SLOVENSKI STANDARD
SIST EN 6057:2021

01-januar-2021

Aeronavtika - Končnik z očesom in ležajem po EN 4265 iz korozijsko odpornega jekla, z zunanjo navojno ročico - Mere in obremenitve - Palčne mere

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

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

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

Ta slovenski standard je istoveten z: **EN 6057:2020**

ICS:

49.025.10	Jekla	Steels
49.035	Sestavni deli za letalsko in vesoljsko gradnjo	Components for aerospace construction

SIST EN 6057:2021 **en,fr,de**

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 6057

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.

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 COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

Ref. No. EN 6057:2020 E

Contents

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.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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 ≤1450 MPa, copper, copper alloys and nickel alloys*

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

EN 4265, *Aerospace series — Bearing sperical 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*[1]

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*[2]

MIL-PRF-46010, *Lubricant, solid film, heat cured, corrosion-inhibiting*[2]

MIL-PRF-81322, *Grease, aircraft, general purpose, wide temperature range*[2]

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*[3]

TR 4475, *Aerospace series — Bearings and mechanical transmissions for airframe applications — Vocabulary*[4]

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1 Published as ASD-STAN Prestandard at the date of publication of this standard by AeroSpace and Defence Industries Association of Europe – Standardization (ASD-STAN) (www.asd-stan.org).

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.

3 Terms, definitions and symbols

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/

Symbols of limit deviations are in accordance with definitions of ISO 1132-1.

α	maximum angle of tilt of the outer ring with respect to the inner ring, with the spherical surface of the outer ring being completely in contact with the inner ring.
C_s	permissible static radial load
Δ_{dmp}	single plane mean bore diameter deviation
Δ_{ds}	deviation of a single bore diameter
C_p	Push out load
C_f	Fatigue load

4 Requirements

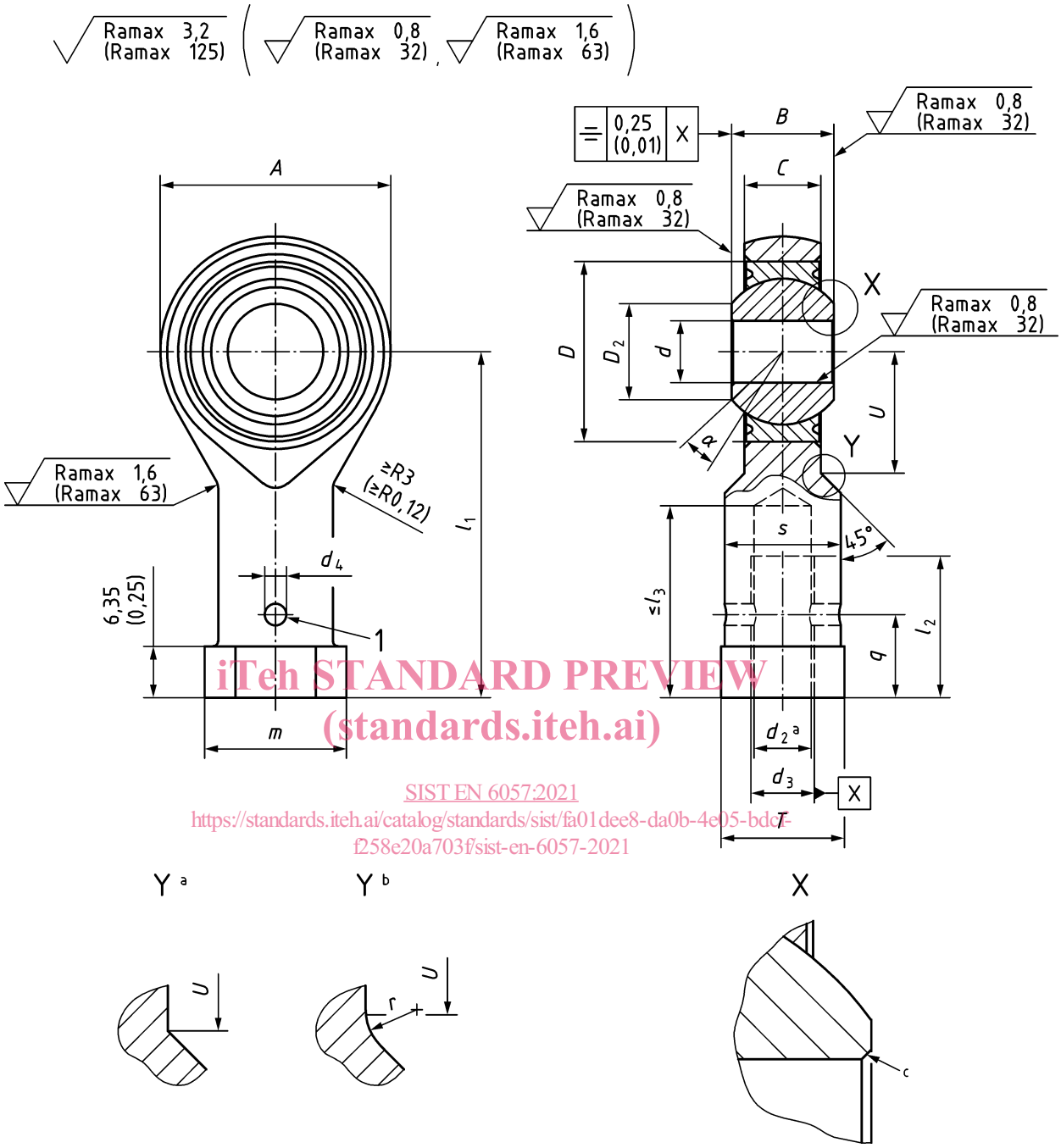
4.1 Configuration, dimensions, tolerances and mass

Configuration, dimensions, tolerances and mass shall be according to Figure 1 and Table 1.

Dimensions and tolerances are expressed in millimeters (inches).

Dimensions and tolerances are measured after surface treatment.

4 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).



Key

a) Thread, pitch diameter.

Figure 1 — Configuration