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Under revision see DR 83076 of April 1983

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AS 1418, Part 5 — 1980
UDC 621.873

# Australian Standard 1418, Part 5 – 1980

# SAA CRANE CODE
# Part 5 – MOBILE CRANES

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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:

Aluminum Devolpment 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
Crane Hoist and Lifting Appliance Manufacturers Association
Department of Construction
Department of Defence
Department of Industrial Affairs and Employment, South Australia
Department of Industrial Relations, N.S.W.
Department of Labour and Industry, Tasmania
Department of Labour and Industry, Victoria
Department of Labour and Industry, Western Australia
Department of Labour Relations, Queensland
Department of Mines and Energy, Northern Territory
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Metal Trades Industry Association of Australia
Metropolitan Water Sewerage and Drainage Board, N.S.W.
Mobile Crane Hirers Association of Victoria
Port of Melbourne Authority
Railways of Australia Committee
Telecom Australia

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This standard, prepared by Committee ME/5, Cranes, was approved on behalf of the Council of the Standards Association of Australia on 4 July 1980, and was published on 1 October 1980.

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*This standard was issued in draft form for public review as DR 79001.*

AS 1418.5/Amdt 1/1982-07-19

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# Amendment No 1
# to
# AS 1418, Part 5—1980
# SAA CRANE CODE
# Part 5—Mobile Cranes

REVISED TEXT

*SUMMARY*: This amendment applies to Clause 1.2.

Published on 19 July 1982.

AUSTRALIAN STANDARD

# RULES FOR CRANES (including Hoists and Winches)

known as the

# SAA CRANE CODE

# Part 5 MOBILE CRANES

## AS 1418, Part 5 — 1980

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# PREFACE

This standard was prepared by the Association's Committee on Cranes as a Part of AS 1418, SAA Crane Code. It covers specific requirements for mobile cranes. This Part is intended to be used in conjunction with Part 1—General Requirements, and will take precedence over corresponding requirements in Part 1.

Appendices provide recommendations concerning information to be supplied with enquiry, order and tender, information regarding application for statutory approval for design and erection of mobile cranes, and nominal rating.

This standard makes reference to the following standards:

| | |
|---|---|
| AS 1138 | Thimbles for Use with Wire Rope or Fibre (Natural or Synthetic) Rope |
| AS 1418 | SAA Crane Code |
| AS 1504 | Fibre Rope (Three-strand Hawser Laid) |
| AS 1656 | Steel Wire Ropes (Other than for Mining Purposes) |
| AS 1666 | Wire-rope Slings |
| AS 2076 | Wire Rope Grips |
| AS 2318 | Swivels |
| AS 2319 | Rigging Screws and Turnbuckles |
| AS B278 | Shackles for Lifting Purposes* |
| AS B283 | Bordeaux Connections* |
| AS B291 | Lifting Rings and Links* |
| AS .... | Hooks† |
| AS .... | Wedge Sockets† |

* In course of revision.

† In course of preparation.

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STANDARDS ASSOCIATION OF AUSTRALIA

# Australian Standard
# RULES FOR CRANES
# (including Hoists and Winches)

## PART 5 — MOBILE CRANES

## SECTION 1. SCOPE AND DEFINITIONS

**1.1 SCOPE OF PART.** This Part of these Rules (hereinafter referred to as 'this Part' or 'this Part of the Code') sets out requirements for mobile cranes as defined in Part 1, General Requirements, of the Code.

It is complementary to Part 1, but the requirements given in this Part take precedence over the corresponding requirements in Part 1.

SEE AMENDMENT 1 (7/82)

**1.2 DEFINITIONS.** For the purposes of this Part of the Code, the following definitions shall apply in addition to those listed in Section 2 of Part 1.

**1.2.1 Types of Mobile Crane (Physical Characteristics).**

**1.2.1.1** *Truck-based crane* (See Fig. 1.2.1 (a)) —a mobile crane comprising a crane superstructure mounted on special purpose chassis and cabin system with the crane base incorporated as part of the truck chassis (see Rule 1.2.3.2).

**1.2.1.2** *Truck-mounted crane* (See Fig. 1.2.1 (b)) — a mobile crane comprising a crane superstructure and crane base mounted on a general purpose truck-type chassis and cabin system.

**1.2.1.3** *Truck-connected crane* (See Fig. 1.2.1 (c)) — a mobile crane comprising a crane structure supported by its own wheel system (single-axle or multi-axle) and connected to a general purpose truck-type chassis and cabin system.

**1.2.1.4** *Tractor-based crane* (See Fig. 1.2.1 (d)) — a mobile crane comprising a crane structure supported by its own wheel system and connected to a part of a wheel-type tractor supported by its drive-wheel system only.

**1.2.1.5** *Tractor-mounted crane* (See Fig. 1.2.1 (e)) — a mobile crane comprising a crane superstructure mounted on a general purpose wheel-type tractor or crawler-track-type tractor.

**1.2.1.6** *Tractor-connected crane* (See Fig. 1.2.1 (f)) — a mobile crane comprising a crane structure suported by its own wheel system (single-axle or multi-axle) and connected to a general purpose wheel-type tractor or crawler-track-type tractor.

**1.2.1.7** *Self-propelled crane* (See Fig. 1.2.1 (g)) — a mobile crane comprising a crane structure mounted on a power-driven wheel-type mobile base or crawler-track-type mobile base.

**1.2.1.8** *Trailer-mounted crane* (See Fig. 1.2.1 (h)) — a mobile crane comprising a crane structure mounted on a non-power-driven mobile base.

**1.2.1.9** *Sub-base mounted crane* (See Fig. 1.2.1 (j))—a crane structure mounted on a sub-base which is capable of being lifted clear of the supporting surface.

**1.2.2 Types of Mobile Crane (Operational Characteristics).**

**1.2.2.1** *Fully-mobile crane* — a mobile crane able to handle its design load suspended in any intended position when the crane is travelling.

**1.2.2.2** *Semi-mobile crane* — a mobile crane able to handle its design load suspended in any intended position with stability maintained by means of outriggers (see Rule 1.2.3.3).

**1.2.2.3** *Rough terrain crane* — a mobile crane specifically designed to travel over unpaved and ungraded surfaces.

**1.2.2.4** *Fully slewing crane* — a crane incorporating a boom or jib which is capable of being slewed through 360 degrees.

**1.2.2.5** *Partly slewing crane* — a crane incorporating a boom or jib which is capable of being slewed through an angle less than 360 degrees.

**1.2.2.6** *Non-slewing crane* — a crane incorporating a boom or jib which does not slew with respect to the carrier.

**1.2.3 Mobile Crane Components.**

**1.2.3.1** *Carrier* — the section (of a mobile crane) which enables the mobility of the crane.

**1.2.3.2** *Chassis* — the frame which incorporates the road-wheel suspension system and which forms part of the carrier (see Rule 1.2.3.1).

**1.2.3.3** *Outriggers*—extendible arms attached to the carrier which rest on supports at the outer ends to increase stability and which may raise the road wheels off the ground. When a crane is set up thus, the condition is termed 'on outriggers'.

**1.2.3.4** *Structure* — the components of a crane that are essential to its being a crane.

**1.2.3.5** *Superstructure* — the section (of the structure) which incorporates the crane-motion mechanisms and to which the boom is connected.

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**Page 4. Clause 1.2.** AM No JUL 1982

*Delete* whole of this clause and *substitute*:

**1.2 DEFINITIONS.** For the purpose of this standard, the definitions given in AS 2549 apply.