
International Standard



6124/1

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Spherical plain radial bearings, joint type — Boundary dimensions —

Part 1 : Dimension series E and G

Rotules lisses d'articulation à contact radial — Dimensions d'encombrement — Partie 1 : Séries de dimensions E et G

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

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 6124/1 was developed by Technical Committee ISO/TC 4, *Rolling bearings*.

This second edition was submitted directly to the ISO Council, in accordance with clause 5.10.1 of part 1 of the Directives for the technical work of ISO. It cancels and replaces the first edition (i.e. ISO 6124-1979), which had been approved by the member bodies of the following countries :

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

No member body had expressed disapproval of the document.

Spherical plain radial bearings, joint type — Boundary dimensions —

Part 1 : Dimension series E and G

1 Scope and field of application

This Part of ISO 6124 specifies dimensions for radial spherical plain bearings, joint type, dimension series E and G.

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 bore diameter, outside diameter and width are given in ISO 6125.

2 References

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