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AS 2550.5-1993

## CRANES MOBILE, TOWER AND DERICK— SELECTION AND OPERATION



STANDARDS ASSOCIATION OF AUSTRALIA  
*Incorporated by Royal Charter*



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The following interests were represented on the committee responsible for the preparation of this standard:

Aluminium Development Council  
Association of Consulting Engineers, Australia  
Australian Institute of Building  
Bureau of Steel Manufacturers of Australia  
Confederation of Australian Industry  
Construction Equipment Importers and Manufacturers of Australia  
Department of Construction  
Department of Defence  
Department of Industrial Affairs and Employment, South Australia  
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**AUSTRALIAN STANDARD**

**CRANES  
MOBILE, TOWER AND DERRICK—  
SELECTION AND OPERATION**

**AS 2530-1982**

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## PREFACE

This standard was prepared by the Association's Committee on Cranes as part of the general revision and metrication of AS CB2—1960, SAA Crane and Hoist Code, which has been largely superseded by the various Parts of AS 1418, SAA Crane Code. This present standard incorporates Sections 22 and 23 of AS 1418, Part 1—1977 and material from BS:CP3010, Safe Use of Cranes (Mobile Cranes, Tower Cranes and Derrick Cranes). Acknowledgement is made of the assistance obtained from CP3010.

Preparation of this standard was prompted by the fact that cranes were being employed in an ever-widening variety of job applications and environmental conditions, together with the introduction of novel designs of cranes offering technical sophistication, increased capacities and new extremes of operating range.

The aims of the standard are therefore—

- (a) to describe the principal characteristics and applications of the various forms of cranes of the types most commonly used;
- (b) to draw attention to some of the more common hazards and potential dangers which may be encountered in their use; and
- (c) to specify general precautions to be taken and operational procedures to be followed.

A list of statutory authorities is given in Appendix D.

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## STANDARDS ASSOCIATION OF AUSTRALIA

## Australian Standard

for

## CRANES—MOBILE, TOWER AND DERRICK—SELECTION AND OPERATION

## SECTION 1. SCOPE AND GENERAL

**1.1 SCOPE.** This standard sets out guidelines for the selection and operation of mobile, tower and derrick cranes. It covers selection, erection, siting and operation, and dismantling and maintenance procedures, and requirements for crane drivers, crane chasers, dogmen and spotters, as applicable.

**1.2 REFERENCED DOCUMENTS.** The following standards are referred to in this standard:

- AS 1418 SAA Crane Code  
Part 1—General Requirements  
Part 5—Mobile Cranes
- AS 1752 Fibre Rope (Eight-strand Plaited Polypropylene)
- AS 2076 Wire Rope Grips
- AS 2549 Cranes—Glossary of Terms

In addition, Appendix A provides a list of other standards which are relevant to cranes.

**1.3 DEFINITIONS.** For the purpose of this standard, terms shall have the meanings given in AS 2549.

**1.4 SELECTION.** The selection of the crane shall be in accordance with the procedure set out in Clause 2.2.

**1.5 OPERATION.** The operation of the crane shall comply with Section 2 and with the appropriate requirements of the selected crane as specified in the following Sections:

- (a) Section 3—Mobile Cranes.
- (b) Section 4—Tower Cranes.
- (c) Section 5—Derrick Cranes.