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AS 1420 — 1973
UDC 621.882.2

Australian Standard 1420 – 1973

ISO METRIC HEXAGON SOCKET HEAD CAP SCREWS

STANDARDS ASSOCIATION OF AUSTRALIA
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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS and departments were officially represented on the committee entrusted with the preparation of this standard:

Associated Chamber of Manufactures of Australia
Australian Institute of Steel Construction
Australian and New Zealand Railways Conference
Bureau of Steel Manufacturers of Australia
Department of Defence
Department of Supply
Electricity Supply Association of Australia
Fasteners Institute of Australia
Metal Trades Industry Association of Australia
Metropolitan Water Sewerage and Drainage Board, Sydney
Petroleum Refinery Engineers Advisory Committee
Postmaster-General's Department
Society of Automotive Engineers of Australasia
The Institution of Production Engineers
Tractor Farm Machinery and Construction Equipment Association of Australia
University of Sydney

This standard, prepared by Committee ME/29, Threaded Fasteners, was approved on behalf of the Council of the Standards Association of Australia, on 20 August 1973.

To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvement to published standards addressed to the headquarters of the Association, are welcomed.

This standard was issued in draft form for public review as DR 72200.

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AUSTRALIAN STANDARD SPECIFICATION

ISO METRIC HEXAGON SOCKET HEAD CAP SCREWS

AS 1420 — 1973

First published 1973

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PREFACE

This standard was prepared by the Association's Committee on Threaded Fasteners. The standard is based on a preliminary draft submitted by the Fasteners Institute of Australia and, along with other drafts and published standards is part of a programme intended to provide a rational range of Australian standards for metric fasteners.

Other related standards are:

AS 1419 ISO Metric Hexagon Wrench Keys and Wrench Bits

AS 1421 ISO Metric Hexagon Socket Set Screws

Further standards in the series, at present awaiting international agreement, are proposed for:

ISO Metric Hexagon Socket Countersunk Head Screws

ISO Metric Hexagon Socket Button Head Screws

ISO Metric Hexagon Socket Head Shoulder Screws

With the aim of restricting unnecessary proliferation of screw thread varieties, this standard provides only for the ISO metric coarse thread series as specified in AS 1275, Metric Screw Threads for Fasteners.

The committee decided that, as a firm policy, the words 'ISO metric' should be incorporated in the title of all future metric standards for threaded products. This is to distinguish these products from others manufactured to specifications of 'European origin' and which are not necessarily the subject of international agreement. This policy is to be reviewed after the full adoption of the metric system within the economy.

In preparing this standard, the committee gave due consideration to ISO/R861—Hexagon Socket Head Cap Screws—Metric Series, and the nominal dimensions for the hexagon sizes, head sizes and shank diameters are in line with this document. However, the committee felt that the tolerances for the hexagon depths given in ISO/R861 were not in accordance with current Australian practices and it would be detrimental to the product to accept such depths. This parameter, therefore, is based on the American Standard ANSI B18.3 and is in line with current Australian manufacturing practices.

The mechanical properties given in this standard are in SI units and the stress units are expressed in megapascals. The name pascal has been rectified by the CGPM* as a special name for the unit $1N/m^2$ and has been adopted in the international standard 1000—International System of Units and Their Application. The property grade is in line with property grade 12·9 given in ISO/R898—Part 1.

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*CGPM—Conference Generale des Poids et Mesures.

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This standard has been based on the following Australian and international standards, in addition to ISO/R 861 and AS 1275:

ISO/R898	Mechanical Properties of Fasteners—Part 1—Bolts, Screws and Studs
ISO/R885	Bolts and Screws Radii under the Head of General Purpose Bolts and Screws
ISO/DR447	Bolts, Screws, Studs and Nuts (Metric Series)—Tolerances

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