

Australian/New Zealand Standard™

Safety of machinery

**Part 3611: Conveyors—Belt conveyors
for bulk materials handling**



AS/NZS 4024.3611:2015

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-041, Safety of Machinery to supersede (in part) AS 1755—2000, *Conveyors—Safety requirements*.

The objective of this Standard is to provide guidance and clarity in applying the principles articulated in the AS 4024.1 series of Standards to BMH belt conveyors.

This Standard comprises the safety measures to be implemented for the lifecycle of bulk materials handling (BMH) belt conveyors and conveyor systems, both above ground and underground. This Standard also sets out the necessary risk control measures against hazards experienced by workers and others in the vicinity of such plant.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out minimum lifecycle safety requirements for belt conveyors for bulk materials handling, which are in addition to the general requirements of AS/NZS 4024.3610. It also contains requirements for systems comprising multiple conveyors and is intended to be used by all persons conducting a business or undertaking in relation to belt conveyors for bulk materials handling.

This Standard excludes light duty belt conveyors used for—

- (a) transport of unit loads (e.g. parcels, boxes, cans, containers, luggage, industrial goods of all kinds and foodstuffs—see AS/NZS 4024.3612); and
- (b) bulk materials applications indoors, typically found in chemical, pharmaceutical, cosmetic, food and tobacco industry (see ISO 21183).

1.2 APPLICATION

This Standard specifies additional requirements for belt conveyors for bulk materials handling that supplement and shall be applied in conjunction with the general requirements of AS/NZS 4024.3610. Where this Standard and AS/NZS 4024.3610 cover the same scope, this Standard shall take precedence.

1.3 REFERENCED DOCUMENTS

A list of documents referred to in this standard is given in Appendix D.

1.4 DEFINITIONS

For the purpose of this Standard, the definitions given in AS/NZS 4024.3610 and the following apply.

1.4.1 BMH belt conveyor

A conveyor using a moving belt for conveying bulk materials.

NOTE: BMH refers to 'bulk materials handling'.

1.4.2 Bulk material

Solid particulate materials such as ores, coal, grains, wood-chips, sand, gravel and stone in bulk form. It also applies to the handling of mixed wastes.

1.4.3 Underground (coal) mine

The underground parts of a (coal) mine.