

Australian Standard 2549—1982

CRANES GLOSSARY OF TERMS



STANDARDS ASSOCIATION OF AUSTRALIA
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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
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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Electricity Supply Association of Australia
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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
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AUSTRALIAN STANDARD

**CRANES
GLOSSARY OF TERMS**

AS 2549—1982

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PREFACE

This standard was prepared by the Association's Committee on Cranes. In the preparation of the several Parts of the SAA Crane Code (AS 1418), a substantial number of definitions accumulated many of which are common to several Parts of that standard.

In the restructuring of the format of the SAA Crane Code it was decided that a separate standard should be prepared for crane terms for easy reference in conjunction with the various Parts of the Code. This would overcome the necessity of recording all the definitions of crane terms in each Part of the Code. It was also decided that a further standard should be prepared to supersede those sections of AS 1418 dealing with the selection and operation of cranes; this standard has been published as AS 2550.

The definitions therefore apply to AS 2550 and to the following Parts of AS 1418:

- Part 1*—General Requirements
- Part 2*—Serial Hoists
- Part 3*—Bridge and Gantry Cranes
- Part 4 —(Reserved for) Derrick, Jib, Portal and Tower Cranes
- Part 5*—Mobile Cranes
- Part 6†—Guided Storing and Retrieving Appliances
- Part 7*—Builders Hoists and Equipment
- Part 8†—Special Purpose Appliances
- Part 9†—Vehicle Hoists
- Part 10†—Elevating Work Platforms

Where a range of terms has been provided, such as for types of brakes, and the basic element has been defined, the swung dash (~) of dictionary form has been used to avoid repetition of the headword. Also, there are groups of terms collected for easy reference as depicted by a *bold italic* heading. However, where a single word term is used in this grouping it is cross-referenced alphabetically.

*Published.

†In course of preparation.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
for
CRANES—GLOSSARY OF TERMS

Term	Definition
additional load	<i>See crane loads.</i>
aisle	Space between storage location or compartments in which the storage crane or appliance operates.
aisle transfer car	An appliance or vehicle for transferring a storing or retrieving appliance from aisle to aisle, which also normally runs on a rail or rails.
adapter	Movable or stationary supports attached to a superstructure, that allow a vehicle hoist to accommodate a vehicle without affecting the safe working load.
auxiliary ~	Extensions either to the superstructure or to adapters, that, although allowing a vehicle hoist to accommodate a vehicle, may affect the safe working load of a vehicle hoist.
aerial ladder	An elevating work platform consisting of a single-section or multiple-section extensible ladder.
air-oil system	A hydraulic hoist system in which the ram is activated by a column filled by air and oil in separate sections.
air-oil tank	A tank in an air-oil system, separate from the cylinder assembly, that functions as a reservoir from which oil under pressure is supplied to activate the ram.
anchorage	Securement of a crane in position.
anemometer	An instrument for measuring wind speed.
anti-two-block system	A system applied to cranes which warns and/or prevents two-blocking.
approval and approved	Approved by, or with the approval of, the Statutory Authority.
articulated boom system	<i>See boom system.</i>
articulating boom platform	Any elevating work platform with two or more hinged boom sections.
authorized person	The person who (not being the operator of the crane) is in charge of the work to be performed and who has by agreement been nominated as the authorized person.
automated storage and/or retrieval system	A combination of equipment and controls which handles, stores, and retrieves materials with precision and accuracy under a defined degree of automation. NOTE: Systems vary from relatively simple, manually controlled order-picking machines operating in small storage structures to giant, computer-controlled storage and/or retrieval systems totally integrated into the manufacturing and distribution process.
automatic or automatically	Pertains to equipment functions that do not require the attention of the driver during their functional operation.
automatic brake	<i>See brake.</i>
automatic chocks	<i>See chocks.</i>
automatic safe load indicator	<i>See indicator.</i>
auxiliary adapter	<i>See adapter.</i>
auxiliary hoist rope	A secondary load-hoisting rope from an auxiliary drum, usually for use in hoisting lighter loads than the main hoist rope.
back stays	The structural members of a derrick crane which extend backwards from the top of the mast (king post) to the outer end of the crane sleepers.
band brake	<i>See brake—mechanical.</i>
bay	A series of vertical storage locations when considered as a set.
blocked	<i>See outriggers.</i>
bogie	Two-wheeled carriage fitted to the end carriages of bridge cranes and other rail-mounted cranes.
bolster (hoisting cross-member)	The cross-member that connects the rails or runways to the ram of a vehicle hoist.
boom	A member, attached to the crane structure, from which the load is suspended and which is capable of being luffed while the crane is handling a load.