

Irish Standard I.S. EN 415-1:2014

Safety of packaging machines - Part 1: Terminology and classification of packaging machines and associated equipment

© CEN 2014 No copying without NSAI permission except as permitted by copyright law.

I.S. EN 415-1:2014

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWIFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on: EN 415-1:2014

Published: 2014-07-09

This document was published under the authority of the NSAI and comes into effect on:

2014-07-26

ICS number:

01.040.55 55.200

NOTE: If blank see CEN/CENELEC cover page

1 Swift Square,	F +353 1 807 3838	T +353 1 857 6730	
Northwood, Santry	E standards@nsai.ie	F +353 1 857 6729	
Northwood, Santry	E standards@nsai.ie	F +353 1 857 6729	
Dublin 9	W NSALie	W standards.ie	

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online. $I.S.\ EN\ 415-1:2014$

EUROPEAN STANDARD

EN 415-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2014

ICS 01.040.55; 55.200

Supersedes EN 415-1:2000+A1:2009

English Version

Safety of packaging machines - Part 1: Terminology and classification of packaging machines and associated equipment

Sécurité des machines d'emballage - Partie 1: Terminologie et classification des machines d'emballage et de l'équipement associé Sicherheit von Verpackungsmaschinen - Teil 1: Terminologie und Klassifikation von Verpackungsmaschinen und zugehörigen Ausrüstungen

This European Standard was approved by CEN on 4 January 2014.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Ref. No. EN 415-1:2014 E

Contents

Forewo	ord	3
Introdu	uction	4
1	Scope	5
2	Normative references	5
3 3.1 3.2	Terms and definitions Filling machines Closing machines	6
3.3 3.4	Labelling, decorating and coding machines Cleaning, sterilising, cooling and drying machines	11
3.5 3.6	Fill and seal machines Inspection machines	15
3.7 3.8	Container and packaging component handling machines Form, fill and seal machines	18
3.9 3.10	Carton erecting, carton closing and cartoning machines Wrapping machines	21
3.10 3.11 3.12	Group or secondary packaging machines	25
3.13	Palletizers, depalletizers and ancillary equipment Pallet wrapping machines	29
3.14 3.15	Strapping machines Terms used in this standard and other parts of EN 415	
Annex	A (normative) Safety requirements for packaging machines	40
Annex	B (informative) Packaging machine names in English, French, German and Italian	48
Annex	C (informative) New Machines and Definitions	62
Annex	ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC	63

Foreword

This document (EN 415-1:2014) 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 January 2015 and conflicting national standards shall be withdrawn at the latest by January 2015.

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 415-1:2000+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 Directives, see informative Annex ZA, which is an integral part of this document.

This part 1 of EN 415, *Safety of packaging machines* belongs to a series of documents, the other parts of which are the following:

- 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: Strapping machines
- Part 9: Noise measurement methods for packaging machines, packaging lines and associated equipment, grade of accuracy 2 and 3
- Part 10: General requirements

Standards for packaging machines

The appropriate standard to find safety requirements for a particular packaging machine defined in Clause 3, is indicated in Annex A of this standard.

NOTE In most cases the safety requirements will be found in another part of EN 415, however for a few machines the safety requirements will be found in another type of standard .

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 many hazards and have the potential to cause serious injury.

There are an enormous variety of packaging machines, but hitherto there has been no internationally agreed nomenclature. This has led to confusion when reporting accidents and interpreting accident and trade statistics. The purpose of this standard is to name and define each group of packaging machines uniquely. In most cases, these names will already be in common use, however in some cases the commonly used name is ambiguous, a trade name, or used to describe more than one significantly different type of machine. In these cases, a less familiar name will be defined. The identification of specific types of packaging machines and their definition assists in the correct application of the EN 415 series of standards and other standards that may be relevant for packaging machines. Machine designers, manufacturers, suppliers, importers, users, enforcing authorities and other interested bodies are encouraged to use the nomenclature in this type "C" standard to improve communication and to avoid confusion, particularly when reporting accidents and preparing the documentation required by EU Directives.

1 Scope

This European Standard defines the field of packaging machines. The machines defined fall within the following general groups:

- filling machines;
- closing machines;
- labelling, decorating and coding machines;
- cleaning, sterilizing, cooling and drying machines;
- fill and seal machines;
- inspection machines;
- container and packaging component handling machines;
- form, fill and seal machines;
- carton erecting, carton closing and cartoning machines;
- wrapping machines;
- group or secondary packaging machines;
- palletizers, depalletizers and ancillary equipment;
- pallet wrapping machines;
- strapping machines.

This part of EN 415 indicates the relevant machine specific part of EN 415, or another relevant standard, where safety requirements for dealing with the hazards associated with these machines can be found.

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 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, Safetyof packaging machines — Part 4: Palletisers and depalletisers

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



This is a free preview. Purchase the entire publication at the link below:

Product Page

S Looking for additional Standards? Visit Intertek Inform Infostore

> Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation