INTERNATIONAL STANDARD 3031

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

Needle roller bearings — Needle roller and cage assemblies — Metric series — Part II : Thrust needle roller and cage assemblies — Boundary dimensions and tolerances

Roulements à aiguilles — Cages à aiguilles — Séries métriques — Partie II : Cages à aiguilles axiales — Dimensions d'encombrement et tolérances

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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 3031 was drawn up by Technical Committee ISO/TC 4, *Rolling bearings*, and circulated to the Member Bodies in January 1973.

It has been approved by the Member Bodies of the following countries :

Australia	India	Sweden
Austria	Italy	Switzerland
Belgium	Japan	Thailand
Bulgaria	Mexico	Turkey
Egypt, Arab Rep. of	Netherlands	United Kingdom
France	Poland	U.S.A.
Germany	Romania	U.S.S.R.
Hungary	Spain	

This International Standard has also been approved by the International Union of Railways (UIC).

No Member Body expressed disapproval of the document.

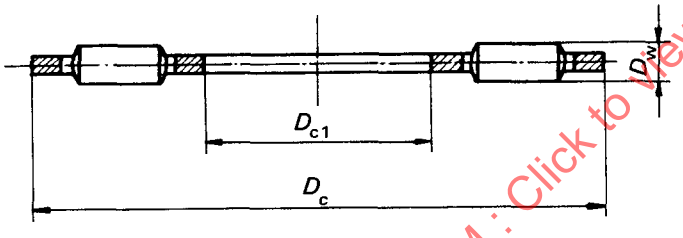
Printed in Switzerland

Needle roller bearings — Needle roller and cage assemblies — Metric series — Part II : Thrust needle roller and cage assemblies — Boundary dimensions and tolerances

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the boundary dimensions for thrust needle roller and cage assemblies and tolerances for the diameters of cages.

2 SYMBOLS



D_c = cage outside diameter, nominal

D_{c1} = cage bore diameter, nominal

D_w = roller diameter, nominal

3 BOUNDARY DIMENSIONS

Dimensions in millimetres

D_{c1}	D_c	D_w
15	28	2
16	29	2
17	30	2
18	31	2
20	35	2
25	42	2
30	47	2
35	52	2
40	60	3
45	65	3
50	70	3
55	78	3
60	85	3
65	90	3
70	95	4
75	100	4
80	105	4
85	110	4
90	120	4
100	135	4

4 TOLERANCES

4.1 Tolerance for cage outside diameter D_c c12

4.2 Tolerance for cage bore diameter D_{c1} E11