

	Spherical plain bearings Part 4: Spherical plain bearing rod ends (ISO 12240-4 : 1998)	DIN ISO 12240-4
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ICS 21.080

This standard, together with
 DIN ISO 12240-1, July 1999
 edition, supersedes DIN 648,
 August 1987 edition.

Gelenklager – Teil 4: Gelenkköpfe (ISO 12240-4 : 1998)

This standard incorporates International Standard
 ISO 12240-4 Spherical plain bearings – Part 4: Spherical plain bearing rod ends.

A comma is used as the decimal marker.

National foreword

This standard has been prepared by ISO/TC 4.

The responsible German body involved in its preparation was the Technical Committee *Wälzlager*.

The DIN Standards corresponding to the International Standards referred to in clause 2 of the ISO Standard are as follows:

ISO Standard	DIN Standard
ISO 582	DIN 620-6
ISO 965-1	DIN 13-14 and DIN 13-15
ISO 1132	DIN ISO 1132
ISO 6811	DIN ISO 6811
ISO 12240-1	DIN ISO 12240-1

Amendments

DIN 648, August 1987 edition, has been superseded by the specifications of DIN ISO 12240-1 and DIN ISO 12240-4.

Previous editions

DIN 648: 1972-01, 1987-08.

National Annex NA

Standards referred to

(and not included in **Normative references**)

DIN 13-14	ISO metric screw threads – Tolerance system for threads 1 mm in diameter and larger
DIN 13-15	ISO metric screw threads – Fundamental deviations and tolerances for screw threads of 1 mm diameter and larger
DIN 620-6	Chamfer dimension limits for rolling bearings
DIN ISO 12240-1	Spherical plain bearings – Part 1: Radial spherical plain bearings (ISO 12240-1 : 1998)

ISO Standard comprises 12 pages.

Spherical plain bearings

Part 4: Spherical plain bearing rod ends

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standard bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 12240-4 was prepared by Technical Committee ISO/TC 4, *Rolling bearings*, Subcommittee SC 7, *Spherical plain bearings*.

This first edition cancels and replaces ISO 6126:1987 of which it constitutes a technical revision.

ISO 12240 consists of the following parts, under the general title *Spherical plain bearings*:

- *Part 1: Radial spherical plain bearings*
- *Part 2: Angular contact radial spherical plain bearings*
- *Part 3: Thrust spherical plain bearings*
- *Part 4: Spherical plain bearing rod ends*

1 Scope

This part of ISO 12240 specifies dimensions, tolerances and radial internal clearances for various dimension series of spherical plain bearing rod ends.

The dimensions and tolerances specified in this part of ISO 12240 have been selected to permit the design and use of spherical plain bearing rod ends which incorporate radial spherical plain bearings having various sliding material combinations.

The specified tolerance values apply for finished spherical plain bearing rod ends before any coating, plating, ring splitting or fracturing.

Spherical plain bearing rod ends need not conform to the designs illustrated but compliance is required as regards dimensions, tolerances and radial internal clearances specified.

NOTE — Spherical plain bearing rod ends for airframe applications and specific spherical plain bearing rod ends for direct connection to hydraulic cylinders are not covered by this part of ISO 12240.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 12240. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 12240 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 582:1995, *Rolling bearings – Chamfer dimensions – Maximum values*.

ISO 965-1:1992, *ISO general purpose metric screw threads – Tolerances – Part 1: Principles and basic data*.

ISO 1132-1: —¹⁾, *Rolling bearings – Tolerances – Part 1: Terms and definitions*.

ISO 6811:1998, *Spherical plain bearings – Vocabulary*.

ISO 12240-1:1998, *Spherical plain bearings – Part 1: Radial spherical plain bearings*.

1) To be published. (Revision of ISO 1132:1980)