



## **Safety of machinery**

### **Part 3406: Safety of packaging machines—Pallet wrapping machines**

This Australia Standard is the identical adoption of EN 415-6:2013, Safety of packaging machines — Part 6: Pallet wrapping machines, with the permission of the European Committee for Standardization (CEN), Avenue Marnix 17, B-1000 Brussels, Belgium

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## Preface

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee SF-041, Safety of Machinery.

The objective of this Standard is to specify the safety requirements for machine design, construction, installation, commissioning, operation, adjustment, maintenance and cleaning of pallet wrapping machines. This applies to the following groups of machines:

- (a) Pallet banding machines.
- (b) Stretch film pallet wrapping machines.
- (c) Stretch film hood application machines.
- (d) Mobile stretch film wrapping machines.
- (e) Semi-automatic self-driving stretch film wrapping machines.
- (f) Shrink film pallet wrapping machines.
- (g) Shrink film hood application machines.
- (h) Film removing machines.
- (i) Shrinking systems.
- (j) Sleeve wrapping machines for product greater than 400 mm in one direction.
- (k) Product centralising machines.

This Standard is identical with, and has been reproduced from, EN 415-6:2013, *Safety of packaging machines, Part 6: Pallet wrapping machines*.

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- (i) In the source text 'this European Standard' should read 'this Australian Standard'.
- (ii) A full point substitutes for a comma when referring to a decimal marker.

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The terms 'normative' and 'informative' are used in Standards to define the application of the appendices or annexes to which they apply. A 'normative' appendix or annex is an integral part of a Standard, whereas an 'informative' appendix or annex is only for information and guidance.

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## Foreword

This document (EN 415-6:2013) has been prepared by Technical Committee CEN/TC 146 "Packaging Machines Safety", the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2013, and conflicting national standards shall be withdrawn at the latest by November 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 415-6:2006+A1:2009.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

Annex E provides details of significant technical changes between this European Standard and the previous edition: EN 415-6:2006+A1:2009.

EN 415 "Safety of packaging machines" consists of the following parts:

- *Part 1: Terminology and classification of packaging machines and associated equipment*
- *Part 2: Pre-formed rigid container packaging machines*
- *Part 3: Form, fill and seal machines*
- *Part 4: Palletisers and depalletisers*
- *Part 5: Wrapping machines*
- *Part 6: Pallet wrapping machines*
- *Part 7: Group and secondary packaging machines*
- *Part 8: Crating machines*
- *Part 9: Noise measurement methods for packaging machines, packaging lines and associated equipment, grades of accuracy 2 and 3*

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## Introduction

Pallet wrapping machines are used extensively in Europe, in an increasingly wide range of industries. They contain several significant hazards and have the potential to cause serious injury.

Pallet wrapping machines fulfil the following major tasks:

- securing of palletised or unpalletised loads to prevent them collapsing and displacing during transport, handling, storage;
- pooling of loads and parts to form loads suitable for transport;
- protection against external influences;
- conditional protection against theft.

This document is a type C standard as defined in the Introduction of EN ISO 12100:2010.

The machinery concerned and the extent to which hazards, hazardous situations and events are covered are indicated in the scope of this standard.

When provisions of this type C standard are different from those, which are stated in type A or B standards, the provisions of this type C standard take precedence.

## 1 Scope

This European Standard applies to the following groups of machines:

- pallet banding machines;
- stretch film pallet wrapping machines;
- stretch film hood application machines;
- mobile stretch film wrapping machines;
- semi automatic self driving stretch film wrapping machines;
- shrink film pallet wrapping machines;
- shrink film hood application machines;
- film removing machines;
- shrinking systems;
- sleeve wrapping machines for product greater than 400 mm in one direction;
- product centralising machines.

The individual machines are described in 3.2.

This standard deals with safety requirements for machine design, construction, installation, commissioning, operation, adjustment, maintenance and cleaning of pallet wrapping machines.

The extents to which hazards, hazardous situations and events are covered are indicated in Clause 4.

### Exclusions

This European Standard is not applicable to the following machines:

- machines that were manufactured before the date of publication of this document by CEN;
- pallet strapping machines and destrapping machines. These machines are within the scope of EN 415-8;
- conveying systems that connect packaging machines with each other, but includes conveying systems that are part of the machines.

This standard does not consider the following hazards:

- the use of pallet wrapping machines in potentially explosive atmospheres;
- the health, safety or hygiene hazards associated with the products that may be handled by the machines, but does include general advice on this subject;
- hazards that may be associated with electromagnetic emissions from pallet wrapping machines;
- hazards that may be associated with decommissioning pallet wrapping machines.