

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

AMENDMENT 1  
AMENDEMENT 1

**Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety -  
Part 2-16: Particular requirements for hand-held fastener driving tools**

**Outils électroportatifs à moteur, outils portables et machines pour jardins et pelouses - Sécurité -  
Partie 2-16: Exigences particulières pour les machines à enfoncer les fixations portatives**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Electric motor-operated hand-held tools, transportable tools  
and lawn and garden machinery - Safety -  
Part 2-16: Particular requirements for hand-held fastener driving tools**

**AMENDMENT 1**

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Amendment 1 to IEC 62841-2-16:2024 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

The text of this Amendment is based on the following documents:

Draft	Report on voting
116/936/FDIS	116/939/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this Amendment is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications/](http://www.iec.ch/publications/).

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It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 36 months from the date of publication.

A list of all parts of the IEC 62841 series, under the general title: *Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
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## 2 Normative references

Delete the existing reference to EN 15895:2011 and replace it with the following new reference:

EN 15895:2025, *Powder actuated hand-held fixing and hard marking tools - Safety requirements*

## 3 Terms and definitions

Replace the existing Definition 3.105, including the note, with the following:

### 3.105

#### coil nailer

**fastener driving tool** that drives **fasteners** from a collated coil of nails for **production applications**

Note 101 to entry: Roofing nailers are an example of a **coil nailer**.

Note 102 to entry: The primary purpose of this tool is **production applications**.

*Replace the existing Definition 3.108 with the following:*

### **3.108**

#### **heavy duty finish nailer**

**fastener driving tool** capable of driving nails of 1,2 mm (18 gauge) or larger nominal diameter wire

Note 101 to entry: The **fasteners** described here are consistent, except for description, with those described for heavy duty bradders in ISO 11148-13:2017.

Note 102 to entry: These tools are primarily for **production applications**.

*Add, at the end of Definition 3.109, the following new text:*

Note 101 to entry: The **fasteners** described here are consistent, except for description, with those described for **heavy duty staplers** in ISO 11148-13:2017.

Note 102 to entry: These tools are primarily for **production applications**.

*Replace the existing Definition 3.112 with the following:*

### **3.112**

#### **light duty tool**

**fastener driving tool** that is only capable of driving **fasteners** with a diameter of 1,2 mm (18 gauge) or less and where

- the mass of the **fastener** is less than 0,5 g and the length of the **fastener** does not exceed 26 mm; or
- the mass of the **fastener** is less than 0,4 g and the length of the **fastener** does not exceed 36 mm

Note 101 to entry: **Heavy duty finish nailers, heavy duty staplers** and **pinners** are considered not to be **light duty tools**.

*Add, at the end of Clause 3, the following new definitions:*

### **3.120**

#### **production application**

high-volume professional application such as pallets, furniture, manufactured housing, upholstery, sheathing and roofing

Note 101 to entry: Tools that are designed for **production applications** include **heavy duty staplers, heavy duty finish nailers** and **coil nailers**

### **3.121**

#### **selective actuation**

**actuation system** that allows discrete selection of two or more of the following **actuation modes: single sequential actuation, full sequential actuation, contact actuation** or **contact actuation with automatic reversion**

## **8 Marking and instructions**

*Add the following new subclause:*

**8.2.101** Tools capable of only **contact actuation** or **contact actuation with automatic reversion actuation modes** in accordance with 19.102 and 19.104 shall be visibly marked with the product safety label specified in Figure AA.1 of Annex AA. This subclause is not applicable to tools with **selective actuation**.

*Compliance is checked by inspection.*

Replace the existing text of 8.11 with the following:

#### 8.11 Addition:

For tools with **selective actuation**, markings indicating which **actuation mode** is enabled.

Add, after the second sentence of 8.14.1, the following sentence:

The term "fastener(s)" in these warnings may be replaced by a specific **fastener** designation such as nail(s), pin(s), staple(s), tack(s), etc.

Add, after 8.14.1.102, the following new subclause:

#### 8.14.1.103 Additional warnings for tools capable of contact actuation

- a) **Contact actuation should only be used for non-precision fastening applications such as for roofing and sheathing or the production of pallets, furniture, manufactured housing or upholstery.** For work requiring more precision, a sequential tool or sequential operating mode should be selected.
- b) **Always check the actuation mode before operating tools with selective actuation.** Operating the tool without verifying the actuation mode could lead to injury from inadvertent actuation of a fastener.
- c) **Use this tool on controlled jobsites where safe work practices are implemented.** Environments where safe work practices are not maintained increases the risk of personal injury.

## 19 Mechanical hazards

Replace, in 19.102.1, the existing Table 101 with the following:

**Table 101 – Permitted actuation modes and workpiece contact force for fastener driving tools that require a workpiece contact**

Fastener length  (mm)	Permitted actuation modes	Test force for workpiece contact for materials (excluding hard materials) that do not result in tool actuation  (N)	Test force for workpiece contact for hard materials that do not result in tool actuation <sup>a</sup>  (N)
< 15	Full sequential actuation	(5 ± 0,25)	(50 ± 2,5)
	Single sequential actuation		
≥ 15 and < 65	Selective actuation	(5 ± 0,25)	(50 ± 2,5)
	Contact actuation <sup>a</sup>		
	Contact actuation with automatic reversion <sup>a</sup>		
	Contact actuation <sup>a</sup>	(10 ± 0,5)	

Fastener length  (mm)	Permitted actuation modes	Test force for workpiece contact for materials (excluding hard materials) that do not result in tool actuation  (N)	Test force for workpiece contact for hard materials that do not result in tool actuation <sup>a</sup>  (N)
≥ 65 and ≤ 100	<b>Full sequential actuation</b>	(15 ± 0,75)	(50 ± 2,5)
	<b>Single sequential actuation</b>		
	<b>Selective actuation</b>		
	<b>Contact actuation with automatic reversion<sup>a</sup></b>		
	<b>Contact actuation<sup>a</sup></b>	(25 ± 1,25)	
> 100	<b>Full sequential actuation</b>	(35 ± 1,75)	(50 ± 2,5)
	<b>Single sequential actuation</b>		
<sup>a</sup> <b>Contact actuation</b> and <b>contact actuation with automatic reversion actuation modes</b> are not permitted on <b>fastener driving tools</b> intended to be used on hard materials, i.e., steel, concrete, or cinder blocks.			

Replace, in 19.102.2, "starting" with "initial" in the first paragraph.

Replace, in 19.102.2, the existing text of the second paragraph of the compliance statement with the following new text:

The tool is held by the operator, and the **workpiece contact** is operated through its full travel five times in each of the following three positions:

- **horizontal-up**;
- **horizontal-down**; and
- **vertical**.

After each operation, the workpiece contact shall always return to its initial position.

Replace, in 19.104, the first and second paragraphs with the following new text:

All tools, except for **light duty tools** and **fastener driving tools** for **production applications** such as **heavy duty staplers**, **heavy duty finish nailers** and **coil nailers**, shall be manufactured with the ability to select **single sequential actuation**, **full sequential actuation**, **selective actuation** or **contact actuation with automatic reversion**.

Add, at the end of Clause 19, the following new Subclause 19.106:

**19.106** For tools with **selective actuation**, at least one of the selectable **actuation modes** shall be either **single sequential actuation** or **full sequential actuation**.

Compliance is checked by inspection.