

PÜSSIROHUGA TÖÖTAVAD KÄESHOITAVAD KINNITUS-
JA MARKEERIMISTÖÖRIISTAD. OHUTUSNÕUDED

Powder actuated hand-held fixing and hard marking
tools - Safety requirements

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 15895:2025 sisaldab Euroopa standardi EN 15895:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 25.06.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 15895:2025 consists of the English text of the European standard EN 15895:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 25.06.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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English Version

Powder actuated hand-held fixing and hard marking tools - Safety requirements

Outils portatifs de scellement et de marquage
actionnés par poudre - Exigences de sécurité

Pulverbetriebene handgeführte Befestigungs- und
Hartmarkierungswerkzeuge -
Sicherheitsanforderungen

This European Standard was approved by CEN on 4 May 2025.

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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European foreword

This document (EN 15895:2025) has been prepared by Technical Committee CEN/TC 213 “Powder actuated hand-held tools - Safety”, the secretariat of which is held by SNV.

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 2025, and conflicting national standards shall be withdrawn at the latest by December 2025.

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

This document supersedes EN 15895:2011+A1:2018.

EN 15895:2025 includes the following significant technical changes with respect to EN 15895:2011+A1:2018:

- applicability for single cartridge, collated cartridges in disks as well as collated cartridges in strips;
- enhanced design requirements for safety-related parts;
- improved compatibility with EN 16264:2014 to enable conformity assessments of new tool/cartridge systems;
- updated requirements for drop tests;
- new and updated terms and definitions and enhanced drawings;
- new and updated standard references;
- updated informative Annex ZA.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

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

This document has been drawn up in co-operation with representatives of manufacturers of cartridge-operated hand-held tools and health and safety authorities (Schweizerische Unfallversicherung (SUVA)).

The “Permanent International Commission for the Proof of Small Arms, C.I.P.” has given substantial contributions to this document. The C.I.P. regulations pertinent to powder actuated hand-held tools have been largely integrated in this document.

Normative and informative annexes to this document are indicated in the contents list.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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, France, Germany, Greece, Hungary, Iceland, Ireland,

Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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Introduction

This document specifies up-to-date requirements for powder actuated hand-held fixing and hard marking tools. Requirements are mainly based on safety functions. This approach significantly increases the design details of the safety aspects.

This document is a type C standard as stated in EN ISO 12100:2010.

The machinery concerned and the extent to which hazards, hazardous situations and hazardous 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 the other standards, for machines that have been designed and built according to the provisions of this type C standard.

1 Scope

This document covers safety requirements for powder actuated fixing and hard marking tools which operate with an intermediate member (piston) and are handled manually.

This document deals with all significant hazards (see Annex I), hazardous situations and events relevant to powder actuated fixing and hard marking tools, when they are used as intended and under conditions of misuse which are reasonably foreseeable (see Clause 4). It deals with the significant hazards in the different operating modes and intervention procedures as referred to in EN ISO 12100:2010, 5.4, 5.5, 5.6.

Although the safe use of powder actuated tools depends to an important extent on the use of appropriate cartridges and fasteners, this document is not formulating requirements for the cartridges and fasteners to be used with the tools (see Clause 6).

This document applies to tools designed for use with cartridges with casings made of metal or plastic and with solid propellant and containing a minor quantity of primer mix with a composition different from that of the main propellant.

This document applies to tools designed for use with single cartridges or with cartridges collated in disks or in strips.

The fixing tools in the scope are those intended for use with fasteners made from metal.

NOTE Information about cartridges can be found either in EN 16264:2014 or the publication of the Permanent International Commission for the Proof of Small Arms (C.I.P.).

This document is not applicable to powder actuated fixing and hard marking tools which are manufactured before this document's date of publication.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 614-1:2006+A1:2009, *Safety of machinery — Ergonomic design principles — Part 1: Terminology and general principles*

EN 16264:2014, *Pyrotechnic articles — Other pyrotechnic articles — Cartridges for powder actuated tools*

EN 61310-1:2008, *Safety of machinery — Indication, marking and actuation — Part 1: Requirements for visual, acoustic and tactile signals (IEC 61310-1:2007)*

EN 61672-1:2013, *Electroacoustics — Sound level meters - Part 1: Specifications (IEC 61672-1:2013)*

EN ISO 3744:2010, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Engineering methods for an essentially free field over a reflecting plane (ISO 3744:2010)*

EN ISO 4871:2009, *Acoustics — Declaration and verification of noise emission values of machinery and equipment (ISO 4871:1996)*

EN ISO 11201:2010, *Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions in an essentially free field over a reflecting plane with negligible environmental corrections (ISO 11201:2010)*

EN ISO 11688-1:2009, *Acoustics — Recommended practice for the design of low-noise machinery and equipment — Part 1: Planning (ISO/TR 11688-1:1995)*

EN ISO 12100:2010, *Safety of machinery — General principles for design — Risk assessment and risk reduction (ISO 12100:2010)*

EN ISO 13732-1:2008, *Ergonomics of the thermal environment — Methods for the assessment of human responses to contact with surfaces — Part 1: Hot surfaces (ISO 13732-1:2006)*

ISO 2768-1:1989, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 12100:2010 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1

powder actuated tool

PAT

tool with a piston powered by the hot combustion gases from a cartridge and comprising powder actuated fixing and hard marking tools

Note 1 to entry: Referred to as cartridge-operated fixing and other impact machinery in Directive 2006/42/EU, Annex IV, Clause 18.

Note 2 to entry: Referred to as portable cartridge-operated fixing and other impact machinery in Regulation (EU) 2023/1230, Annex I, Part A, Number 4.

3.1.1

tool for single cartridges

tool designed for the use of single cartridges

Note 1 to entry: Also called single-shot tools.

3.1.2

tool for collated cartridges

tool designed for the use of cartridges collated in disks or strips

Note 1 to entry: Also called tools for collated cartridges.

Note 2 to entry: Conventionally cartridges are collated in disks or strips.

3.2

fixing tool

tool to drive fasteners into base materials