



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 1034-4:2006**

ICS 85.100

**SAFETY OF MACHINERY - SAFETY  
REQUIREMENTS FOR THE DESIGN AND  
CONSTRUCTION OF PAPER MAKING AND  
FINISHING MACHINES - PART 4: PULPERS  
AND THEIR LOADING FACILITIES**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 1034-4**

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English Version

**Safety of machinery - Safety requirements for the design and  
construction of paper making and finishing machines - Part 4:  
Pulpers and their loading facilities**

Sécurité des machines - Prescriptions de sécurité pour la  
conception et la construction de machines de fabrication et  
de finition du papier - Partie 4: Tritureurs et leurs  
dispositifs d'alimentation

Sicherheit von Maschinen - Sicherheitstechnische  
Anforderungen an Konstruktion und Bau von Maschinen  
der Papierherstellung und Ausrüstung - Teil 4: Stofflöser  
und deren Beschickungseinrichtungen

This European Standard was approved by CEN on 20 October 2005.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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## **Foreword**

This European Standard (EN 1034-4:2005) has been prepared by Technical Committee CEN/TC 198 "Printing and paper machinery - Safety", the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by May 2006, and conflicting national standards shall be withdrawn at the latest by May 2006.

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.

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

## EN 1034-4:2005 (E)

# Introduction

This European Standard is a type C standard as stated in EN ISO 12100-1.

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

For machines that have been designed and built according to the provisions of this type C standard, the following stipulation applies: when provisions of this type C standard are different from those which are stated in type A or B standards or from provisions made in EN 1034-1:2000, the provisions of this type C standard take precedence over the provisions of the other standards.

## 1 Scope

This European Standard applies to pulpers and their loading facilities intended for use in paper making and shall be used together with EN 1034-1:2000. It deals with all significant hazards, hazardous situations and hazard events relevant to pulpers and their loading facilities, when they are used as intended and under the conditions foreseen by the manufacturer (see clause 4).

This European Standard is not applicable to pulpers and their loading facilities that have been manufactured before the date of publication of this standard.

## 2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

EN 349:1993, *Safety of machinery — Minimum gaps to avoid crushing of parts of the human body*

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

EN 547 (all Parts), *Safety of machinery — Human body measurements*

EN 617:2001, *Continuous handling equipment and systems — Safety and EMC requirements for the storage of bulk goods in silos, bunkers, bins and hoppers*

EN 618:2002, *Continuous handling equipment and systems — Safety and EMC requirements for equipment for mechanical handling of bulk materials except stationary belt conveyors*

EN 619:2002, *Continuous handling equipment and systems — Safety and EMC requirements for equipment for mechanical handling of unit loads*

EN 620:2002, *Continuous handling equipment and systems — Safety and EMC requirements for equipment for stationary belt conveyors for bulk materials*

EN 626-1:1994, *Safety of machinery — Reduction of risk to health from hazardous substances emitted by machinery — Part 1: Principles and specifications for machinery manufacturers*

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