



# SLOVENSKI STANDARD SIST ISO 7063:2020

01-september-2020

Nadomešča:  
SIST ISO 7063:2004

---

**Kotalni ležaji - Kotališča igličnih ležajev - Robne mere, specifikacija geometrijskih veličin izdelka (GPS) in vrednosti tolerance**

Rolling bearings - Needle roller bearing track rollers - Boundary dimensions, geometrical product specifications (GPS) and tolerance values

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

Roulements - Roulements à aiguilles, galets de roulement - Dimensions d'encombrement, spécification géométrique des produits (GPS) et valeurs de tolérance

<https://standards.iteh.ai/catalog/standards/sist/89bd8b2a-f525-42c1-a42b-c2c2c4f834c2/sist-iso-7063-2020>

**Ta slovenski standard je istoveten z: ISO 7063:2018**

---

**ICS:**

21.100.20      Kotalni ležaji      Rolling bearings

**SIST ISO 7063:2020**

**en,fr,de**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST ISO 7063:2020

<https://standards.iteh.ai/catalog/standards/sist/89bd8b2a-f525-42c1-a42b-c2c2c4f834c2/sist-iso-7063-2020>

INTERNATIONAL  
STANDARD

ISO  
7063

Third edition  
2018-07

Corrected version  
2020-02

---

---

**Rolling bearings — Needle roller  
bearing track rollers — Boundary  
dimensions, geometrical product  
specifications (GPS) and tolerance  
values**

*Roulements — Roulements à aiguilles, galets de roulement —  
Dimensions d'encombrement, spécification géométrique des produits  
(GPS) et valeurs de tolérance*

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

[SIST ISO 7063:2020](https://standards.iteh.ai/catalog/standards/sist/89bd8b2a-f525-42c1-a42b-c2c2c4f834c2/sist-iso-7063-2020)

<https://standards.iteh.ai/catalog/standards/sist/89bd8b2a-f525-42c1-a42b-c2c2c4f834c2/sist-iso-7063-2020>



Reference number  
ISO 7063:2018(E)

© ISO 2018

## iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST ISO 7063:2020

<https://standards.iteh.ai/catalog/standards/sist/89bd8b2a-f525-42c1-a42b-c2c2c4f834c2/sist-iso-7063-2020>



### **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Fax: +41 22 749 09 47  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

<b>Contents</b>		Page
<b>Foreword</b> .....		<b>iv</b>
<b>Introduction</b> .....		<b>v</b>
<b>1</b>	<b>Scope</b> .....	<b>1</b>
<b>2</b>	<b>Normative references</b> .....	<b>1</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>1</b>
<b>4</b>	<b>Symbols</b> .....	<b>1</b>
<b>5</b>	<b>Dimensions</b> .....	<b>6</b>
	5.1 Track rollers — Yoke type.....	6
	5.2 Track rollers — Stud type.....	7
<b>6</b>	<b>Tolerances</b> .....	<b>8</b>
	6.1 General.....	8
	6.2 Track rollers — Yoke type.....	8
	6.3 Track rollers — Stud-type.....	9
<b>Bibliography</b> .....		<b>11</b>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST ISO 7063:2020](https://standards.iteh.ai/catalog/standards/sist/89bd8b2a-f525-42c1-a42b-c2c2c4f834c2/sist-iso-7063-2020)

<https://standards.iteh.ai/catalog/standards/sist/89bd8b2a-f525-42c1-a42b-c2c2c4f834c2/sist-iso-7063-2020>

## ISO 7063:2018(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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html). (standards.iteh.ai)

This document was prepared by Technical Committee ISO/TC 4, *Rolling bearings*, Subcommittee SC 5, *Needle, cylindrical and spherical roller bearings*. [SIST ISO 7063:2020](https://standards.iteh.ai/catalog/standards/sist/89bd8b2a-f525-42c1-a42b-2c348d8b0c1e/iso-7063-2018)

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

This third edition cancels and replaces the second edition (ISO 7063:2003), which has been technically revised. The main changes compared to the previous edition are as follows:

- Terms, definitions, symbols and dimensional tolerance indications in figures and tables have been revised according to rules of geometrical product specification (GPS) system.

This corrected version of ISO 7063:2018 incorporates the following correction:

- [Figure 2](#) has been corrected.

## Introduction

This document is a machine element geometry standard as defined in the geometrical product specification (GPS) system as presented in matrix model of ISO 14638.

The fundamental rules of ISO GPS given in ISO 8015 apply to this document and the default decision rules given in ISO 14253-1 apply to specifications made in accordance with this document, unless otherwise indicated.

The connection between functional requirements, measuring technique and measuring uncertainty is always intended to be considered. For measurement uncertainty, it is intended that ISO 14253-2 be considered.

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST ISO 7063:2020](https://standards.iteh.ai/catalog/standards/sist/89bd8b2a-f525-42c1-a42b-c2c2c4f834c2/sist-iso-7063-2020)

<https://standards.iteh.ai/catalog/standards/sist/89bd8b2a-f525-42c1-a42b-c2c2c4f834c2/sist-iso-7063-2020>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST ISO 7063:2020

<https://standards.iteh.ai/catalog/standards/sist/89bd8b2a-f525-42c1-a42b-c2c2c4f834c2/sist-iso-7063-2020>



# Rolling bearings — Needle roller bearing track rollers — Boundary dimensions, geometrical product specifications (GPS) and tolerance values

## 1 Scope

This document specifies dimensional characteristics, nominal boundary dimensions and tolerance values for needle roller bearing track rollers, yoke and stud types.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1101, *Geometrical product specifications (GPS) — Geometrical tolerancing — Tolerances of form, orientation, location and run-out*

ISO 5593, *Rolling bearings — Vocabulary*

ISO 14405-1, *Geometrical product specifications (GPS) — Dimensional tolerancing — Part 1: Linear sizes*

ISO/TS 17863, *Geometrical product specification (GPS) — Tolerancing of moveable assemblies*

SIST ISO 7063:2020

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1101, ISO 5593, ISO 14405-1, and ISO/TS 17863 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

## 4 Symbols

To express that the ISO/GPS system, ISO 8015, is applied, the dimensional characteristics shall be included in the technical product documentation (for example, on the drawing). The dimensional specifications associated to these characteristics are described in [Table 1](#), [Figure 1](#) and [Figure 2](#).

Descriptions for symbols are in accordance with GPS terminology.

A tolerance value associated to a characteristic is symbolised by  $t$  followed by the symbol for the characteristic, for example  $t_{\Delta D_{mp}}$ .

In this document, the ISO default specification operator for size is in accordance with ISO 14405-1, i.e. the two-point size is valid.