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Standards

Irish Standard
I.S. EN ISO 11148-1:2011

Hand-held non-electric power tools - Safety requirements - Part 1: Assembly power tools for non-threaded mechanical fasteners (ISO 11148-1:2011)

I.S. EN ISO 11148-1:2011

Incorporating amendments/corrigenda/National Annexes issued since publication:

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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.

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English Version

**Hand-held non-electric power tools - Safety requirements - Part
1: Assembly power tools for non-threaded mechanical fasteners
(ISO 11148-1:2011)**

Machines portatives à moteur non électrique - Exigences
de sécurité - Partie 1: Machines portatives de pose
d'éléments de fixation non filetés (ISO 11148-1:2011)

Handgehaltene nicht elektrisch betriebene Maschinen -
Sicherheitsanforderungen - Teil 1: Maschinen für
gewindelose mechanische Befestigungen (ISO 11148-
1:2011)

This European Standard was approved by CEN on 12 November 2011.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

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Contents

Page

Foreword.....3

Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC4

Foreword

This document (EN ISO 11148-1:2011) has been prepared by Technical Committee ISO/TC 118 "Compressors and pneumatic tools, machines and equipment" in collaboration with Technical Committee CEN/TC 255 "Hand-held, non-electric power tools - Safety" the secretariat of which is held by SIS.

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 June 2012, and conflicting national standards shall be withdrawn at the latest by June 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 supersedes EN 792-1:2000+A1:2008.

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.

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

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 and the United Kingdom.

Endorsement notice

The text of ISO 11148-1:2011 has been approved by CEN as a EN ISO 11148-1:2011 without any modification.

Annex ZA
(informative)
Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to provide a means of conforming to Essential Requirements of the New Approach Directive 2006/42/EC on machinery.

Once this standard is cited in the Official Journal of the European Union under that Directive and has been implemented as a national standard in at least one Member State, compliance with the clauses of this standard confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive except ER 1.5.7 and associated EFTA regulations.

WARNING — Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.

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**INTERNATIONAL
STANDARD**

**ISO
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**Hand-held non-electric power tools —
Safety requirements —**

Part 1:

**Assembly power tools for non-threaded
mechanical fasteners**

*Machines portatives à moteur non électrique — Exigences de
sécurité —*

Partie 1: Machines portatives de pose d'éléments de fixation non filetés



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Contents

Page

Foreword	iv
Introduction.....	v
1 Scope	1
2 Normative references	2
3 Terms and definitions	2
3.1 General terms and definitions.....	2
3.2 Terms and definitions related to assembly power tools for non-threaded mechanical fasteners.....	4
4 Safety requirements and/or protective measures.....	4
4.1 General	4
4.2 Mechanical safety.....	5
4.3 Thermal safety	5
4.4 Noise reduction	5
4.5 Vibration	6
4.6 Materials and substances processed, used or exhausted.....	6
4.7 Ergonomics	7
4.8 Controls	7
5 Verification	8
5.1 General conditions for the tests	8
5.2 Noise.....	8
5.3 Vibration	8
5.4 Unintentional start.....	8
5.5 Power tool construction	8
5.6 Structure of verification	8
6 Information for use.....	9
6.1 Marking, signs and written warnings	9
6.2 Instruction handbook.....	10
6.3 Operating instructions	14
6.4 Data	14
6.5 Maintenance instructions	15
Annex A (informative) List of significant hazards	16
Annex B (informative) Examples of assembly power tools for non-threaded mechanical fasteners covered by this part of ISO 11148.....	17
Annex C (normative) Symbols for labels and signs.....	18
Bibliography.....	19

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 11148-1 was prepared by Technical Committee ISO/TC 118, *Compressors and pneumatic tools, machines and equipment*, Subcommittee SC 3, *Pneumatic tools and machines*.

ISO 11148 consists of the following parts, under the general title *Hand-held non-electric power tools — Safety requirements*:

- *Part 1: Assembly power tools for non-threaded mechanical fasteners*
- *Part 2: Cutting-off and crimping power tools*
- *Part 3: Drills and tappers*
- *Part 4: Non-rotary percussive power tools*
- *Part 5: Rotary percussive drills*
- *Part 6: Assembly power tools for threaded fasteners*
- *Part 7: Grinders*
- *Part 8: Sanders and polishers*
- *Part 9: Die grinders*
- *Part 10: Compression power tools*
- *Part 11: Nibblers and shears*
- *Part 12: Circular, oscillating and reciprocating saws*

A part 13, dealing with fastener driving tools, is under preparation.

Introduction

This document is a type-C standard as stated in ISO 12100.

The machinery concerned and the extent to which hazards, hazardous situations and events are covered are defined in the Scope of this part of ISO 11148.

When requirements of this type-C standard are different from those which are stated in type-A or -B standards, the requirements of this type-C standard take precedence over the requirements of other standards for machines that have been designed and built according to the requirements of this type-C standard.

ISO 11148 consists of a number of independent parts for individual types of hand-held non-electric power tools.

Certain parts of ISO 11148 cover hand-held non-electric power tools driven by internal combustion engines powered by gaseous or liquid fuel. In these parts, the safety aspects relating to internal combustion engines are found in a normative annex.

The parts are type-C standards and refer to pertinent standards of type A and B where such standards are applicable.

Hand-held non-electric power tools — Safety requirements —

Part 1:

Assembly power tools for non-threaded mechanical fasteners

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1 Scope

This part of ISO 11148 specifies safety requirements for hand-held non-electric power tools (hereinafter “assembly power tools for non-threaded mechanical fasteners”) intended for installation, tightening or removal of both breakstem and non-breakstem rivets, bolts, plugs and fasteners from one side of a workpiece into metals, plastics and other materials. The assembly power tools for non-threaded mechanical fasteners can be powered by compressed air, hydraulic fluid or internal combustion engines and are intended to be used by one operator and supported by the operator's hand or hands, with or without a suspension, e.g. a balancer.

NOTE 1 At the time of publication, no assembly power tools for non-threaded mechanical fasteners driven by internal combustion engines are known. Once these are identified, it is intended to amend this part of ISO 11148 to include such power tools.

This part of ISO 11148 is applicable to:

- breakstem fastener, rivet or plug tools;
- breakstem lockbolt tools;
- mandrel loaded riveting tools;
- rivet nut setters.

NOTE 2 For examples of assembly power tools for non-threaded mechanical fasteners, see Annex B.

This part of ISO 11148 is not applicable to special requirements and modifications of hand-held power tools for the purpose of mounting them in a fixture.

This part of ISO 11148 deals with all significant hazards, hazardous situations or hazardous events relevant to assembly power tools for non-threaded mechanical fasteners when they are used as intended and under conditions of misuse which are reasonably foreseeable by the manufacturer, with the exception of the use of power tools in potentially explosive atmospheres.

NOTE 3 EN 13463-1 gives requirements for non-electrical equipment for potentially explosive atmospheres.

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