



National Standards Authority of Ireland

STANDARD

I.S. EN 1870-1:1999

ICS 79.120.10

**SAFETY OF WOODWORKING MACHINES -
CIRCULAR SAWING MACHINES - PART 1:
CIRCULAR SAW BENCHES (WITH AND
WITHOUT SLIDING TABLE) AND DIMENSION
SAWS**

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*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on:
October 1, 1999*

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1870-1

June 1999

ICS 79.120.10

English version

**Safety of woodworking machines - Circular sawing machines -
Part 1: Circular saw benches (with and without sliding table) and
dimension saws**

Sécurité des machines pour le travail du bois - Machines à
scies circulaires - Partie 1: Scies circulaires à table de
menuisier (avec ou sans table mobile) et scies au format

Sicherheit von Holzbearbeitungsmaschinen -
Kreissägemaschinen - Teil 1: Tischkreissägemaschinen
(mit und ohne Schiebetisch) und
Formatkreissägemaschinen

This European Standard was approved by CEN on 8 January 1999.

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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 142 "Woodworking machines - Safety", the secretariat of which is held by BSI.

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 December 1999, and conflicting national standards shall be withdrawn at the latest by December 1999.

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 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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

The 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 292-1 : 1991 for a description of A, B and C standards).

0 Introduction

This European standard 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 and is a type "C" standard as defined in EN 292-1 : 1991.

The extent to which hazards are covered is indicated in the scope of this European Standard

The requirements of this European Standard concern designers, manufacturers, suppliers and importers of circular saw benches (with and without sliding table) and dimension saws.

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

Common requirements for tooling are given in EN 847-1 : 1997.

1 Scope

This European Standard specifies the requirements and/or measures to remove the hazards and limit the risks on circular saw benches (with and without sliding table) and dimensions saws, hereinafter referred to as "machines", designed to cut solid wood, chipboard, fibreboard, plywood and also these materials where they are covered with plastic edging and/or plastic/light alloy laminates.

Electrically driven machines excluded by the scope of this European Standard are covered by the requirements of EN 61029-1 : 1995 and prEN 61029-2-1 or by EN 50144 -1 : 1995.

This European Standard covers the hazards relevant to this machine as listed in 4. This European Standard does not cover the hazards related to Electromagnetic Compatibility (EMC) as required by the EMC Directive 89/336/EEC dated 03-05-89.

This European Standard does not apply to :

- hand held woodworking machines or any adaptation permitting their use in a different mode, i.e. bench mounting;
- machines set up on a bench or a table similar to a bench, which is intended to carry out work in a stationary position, capable of being lifted by one person by hand.

This European Standard is primarily directed at machines which are manufactured after the date of issue of this standard.

Circular saw benches and dimension saws can be used for ripping, cross cutting and dimensioning.

NOTE : Machines covered by this European Standard are listed under A.1.1 of Annex IV of the Machinery Directive.

2 Normative references

This European standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 292 - 1 :	1991	Safety of machinery - Basic concepts, general principles for design - Part 1 : Basic terminology and methodology
EN 292 - 2 :	1991	Safety of machinery - Basic concepts, general principles for design - Part 2 : Technical principles and specifications
EN 292-2/A1 :	1995	
EN 294 :	1992	Safety of machinery - Safety distances to prevent danger zones being reached by the upper limbs
EN 847-1 :	1997	Tools for woodworking - Safety requirements - Part 1 : Milling tools and circular sawblades
EN 954-1 :	1996	Safety of machinery - Safety related parts of control systems - Part 1 : General principles for design
EN 982 :	1996	Safety requirements for fluid power systems and their components - Hydraulics
EN 983 :	1996	Safety requirements for fluid power systems and their components - Pneumatics
EN 1088 :	1995	Safety of machinery - Interlocking devices associated with guards - General principles and provisions for design

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