
International Standard



6124/3

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**Spherical plain radial bearings, joint type —
Boundary dimensions —
Part 3 : Dimension series C**

Rotules lisses d'articulation à contact radial — Dimensions d'encombrement — Partie 3 : Série de dimensions C

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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 6124/3 was developed by Technical Committee ISO/TC 4, *Rolling bearings*, and was circulated to the member bodies in December 1980.

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

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

No member body expressed disapproval of the document.

Spherical plain radial bearings, joint type — Boundary dimensions — Part 3 : Dimension series C

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1 Scope and field of application

This Part of ISO 6124 specifies boundary dimensions for spherical plain radial bearings, joint type, dimension series C.

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

2 References

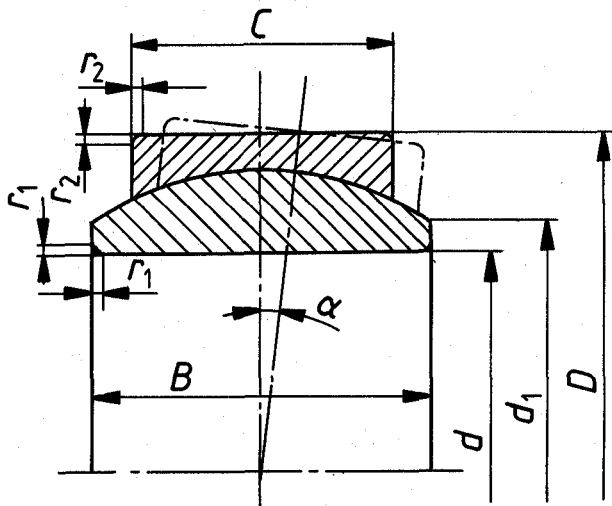
ISO 582, *Rolling bearings — Metric series — Chamfer dimension limits.*

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

4 Dimensions



Dimensions in millimetres, angle in degrees

d	D	B	C	d_{1min}	r_{1smin}	r_{2smin}	$\alpha^{1)}$
320	440	160	135	340	1,1	3,0	4
340	460	160	135	360	1,1	3,0	3
360	480	160	135	380	1,1	3,0	3
380	520	190	160	400	1,5	4,0	4
400	540	190	160	425	1,5	4,0	3
420	560	190	160	445	1,5	4,0	3
440	600	218	185	465	1,5	4,0	3
460	620	218	185	485	1,5	4,0	3
480	650	230	195	510	2,0	5,0	3
500	670	230	195	530	2,0	5,0	3
530	710	243	205	560	2,0	5,0	3
560	750	258	215	590	2,0	5,0	4
600	800	272	230	635	2,0	5,0	3
630	850	300	260	665	3,0	6,0	3
670	900	308	260	710	3,0	6,0	3
710	950	325	275	755	3,0	6,0	3
750	1 000	335	280	800	3,0	6,0	3
800	1 060	355	300	850	3,0	6,0	3
850	1 120	365	310	905	3,0	6,0	3
900	1 180	375	320	960	3,0	6,0	3
950	1 250	400	340	1 015	4,0	7,5	3
1 000	1 320	438	370	1 065	4,0	7,5	3
1 060	1 400	462	390	1 130	4,0	7,5	3
1 120	1 460	462	390	1 195	4,0	7,5	3
1 180	1 540	488	410	1 260	4,0	7,5	3
1 250	1 630	515	435	1 330	4,0	7,5	3
1 320	1 720	545	460	1 405	4,0	7,5	3
1 400	1 820	585	495	1 485	5,0	9,5	3
1 500	1 950	625	530	1 590	5,0	9,5	3
1 600	2 060	670	565	1 690	5,0	9,5	3
1 700	2 180	710	600	1 790	5,0	9,5	3
1 800	2 300	750	635	1 890	6,0	12,0	3
1 900	2 430	790	670	2 000	6,0	12,0	3
2 000	2 570	835	705	2 100	6,0	12,0	3

1) Approximate values.