

# SLOVENSKI STANDARD SIST ISO 3547-3:2020

01-oktober-2020

Drsni ležaji - Zvite puše - 3. del: Mazalne luknje, utori in žepki

Plain bearings - Wrapped bushes - Part 3: Lubrication holes, grooves and indentations

Paliers lisses - Bagues roulées TANDARD PREVIEW

Ta slovenski standard je istoveten z: ISO 3547-3:2017

SIST ISO 3547-3:2020

https://standards.iteh.ai/catalog/standards/sist/ab698a51-aee8-4775-ab50-2a53b70975f5/sist-iso-3547-3-2020

ICS:

21.100.10 Drsni ležaji Plain bearings

21.260 Mazalni sistemi Lubrication systems

SIST ISO 3547-3:2020 en,fr,de

SIST ISO 3547-3:2020

# iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST ISO 3547-3:2020</u> https://standards.iteh.ai/catalog/standards/sist/ab698a51-aee8-4775-ab50-2a53b70975f5/sist-iso-3547-3-2020 SIST ISO 3547-3:2020

# INTERNATIONAL STANDARD

ISO 3547-3

Third edition 2017-02

# Plain bearings — Wrapped bushes —

Part 3:

Lubrication holes, grooves and indentations

Paliers lisses — Bagues roulées —

iTeh STPartie 3: Trous de graissage, rainures de graissage et creux de graissage (standards.iteh.ai)

SIST ISO 3547-3:2020

https://standards.iteh.ai/catalog/standards/sist/ab698a51-aee8-4775-ab50-2a53b70975f5/sist-iso-3547-3-2020



ISO 3547-3:2017(E)

# iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST ISO 3547-3:2020</u> https://standards.iteh.ai/catalog/standards/sist/ab698a51-aee8-4775-ab50-2a53b70975f5/sist-iso-3547-3-2020



## COPYRIGHT PROTECTED DOCUMENT

#### © ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, 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 Ch. de Blandonnet 8 • CP 401 CH-1214 Vernier, Geneva, Switzerland Tel. +41 22 749 01 11 Fax +41 22 749 09 47 copyright@iso.org www.iso.org

Contents			
Fore	eword		iv
1	Scop	e	1
2	Norr	native references	1
3	Tern	ns and definitions	1
4	Sym	bols and units	1
5	_	eral	
6		rication holes	
7	7.1 7.2 7.3	Fication grooves  General  Type M1  7.2.1 General  7.2.2 Type M1A  7.2.3 Type M1B  Type M2  7.3.1 General  7.3.2 Type M2A  7.3.3 Type M2B	3 3 3 4 4 5 5 5
8	8.1 8.2 8.3 8.4	Types N1 (standards.iteh.ai) Type N2 Type N3  SIST ISO 3547-3:2020	6 7
9	Desi	811au Ohttps://standards:itelr.ai/catalog/standards/sist/ab698a51-ace8-4775-ab50-	
Bibl	10		

ISO 3547-3:2017(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 <a href="www.iso.org/directives">www.iso.org/directives</a>).

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 <a href="https://www.iso.org/patents">www.iso.org/patents</a>).

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 meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: <a href="https://www.iso.org/iso/foreword.html">www.iso.org/iso/foreword.html</a>.

This document was prepared by Technical Committee ISO/TC 123, *Plain bearings*, Subcommittee SC 3, *Dimensions, tolerances and construction details*.

SIST ISO 3547-3:2020

This third edition cancels and replaces the second edition (ISO 3547-3:2006), which has been technically revised. 2a53b70975f5/sist-iso-3547-3-2020

A list of all the parts in the ISO 3547 series can be found on the ISO website.

# Plain bearings — Wrapped bushes —

# Part 3:

# Lubrication holes, grooves and indentations

## 1 Scope

This document specifies dimensions of lubrication holes, grooves and bore indentations on wrapped bushes made of mono and multi-layer bearing material for plain bearing applications.

NOTE Wrapped bushes with lubrication holes, grooves or bore indentations in accordance with this document can be ordered with dimensions in accordance with ISO 3547-1 and made from materials in accordance with ISO 3547-4.

#### 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 3547-1, Plain bearings — Wrapped bushes — Part 1: Dimensions

ISO 4378-1, Plain bearings — Terms, definitions, classification and symbols — Part 1: Design, bearing materials and their properties SIST ISO 3547-3:2020

https://standards.iteh.ai/catalog/standards/sist/ab698a51-ace8-4775-ab50-ISO 4378-4, Plain bearings — Terms, definitions, classification and symbols — Part 4: Basic symbols

#### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4378-1 and ISO 4378-4 apply.

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

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

## 4 Symbols and units

See <u>Table 1</u>.

Table 1 — Symbols and units

Symbol	Description	Unit
В	Width of the bush	mm
С	Edge length of the diamond-shaped lubrication indentation	mm
$D_{\mathrm{i}}$	Inside diameter of the bush	mm
$d_{\mathrm{b}}$	Diameter of the lubrication indentation	mm
$d_{ m L}$	Diameter of the lubrication hole	mm
$D_0$	Outside diameter of the bush	mm
е	Distance between the lubrication grooves	mm

#### ISO 3547-3:2017(E)

Table 1 (continued)

Symbol	Description	Unit
$n_1, n_2$	Width of lubrication groove	mm
R	Radius	mm
<i>S</i> 3	Wall thickness	mm
<i>S</i> 4	Residual wall thickness	mm
t	Depth of the lubrication indentation	mm
α	Layout of the lubrication indentation	0

### 5 General

Lubrication holes, grooves and bore indentations may be carried out in the flat strip prior to forming. Dimensional changes due to forming of the strip are permissible. Marks of lubrication grooves and bore indentations produced by stamping may appear on the back of the bush. Small cracks in the bearing material in lubrication grooves and bore indentations are permissible, provided that no pieces become detached.

Untoleranced and unspecified dimensions may be specified differently subject to agreement between the user and supplier.

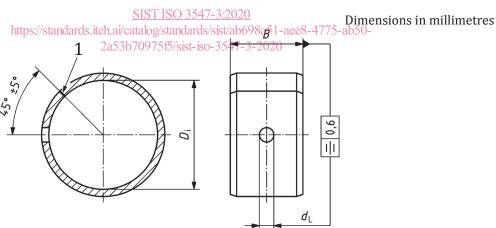
## 6 Lubrication holes

# iTeh STANDARD PREVIEW

See Figures 1 and  $\underline{2}$ .

(standards.iteh.ai)

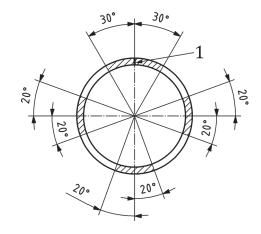
For the nominal dimensions, see <u>Table 2</u>.



#### Key

1 butt joint

Figure 1 — Lubrication holes (Type L) — Dimensions (see <u>Table 2</u>)



#### Key

#### 1 butt joint

Lubrication holes in the hatched areas should be avoided as far as possible.

Figure 2 — Lubrication holes (Type L) — Areas of bush not recommended for holes

Dimensions in millimetres **Ten STADIDARD PREVIE**  $_{d_L}$   $_{d_L}$ 

Table 2 — Nominal dimensions of lubrication holes

## 7 Lubrication grooves

#### 7.1 General

Lubrication grooves types M1 and M2 are used for lubrication. See Figures 3 to 8 and Tables 3 to 6.

Widening of the lubrication grooves in the area of the lubrication holes, at the butt joint and at the end faces of the bush, is permissible.

Lubrication grooves are normally represented on the developed shape of the bush before forming.

Distortions to the groove shape can occur during the outside diameter forming operations.

Minimum dimension after forming.

In order to facilitate measurement, the dimensions of the bush thickness remaining at the base of the groove may be specified on the drawing as the control dimension.

### **7.2** Type M1

#### 7.2.1 General

See Figure 3 and Table 3.