SLOVENSKI STANDARD
SIST ISO 7063:2004

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Rolling bearings -- Needle roller bearing track rollers -- Boundary dimensions and tolerances

Roulements -- Roulements à aiguilles, galets de came -- Dimensions d'encombrement et tolérances

Ta slovenski standard je istoveten z: ISO 7063:2003

<u>**ICS:**</u>

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INTERNATIONAL STANDARD

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Rolling bearings — Needle roller bearing track rollers — Boundary dimensions and tolerances

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 7063 was prepared by Technical Committee ISO/TC 4, *Rolling bearings*, Subcommittee SC 5, *Needle roller bearings*.

This second edition cancels and replaces the first edition (ISO 7063:1982), which has been technically revised, as well as ISO 6278:1980, which has been withdrawn.

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INTERNATIONAL STANDARD

ISO 7063:2003(E)

Rolling bearings — Needle roller bearing track rollers — Boundary dimensions and tolerances

1 Scope

This International Standard specifies the boundary dimensions and the tolerances of needle roller bearing track rollers, yoke and stud types.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1132-1:2000, *Rolling bearings — Tolerances — Part 1: Terms and definitions*

ISO 5593:1997, *Rolling bearings — Vocabulary*

ISO 15241:2001, *Rolling bearings — Symbols for quantities*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1132-1 and ISO 5593 apply.

4 Symbols

For the purposes of this document, the symbols listed in ISO 15241 and the following apply.

The symbols (except those for tolerances) shown in Figures 1 and 2, and the values given in Tables 1 to 8 denote nominal dimensions unless specified otherwise.

B overall width of inner ring and side washers of yoke-type track roller

B_1 distance from face of stud to face of side washer of stud-type track roller

B_2 length of shank on stud

B_3 distance from face of side washer to centre of radial lubrication hole

C outer ring width

C_1 distance from face of outer ring to face of side washer

D outside diameter of outer ring

d bore diameter

d_1 stud diameter

G designation of thread on stud

1

ISO 7063:2003(E)

K_{ea} radial runout of outer ring of assembled track roller

l_G length of thread on stud

r chamfer dimension of outer ring, radial and axial

$r_{s\,min}$ smallest single chamfer dimension on outer ring

r_1 chamfer dimension of inner ring, radial and axial

$r_{1s\,min}$ smallest single chamfer dimension on inner ring

Δ_{Bs} deviation of a single overall width of inner ring and side washers

Δ_{B2s} deviation of a single shank length

Δ_{Cs} deviation of a single outer ring width

Δ_{Dmp} deviation of mean outside diameter in a single plane

Δ_{dmp} deviation of mean bore diameter in a single plane

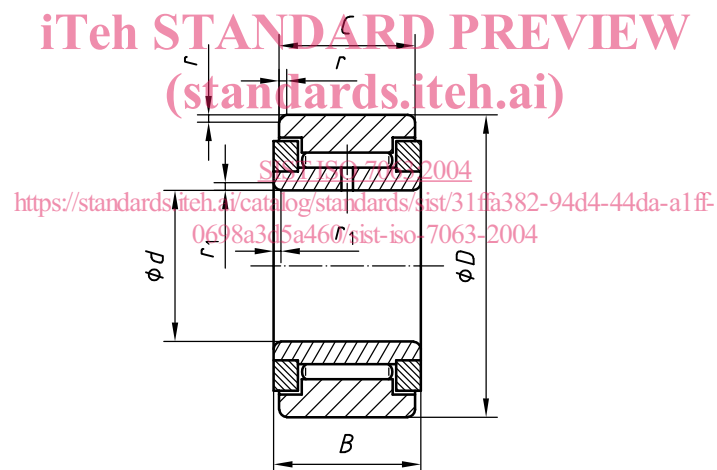Δ_{d1s} deviation of a single stud diameter
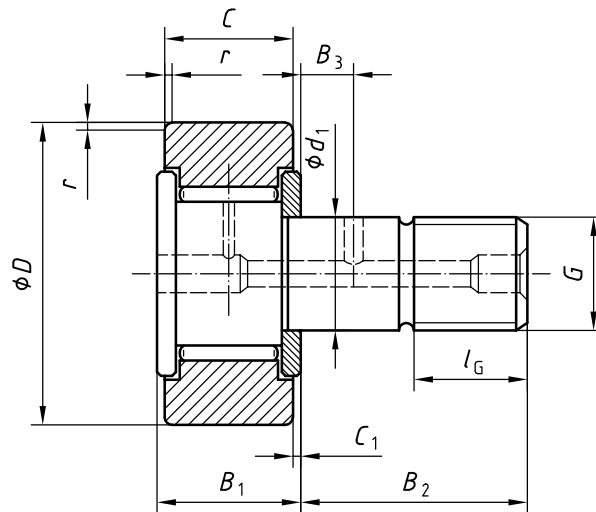

Figure 1 — Yoke-type

Figure 2 — Stud-type

5 Boundary dimensions

5.1 Track rollers — Yoke-type

Boundary dimensions for the yoke-type are given in Tables 1 and 2.

NOTE   The track rollers may be manufactured with or without a cage and with or without seals.

Table 1 — Track rollers — Yoke-type — Light series

Dimensions in millimetres

D^a	d	B	C	$r_{s\,min}$ [b]	$r_{1s\,min}$ [b, c]
16	5	12	11	0,15	0,15
19	6	12	11	0,15	0,15
24	8	15	14	0,3	0,3
30	10	15	14	0,6	0,3
32	12	15	14	0,6	0,3
35	15	19	18	0,6	0,3
40	17	21	20	1	0,3
47	20	25	24	1	0,3
52	25	25	24	1	0,3
62	30	29	28	1	0,3
72	35	29	28	1	0,6
80	40	32	30	1	0,6
85	45	32	30	1	0,6
90	50	32	30	1	0,6

[a]   The outside surface may be cylindrical or crowned.

[b]   No maximum value is specified for chamfer dimensions r and r_1.

[c]   A circumferential counter bore may be provided as an alternative to the chamfer on the inner ring.