

Australian Standard[®]

**Hand-operated screwdrivers and
screwdriver bits**

**Part 3: Bits for manually driven
and power driven screwdrivers**

This Australian Standard was prepared by Committee ME/10, Small Tools. It was approved on behalf of the Council of Standards Australia on 12 December 1989 and published on 11 June 1990.

The following interests are represented on Committee ME/10:

Australian British Chamber of Commerce
Austroads
Confederation of Australian Industry
CSIRO, Division of Manufacturing Technology
Deakin University
Department of Defence
Department of Technical and Further Education, New South Wales
Fasteners Institute of Australia
Metal Trades Industry Association of Australia
Railways of Australian Committee
Telecom Australia
The Workcover Authority, New South Wales

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 89110.

Australian Standard[®]

**Hand-operated screwdrivers and
screwdriver bits**

**Part 3: Bits for manually driven
and power-driven screwdrivers**

First published as AS 3527.3—1990.

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 6099 1

PREFACE

This Standard was prepared by the Standards Australia Committee on Small Tools. It has been based on ISO 2351, *Screwdriver bits for slotted head screws, with male hexagon drive*, and acknowledgment is made of the assistance therefrom.

This Standard is one of a series on hand-operated screwdrivers and screwdriver bits. Other Standards in the series are as follows:

AS

- 3527 Hand-operated screwdrivers and screwdriver bits
- 3527.1 Part 1: Screwdrivers for slotted and cross-recessed fasteners
- 3527.2 Part 2: Insulated screwdrivers

CONTENTS

	<i>Page</i>
1 SCOPE	3
2 REFERENCED DOCUMENTS	3
3 DEFINITIONS	3
4 DESIGNATION	3
5 SHAPE AND DIMENSIONS	3
6 MATERIAL, MANUFACTURE, AND HEAT TREATMENT	4
7 FINISH	4
8 PERFORMANCE REQUIREMENTS AND TESTING	4
9 MARKING	4
APPENDIX A. TORQUE TEST FOR SCREWDRIVER BITS	5

© Copyright — STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

STANDARDS AUSTRALIA

Australian Standard

Hand-operated screwdrivers and screwdriver bits

Part 3—Bits for manually driven and power-driven screwdrivers

1 SCOPE. This Standard specifies the minimum requirements for bits for manually driven and hand-held power-driven screwdrivers with external hexagon drives for use with slotted and cross-recessed fasteners as specified in AS 1427 and AS 1476.

2 REFERENCED DOCUMENTS. The following documents are referred to in this Standard:

AS

1427 ISO metric machine screws

1442 Carbon steels and carbon-manganese steels — Hot-rolled bars and semi-finished products

1444 Wrought alloy steels — Standard and hardenability (H) series

1476 Metric wood screws

1654 Limits and fits for engineering

1815 Method for Rockwell hardness test

1815.1 Part 1: Testing of metals

1817 Method for Vickers hardness test

1817.1 Part 1: Testing of metals

3527 Hand-operated screwdrivers and screwdriver bits

3527.1 Part 1: Screwdrivers for slotted and cross-recessed fasteners

3722 Assembly tools for bolts and screws — Hexagon drive ends for hand-operated and machine-operated screwdriver bits

ISO

2380 Screwdriver blades for slotted head screws

8764 Driver points to fit cross-recessed head screws

3 DEFINITIONS. For the purpose of this Standard, the definitions given in AS 3527.1 and those below apply.

3.1 Screwdriver bit—a bit with an external hexagon form at one end and a screwdriver point form at the other.

3.2 Internal hexagon drive—an internal hexagon form which mates with the external hexagon form of the screwdriver bit to enable a torsional force to be applied to the screwdriver bit.

3.3 Shall—indicates that a statement is mandatory.

3.4 Should—indicates a recommendation.

4 DESIGNATION.

4.1 Screwdriver bits for slotted fasteners. Screwdriver bits for slotted fasteners shall be designated according to—

(a) the hexagon drive form;

(b) the nominal 'across flats' dimension of the hexagon drive in millimetres; and

(c) the blade type, the blade nominal thickness, and the blade nominal width given in ISO 2380.

4.2 Screwdriver bits for cross-recessed fasteners. Screwdriver bits for cross-recessed head fasteners shall be designated according to—

(a) the hexagon drive form;

(b) the nominal 'across flats' dimension of the hexagon drive in millimetres; and

(c) the point number and point type given in AS 3527.1.

5 SHAPE AND DIMENSIONS.

5.1 External hexagon drives. The shape and dimensions of the external hexagon drives shall be as specified in AS 3722.