

Irish Standard I.S. EN 1034-21:2012

Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 21: Coating machines

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Safety of machinery - Safety requirements for the design and construction of paper making and finishing machines - Part 21: Coating machines

Sécurité des machines - Prescriptions de sécurité pour la conception et la construction de machines de fabrication et de finition du papier - Partie 21: Coucheuses

Sicherheit von Maschinen - Sicherheitstechnische Anforderungen an Konstruktion und Bau von Maschinen der Papierherstellung und Ausrüstung - Teil 21: Streichmaschinen

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

Management Centre: Avenue Marnix 17, B-1000 Brussels

EN 1034-21:2012 (E)

Cor	Contents		
Forev	word	4	
Intro	duction	6	
1	Scope	7	
2	Normative references	7	
3	Terms and definitions	9	
4	List of significant hazards	14	
5	Safety requirements and/or measures	16	
5.1	General	16	
5.2	Workplaces, means of access, walkways, passageways	16	
5.3	Start-up warning device	17	
5.4	Emergency stop device and braking system	17	
5.5	Isolation and energy dissipation, prevention of unexpected start-up	18	
5.6	Electric drive system and power transmission elements		
5.7	Control system and actuators		
5.8	Electrical equipment		
5.9	Hydraulic equipment	21	
5.10	Pneumatic equipment	22	
5.11	Equipment and measures for make-ready, maintenance and lubrication	22	
5.12	Machine equipment for cleaning and removal of broke	22	
5.13	Noise	23	
5.14	Hot surfaces	24	
5.15	Integrated lighting	24	
5.16	Ergonomic principles	24	
5.17	Chemical substances	24	
5.18	Fire	25	
5.19	Rolls, pull stacks, outer rolls	25	
5.20	Water jet knives, severing knives, rotary knives	26	
5.21	Machine-specific tools	27	
5.22	Drying cylinders, steam and condensate systems	27	
5.23	Whole body access to confined spaces	27	
5.24	Threading devices	28	
5.25	Unwind	29	
5.26	Coating units	31	
5.27	Smoothing and drying unit with high gloss polished cylinder/chrome cylinder (used in the cast coating method)	32	
5.28	Moistening device		
5.29	Pull stacks	32	

5.30	Flotation dryers	32
5.31	Infrared dryers	33
5.32	Drying sections with steam-heated cylinders	34
5.33	Calenders	35
5.34	Conditioning	35
5.35	Measuring device	35
5.36	Drum reeler	36
5.37	Roll handling equipment in the reel up section	39
5.38	Shaftless reeler	39
5.39	Reeler with winding shaft	40
5.40	Integrated pulpers and their loading facilities	41
5.41	Integrated sheeter	41
6	Verification of safety requirements and/or measures	41
7	Information for use	42
7.1	General information	42
7.2	Instruction handbook	42
7.3	Marking	44
Annex	x ZA (informative) Relationship between this European Standard and the Essential	46
Diblic	Requirements of EU Directive 2006/42/ECgraphy	
DIDIIO	graphy	41
Figure	es es es estados estad	
Figure	1 — Example of a coating machine	10
Fig. 190	2. Everyla of a costing machine with four costing costions	44
rigure	2 — Example of a coating machine with four coating sections	
Figure	3 — Example of a S-type pull group	12
Figure	4 — Safety distance ≥ 2,70 m on drum reeler	36
Figure	5 — Safety distance ≥ 500 mm to prevent crushing by reels behind the drum reeler	38
Tables	s	
Table	1 — List of significant hazards	14
Table	2 — List of safety functions, Performance Level and Safety Integrity Level specified in this standard	20
Table	3 — Methods used to verify safety requirements and/or measures	42

EN 1034-21:2012 (E)

Foreword

This document (EN 1034-21:2012) 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 February 2013, and conflicting national standards shall be withdrawn at the latest by February 2013.

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.

EN 1034, Safety of machinery — Safety requirements for the design and construction of paper making and finishing machines consists of the following parts:

- Part 1: Common requirements
- Part 2: Barking drums
- Part 3: Rereelers and winders
- Part 4: Pulpers and their loading facilities
- Part 5: Sheeters
- Part 6: Calender
- Part 7: Chests
- Part 8: Refining plants
- Part 13: Machines for de-wiring bales and units
- Part 14: Reel splitter
- Part 16: Paper and board making machines
- Part 17: Tissue making machines
- Part 21: Coating machines (the present document)
- Part 22: Wood grinders
- Part 26: Roll packaging machines
- Part 27: Roll handling systems

According to the CEN/CENELEC Internal Regulations, the national standards organisations 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,

EN 1034-21:2012 (E)

Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 1034-21:2012 (E)

Introduction

This document is a type C standard as stated in EN ISO 12100:2010. The machinery concerned and the extent to which hazards, hazardous situations and events are covered are indicated in the scope of this document. For machines that have been designed and built according to the provisions of this C standard, the following stipulation applies: where 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+A1:2010, the provisions of this type C standard take precedence over the provisions of the other standards.

1 Scope

This European Standard applies to coating machines applying the wet process for off-line coating of base paper including unwind unit, coating units, drying section, flotation and infrared dryer, smoothing unit, integrated calender, measuring device, reel-up, integrated sheeter, drives and control system and applies together with EN 1034-1:2000+A1:2010. It deals with all significant hazards, hazardous situations and hazard events relevant to coating machines, when used as intended and under the conditions foreseen by the manufacturer (see Clause 4).

This document does not deal with pressure hazards in steam-heated drying cylinders.

NOTE Directive 97/23/EC gives essential safety requirements for equipment under pressure.

This document does not apply to:

- paper and board making machines,
- equipment for the treatment of coating substances,
- coating machines using solvent-based colours,
- coating machines applying silicon, adhesives or resin onto the paper web,
- printing and varnishing machines,
- integrated conveyors and cranes designed for transporting reels/shells (reel spools) and for machine maintenance.
- integrated fire extinguishing equipment.

This document is not applicable to coating machines which are manufactured before the date of publication as an EN.

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 349:1993+A1:2008, Safety of machinery — Minimum gaps to avoid crushing of parts of the human body

EN 547-1:1996+A1:2008, Safety of machinery — Human body measurements — Part 1: Principles for determining the dimensions required for openings for whole body access into machinery

EN 574:1996+A1:2008, Safety of machinery — Two-hand control devices — Functional aspects — Principles for design

EN 614-1:2006+A1:2009, Safety of machinery — Ergonomic design principles — Part 1: Terminology and general principles

EN 614-2:2000+A1:2008, Safety of machinery — Ergonomic design principles — Part 2: Interaction between the design of machinery and work tasks

EN 626-1:1994+A1:2008, Safety of machinery — Reduction of risks to health from hazardous substances emitted by machinery — Part 1: Principles and specifications for machinery manufacturers

EN 746-1:1997+A1:2009, Industrial thermoprocessing equipment — Part 1: Common safety requirements for industrial thermoprocessing equipment



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