



# SLOVENSKI STANDARD

## SIST EN 4157:2024

01-oktober-2024

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**Aeronavtika - Konec palice s samonastavljivim dvorednim krogličnim ležajem in navojnim stebлом iz jekla - Dimenzije in obremenitve, palčne mere**

Aerospace series - Rod end, with self-aligning double row ball bearing and threaded shank in steel - Dimensions and loads, Inch series

Luft- und Raumfahrt - Ösenköpfe mit zweireihigem Pendelkugellager und Gewindeschaft aus Stahl - Maße und Belastungen; Inch-Reihe

Série aérospatiale - Embout à roulement à rotule sur deux rangées de billes et tige filetée en acier - Dimensions et charges, série en inches

**Ta slovenski standard je istoveten z: EN 4157:2024**

[SIST EN 4157:2024](#)

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**ICS:**

49.035	Sestavni deli za letalsko in vesoljsko gradnjo	Components for aerospace construction
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**SIST EN 4157:2024**

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EUROPEAN STANDARD

EN 4157

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2024

ICS 49.035

English Version

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This European Standard was approved by CEN on 12 May 2024.

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

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## European foreword

This document (EN 4157:2024) has been prepared by ASD-STAN.

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, prior to its presentation to CEN.

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of an identical text or by endorsement, at the latest by January 2025, and conflicting national standards shall be withdrawn at the latest by January 2025.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.

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**EN 4157:2024 (E)****1 Scope**

This document specifies the characteristics of adjustable rod-ends with self-aligning double row ball bearing and threaded shank in steel.

They consist of:

- a rod-end comprising:
  - either seals or shields;
  - an optional longitudinal groove for locking purpose;
- an inner ring with balls.

These rod-ends are intended for use with flight control rods or rods for aerospace structures.

**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 2031, Aerospace series — Steel 102Cr6 (1.2067) — Hardened and tempered — Bars

EN 2067:1996, Aerospace series — Rod ends with self-aligning ball bearings — Technical specification

EN 2133, Aerospace series — Cadmium plating of steels with specified tensile strength  $\leq 1\,450$  MPa, copper, copper alloys and nickel alloys

EN 2135, Aerospace series — Steel FE-PL61 — Carburized, hardened and tempered — Bar —  $D_e \leq 40$  mm

EN 2424, Aerospace series — Marking of aerospace products

ISO 3161, Aerospace — UNJ threads — General requirements and limit dimensions

ISO 3353-1, Aerospace — Lead and runout threads — Part 1: Rolled external threads

TR 4475<sup>1</sup>, Bearings and mechanical transmissions for airframe applications — Vocabulary

**3 Terms, definitions and symbols****3.1 Terms and definitions**

For the purposes of this document, the terms and definitions given in TR 4475 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/>

<sup>1</sup> Published as ASD-STAN Technical Report at the date of publication of this document by ASD-STAN ([www.asd-stan.org](http://www.asd-stan.org)).