

International Standard



6124/2

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Spherical plain radial bearings, joint type — Boundary dimensions — Part 2 : Dimension series EW, bearings with extended inner ring

Rotules lisses d'articulation à contact radial — Dimensions d'encombrement — Partie 2 : Série de dimensions EW, rotules à bague intérieure large

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 6124/2 was developed by Technical Committee ISO/TC 4, *Rolling bearings*, and was circulated to the member bodies in November 1980.

It has been approved by the member bodies of the following countries :

Australia	Germany, F. R.	Poland
Austria	Hungary	Romania
Belgium	India	South Africa, Rep. of
Brazil	Italy	Spain
Canada	Japan	Sweden
China	Korea, Dem. P. Rep. of	Switzerland
Czechoslovakia	Korea, Rep. of	United Kingdom
Egypt, Arab Rep. of	Mexico	USA
France	Netherlands	USSR

No member body expressed disapproval of the document.

Spherical plain radial bearings, joint type —
Boundary dimensions —
Part 2 : Dimension series EW, bearings with extended
inner ring

1 Scope and field of application

This Part of ISO 6124 specifies dimensions for spherical plain radial bearings, joint type, with extended inner rings.

These dimensions define the bearings geometrically but do not impose any restrictions as to material or manufacturing methods.

Chamfer dimension values are given as minimum values. Appropriate maximum values are the same as those specified in ISO 582 for rolling bearings.

Tolerances for the outer diameter and the outer ring width are given in ISO 6125.

2 References

ISO 286/1, *ISO system of limits and fits — Part 1 : General, tolerances and deviations.*¹⁾

ISO 582, *Rolling bearings — Metric series — Chamfer dimension limits.*

ISO 6125, *Spherical plain radial bearings, joint type — Tolerances.*

3 Symbols

- d = bearing bore diameter, nominal
- d_1 = outer diameter of inner ring face
- D = bearing outside diameter, nominal
- B = inner ring width, nominal
- C = outer ring width, nominal
- r_1 = inner ring chamfer, height and width
- r_2 = outer ring chamfer, height and width
- $r_{1\text{min}}$ = smallest permissible single r_1
- $r_{2\text{min}}$ = smallest permissible single r_2
- α = angle of permissible tilt

1) At present at the stage of draft. (Revision of ISO/R 286-1962.)