



**NSAI**  
Standards

Irish Standard  
I.S. EN 12012-2:2001+A2:2008

# Plastics and rubber machines - Size reduction machines - Part 2: Safety requirements for strand pelletisers

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## I.S. EN 12012-2:2001+A2:2008

*Incorporating amendments/corrigenda issued since publication:*

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## **Plastics and rubber machines - Size reduction machines - Part 2: Safety requirements for strand pelletisers**

Machines pour les matières plastiques et le caoutchouc -  
Machines à fragmenter - Partie 2: Prescriptions de sécurité  
relatives aux granulateurs à joncs

Kunststoff- und Gummimaschinen -  
Zerkleinerungsmaschinen - Teil 2:  
Sicherheitsanforderungen an Stranggranulatoren

This European Standard was approved by CEN on 10 May 2001 and includes Amendment 1 approved by CEN on 14 November 2003 and Amendment 2 approved by CEN on 8 June 2008.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.







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## Foreword

This document (EN 12012-2:2001+A2:2008) has been prepared by Technical Committee CEN/TC 145 "Plastics and rubber machines", 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of an identical text or by endorsement, at the latest by March 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.

This document includes Amendment 1 approved by CEN on 2003-11-14 and Amendment 2 approved by CEN on 2008-06-08. The main changes compared to Amendment 1 are:

- modification of the main element of the title.
- editorial modification of Annex ZA.
- addition of Annex ZB.
- editorial changes of EN 292-1:1991 to EN ISO 12100-1:2003 and of EN 292-2:1991 to EN ISO 12100-2:2003 in the following clauses and sub-clauses: 2, 5, Table 1, 7.1.1, Annex A, A.3.1.
- minor changes of Foreword, sub-clause: 7.2, second and third indents, Annex A, A.7, third indent.

This document supersedes EN 12012-2:2001.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1** and **A2** **A2**.

This European Standard 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).

**A2** For relationship with EU Directive(s), see informative Annexes ZA and ZB, which are integral parts of this document. **A2**

This is the second in a series of standards on the safety of size reduction machines.

- Part 1 deals with blade granulators;
- Part 3 deals with shredders.

Annex A is normative.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

## Introduction

This document is a type C standard as stated in EN 1070.

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

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 over the provisions of the other standards, for machines that have been designed and built according to the provisions of this type C standard.

## 1 Scope

**A1** This standard specifies the essential safety requirements applicable to the design and construction of strand pelletisers used for plastics and rubber and fed continuously by an extruder or a reactor.

The machine begins with the feed opening of the feeding device, or start-up devices if fitted, and ends with the discharge area.

Only the significant hazards listed in clause 4 and dealt with in clause 5 are subject to this standard.

**NOTE** Directive 94/9/EC concerning equipment and protective systems intended for use in potentially explosive atmospheres can be applicable to the type of machine or equipment covered by this European Standard. The present standard is not intended to provide means of complying with the essential health and safety requirements of Directive 94/9/EC.

This standard applies to machines which are manufactured after the date of approval of this standard by CEN. **A1**

## 2 Normative references

This European standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references subsequent amendments to or revisions of any of these publications apply to this European standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

**A2** *deleted text* **A2**

EN 294:1992, *Safety of Machinery - Safety distances to prevent danger zones being reached by the upper limbs*

EN 418:1992, *Safety of Machinery - Emergency stop equipment, functional aspects - Principles for design*

EN 563:1994, *Safety of Machinery - Temperatures of touchable surfaces - Ergonomics data to establish temperature limit values for hot surfaces*

EN 953:1997, *Safety of Machinery – Guards - General requirements for the design and construction of fixed and movable guards*

EN 954-1:1996, *Safety of Machinery - Safety related parts of control systems - Part 1: General principles for design*

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