

INTERNATIONAL
STANDARD

ISO
246

Second edition
1995-05-15

**Rolling bearings — Cylindrical roller
bearings, separate thrust collars —
Boundary dimensions**

*Roulements — Roulements à rouleaux cylindriques, bagues d'épaule-
ment séparées — Dimensions d'encombrement*



Reference number
ISO 246:1995(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards 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 246 was prepared by Technical Committee ISO/TC 4, *Rolling bearings*.

This second edition cancels and replaces the first edition (ISO 246:1978), which has been technically revised.

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Rolling bearings — Cylindrical roller bearings, separate thrust collars — Boundary dimensions

1 Scope

This International Standard specifies the width, the maximum outside diameter, the bore and the bore minimum chamfer of separate thrust collars for cylindrical roller bearings in diameter series 2, 3 and 4 as specified in ISO 15.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard 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.

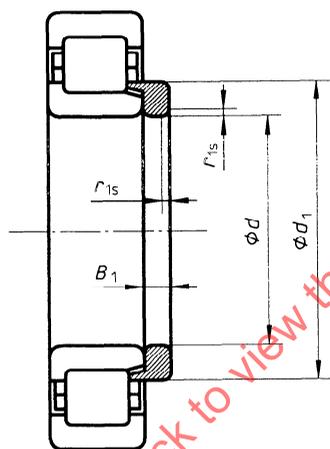
ISO 15:1981, *Rolling bearings — Radial bearings — Boundary dimensions — General plan.*

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

3 Symbols and dimensions

See figure 1 and table 1.

The dimensions given in table 1 corresponding to the symbols shown in figure 1 are nominal dimensions unless specified otherwise.



d = bore diameter
 B_1 = width protruding beyond inner ring face
 d_1 = outside diameter
 r_{1s} = single chamfer dimension

Figure 1

Table 1 — Dimensions

Dimensions in millimetres

d	Diameter series								
	2			3			4		
	B ₁	d ₁ max.	r _{1s min} ¹⁾	B ₁	d ₁ max.	r _{1s min} ¹⁾	B ₁	d ₁ max.	r _{1s min} ¹⁾
15	2,5	22	0,3	—	—	—	—	—	—
17	3	26	0,3	3	31	0,6	—	—	—
20	3	30	0,6	4	35	0,6	—	—	—
25	3	35	0,6	4	41	1,1	6	51	1,5
30	4	43	0,6	5	49	1,1	7	56	1,5
35	4	49	0,6	6	55	1,1	8	62	1,5
40	5	55	1,1	7	61	1,5	8	71	2
45	5	60	1,1	7	69	1,5	8	78	2
50	5	65	1,1	8	74	2	9	86	2,1
55	6	72	1,1	9	82	2	10	92	2,1
60	6	79	1,5	9	91	2,1	10	100	2,1
65	6	87	1,5	10	96	2,1	11	106	2,1
70	7	91	1,5	10	107	2,1	12	115	3
75	7	96	1,5	11	110	2,1	13	122	3
80	8	105	2	11	121	2,1	13	129	3
85	8	110	2	12	127	3	14	136	4
90	9	116	2	12	133	3	14	144	4
95	9	123	2,1	13	141	3	15	158	4
100	10	130	2,1	13	147	3	16	167	4
105	10	136	2,1	13	154	3	16	170	4
110	11	144	2,1	14	163	3	17	176	4
120	11	155	2,1	14	175	3	17	190	5
130	11	170	3	14	185	4	18	208	5
140	11	182	3	15	204	4	18	226	5
150	12	195	3	15	214	4	20	236	5
160	12	208	3	15	227	4	20	249	5
170	12	225	4	16	246	4	20	269	5
180	12	236	4	17	256	4	23	281	6
190	13	246	4	18	268	5	23	294	6
200	14	260	4	18	283	5	24	305	6
220	15	287	4	20	311	5	26	340	6
240	16	316	4	22	337	5	28	370	6
260	18	343	5	24	365	6	—	—	—

1) Smallest permissible single chamfer dimension of r_{1s}. The corresponding maximum chamfer dimensions are given in ISO 582.

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