



**NSAI**  
Standards

Irish Standard  
I.S. EN 6057:2020

Aerospace series - Rod-end with bearing  
EN 4265 in corrosion resisting steel,  
internal threaded shank - Dimensions and  
loads, Inch series

**I.S. EN 6057:2020**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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## National Foreword

I.S. EN 6057:2020 is the adopted Irish version of the European Document EN 6057:2020, Aerospace series - Rod-end with bearing EN 4265 in corrosion resisting steel, internal threaded shank - Dimensions and loads, Inch series

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**EUROPEAN STANDARD**

**EN 6057**

**NORME EUROPÉENNE**

**EUROPÄISCHE NORM**

October 2020

ICS 49.035

English Version

**Aerospace series - Rod-end with bearing EN 4265 in  
corrosion resisting steel, internal threaded shank -  
Dimensions and loads, Inch series**

Série aérospatiale - Embout à rotule lisse suivant EN  
4265, en acier résistant à la corrosion, avec filetage  
intérieur - Dimensions et charges - Série en inches

Luft- und Raumfahrt - Ösenkopf mit Gelenklager nach  
EN 4265 aus korrosionsbeständigem Stahl, mit  
Innengewinde - Maße und Belastungen, Inch Reihe

This European Standard was approved by CEN on 6 January 2020.

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

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## **European foreword**

This document (EN 6057:2020) 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-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 April 2021, and conflicting national standards shall be withdrawn at the latest by April 2021.

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 6057:2020(E)**

### **Introduction**

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



## 1 Scope

This European standard specifies the characteristics of adjustable rod-ends consisting of:

- a spherical plain bearing, metal to metal, in corrosion resisting steel, wide series (EN 4265)
- a rod-end with internal threaded shank

They are intended for use in fixed or moving parts of the aircraft structure and their control mechanisms.

## 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 2133, *Aerospace series — Cadmium plating of steels with specified tensile strength  $\leq 1450$  MPa, copper, copper alloys and nickel alloys*

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 6099, *Aerospace series — Rod-end with plain bearing — Technical specification*<sup>1</sup>

ISO 1132-1, *Rolling bearings — Tolerances — Definitions*

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

ISO 8074, *Aerospace — Surface treatment of austenitic stainless steel parts*

MIL-PRF-23827, *Grease, aircraft and instrument, gear and actuator screw, NATO Code Nummer G-354, metric*<sup>2</sup>

MIL-PRF-46010, *Lubricant, solid film, heat cured, corrosion-inhibiting*<sup>2</sup>

MIL-PRF-81322, *Grease, aircraft, general purpose, wide temperature range*<sup>2</sup>

SAE AMS 5643, *Steel, corrosion resistant, bars, wire, forgings, tubing, and rings 16Cr-4.0Ni-0.30(Cb+Ta)-4.0Cu solution heat treated, precipitation hardenable*<sup>3</sup>

TR 4475, *Aerospace series — Bearings and mechanical transmissions for airframe applications — Vocabulary*<sup>4</sup>

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2 Published by: Department of Defense (DoD), the Pentagon, Washington, D.C., 20307, USA

3 Published by: Society of Automotive Engineers (SAE), 400 Commonwealth Drive, Warrendale, PA 15096 0001, USA.

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