

Irish Standard I.S. EN 1870-6:2017

Safety of woodworking machines - Circular sawing machines - Part 6: Circular sawing machines for fire wood

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#### I.S. EN 1870-6:2017

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### **National Foreword**

I.S. EN 1870-6:2017 is the adopted Irish version of the European Document EN 1870-6:2017, Safety of woodworking machines - Circular sawing machines - Part 6: Circular sawing machines for fire wood

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# EUROPEAN STANDARD NORME EUROPÉENNE

# EN 1870-6

## **EUROPÄISCHE NORM**

November 2017

ICS 79.120.10

Supersedes EN 1870-6:2002+A1:2009

**English Version** 

# Safety of woodworking machines - Circular sawing machines - Part 6: Circular sawing machines for fire wood

Sécurité des machines à bois - Machines à scies circulaires - Partie 6 : Scies circulaires à bois de chauffage Sicherheit von Holzbearbeitungsmaschinen -Kreissägemaschinen - Teil 6: Brennholzkreissägemaschinen

This European Standard was approved by CEN on 27 February 2017.

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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-CENELEC Management Centre has the same status as the official versions.

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels** 

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### **European foreword**

This document (EN 1870-6:2017) 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of an identical text or by endorsement, at the latest by May 2018, and conflicting national standards shall be withdrawn at the latest by May 2018.

This document supersedes EN 1870-6:2002+A1:2009.

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.

Organizations 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 the Introduction of EN ISO 12100:2010 for a description of A, B and C standards).

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

- Part 3: Down cutting cross-cut saws and dual purpose down cutting cross-cut saws/circular saw benches;
- Part 4: Multiblade rip sawing machines with manual loading and/or unloading;
- Part 5: Circular sawbenches/up-cutting cross-cut sawing machines;
- Part 6: Circular sawing machines for fire wood;
- 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 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;

- Part 15: Multi-blade cross-cut sawing machines with integrated feed of the workpiece 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 (radial arm saws);
- Part 18: Dimension saws;
- Part 19: Circular saw benches (with and without sliding table) and building site saws.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

### Introduction

This document has been prepared to be a harmonized 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 European Committee for Standardization (CEN) draws attention to the fact that it is claimed that compliance with this document may involve the use of patents concerning pivoting log carriage given in 5.3.6.1.

CEN takes no position concerning the evidence, validity and scope of this patent right.

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CEN and CENELEC maintain online lists of patents relevant to their standards. Users are encouraged to consult the lists for the most up to date information concerning patents (<u>ftp://ftp.cencenelec.eu/EN/IPR/Patents/IPRdeclaration.pdf</u>).

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 other standards, for machines that have been designed and built in accordance with the requirements of the provisions of this type C standard.

The requirements of this document concern manufacturers and their authorized representatives of circular sawing machines for firewood. It is also useful for designers.

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

Common requirements for tooling are given in EN 847-1:2013.

### 1 Scope

This European Standard deals with all significant hazards, hazardous situations and events as listed in Clause 4 which are relevant to circular sawing machines for firewood with manual loading and/or unloading with hand operated carriage, hereinafter referred to as "machines", designed to cut solid wood when they are used as intended and under the conditions foreseen by the manufacturer including reasonably foreseeable misuse.

This European Standard is not applicable to:

- a) combined circular sawing machines for firewood with additional units, i.e. log splitting units or circular saw bench units;
  - NOTE 1 Circular saw benches are dealt with in EN 1870–19:2013.
  - NOTE 2 Log splitting machines are dealt with in EN 609–1:2017 and EN 609–2:1999+A1:2009.
  - NOTE 3 A draft is under consideration to cover "combined firewood processors".
- b) machines where the saw blade is capable of tilting;
- c) log sawing machines where the saw unit moves to cut the workpiece;
- d) hand-held motor-operated electric tools or any adaptation permitting their use in a different mode, i.e. bench mounting;

NOTE 4 Hand-held motor-operated electric tools and saw benches to form an integrated whole with a hand-held motor-operated electric tools are covered by EN 62841–1:2015 together with EN 60745–2–5:2010.

For RIC engines driven machines hazard of engine electrical starting systems above 24 V are not dealt with in this standard.

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

NOTE 5 Machines covered by this document are listed under 1.1 and/or 1.2 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 614-1:2006+A1:2009, Safety of machinery - Ergonomic design principles - Part 1: Terminology and general principles

EN 847-1:2013, 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



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