

Rod ends with self-aligning ball bearings — Technical specification

The European Standard EN 2067:1996 has the status of a
British Standard

ICS 49.040.30

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee ACE/14, Aerospace details and parts, upon which the following bodies were represented:

- British Iron and Steel Producers' Association
- Civil Aviation Authority (Airworthiness Division)
- Federation of Wire Rope Manufacturers of Great Britain
- Institute of Petroleum
- Ministry of Defence
- Society of British Aerospace Companies
- Stainless Steel Wire Industry Association

This British Standard, having been prepared under the direction of the Engineering Sector Board, was published under the authority of the Standards Board and comes into effect on 15 June 1996

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The following BSI references relate to the work on this standard:
Committee reference ACE/14
Draft for comment 89/70706 DC

ISBN 0 580 25658 8

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
Foreword	2
1 Scope	3
2 Normative references	3
3 Definitions	3
4 Required characteristics, inspection and test methods	3
5 Quality assurance	8
6 Packaging	8
7 Certificate of conformity	8
Annex A (normative) Retention test for seals and shields	10
Annex B (normative) Sealing — Sand and dust test	11
Annex C (normative) Test on the running behaviour of the rod ends, retention of seals and shields at the limit temperatures	11
Annex D (normative) Verification of internal clearances	12
Annex E (normative) Verification of permissible and ultimate loads	14
Annex F (normative) Lubricants — Essential characteristics	16
Figure 1 — Discontinuities on threads flank	7
Figure 2 — Discontinuities on threads flank	7
Figure A.1	10
Figure A.2	10
Figure D.1	12
Figure D.2	13
Figure E.1	15
Figure E.2	16
Table 1	4
Table 2 — Non-destructive inspections and tests to be carried out for qualification	8
Table 3 — Destructive inspections and tests to be carried out for qualification	9
Table 4 — Inspections and tests to be carried out for acceptance	9
Table D.1	13
Table D.2	14
List of references	Inside back cover

National foreword

This British Standard has been prepared by Technical Committee ACE/14 and is the English language version of EN 2067:1996 *Aerospace series — Rod ends with self-aligning ball bearings — Technical specification*, including corrigendum, published by the European Committee for Standardization (CEN).

EN 2067:1996 was produced as a result of international discussions in which the United Kingdom took an active part.

Cross-references

Publication referred to	Corresponding British Standard
	BS 6293 <i>Aerospace. MJ threads.</i>
ISO 5885-1	Part 1:1994 <i>General requirements</i>
ISO 5885-2	Part 2:1994 <i>Limit dimensions for bolts and nuts</i>
EN 3042	BS EN 3042:1992 <i>Quality assurance. EN aerospace products. Qualification procedure</i>

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 16, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Aerospace series — Rod ends with self-aligning ball bearings — Technical specification

Série aérospatiale — Embouts à rotule sur billes — Spécification technique

Luft- und Raumfahrt — Ösenköpfe mit Pendelkugellager — Technische Lieferbedingungen

This European Standard was approved by CEN on 1995-08-31. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After inquiries and votes carried out in accordance with the rules of this Association, this Standard has successively received the approval of the National Associations and the Official Services of the member countries of AECMA, 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 July 1996, and conflicting national standards shall be withdrawn at the latest by July 1996.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

1 Scope

This standard specifies the required characteristics, inspection and test methods, qualification and acceptance conditions for rod ends with self-aligning ball bearings designed to withstand (under load) slight swivelling and slow rotations only.

It is applicable whenever referenced.

2 Normative references

This European Standard incorporates by dated or undated reference provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

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

ISO 5855-2, *Aerospace — MJ threads — Part 2: Limit dimensions for bolts and nuts.*

EN 2002-16, *Aerospace series — Test methods for metallic materials — Part 16: Dye penetrant testing¹⁾.*

EN 3042, *Aerospace series — Quality assurance — EN aerospace products — Qualification procedure.*

3 Definitions

For the purposes of this standard, the following definitions apply:

3.1 Surface discontinuities

3.1.1

crack

break in the material which may extend in all directions and be intercrystalline or transcrystalline in character

3.1.2

score, scratch

open surface defect

3.1.3

lap

surface defect where particles of metal or sharp edges are folded over and then rolled or forged into the surface

3.1.4

seam

unwelded fold which appears as an open defect in the material

3.2 Internal clearances

3.2.1

radial

total value of possible radial displacements of the inner ring in relation to the rod end body

3.2.2

axial

total value of possible axial displacements of the inner ring in relation to the rod end body

3.3

starting torque at zero load

maximum torque required to start the rotation of the inner ring of the bearing, with the rod end body held stationary

3.4

production batch

batch consisting of rod ends of the same type, the same dimensions and from the same materials batch, defined by the same product standard

3.5

delivery batch

batch consisting of rod ends with the same identity block which may come from different production batches

4 Required characteristics, inspection and test methods

See Table 1.

¹⁾ In preparation at the date of publication of this standard