



Safety of machinery

Part 3410: Safety of packaging machines—General Requirements

This Australian Standard is the identical adoption of EN 415-10:2014, Safety of packaging machines — Part 10: General Requirements, with the permission of the European Committee for Standardization - CEN, Avenue Marnix 17, B-1000 Brussels, Belgium.



AS 4024.3410:2018

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Part 3410: Safety of packaging machines—General Requirements

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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 general requirements for packaging machines which are defined in the scope of AS 4024.3401 or are in the scope of another relevant machine-specific part of AS 4024 series. When used together with a relevant machine-specific part of the AS 4024 series, it gives the requirements for that specific type of machine.

This Standard is identical with, and has been reproduced from, EN 415-10:2014, *Safety of packaging machines, Part 10: General Requirements*.

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- (b) 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.

Contents

	Page
Foreword.....	5
Introduction	6
1 Scope	7
2 Normative references	7
3 Terms and definitions	10
4 List of significant hazards	11
4.1 General.....	11
4.2 Mechanical hazards	12
4.2.1 Moving parts.....	12
4.2.2 Slip, trip and fall hazards	12
4.2.3 Loss of stability.....	12
4.2.4 Hazards from guards.....	12
4.3 Pneumatic and hydraulic equipment.....	12
4.4 Hazards from electrical equipment.....	13
4.5 Hazards from electrostatic phenomena	13
4.6 Thermal hazards	13
4.6.1 Hot Surfaces.....	13
4.6.2 Cold surfaces	13
4.7 Noise	13
4.8 Radiation.....	13
4.9 Hazards from products and materials	14
4.9.1 Hazards generated by products	14
4.9.2 Hazards generated by packaging materials	14
4.10 Hazards due to neglecting ergonomic principles	15
4.11 Hazards due to neglecting hygienic design principles.....	15
4.12 Hazards caused by failures	15
4.12.1 General.....	15
4.12.2 Failure of power supplies	15
4.12.3 Failure of safety related parts of control systems	16
4.12.4 Failure of electronic drive systems.....	16
4.13 Hazards caused by the presence of stored energy.....	16
4.14 Hazards due to remote diagnostics or control.....	16
4.15 Reasonably foreseeable misuse	16
4.16 Hazards from specific elements or processes of packaging machines	17
4.16.1 Cutting devices	17
4.16.2 Sealing devices	17
4.16.3 Film reel unwind mechanisms.....	18
4.16.4 Conveyors	18
4.16.5 Gears and hand-wheels.....	20
4.16.6 Size or product changing.....	20
4.16.7 Hot melt adhesive equipment.....	21
4.16.8 Modified atmosphere packaging.....	21
5 Safety requirements and/or protective measures	21
5.1 General.....	21
5.2 Requirements to minimize mechanical risks	22
5.2.1 Protective measures against risks from moving parts.....	22
5.2.2 Requirements to prevent slip, trip and fall hazards	52
5.2.3 Stability of machines	52

5.2.4	Prevention of hazards from movable guards	53
5.3	Supply disconnecting (isolating) device.....	53
5.4	Pneumatic and hydraulic equipment.....	53
5.5	Electrical equipment	54
5.5.1	General	54
5.5.2	Protection against electric shock	54
5.5.3	Degree of protection	54
5.6	Electrostatic phenomena.....	54
5.7	Thermal hazards	55
5.7.1	Hot surfaces	55
5.7.2	Cold surfaces	55
5.8	Noise reduction	55
5.9	Radiation	56
5.9.1	General	56
5.9.2	Laser radiation.....	56
5.10	Measures to control hazards generated by products, substances and materials	57
5.10.1	Measures to control hazards generated by substances	57
5.10.2	Measures to control hazards generated by products.....	57
5.10.3	Measures to control hazards generated by packaging materials	59
5.11	Ergonomic design principles	60
5.11.1	Operating the machine.....	60
5.11.2	Operator interface and machine mounted control devices	60
5.11.3	Handling machine parts.....	60
5.11.4	Loading packaging materials	60
5.11.5	Loading products or unloading packages.....	61
5.11.6	Size or product changes.....	61
5.11.7	Cleaning the machine	61
5.11.8	Maintenance.....	61
5.11.9	Moving the machine	61
5.11.10	Lighting.....	62
5.12	Hygienic design requirements	62
5.13	Failures of power supplies	62
5.14	Control functions.....	63
5.14.1	General	63
5.14.2	Normal stop.....	63
5.14.3	Safety related stop functions	63
5.14.4	Operational stop	63
5.14.5	Emergency stop and emergency switching off.....	63
5.14.6	Safety related stops for variable speed electrical power drive systems	64
5.14.7	Stopping time	65
5.15	Failures of safety related parts of control systems	65
5.16	Prevention of unexpected start up	65
5.16.1	General	65
5.16.2	Requirements for machines where whole body access is possible	65
5.16.3	Operations with open guards.....	66
5.17	Stored energy	67
5.18	Requirements for remote diagnostics or control.....	67
5.19	Reasonably foreseeable misuse	68
5.20	Requirements for specific elements or processes of packaging machines	68
5.20.1	Cutting devices.....	68
5.20.2	Sealing devices.....	69
5.20.3	Film reel unwind mechanisms	69
5.20.4	Conveyors	69
5.20.5	Handles and hand-wheels	72
5.20.6	Size or product changing	72
5.20.7	Hot melt adhesive equipment	73
5.20.8	Modified atmosphere packaging	74
6	Verification of safety requirements and measures	74

6.1	General.....	74
6.2	Visual inspections with the machine stopped.....	75
6.2.1	Mechanical parts.....	75
6.2.2	Pneumatic systems.....	75
6.2.3	Hydraulic systems.....	75
6.2.4	Electrical systems.....	75
6.2.5	Guards.....	75
6.2.6	Design requirements.....	75
6.2.7	Marking and warning signs.....	75
6.3	Measurements with the machine stopped.....	75
6.3.1	Guards.....	75
6.3.2	Electrical testing.....	75
6.4	Visual inspections with the machine running.....	76
6.4.1	Guards.....	76
6.4.2	Safety related functions.....	76
6.4.3	Dissipation of stored energy.....	76
6.5	Measurements or tests with the machine running.....	76
6.5.1	Electrical testing.....	76
6.5.2	Measurement of noise emission.....	76
6.5.3	Temperature.....	76
6.6	Verification procedures.....	76
7	Information.....	78
7.1	General.....	78
7.2	Marking.....	78
7.3	Signals and warning signs.....	78
7.3.1	General.....	78
7.3.2	Prohibition sign “Do not reach in”.....	79
7.3.3	Prohibition sign “No access”.....	79
7.3.4	Warning sign “Hot surface”.....	80
7.3.5	Warning sign “Warning; Low temperature/freezing conditions”.....	80
7.3.6	Warning signs indicating radiation hazards.....	81
7.3.7	Prohibition sign “Access prohibited for persons with implantable medical devices”.....	83
7.4	Instructions.....	83
7.4.1	General.....	83
7.4.2	All packaging machines.....	84
7.4.3	Machines for use with foodstuffs or pharmaceuticals.....	85
7.4.4	Machines for handling hazardous products.....	85
7.4.5	Machines with hot or cold surfaces.....	85
7.4.6	Machines incorporating hot melt and other adhesive systems.....	85
7.4.7	Information on stability of the machine.....	85
7.4.8	Machines incorporating lifting equipment.....	86
7.4.9	Assemblies of machines.....	86
	Annex A (informative) Evaluation of energy or force.....	87
	Annex B (informative) Maximum values for inherently safe design.....	88
	Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC.....	89
	Bibliography.....	92

Foreword

This document (EN 415-10:2014) 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 July 2014, and conflicting national standards shall be withdrawn at the latest by July 2014.

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 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.

This standard is part of a series of standards comprising the following parts:

- EN 415-1, *Packaging machines safety — Part 1: Terminology and classification of packaging machines and associated equipment*;
- EN 415-2, *Packaging machines safety — Part 2: Pre-formed rigid container packaging machines*;
- EN 415-3, *Safety of packaging machines — Part 3: Form, fill and seal machines*;
- EN 415-4, *Safety of packaging machines — Part 4: Palletizers and depalletizers*;
- EN 415-5, *Safety of packaging machines — Part 5: Wrapping machines*;
- EN 415-6, *Safety of packaging machines — Part 6: Pallet wrapping machines*;
- EN 415-7, *Safety of packaging machines — Part 7: Group and secondary packaging machines*;
- EN 415-8, *Safety of packaging machines — Part 8: Strapping machines*;
- EN 415-9, *Safety of packaging machines — Part 9: Noise measurement methods for packaging machines, packaging lines and associated equipment, grade of accuracy 2 and 3*;
- EN 415-10, *Safety of packaging machines — Part 10: General requirements* (the present document).

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

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

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

The requirements of the machine specific parts of EN 415 take precedence over the requirements of EN 415-10. The requirements of the machine specific parts of EN 415 may supplement or modify the corresponding clauses of EN 415-10.

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 gives general requirements for packaging machines which are defined in the scope of EN 415-1 or are in the scope of another relevant machine specific part of EN 415. When used together with a relevant machine specific part of EN 415, it gives the requirements for that specific type of machine.

This document deals with safety requirements and their verification for design, construction, installation, commissioning, operation, adjustment, maintenance and cleaning of packaging machines when used as intended and under the conditions of misuse foreseeable by a manufacturer.

The extent to which hazards, hazardous situations and events are covered is indicated in Clause

The hazards on a specific machine can vary depending on its working principle; the type, size and mass of the product; the packaging material; auxiliary equipment attached to the machine and the environment in which the machine is used. If the machine presents hazards that are not dealt with in this standard, the manufacturer should assess these hazards by using the principles detailed in EN ISO 12100:2010. Such deviations or additions are outside the scope of this standard.

Exclusions

This European Standard is not applicable to the following:

- machines that were manufactured before the date of publication of this document by CEN.

This standard does not consider the following:

- the risk resulting from the use of machines in public accessed areas.

NOTE For machines used in public accessed areas different or additional requirements can apply. It is the responsibility of the manufacturer to identify such additional risks, which are outside the scope of this standard or such deviating risks which arise from this specific use, and provide suitable protective measures in accordance with EN ISO 12100.

- the use of packaging machines in potentially explosive atmospheres;
- specific 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 decommissioning packaging machines.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 349, *Safety of machinery - Minimum gaps to avoid crushing of parts of the human body*

EN 415-1, *Packaging machines safety - Part 1: Terminology and classification of packaging machines and associated equipment*

EN 415-9, *Safety of packaging machines - Part 9: Noise measurement methods for packaging machines, packaging lines and associated equipment, grade of accuracy 2 and 3*

EN 614-1, *Safety of machinery - Ergonomic design principles - Part 1: Terminology and general principles*