



**ISO metric hexagon bolts and screws—  
Product grades A and B**

**Part 2: Screws**

**STANDARDS**  
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This Australian Standard® was prepared by Committee ME-029, Fasteners. It was approved on behalf of the Council of Standards Australia on 24 July 2015.  
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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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Australian Standard<sup>®</sup>

**ISO metric hexagon bolts and screws—  
Product grades A and B**

**Part 2: Screws**

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## PREFACE

This Standard was prepared by the Standards Australia Committee ME-029, Fasteners, to supersede AS 1110.2—2000, *ISO metric hexagon bolts and screws—Product grades A and B, Part 2: Screws*.

The objective of this Standard is to provide manufacturers, suppliers and users with the dimensions, tolerances and material requirements for hexagon head screws of ISO product grades A and B with ISO metric coarse threads.

This Standard is Part 2 of a two-part series on ISO metric hexagon bolts and screws. Part 1 gives the dimensions for bolts.

This Standard is identical with, and has been reproduced from, ISO 4017:2014, *Fasteners—Hexagon head screws—Product grades A and B*.

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

- (a) In the source text ‘this International Standard’ should read ‘this Australian 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 Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
ISO		AS	
898	Mechanical properties of fasteners made of carbon steel and alloy steel	4291	Mechanical properties of fasteners made of carbon steel and alloy steel
898-1	Part 1: Bolts, screws and studs with specified property classes—Coarse thread and fine pitch thread	4291.1	Part 1: Bolts, screws and studs
965	ISO general purpose metric screw threads—Tolerances		
965-1	Part 1: Principles and basic data	1721	General purpose metric screw threads
4759	Tolerances for fasteners		
4759-1	Part 1: Bolts, screws, studs and nuts—Product grades A, B and C	5066	Tolerances for ISO metric bolts, screws, studs and nuts—Product grades A, B and C
10684	Fasteners—Hot dip galvanized coatings	1214	Hot-dip galvanized coatings on threaded fasteners (ISO metric coarse thread series)

Only normative references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

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## INTRODUCTION

This International Standard belongs to a complete family of product standards developed by ISO on external hexagon drive fasteners. It comprises the following:

- a) hexagon head bolts (ISO 4014, ISO 4015, ISO 4016 and ISO 8765);
- b) hexagon head screws (ISO 4017, ISO 4018 and ISO 8676);
- c) hexagon nuts (ISO 4032, ISO 4033, ISO 4034, ISO 4035, ISO 4036, ISO 7040, ISO 7041, ISO 7042, ISO 7043, ISO 7044, ISO 7045, ISO 7046, ISO 7047, ISO 7048, ISO 7049, ISO 7050, ISO 7051, ISO 7052, ISO 7053, ISO 7054, ISO 7055, ISO 7056, ISO 7057, ISO 7058, ISO 7059, ISO 7060, ISO 7061, ISO 7062, ISO 7063, ISO 7064, ISO 7065, ISO 7066, ISO 7067, ISO 7068, ISO 7069, ISO 7070, ISO 7071, ISO 7072, ISO 7073, ISO 7074, ISO 7075, ISO 7076, ISO 7077, ISO 7078, ISO 7079, ISO 7080, ISO 7081, ISO 7082, ISO 7083, ISO 7084, ISO 7085, ISO 7086, ISO 7087, ISO 7088, ISO 7089, ISO 7090, ISO 7091, ISO 7092, ISO 7093, ISO 7094, ISO 7095, ISO 7096, ISO 7097, ISO 7098, ISO 7099, ISO 7100, ISO 7101, ISO 7102, ISO 7103, ISO 7104, ISO 7105, ISO 7106, ISO 7107, ISO 7108, ISO 7109, ISO 7110, ISO 7111, ISO 7112, ISO 7113, ISO 7114, ISO 7115, ISO 7116, ISO 7117, ISO 7118, ISO 7119, ISO 7720, ISO 8673, ISO 8674, ISO 8675, ISO 10511, ISO 10512 and ISO 10513);
- d) hexagon bolts with flange (ISO 4162, ISO 15071 and ISO 15072);
- e) hexagon nuts with flange (ISO 4161, ISO 7043, ISO 7044, ISO 10663, ISO 12125, ISO 12126 and ISO 21670).

## AUSTRALIAN STANDARD

**ISO metric hexagon bolts and screws—Product grades A and B****Part 2:  
Screws****1 Scope**

This International Standard specifies the characteristics of hexagon head screws with threads from M1,6 up to and including M64, of product grade A for threads M1,6 to M24 and nominal lengths up to and including  $10 d$  or 150 mm, whichever is the shorter, and product grade B for threads over M24 or nominal lengths over  $10 d$  or 150 mm, whichever is the shorter.

NOTE This type of product is the same as that covered by ISO 4014 with the exception of threading up to head and nominal lengths up to and including 200 mm as preferred lengths.

If, in special cases, specifications other than those listed in this International Standard are required, they can be selected from existing International Standards, for example ISO 724, ISO 888, ISO 898-1, ISO 965-1, ISO 3506-1, ISO 4753 and ISO 4759-1.

**2 Normative references**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 225, *Fasteners — Bolts, screws, studs and nuts — Symbols and descriptions of dimensions*

ISO 724, *ISO general-purpose metric screw threads — Basic dimensions*

ISO 898-1, *Mechanical properties of fasteners made of carbon steel and alloy steel — Part 1: Bolts, screws and studs with specified property classes — Coarse thread and fine pitch thread*

ISO 965-1, *ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data*

ISO 3269, *Fasteners — Acceptance inspection*

ISO 3506-1, *Mechanical properties of corrosion-resistant stainless steel fasteners — Part 1: Bolts, screws and studs*

ISO 3508, *Thread runouts for fasteners with thread in accordance with ISO 261 and ISO 262*

ISO 4042, *Fasteners — Electroplated coatings*

ISO 4753, *Fasteners — Ends of parts with external ISO metric thread*

ISO 4759-1, *Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C*

ISO 6157-1, *Fasteners — Surface discontinuities — Part 1: Bolts, screws and studs for general requirements*

ISO 8839, *Mechanical properties of fasteners — Bolts, screws, studs and nuts made of non-ferrous metals*

ISO 8992, *Fasteners — General requirements for bolts, screws, studs and nuts*

ISO 10683, *Fasteners — Non-electrolytically applied zinc flake coatings*

ISO 10684, *Fasteners — Hot dip galvanized coatings*