

AS 2549:2021



STANDARDS
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Cranes, hoists and winches — Glossary of terms

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AS 2549:2021

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Australian Industry Group
Australian Institute for Non-Destructive Testing
Better Regulation Division (Fair Trading, Safework NSW, TestSafe)
Bureau of Steel Manufacturers of Australia
Crane Industry Council of Australia
Department of Regional NSW
Elevating Work Platform Association of Australia
Engineers Australia
National Heavy Vehicle Regulator
Office of Industrial Relations, Qld
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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand ME-005 Committee on Cranes, to supersede AS 2549:1996, *Cranes (including hoists and winches) — Glossary of terms*.

This document provides an alphabetical listing, with illustrations where appropriate, of terms and definitions used in the AS 1418 series of Standards on cranes, 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 terms and definitions that were added from the relevant ISO Standards (primarily the ISO 4306 series) have been deleted and the ISO standard is referenced directly. This has been done in order to achieve compatibility and consistency with international standards that are increasingly being adopted as part of the suite of crane standards.

NOTE Some of these definitions may differ from state or territory OH&S regulatory definitions and should not be relied on for those purposes.

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Australian Standard®

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1 Scope

This document defines terms used in the AS 1418 series of Standards on cranes, including hoists and winches and the AS 2550 series of Standards on the safe use of cranes, hoists and winches.

ISO 4306 defines the terms commonly used in tower cranes, mobile cranes, jib cranes, loader cranes (vehicle loading cranes) and bridge and gantry cranes. This document defines terms commonly used in other fields covered by the other parts of AS 1418.

Terms that are already contained in ISO 4306 and share a common definition for AS 1418 series and AS 2550 series are not duplicated in this document. Where common terms exist, ISO 4306 is cited in the AS 2549 definition. The terms in ISO 4306 shall be taken as normative. The note is intended as an aid to the reader where the full definition can be found (ISO 4306). This document defines unique terms used in other fields covered by parts of AS 1418 not replicated in ISO 4306.

This document together with its references establishes a vocabulary of terms used in the field of cranes.

2 Normative references

ISO 4306, *Cranes — Vocabulary* (all parts)

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

A-frame

see *gantry* ([3.181](#))

3.2

aerial ladder

elevating work platform consisting of a single-section or multiple-section extendible ladder

3.3

air hydraulic vehicle hoist

vehicle hoist in which the ram(s) is (are) sustained by a column of compressed air acting continuously against a column of liquid

3.4

aisle

space between storage locations or compartments in which the storage crane or appliance operates

3.5

aisle transfer car

aisle transfer unit

appliance or vehicle which normally runs on a rail or rails used for transferring a storing or retrieving appliance from aisle-to-aisle

3.6

air-oil system

hydraulic hoist system in which the ram is activated by a column filled with air and oil in separate sections

3.7

air-oil tank

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