



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 1034-14:2006**

ICS 85.100

**SAFETY OF MACHINERY - SAFETY  
REQUIREMENTS FOR THE DESIGN AND  
CONSTRUCTION OF PAPER MAKING AND  
FINISHING MACHINES - PART 14: REEL  
SPLITTER**

National Standards  
Authority of Ireland  
Glasnevin, Dublin 9  
Ireland

Tel: +353 1 807 3800  
Fax: +353 1 807 3838  
<http://www.nsai.ie>

**Sales**  
<http://www.standards.ie>

*This Irish Standard was  
published under the  
authority of the National  
Standards Authority of  
Ireland and comes into  
effect on:*

*February 3, 2006*

**NO COPYING WITHOUT NSAI  
PERMISSION EXCEPT AS  
PERMITTED BY COPYRIGHT  
LAW**

© NSAI 2006

**Price Code**

Údarás um Chaighdeán Náisiúnta na hÉireann



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 1034-14**

November 2005

ICS 85.100

English Version

**Safety of machinery - Safety requirements for the design and  
construction of paper making and finishing machines - Part 14:  
Reel splitter**

Sécurité des machines - Exigences techniques de sécurité  
pour la conception et la construction de machines de  
fabrication et de finition du papier - Partie 14: Cisailles à  
bobine

Sicherheit von Maschinen - Sicherheitstechnische  
Anforderungen an Konstruktion und Bau von Maschinen  
der Papierherstellung und Ausrüstung - Teil 14:  
Rollenspaltmaschinen

This European Standard was approved by CEN on 5 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.

CEN members are the national standards bodies of 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 United Kingdom.



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

**Management Centre: rue de Stassart, 36 B-1050 Brussels**

**Contents**

Page

<b>1</b>	<b>Scope .....</b>	<b>4</b>
<b>2</b>	<b>Normative references .....</b>	<b>4</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>6</b>
<b>4</b>	<b>List of significant hazards.....</b>	<b>7</b>
<b>5</b>	<b>Safety requirements and/or measures .....</b>	<b>8</b>
<b>5.1</b>	<b>General.....</b>	<b>8</b>
<b>5.2</b>	<b>Loading .....</b>	<b>8</b>
<b>5.3</b>	<b>Danger zone of the splitting/cutting device including access to the conveyor belts.....</b>	<b>9</b>
<b>5.4</b>	<b>Reel splitters for pulpers.....</b>	<b>11</b>
<b>5.5</b>	<b>Start-up warning device .....</b>	<b>11</b>
<b>5.6</b>	<b>Emergency stop devices.....</b>	<b>11</b>
<b>5.7</b>	<b>Equipment for make-ready and maintenance .....</b>	<b>11</b>
<b>5.8</b>	<b>Safety measures for cleaning operations.....</b>	<b>12</b>
<b>5.9</b>	<b>Workplaces, access stairs, catwalks, passageways.....</b>	<b>12</b>
<b>5.10</b>	<b>Noise .....</b>	<b>12</b>
<b>5.11</b>	<b>Isolation and energy dissipation, prevention of unexpected start-up .....</b>	<b>12</b>
<b>5.12</b>	<b>Ergonomic aspects .....</b>	<b>12</b>
<b>5.13</b>	<b>Control systems and actuators.....</b>	<b>12</b>
<b>5.14</b>	<b>Integrated lighting .....</b>	<b>13</b>
<b>5.15</b>	<b>Electrical equipment.....</b>	<b>13</b>
<b>5.16</b>	<b>Hydraulic equipment .....</b>	<b>13</b>
<b>5.17</b>	<b>Pneumatic equipment .....</b>	<b>13</b>
<b>6</b>	<b>Verification of safety requirements and/or measures.....</b>	<b>13</b>
<b>7</b>	<b>Information for use.....</b>	<b>13</b>
<b>Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 93/87/EC .....</b>		<b>15</b>

**Figures**

<b>Figure 1 — Example of a reel splitter with conveyor belts and pivoting platform .....</b>	<b>6</b>
--	----------

**Tables**

<b>Table 1 — List of significant hazards.....</b>	<b>8</b>
<b>Table 2 — Methods used to verify safety requirements and/or measures .....</b>	<b>13</b>

## **Foreword**

This European Standard (EN 1034-14:2005) 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 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)**.

For relationship with **EU Directive(s)**, see informative Annex **ZA**, which is an integral part of this European 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, 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 1034-14:2005 (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 hazardous 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 C standard, the following stipulation applies: When provisions of this type C standard are different from those which are stated in type 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 reel splitters 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 hazardous events relevant to reel splitters when used as intended and under the conditions reasonably foreseen by the manufacturer as incorrect application (see clause 4).

This European Standard applies only to reel splitters with a movable knife and of the following designs:

- machines with a vertically moving knife pressed downwards from the top onto the reel, generally right to the core so that the layers of wound paper are separated one after the other and fall off;
- machines with a driven and movable circular knife that cuts the wound layers of the horizontal reel successively, beginning from the top down to the core, with the cut layers of wound paper falling off one after the other.

This European Standard also applies to the integrated conveyor belts and the integrated pivoting platform.

This European Standard also covers the guard rails at the interface of the reel splitter and a pulper that is charged with an integrated conveyor belt of the reel splitter.

NOTE Pulpers are dealt with in EN 1034-4.

This European Standard is not applicable to reel splitters which are manufactured before the date of publication of this EN.

## 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*

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

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-