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Irish Standard
I.S. EN 1870-10:2013

Safety of woodworking machines - Circular sawing machines - Part 10: Single blade automatic and semi-automatic up-cutting cross-cut sawing machines

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 1870-10

May 2013

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Supersedes EN 1870-10:2003+A1:2009

English Version

Safety of woodworking machines - Circular sawing machines - Part 10: Single blade automatic and semi-automatic up-cutting cross-cut sawing machines

Sécurité des machines pour le travail du bois - Machines à scies circulaires - Partie 10: Tronçonneuses monolames automatiques et semi-automatiques à coupe ascendante

Sicherheit von Holzbearbeitungsmaschinen - Kreissägemaschinen - Teil 10: Von unten schneidende automatische und halbautomatische Kappsägemaschinen mit einem Sägeblatt (Untertischkappkreissägemaschinen)

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Foreword

This document (EN 1870-10:2013) has been prepared by Technical Committee CEN/TC 142 “Woodworking 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of an identical text or by endorsement, at the latest by November 2013, and conflicting national standards shall be withdrawn at the latest by November 2013.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 supersedes EN 1870-10:2003+A1:2009.

The main modifications compared to EN 1870-10:2003+A1:2009 relate to the introduction of performance levels (PL) for control systems.

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 the Machinery Directive.

For relationship with EU Directive, see informative Annex ZA, which is an integral part of this document.

EN 1870, *Safety of woodworking machines — Circular sawing machines* consists of the following parts:

Part 1: *Circular saw benches (with and without sliding table), dimension saws and building site saws*;

Part 3: *Down cutting cross-cut saws and dual purpose down cutting cross-cut saws/circular saw benches;*

Part 4: *Multi blade rip sawing machines with manual loading and/or unloading;*

Part 5: *Circular saw benches/up-cutting cross-cut sawing machines;*

Part 6: *Circular sawing machines for firewood and dual purpose circular sawing machines for firewood/circular saw benches, with manual loading and/or unloading*;

Part 7: *Single blade log sawing machines with integrated feed table and manual loading and/or unloading;*

Part 8: *Single blade edging circular rip sawing machines with power driven saw unit and manual loading and/or unloading;*

Part 9: *Double blade circular sawing machines for cross-cutting with integrated feed and with manual loading and/or unloading;*

Part 10: *Single blade automatic and semi-automatic up-cutting cross-cut sawing machines;*

Part 11: *Semi-automatic and automatic horizontal cross-cut sawing machines with one saw unit (radial arm saws);*

Part 12: *Pendulum cross-cut sawing machines;*

Part 13: *Horizontal beam panel sawing machines;*

Part 14: *Vertical panel sawing machines;*

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Part 15: *Multi blade cross-cut sawing machines with integrated feed of the work piece and manual loading and/or unloading;*

Part 16: *Double mitre sawing machines for V-cutting;*

Part 17: *Manual horizontal cutting cross-cut sawing machines with one saw unit (manual radial arm saws);*

Part 18: *Dimension saws*;

Part 19: *Circular saw benches (with and without sliding table) and building site saws.*

Organisations contributing to the preparation of this European Standard include European Committee of Woodworking Machinery Manufacturers Association "EUMABOIS".

The European Standards produced by CEN/TC 142 are particular to woodworking machines and complement the relevant A and B Standards on the subject of general safety (see introduction of EN ISO 12100:2010 for a description of A, B and C standards).

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, 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

This document has been prepared to be a harmonised standard to provide one means of conforming to the essential safety requirements of the Machinery Directive, and associated EFTA regulations.

This document is a type "C“ standard as defined 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.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this C type standard take precedence over the provisions of other standards, for machines that have been designed and built according to the provisions of this type C standard.

The requirements of this document are directed to manufacturers and their authorised representatives of single blade automatic and semi-automatic up-cutting cross cut sawing machines. It is also useful for designers.

This document also includes information which can be provided by the manufacturer to the user.

Common requirements for tooling are given in EN 847-1:2005+A1:2007.

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1 Scope

This document deals with all significant hazards, hazardous situations and events as listed in Clause 4 which are relevant to stationary and displaceable single blade automatic and semi-automatic up-cutting cross cut sawing machines with one sawing unit herein after referred to as “machines” designed to cut solid wood, chipboard, fibreboard, plywood and also these materials if they are covered with plastic edging and/or plastic/light alloy laminates when they are used as intended and under the conditions foreseen by the manufacturer including reasonably foreseeable misuse.

Machines which are designed to work wood based materials may also be used for working hardened plastic materials with similar physical characteristics as wood.

For the definition of stationary and displaceable machine see 3.2.4 and 3.2.5.

Any work piece positioning equipment fitted to the machine is included in this document.

This document does not apply to machines designed for cross cutting logs.

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

NOTE Machines covered by this document are listed under 1.4 of Annex IV of the Machinery Directive.

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

EN 847-1:2005+A1:2007, *Tools for woodworking — Safety requirements — Part 1: Milling tools, circular saw blades*

EN 894-1:1997+A1:2008, *Safety of machinery — Ergonomics requirements for the design of displays and control actuators — Part 1: General principles for human interactions with displays and control actuators*

EN 894-2:1997+A1:2008, *Safety of machinery — Ergonomics requirements for the design of displays and control actuators — Part 2: Displays*

EN 894-3:2000+A1:2008, *Safety of machinery — Ergonomics requirements for the design of displays and control actuators — Part 3: Control actuators*

EN 1005-1:2001+A1:2008, *Safety of machinery — Human physical performance — Part 1: Terms and definitions*

EN 1005-2:2003+A1:2008, *Safety of machinery — Human physical performance — Part 2: Manual handling of machinery and component parts of machinery*

EN 1005-3:2002+A1:2008, *Safety of machinery — Human physical performance — Part 3: Recommended force limits for machinery operation*

EN 1005-4:2005+A1:2008, *Safety of machinery — Human physical performance — Part 4: Evaluation of working postures and movements in relation to machinery*

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