™

Safety of machinery

Part 1703: Human body measurements—Principles for determining the dimensions required for access openings

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-041, General Principles for the Guarding of Machinery, to supersede AS 4024.1703—2006, *Safety of machinery*, Part 1703: *Principles for determining the dimensions required for access openings*.

It is emphasized that this Standard is part of the AS(/NZS) 4024.1 series and it is imperative that it is used in conjunction with other applicable parts of the series. A complete listing of all current parts of the AS(/NZS) 4024.1 series can be found at the Standards Australia website <www.standards.org.au> and in AS/NZS 4024.1100, *Safety of machinery*, Part 1100: *Application Guide*.

The objective of this Standard is to specify the dimensions of openings for access as applied to machinery as defined in AS/NZS 4024.1201. It provides the dimensions to which the values given in AS 4024.1704 are applicable. Values for additional space requirements are given in Annex A. This Standard applies primarily to non-mobile machinery; there may be additional specific requirements for mobile machinery. It shows how to combine anthropometric data with suitable allowances to take into account body movements, clothing, equipment, machinery operating conditions or environmental conditions.

This Standard is identical with, and has been reproduced from EN 547-2:1996, *Safety of machinery—Human body measurements*, Part 2: *Principles for determining the dimensions required for access openings*, and its Amendment 1 (2008). The start and finish of text introduced or altered by amendment is indicated in the text by the tags ▌A1⟩ ⟨A1▐.

As this Standard is reproduced from an International Standard, the following applies:

(a) In the source text 'this European Standard' should read 'this Australian/New Zealand Standard'.

(b) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

Reference to International Standard		*Australian/New Zealand Standard*	
EN		AS/NZS	
292	Safety of machinery—Basic concepts, general principles for design	4024	Safety of machinery
292-1	Part 1: Basic terminology, methodology	4024.1201	Part 1201: General principles for design—Risk assessment and risk reduction
294	Safety of machinery—Safety distances to prevent danger zones being reached by the upper limbs	4024.1801	Part 1801: Safety distances to prevent danger zones being reached by upper and lower limbs
547	Safety of machinery—Human body measurements		
547-3	Part 3: Anthropometric data	4024.1701	Part 1701: Human body measurements—Basic human body measurements for technological design
614	Safety of machinery—Ergonomic design principles		
614-1	Part 1: Terminology and general principles	4024.1401	Part 1401: Ergonomic principles—Design principles—Terminology and general principles

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

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