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Standards

Irish Standard  
I.S. EN ISO 11148-3:2012

# Hand-held non-electric power tools - Safety requirements - Part 3: Drills and tappers (ISO 11148-3:2012)

## I.S. EN ISO 11148-3:2012

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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**NSAI**  
1 Swift Square,  
Northwood, Santry  
Dublin 9

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

**Sales:**  
T +353 1 857 6730  
F +353 1 857 6729  
W standards.ie

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## Hand-held non-electric power tools - Safety requirements - Part 3: Drills and tappers (ISO 11148-3:2012)

Machines portatives à moteur non électrique - Exigences  
de sécurité - Partie 3: Perceuses et taraudeuses (ISO  
11148-3:2012)

Handgehaltene nicht elektrisch betriebene Maschinen -  
Sicherheitsanforderungen - Teil 3: Bohrmaschinen und  
Gewindeschneider (ISO 11148-3:2012)

This European Standard was approved by CEN on 17 December 2012.

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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Management Centre: Avenue Marnix 17, B-1000 Brussels

## **Contents**

Page

<b>Foreword.....</b>	<b>3</b>
<b>Annex Z A (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC .....</b>	<b>4</b>

## **Foreword**

This document (EN ISO 11148-3:2012) 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 2013, and conflicting national standards shall be withdrawn at the latest by June 2013.

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 ISO 11148-3:2010.

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 Annex ZA, which is an integral part of this document.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, 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.

### **Endorsement notice**

The text of ISO 11148-3:2012 has been approved by CEN as a EN ISO 11148-3:2012 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 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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2012-12-15

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

**Part 3:  
Drills and tappers**

*Machines portatives à moteur non électrique — Exigences de sécurité —  
Partie 3: Perceuses et taraudeuses*



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# Contents

Page

<b>Foreword</b>	<b>iv</b>
<b>Introduction</b>	<b>v</b>
<b>1 Scope</b>	<b>1</b>
<b>2 Normative references</b>	<b>1</b>
<b>3 Terms and definitions</b>	<b>2</b>
3.1 General definitions	2
3.2 Definitions related to drills and tappers	4
<b>4 Safety requirements and/or protective measures</b>	<b>4</b>
4.1 General	4
4.2 Mechanical safety	4
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
<b>5 Verification</b>	<b>8</b>
5.1 General conditions for 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 of safety requirements	9
<b>6 Information for use</b>	<b>9</b>
6.1 Marking, signs and written warnings	9
6.2 Instructions handbook	10
6.3 Operating instructions	15
6.4 Data	15
6.5 Maintenance instructions	16
<b>Annex A (informative) List of significant hazards</b>	<b>17</b>
<b>Annex B (informative) Examples of drills and tappers covered by this part of ISO 11148</b>	<b>19</b>
<b>Annex C (normative) Symbols for labels and signs</b>	<b>21</b>
<b>Annex D (normative) Additional safety requirements related to internal combustion engine power tools</b>	<b>23</b>
<b>Bibliography</b>	<b>27</b>

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

This second edition cancels and replaces the first edition (ISO 11148-3:2010), of which it constitutes a minor revision.

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 provisions of this type C standard are different from those that 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 elements of this part 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 types A and B where such standards are applicable.

**I.S. EN ISO 11148-3:2012**

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

## Part 3: Drills and tappers

**IMPORTANT** — The electronic file of this document contains colours that are considered useful for the correct understanding of the document. Users should consider printing this document using a colour printer. ISO 3864-4 provides colorimetric and photometric properties together with, as a guideline, references from colour order systems.

### 1 Scope

This part of ISO 11148 applies to hand-held non-electric power tools (hereinafter “drills and tappers”) intended for rotary drilling of holes in all kinds of material, e.g. wood, metal, concrete and plastics, or for tapping and cleaning threads in metal and plastics. The drills and tappers can be powered by compressed air, hydraulic fluid or internal combustion engines and are intended for use by one operator and supported by the operator's hand or hands, with or without a suspension, e.g. a balancer.

This part of ISO 11148 is applicable to

- drills;
- heavy duty drills with two handles;
- tappers.

NOTE 1 For examples of drills and tappers, see Annex B.

This part of ISO 11148 is not applicable to special requirements and modifications of drills and tappers for the purpose of mounting them in fixtures.

This part of ISO 11148 deals with all significant hazards, hazardous situations or hazardous events when drills and tappers are used as intended and under conditions of misuse that are reasonably foreseeable by the manufacturer, with the exception of their use in potentially explosive atmospheres.

NOTE 2 EN 13463-1 gives requirements for non-electrical equipment for potentially explosive atmospheres.

### 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.

ISO 3857-3, *Compressors, pneumatic tools and machines — Vocabulary — Part 3: Pneumatic tools and machines*

ISO 3864-2, *Graphical symbols — Safety colours and safety signs — Part 2: Design principles for product safety labels*

ISO 5391, *Pneumatic tools and machines — Vocabulary*

ISO 7000, *Graphical symbols for use on equipment — Registered symbols<sup>1)</sup>*

ISO 9158, *Road vehicles — Nozzle spouts for unleaded gasoline*

<sup>1)</sup> The graphical symbol collections of ISO 7000, ISO 7001 and ISO 7010 are also available online in the ISO web store. For more information, consult [http://www.iso.org/iso/fr/publications\\_and\\_e-products/databases.htm](http://www.iso.org/iso/fr/publications_and_e-products/databases.htm).

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