

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION

R 1206

ROLLING BEARINGS

NEEDLE ROLLER BEARINGS

BOUNDARY DIMENSIONS

METRIC SERIES

DIMENSION SERIES 48 AND 49

1st EDITION

January 1971

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Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.

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BRIEF HISTORY

The ISO Recommendation R 1206, *Rolling bearings – Needle roller bearings – Boundary dimensions – Metric series – Dimension series 48 and 49*, was drawn up by Technical Committee ISO/TC 4, *Rolling bearings*, the Secretariat of which is held by the Sveriges Standardiseringskommission (SIS).

Work on this question led to the adoption of Draft ISO Recommendations Nos. 946 and 1643, which were circulated to all the ISO Member Bodies for enquiry in October 1967 and June 1968 respectively.

Draft ISO Recommendation No. 946 was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	India	Sweden
Austria	Iran	Switzerland
Brazil	Israel	Turkey
Canada	Italy	U.A.R.
Chile	Japan	United Kingdom
Czechoslovakia	Korea, Rep. of	U.S.A.
Germany	Netherlands	U.S.S.R.
Greece	Romania	Yugoslavia
Hungary	Spain	

The following Member Body opposed the approval of the Draft :

France

Draft ISO Recommendation No. 1643 was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Austria	Italy	Switzerland
Belgium	Japan	Thailand
Czechoslovakia	Netherlands	Turkey
Germany	Peru	U.A.R.
Hungary	Poland	United Kingdom
India	Romania	U.S.A.
Iran	Spain	U.S.S.R.
Israel	Sweden	Yugoslavia

The following Member Body opposed the approval of the Draft :

France

The ISO/TC 4 Secretariat then decided to combine these two Draft ISO Recommendations into a single document. The latter was submitted by correspondence to the ISO Council, which decided to accept it as an ISO RECOMMENDATION.

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ROLLING BEARINGS
NEEDLE ROLLER BEARINGS
BOUNDARY DIMENSIONS

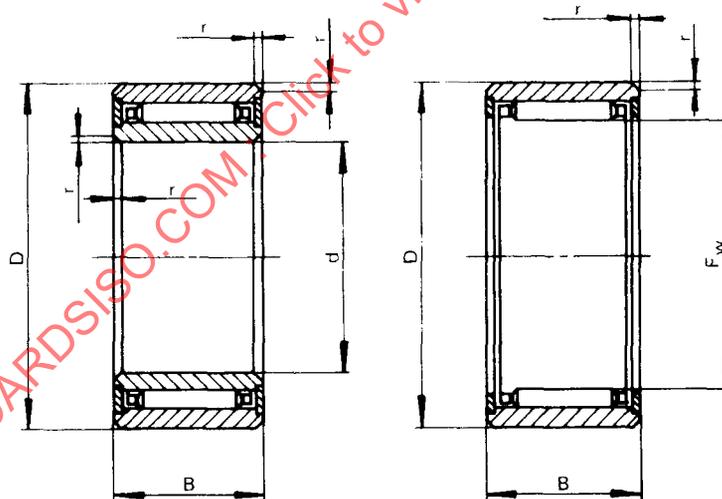
METRIC SERIES
DIMENSION SERIES 48 AND 49

1. SCOPE

This ISO Recommendation gives the boundary dimensions for complete needle roller bearings in dimension series 48 and 49. They were selected from the general plan for boundary dimensions of radial bearings given in ISO Recommendation R 15, Part 1 (2nd Edition, 1968).

In addition, this ISO Recommendation gives boundary dimensions for such needle roller bearings without inner rings, which have dimensions related to dimension series 49.

2. SYMBOLS



These figures show only one example
of the internal design of bearings

- d = bearing bore diameter
- D = bearing outside diameter
- B = bearing width
- r = chamfer dimension
- F_w = diameter of circle inscribed inside needle roller set

3. BOUNDARY DIMENSIONS

3.1 Complete bearings, dimension series 48

TABLE 1

Dimensions in millimetres

<i>d</i>	<i>D</i>	<i>B</i>	<i>r</i>
110	140	30	1.5
120	150	30	1.5
130	165	35	2
140	175	35	2
150	190	40	2
160	200	40	2
170	215	45	2
180	225	45	2
190	240	50	2.5
200	250	50	2.5
220	270	50	2.5
240	300	60	3
260	320	60	3
280	350	69	3
300	380	80	3.5
320	400	80	3.5
340	420	80	3.5
360	440	80	3.5