

Irish Standard I.S. EN 1218-2:2004+A1:2009

Safety of woodworking machines -Tenoning machines - Part 2: Double end tenoning and/or profiling machines fed by chain or chains

© NSAI 2009

No copying without NSAI permission except as permitted by copyright law.

Incorporating amendments/corrigenda issued since publication:
EN 1218-2:2004/A1:2009

This document replaces: I.S. EN 1218-2:20004

This document is based on: EN 1218-2:2004+A1:2009 EN 1218-2:2004 Published: 17 June, 2009 18 August, 2004

This document was published under the authority of the NSAI and comes into effect on: 19 August, 2009

ICS number: 79.120.10

**NSAI** 1 Swift Square,

Dublin 9

Northwood, Santry

T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W **NSAI.ie**  T +353 1 857 6730 F +353 1 857 6729 W standards.ie

Sales:

Price Code:

Údarás um Chaighdeáin Náisiúnta na hÉireann

# **EUROPEAN STANDARD**

EN 1218-2:2004+A1

# NORME EUROPÉENNE EUROPÄISCHE NORM

June 2009

ICS 79.120.10

Supersedes EN 1218-2:2004

#### **English Version**

# Safety of woodworking machines - Tenoning machines - Part 2: Double end tenoning and/or profiling machines fed by chain or chains

Sécurité des machines pour le travail du bois -Tenonneuses - Partie 2: Machines à tenonner et/ou à profiler à chaîne ou chaînes Sicherheit von Holzbearbeitungsmaschinen -Zapfenschneid- und Schlitzmaschinen - Teil 2: Doppelseitige Zapfenschneid- und Schlitzmaschinen und/oder Doppelendprofiler mit Kettenbandvorschub

This European Standard was approved by CEN on 24 March 2004 and includes Corrigendum 1 issued by CEN on 20 December 2006 and Amendment 1 approved by CEN on 21 May 2009.

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 CEN 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, 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 and United Kingdom.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

#### EN 1218-2:2004+A1:2009 (E)

#### **Contents**

page Foreword......4 1 Scope .......6 2 Terms and definitions ......9 3.1 Terms 9 3.2 3.3 A) List of significant hazards 4 Safety requirements and/or measures ......14 5 5.1 5.2 Safety and reliability of control systems......14 5.2.1 5.2.2 5.2.3 5.2.4 5.2.5 5.2.6 5.2.7 5.2.8 5.2.9 Failure of the power supply......19 5.2.10 Protection against mechanical hazards ......19 5.3 5.3.1 5.3.2 Tool holder and tool design......20 5.3.3 5.3.4 5.3.5 5.3.6 Workpiece supports and quides ......23 Prevention of access to moving parts......24 5.3.7 Protection against non-mechanical hazards ......31 5.4 5.4.1 5.4.2 Noise 31 5.4.3 Electricity......33 5.4.4 Ergonomics and handling......33 5.4.5 Lighting......34 5.4.6 Pneumatics.......34 5.4.7 5.4.8 Hydraulics......34 5.4.9 Isolation 35 5.4.13 6 6.1 Warning devices ......35 6.2 6.3 

# EN 1218-2:2004+A1:2009 (E)

Annex A (informative) Examples of safety related control systems	39
Annex B (normative) Tool spindle dimensional tolerances	43
Annex ZA (informative) A Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC 4	45
Annex ZB (informative) A Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC 🔄	46
Bibliography	47

# **Foreword**

This document (EN 1218-2:2004+A1:2009) has been prepared by the 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 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.

This document includes Amendment 1, approved by CEN on 2009-05-21 and Corrigendum 1 issued by CEN on 20 December 2006.

This document supersedes EN 1218-2:2004.

The start and finish of text introduced or altered by amendment is indicated in the text by tags [A] (A)

The modifications of the related CEN Corrigendum have been implemented at the appropriate places in the text and are indicated by the tags  $\mathbb{A}$ :

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 Annexes ZA and ZB, which are integral parts of this document. (A)

A EN 1218, Safety of woodworking machines — Tenoning machines consists of the following parts:

Part 1: Single end tenoning machines with sliding table

Part 2: Double end tenoning and/or profiling machines fed by chain or chains

Part 3: Hand fed tenoning machines with sliding table for cutting structural timbers

Part 4: Edge banding machines fed by chain(s)

Part 5: One side profiling machines with fixed table and feed rollers or fed by chain [4]

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 12100-1:2003 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, 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 and 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 stated in A EN ISO 12100-1:2003 A.

The machinery concerned and the extent to which hazards, hazardous situations and events 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 C type standard take precedence over the provisions of other standards, for machines that have been designed and built in accordance with the provisions of this type C standard.

The requirements of this document are directed to manufacturers and their authorised representatives of double end tenoning and/or profiling machines fed by chain or chains. It is also useful for designers.

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

Common requirements for tooling are given in A EN 847-1:2005 4.

### 1 Scope

This document deals with all the significant hazards, hazardous situations and events as listed in Clause 4 which are relevant to double end tenoning and/or profiling machines fed by chain or chains, hereinafter referred to as the machine, designed to cut solid wood, chipboard, fibreboard or plywood and also these materials where they are covered with plastic laminate or edgings. The workpiece is fed passed the tools by an integrated feed. [A]

#### A<sub>1</sub> deleted text (A<sub>1</sub>

This document does not apply to:

- a) double end tenoning and/or profiling machines fed by chain or chains with a complete enclosure as defined in 3.3.11;
- b) transportable machines.

This document does not deal with any hazards relating to:

- c) mechanical loading of the workpiece to a single machine; or
- d) single machine being used in combination with any other machine (as part of a line); or
- e) use of tools working between the machine halves (see 3.1); or
- f) use of laser.

For Computer Numerically Controlled (CNC) machines this document does not cover hazards related to Electro-Magnetic Compatibility (EMC).

NOTE 1 The requirements of this document apply to all machines whatever their method of control e.g. electromechanical and/or electronic.

This document is primarily directed to machines which are manufactured after the date of publication by CEN.

NOTE 2 Single end tenoning machines with sliding table are dealt with in EN 1218-1:1999. Single end tenoning machines where the tenon is produced only by means of saw blades are dealt with in EN 1218-3. Single end profiling machines fed by chain or chains are dealt with in EN 1218-5.

#### 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.

#### A1) deleted text (A1)

函 EN 614-1:2006, Safety of machinery — Ergonomic design principles — Part 1: Terminology and general principles வ

EN 847-1:2005, Tools for woodworking — Safety requirements — Part 1: Milling tools, circular saw blades 🔄

EN 894-1:1997, 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



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

**Product Page** 

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