



NSAI
Standards

Irish Standard
I.S. EN 1807-1:2013

Safety of woodworking machines - Band sawing machines - Part 1: Table band saws and band re-saws

I.S. EN 1807-1:2013

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

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English Version

Safety of woodworking machines - Band sawing machines - Part 1: Table band saws and band re-saws

Sécurité des machines pour le travail du bois - Machines à
scier à ruban - Partie 1: Scies à table et scies à refendre

Sicherheit von Holzbearbeitungsmaschinen -
Bandsägemaschinen - Teil 1: Tischbandsägemaschinen
und Trennbandsägemaschinen

This European Standard was approved by CEN on 13 January 2013.

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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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Foreword

This document (EN 1807-1:2013) 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of an identical text or by endorsement, at the latest by September 2013, and conflicting national standards shall be withdrawn at the latest by September 2013.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, together with EN 1807-2:2013, supersedes EN 1807:1999+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 the Machinery Directive 2006/42/EC.

For relationship with EU Directive 2006/42/EC, see informative Annex ZA which is an integral part of this document.

The following significant technical changes have been made in this new edition:

- for controls, the requirement of Performance Level according to EN ISO 13849-1 instead of categories according to EN 954-1;
- a more complete clause with set of requirements for "Emission of chips and dust";
- reference to PTO driven machines;
- a better definition of dimensional requirements for trip device and AOPD required for "prevention of access to moving parts";
- the stability test is required not only for displaceable machines but also for stationary machines: if not passed, fixing is required;
- requirement for guard-locking on interlocked movable guards to prevent access to moving parts, when the band saw blade run-down time exceeds 10 s.

EN 1807, *Safety of woodworking machines — Band sawing machines* consists of the following parts:

— *Part 1: Table band saws and band re-saws;*

— *Part 2: Log sawing machines.*

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.

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 type C 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 table band saws and band re-saws. They are also useful for designers.

This document also includes provisions and examples of information to be provided by the manufacturer to the user.

1 Scope

This European Standard deals with all significant hazards, hazardous situations and events as listed in Clause 4 which are relevant to stationary and displaceable table band saws and band re-saws with manual loading and/or unloading, also when mounted to and powered by a motor tractor, hereinafter together referred to as “machines”, designed to cut solid wood, chipboard, fibreboard, plywood, and also these materials 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 designed to cut wood based material may also be used to cut rigid plastic materials with similar characteristics as wood.

This European Standard does not apply to:

- a) Transportable machines, i.e. machines set up on a bench or a table similar to a bench, which are intended to carry out work in a stationary position, capable of being lifted by one person by hand; the bench can also be an integrated part of the machine if it consists of hinged legs which can be extended down;

NOTE 1 Transportable electrically driven machines are covered by the requirements of EN 61029-1:2009 together with EN 61029-2-5:2011.

- b) hand held motor-operated electric tools including any adaptation permitting their use in a different mode, i.e. bench mounting;

NOTE 2 Hand-held motor-operated electric tools are covered by the requirements of EN 60745-1:2009 together with EN 60745-2-20:2009.

- c) log band saws.

NOTE 3 Log sawing machines are covered by EN 1807-2.

This European Standard does not deal with the specific hazards related to thermal engine and P.T.O. equipment that may be fitted to the machine.

This European Standard is not applicable to machines manufactured before the date of its publication as EN.

NOTE 4 Machines covered by this document are listed under 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 614-1:2006+A1:2009, *Safety of machinery — Ergonomic design principles — Part 1: Terminology and general principles*

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*

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