



NSAI
Standards

Irish Standard
I.S. EN 860:2007+A2:2012

Safety of woodworking machines - One side thickness planing machines

I.S. EN 860:2007+A2:2012

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 860:2007/A2:2012

EN 860:2007/A1:2009

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

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

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWIFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces:

EN 860:2007+A1:2009

This document is based on:

EN 860:2007+A2:2012

EN 860:2007+A1:2009

Published:

4 July, 2012

12 August, 2009

This document was published under the authority of the NSAI and comes into effect on:

4 July, 2012

ICS number:

79.120.10

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English Version

Safety of woodworking machines - One side thickness planing machines

Sécurité des machines pour le travail du bois - Machines à raboter sur une face

Sicherheit von Holzbearbeitungsmaschinen - Dickenhobelmaschinen für einseitige Bearbeitung

This European Standard was approved by CEN on 10 May 2007 and includes Amendment 1 approved by CEN on 16 July 2009 and Amendment 2 approved by CEN on 20 May 2012.

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Contents

Page

Foreword.....	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	8
3.1 General.....	8
3.2 Definitions	8
3.3 Terms	11
4 List of significant hazards	12
5 Safety requirements and/or measures	15
5.1 General.....	15
5.2 Controls	15
5.2.1 Safety and reliability of control systems.....	15
5.2.2 Position of controls	16
5.2.3 Starting	16
5.2.4 Normal stopping	17
5.2.5 Emergency stop	17
5.2.6 Failure of the power supply	18
5.2.7 Failure of the control circuit	18
5.3 Protection against mechanical hazards	19
5.3.1 Stability	19
5.3.2 Hazard of break up during operation.....	19
5.3.3 Cutterblock design	19
5.3.4 Braking.....	19
5.3.5 Devices to minimise the possibility or the effect of ejection	20
5.3.6 Work-piece support and guides	21
5.3.7 Prevention of access to moving parts.....	22
5.3.8 Characteristics of A_2 cutterblock A_2 guards	23
5.4 Protection against non-mechanical hazards	23
5.4.1 Fire	23
5.4.2 Noise	23
5.4.3 Emission of chips and dust.....	24
5.4.4 Electricity	25
5.4.5 Ergonomics and handling.....	26
5.4.6 Pneumatics.....	27
5.4.7 Hydraulics.....	27
5.4.8 Electromagnetic compatibility.....	27
5.4.9 Supply disconnection (isolation)	27
5.4.10 Static electricity	28
5.4.11 Maintenance	28
6 Information for use	28
6.1 General.....	28
6.2 Marking	28
6.3 Instruction handbook	29
Annex A (normative) Kickback test.....	33
Annex B (normative) Stability test for displaceable machines	34
Annex C (normative) Impact test method for guards	35

C.1	General	35
C.2	Test method	35
C.2.1	Preliminary remarks	35
C.2.2	Testing equipment.....	35
C.2.3	Projectile for guards.....	35
C.2.4	Sampling.....	35
C.2.5	Test procedure.....	35
C.3	Results.....	36
C.4	Assessment	36
C.5	Test report.....	36
C.6	Test equipment for impact test	36
Annex D	(normative) Braking tests	40
D.1	Conditions for all tests.....	40
D.2	$\text{\textcircled{A}}_2$ Un-braked $\text{\textcircled{A}}_2$ run-down time	40
D.3	Braked run-down time.....	40
Annex ZA	(informative) $\text{\textcircled{A}}_1$ Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC $\text{\textcircled{A}}_1$	42
Bibliography	46

Foreword

This document (EN 860:2007+A2:2012) 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 December 2012, and conflicting national standards shall be withdrawn at the latest by December 2012.

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 includes Amendment 1, approved by CEN on 2009-07-16 and Amendment 2, approved by CEN on 2012-05-20.

This document supersedes A_2 EN 860:2007+A1:2009 A_2 .

The start and finish of text introduced or altered by amendment is indicated in the text by tags A_1 A_1 and A_2 A_2 .

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.

A_2 For relationship with EU Directive, see informative Annex ZA, which is an integral part of this document. A_2



Organisation contributing to the preparation of the European Standard include the European Association of Manufacturer of Woodworking Machines "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 A_2 EN ISO 12100:2010 A_2 for a description of A, B and C standards).

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, 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 one side thickness planing machines. They are also useful for designers and importers.

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

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

1 Scope

This document ^{A1} specifies all significant ^{A1} hazards, hazardous situations and events as listed in Clause 4, relevant to stationary and displaceable one side thickness planing machines fitted with an integrated feed and with cutterblock fixed in position and manual loading and unloading of the work-piece, hereinafter referred to as "machines", designed to cut solid wood, chipboard, fibreboard and plywood when they are used as intended and under the conditions foreseen by the manufacturer ^{A2} including reasonably foreseeable misuse ^{A2}.

^{A2} Machines which are designed to work wood based materials may also be used for working hardened plastic materials with similar physical characteristics as wood. ^{A2}

This document does not apply to:

- a) 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;

NOTE 1 Transportable motor-operated electric tools are dealt with in ^{A2} EN 61029-1:2009 ^{A2} together with ^{A2} EN 61029-2-3:2011 ^{A2}.

- b) hand held planers or any adaptation permitting their use in a different mode, i.e. bench mounting;

NOTE 2 Hand-held motor-operated electric tools are dealt with in ^{A2} EN 60745-1:2009 ^{A2} together with ^{A2} EN 60745-2-14:2009 ^{A2}.

- c) thickness planing machines where the cutterblock is adjustable for depth of cut setting.

This document is not applicable to one side thickness planing machines fitted with an integrated feed and with cutterblock fixed in position which are manufactured before the date of its publication as EN.

NOTE 3 Machines covered by this European Standard are listed under ^{A2} 3 of Annex IV ^{A2} of the Machinery Directive.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

^{A2} EN 847-1:2005+A1:2007 ^{A2}, *Tools for woodworking — Safety requirements — Part 1: Milling tools, circular saw blades*

^{A2} *deleted text* ^{A2}

^{A2} EN 1005-4:2005+A1:2008 ^{A2}, *Safety of machinery — Human physical performance — Part 4: Evaluation of working postures and movements in relation to machinery*

^{A2} EN 1037:1995+A1:2008 ^{A2}, *Safety of machinery — Prevention of unexpected start-up*

^{A2} EN 1088:1995+A2:2008 ^{A2}, *Safety of machinery — Interlocking devices associated with guards — Principles for design and selection*

EN 50178:1997, *Electronic equipment for use in power installations*

EN 50370-1:2005, *Electromagnetic compatibility (EMC) — Product family standard for machine tools — Part 1: Emission*

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