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**BS EN 415-10:2014**



**BSI Standards Publication**

# **Safety of packaging machines**

## Part 10: General Requirements

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The UK participation in its preparation was entrusted to Technical Committee MCE/3/3, Packaging machines.

A list of organizations represented on this committee can be obtained on request to its secretary.

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## Safety of packaging machines - Part 10: General Requirements

Sécurité des machines d'emballage - Partie 10:  
Prescriptions générales

Sicherheit von Verpackungsmaschinen - Teil 10:  
Allgemeine Anforderungen

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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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## 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of an identical text or by endorsement, at the latest by July 2014, and conflicting national standards shall be withdrawn at the latest by July 2014.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.

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## **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.



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## 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 4.

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*