

Australian Standard[®]

**Shank hooks and large-eye
hooks—Maximum 25 t**

This Australian Standard was prepared by Committee ME/25, Lifting Tackle. It was approved on behalf of the Council of Standards Australia on 15 February 1990 and published on 4 June 1990.

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Department of Industrial Relations and Employment, N.S.W.
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PREFACE

This Standard was prepared by the Standards Australia Committee on Lifting Tackle.

It is one of a series of Standards for components that are used in lifting systems. Standards for other components are listed below.

AS

- 1138 Thimbles for use with wire rope or fibre (natural or synthetic) rope
- 1353 Flat synthetic-webbing slings
- 1353.1 Part 1: Product specification
- 1353.2 Part 2: Care and use
- 1380 Fibre-rope slings (of natural or synthetic rope)
- 1438 Wire-coil flat slings
- 1504 Fibre rope—Three-strand, hawser laid
- 1666 Wire-rope slings
- 1752 Fibre rope—Eight-strand plaited
- 2076 Wire rope grips
- 2089 Sheave blocks (including ships' cargo blocks) of maximum lift 60 t
- 2317 Collared eyebolts
- 2318 Swivels for hoists
- 2319 Rigging screws and turnbuckles
- 2321 Short-link chain for lifting purposes (non-calibrated)
- 2740 Wedge-type sockets
- 2741 Shackles
- 2759 Steel wire rope—Application guide
- 2841 Galvanized steel wire strand
- 3569 Steel wire ropes
- 3585 End fittings for flat-webbing slings
- 3775 Chain slings—Grade T
- 3776 Lifting components for Grade T chain slings
- B291 Lifting rings and links

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FOREWORD

In any lifting, tensioning, or staying system, the safe working load of each component shall take account of the conditions of use and be compatible with any loads inherent in, and applied to, the system, and each component should readily connect with each adjacent component. Therefore, it is important that components of lifting, tensioning, or staying systems be quickly and positively identified in service for size, lifting capacity, and quality grade.

The quality grading system in this Standard is the same as that used by other Australian Standards covering components in lifting, tensioning, and staying systems. It allows for positive identification and easy selection, and relates to the mechanical properties of the finished product and not simply to the strength of the material.

STANDARDS AUSTRALIA

Australian Standard

Shank hooks and large-eye hooks—Maximum 25 t

1 SCOPE. This Standard specifies requirements for forged lifting hooks having a working load limit of not more than 25 t, for use with wire rope, sheave blocks, serial hoists, or general engineering applications. It includes large eye hooks and shank hooks.

NOTES:

1. Hooks for use with Grade T chain are covered by AS 3776.
2. Guidance on information that should be supplied with enquiries and orders is given in Appendix A.

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

AS

- | | |
|--------|--|
| 1065 | Non-destructive testing—Ultrasonic testing of carbon and low alloy steel forgings |
| 1171 | Methods for magnetic particle testing of ferromagnetic products and components |
| 1199 | Sampling procedures and tables for inspection by attributes |
| 1399 | Guide to AS 1199—Sampling procedures and tables for inspection by attributes |
| 1418 | SAA Crane Code |
| 1418.1 | Part 1: General requirements |
| 1442 | Carbon steels and carbon-manganese steels—Hot-rolled bars and semi-finished products |
| 1444 | Wrought alloy steels—Standard and hardenability (H) series |
| 1627 | Metal finishing—Preparation and pretreatment of surfaces |
| 1627.0 | Part 0: Method selection guide for preparation and pretreatment of steel surfaces |
| 1627.6 | Part 6: Phosphate treatment of iron and steel surfaces |
| 1650 | Hot-dipped galvanized coatings on ferrous articles |
| 1721 | General purpose metric screw threads |
| 1789 | Electroplated coatings—Zinc on iron or steel |
| 1790 | Electroplated coatings—Cadmium on iron or steel |
| 2193 | Methods of calibration and grading of force-measuring systems of testing machines |
| 3776 | Lifting components for Grade T chain slings |
| 3900 | Quality systems—Guide to selection and use |
| 3904 | Quality systems—Guide to quality management and quality system elements |
| B199 | Undercuts and runouts for screw threads |

ISO

Guide

- | | |
|----|--|
| 44 | General rules for ISO and IEC international third-party certification schemes for products |
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3 DEFINITIONS. For the purpose of this Standard, the definitions below apply.

3.1 Competent person—a person having practical and theoretical knowledge and relevant experience, such as will enable that person to detect and evaluate any defects and any weaknesses that may affect the intended performance of the equipment.

3.2 Self-coloured—a surface colour of closely adhering brown/blue oxides resulting from heat treatment and subsequent handling during manufacture.

3.3 Shall—indicates that a statement is mandatory.

3.4 Should—indicates a recommendation.

3.5 Statutory Authority—an authority with statutory powers to control the use of hooks.

3.6 Working load.

3.6.1 Working load limit (WLL)—the maximum load that may be applied to the hook, in tension along the normal load axis of the hook, under general conditions of use.

3.6.2 Safe working load (SWL)—the maximum load that may be applied to the hook under the particular conditions of use (see Appendix B).