



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 13862:2002

ICS 91.220

FLOOR CUTTING-OFF MACHINES - SAFETY

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel. (01) 807 3800
Tel. (01) 807 3838

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on
December 11, 2001*

**NO COPYING WITHOUT NSAI
PERMISSION EXCEPT AS
PERMITTED BY COPYRIGHT
LAW**

© NSAI 2002

Price Code L

Údarás um Chaighdeán Náisiúnta na hÉireann

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13862

September 2001

ICS 91.220

Supersedes EN 500-5:1995

English version

Floor cutting-off machines - Safety

Machines à scier les sols - Sécurité

Bodentrennschleifmaschinen - Sicherheit

This European Standard was approved by CEN on 25 July 2001.

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 Management Centre 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 Management Centre 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
EUROPAISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents**Page**

Foreword	3
0 Introduction	4
1 Scope.....	4
2 Normative references.....	5
3 Terms and definitions.....	6
3.1 Floor sawing machine	6
3.2 Types of machines.....	6
3.3 Parts of a floor sawing machine	6
3.4 Cutting head	8
3.5 Rated spindle speed	8
3.6 Tool(s).....	8
3.7 Tool flange.....	8
3.8 Tool guard.....	8
3.9 Nominal mass	8
3.10 Maximum operating mass	8
4 List of significant hazards.....	9
5 Safety requirements and/or measures	10
5.1 Mechanical hazards	10
5.2 Electrical hazards.....	14
5.3 Thermal hazards	15
5.4 Exhaust fumes (and gas)	15
5.5 Machines having a hydraulic power transmission.....	15
5.6 Fluid containers.....	16
5.7 Water supply and dust emission	16
5.8 Rotational speed	16
5.9 Noise.....	16
5.10 Maintenance	17
6 Verification of safety requirements and/or measures	17
7 Information for use.....	17
7.1 Marking	17
7.2 Accompanying documents	18
Annex A (normative) Noise test code - Grade 2 of accuracy.....	22
Annex B (normative) Dimensions of the flanges for cutting-off diamond wheels.....	25
Annex C (normative) Strength of the guards - State of the art concerning the characteristics of guards used with cutting-off wheels.....	27
Annex D (normative) Pictograms	31
Annex E (normative) Verification of surface temperature.....	33
Annex ZA (informative) Relationship of this document with EC Directives	34
Bibliography.....	35

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 151 "Construction equipment and building material machines - 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 March 2002, and conflicting national standards shall be withdrawn at the latest by March 2002.

This European Standard replaces EN 500-5:1995.

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 Directives, see informative annex ZA, which is an integral part of this standard.

The annex A is normative and contains "Noise test code - Grade 2 of accuracy", annex B is normative and contains "Dimensions of the flanges for cutting-off diamond wheels", annex C is normative and contains "Strength of guards - State of the art concerning the characteristics of guards used with cutting-off wheels", annex D is normative and contains „Pictograms“, the annex E is normative and contains „Verification of surface temperature“ and the annex ZA is informative and contains „Relationship of this document with EC Directives“.

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.

EN 13862:2001 (E)

0 Introduction

This European standard is a Type C-standard as stated in EN 292.

The machinery concerned and the extent to which hazards are covered are indicated in the scope of this European Standard.

1 Scope

This European Standard applies to self-propelled ride-on¹⁾ and pedestrian controlled floor sawing machines having power feed, manual feed or hand feed (see 3.2) for sawing, grooving and milling floor surfaces made of concrete, asphalt and similar mineral building materials where the main power is supplied by electric or internal combustion prime engine. The power transmission of floor sawing machines is mechanical or hydraulic.

This European Standard deals with all significant hazards pertinent to floor sawing machines, when they are used as intended and under the conditions foreseen by the manufacturer (see clause 4). This European Standard specifies the appropriate technical measures to eliminate or reduce risks arising from the significant hazards.

These machines are designed for use with rotating cutting-off wheels for wet and dry cutting. These cutting-off wheels can be either a diamond cutting-off wheel or a boron nitride cutting-off wheel.

NOTE Other types of cutting tools may also be used provided that they fall within the design and usage parameters of the machine. This standard does not cover this.

This European Standard does not apply to:

- machines moving along a rail;
- hand-held portable cutting off machines for construction materials mounted on a mobile support, to be used as floor saws;
- remote controlled machines.

This European Standard covers electrical hazards by making reference to relevant European Standards (see 5.2).

Those hazards that are relevant for all mechanical, electrical, hydraulic and other equipment or machinery and that are dealt with in standards for common use are not covered by this European Standard. Reference to pertinent standards is made where such standards are applicable and so far necessary.

¹⁾ Specific requirements related to the operator's station and the mobility of ride-on machines will be added later on by an amendment.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-