

Australian Standard<sup>®</sup>

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**Cranes (including hoists and winches)—Glossary of terms**

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This Australian Standard was prepared by Committee ME/5, Cranes. It was approved on behalf of the Council of Standards Australia on 9 May 1996 and published on 5 October 1996.

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The following interests are represented on Committee ME/5:

Australian Chamber of Commerce and Industry  
Australian Institute of Building  
Bureau of Steel Manufacturers of Australia  
Construction and Mining Equipment Association of Australia  
Crane Industry Council of Australia  
Department of Industrial Affairs, S.A.  
Department of Defence  
Department of Training and Industrial Relations, Qld  
Institution of Engineers of Australia  
Lift Manufacturers Association of Australia  
Metal Trades Industry Association of Australia  
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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand ME/5 Committee on Cranes, to supersede AS 2549—1982, *Cranes—Glossary of terms*. The Standard is a result of a consensus among representatives of the Joint Committee to produce it as an Australian Standard.

This Standard provides an alphabetical listing, with illustrations where appropriate, of terms and definitions used in the AS 1418 series of Standards on the design of cranes (including hoists and winches) and the AS 2550 series of Standards on the safe use of cranes, hoists and winches. It differs from the previous edition of AS 2549 in that some terms have been added including definitions from relevant ISO Standards, some deleted, all have been arranged in alphabetical sequence and some definitions have changed.

Where appropriate, the definitions of NOHSC:1010, The National Standards for Plant, have been used in this Standard.

Originated as AS 2549—1982.  
Second edition 1996.

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## STANDARDS AUSTRALIA

## Australian Standard

## Cranes (including hoists and winches)—Glossary of terms

Terms	Definition
A-frame	<i>see</i> gantry
<b>aerial ladder</b>	An elevating work platform consisting of a single-section or multiple-section extendible ladder.
<b>air hydraulic vehicle hoists</b>	A vehicle hoist in which the ram(s) is (are) sustained by a column of compressed air acting continuously against a column of liquid.
<b>aisle</b>	Space between storage locations or compartments in which the storage crane or appliance operates.
<b>aisle transfer car (or transfer unit)</b>	An appliance or vehicle which normally runs on a rail or rails used for transferring a storing or retrieving appliance from aisle-to-aisle.
<b>air-oil system</b>	A hydraulic hoist system in which the ram is activated by a column filled with air and oil in separate sections.
<b>air-oil tank</b>	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.
<b>all-terrain crane</b>	A mobile crane specifically designed to operate on sealed roads, unimproved natural terrain and disturbed terrain on industrial sites.
<b>anchorage</b>	A system of securing a crane that may otherwise move under forces other than the intended drive system.
<b>anemometer</b>	An instrument for measuring wind speed.
<b>anti-drop plate</b>	A steel plate mounted to the end carriage just above the head of the rail to prevent the crane derailing in the case of wheel or axle failure.
<b>anti-two-block system</b>	A system applied to cranes which warns of or prevents (or both) two-blocking.
<b>articulated boom system</b>	A multi-section boom arranged so that the direction of the longitudinal axes of the boom sections may be altered relative to each other, i.e. the sections are pivoted at their ends.
<b>articulating boom platform</b>	An elevating work platform with two or more hinged boom sections. NOTE: Such relative movement may be effected either manually or by power, i.e. by hydraulic linkage, wire-rope system, or like means.