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Aerospace series - Rod-end, spherical, plain bearing,  
metal to metal - Technical specification

## EESTI STANDARDI EESSÕNA

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Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
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ICS 49.035

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EUROPEAN STANDARD

EN 6099

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

## Aerospace series - Rod-end, spherical, plain bearing, metal to metal - Technical specification

Série aérospatiale - Embout à rotule lisse, métal à métal  
- Spécification technique

Luft- und Raumfahrt - Ösenkopf mit Gelenklager,  
Metall auf Metall - Technische Lieferbedingungen

This European Standard was approved by CEN on 20 December 2020.

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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 6099:2021) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, 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of an identical text or by endorsement, at the latest by September 2021, and conflicting national standards shall be withdrawn at the latest by September 2021.

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## **Introduction**

This document is published at edition P2. Former editions P1 draft may exist for Airbus development only but without any ASD-STAN official publication. In consequence configuration management discrepancies with these unofficial documents are under Airbus responsibility.

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## 1 Scope

This document specifies the required characteristics, inspections and test methods, quality assurance, conditions for qualification, acceptance and delivery of rod-ends with self-aligning bearings metal to metal designed to withstand slight swivelling under load. They are intended for use in fixed or moving parts of the aircraft structure and their control mechanisms.

This document is applicable to all rod-ends with self-aligning bearings metal to metal. It may be applied when referred to in a product standard or in a design specification.

## 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 2335, *Aerospace series — Bearings, spherical plain in corrosion resisting steel without assembly slot — Dimensions and loads*

EN 2337:2006, *Aerospace series — Spherical plain bearings — Technical specification*

EN 2424, *Aerospace series — Marking of aerospace products*

EN 4265, *Aerospace series — Bearing spherical plain, metal to metal in corrosion resisting steel — Wide series — Dimensions and loads — Inch series*

EN 6046, *Aerospace series — Bearing, spherical, plain, in corrosion resisting steel — Narrow series — Dimensions and loads — Inch series*

EN 6097, *Aerospace series — Bearing, spherical plain, metal to metal, extra wide inner ring in corrosion resisting steel — Dimensions and loads — Inch series*

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

ISO 5855-1, *Aerospace — MJ threads — Part 1: General requirements*

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

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in TR 4475 apply.

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

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

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<sup>1</sup> Published as ASD-STAN Technical Report at the date of publication of this standard by AeroSpace and Defence Industries Association of Europe - Standardization (ASD-STAN) ([www.asd-stan.org](http://www.asd-stan.org)).