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Fasteners - Taper grooved pins - Full-length progressive grooves (ISO 8744:2025)

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>See Eesti standard EVS-EN ISO 8744:2025 sisaldab Euroopa standardi EN ISO 8744:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 05.03.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN ISO 8744:2025 consists of the English text of the European standard EN ISO 8744:2025.</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 05.03.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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EUROPEAN STANDARD

**EN ISO 8744**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2025

ICS 21.060.50

Supersedes EN ISO 8744:1997

English Version

## Fasteners - Taper grooved pins - Full-length progressive grooves (ISO 8744:2025)

Fixations - Goupilles cannelées progressives -  
Cannelures progressives sur toute la longueur (ISO  
8744:2025)

Verbindungselemente - Kegelkerbstifte (ISO  
8744:2025)

This European Standard was approved by CEN on 3 March 2025.

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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

## European foreword

This document (EN ISO 8744:2025) has been prepared by Technical Committee ISO/TC 2 "Fasteners" in collaboration with Technical Committee CEN/TC 185 "Fasteners" the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by September 2025, and conflicting national standards shall be withdrawn at the latest by September 2025.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 ISO 8744:1997.

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

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## Endorsement notice

The text of ISO 8744:2025 has been approved by CEN as EN ISO 8744:2025 without any modification.

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## 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 2, *Fasteners*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 185 *Fasteners*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 8744:1997) which has been technically revised.

The main changes are as follows:

- terms and definitions, principles for grooved pins and assembly (including hole dimensions), control of the expanded diameter  $d_2$  and pin straightness, mechanical and physical properties (including shear resistance and hardness) and inspection which are common for all grooved pins (product standards ISO 8739 to ISO 8747, ISO 13670 and ISO 13672) have been specified in the new reference standard ISO 13669, dealing with general requirements;
- non-preferred diameters 1 mm, 3,5 mm, 7 mm, 9 mm, 14 mm and 18 mm have been added;
- values of expanded diameter  $d_2$  for steel pins have been slightly increased for the shortest length range, and have been added for stainless steel pins;
- tolerances for the rounded end and values for the chamfered end have been added;
- stainless steel grades A2, A4, C1 and F1 have been added;
- other materials (such as hardened steels, brass, aluminium) are by agreement (see [Table 3](#));
- specifications for labelling have been added as [Clause 8](#).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

# Fasteners — Taper grooved pins — Full-length progressive grooves

## 1 Scope

This document specifies the characteristics of taper grooved pins with full-length progressive grooves (with closed end at the insertion side), in steel and stainless steel, and with nominal diameter 1 mm to 25 mm.

These grooved pins are designed to fulfil the main following function: locking together two or more parts, with an easy installation (due to its shape) and a high level of pull-out resistance (due to the elastic fit behaviour of the pin).

The general requirements (including functional principles for grooved pins and assembly) are specified in ISO 13669.

## 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.

ISO 1891-4, *Fasteners — Vocabulary — Part 4: Control, inspection, delivery, acceptance and quality*

ISO 3269, *Fasteners — Acceptance inspection*

ISO 3506-6, *Fasteners — Mechanical properties of corrosion-resistant stainless steel fasteners — Part 6: General rules for the selection of stainless steels and nickel alloys for fasteners*

ISO 4042, *Fasteners — Electroplated coating systems*

ISO 9717, *Metallic and other inorganic coatings — Phosphate conversion coating of metals*

ISO 10683, *Fasteners — Non-electrolytically applied zinc flake coating systems*

ISO 13669, *Fasteners — Grooved pins — General requirements*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 13669 apply.

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

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

## 4 Principles of grooved pins and assembly

The principles of grooved pins and assembly specified in ISO 13669 shall apply.