

# JIS

JAPANESE  
INDUSTRIAL  
STANDARD

Translated and Published by  
Japanese Standards Association

---

JIS D 9419 : 2021

(JBPI/JSA)

**Bicycles — Hubs**

---

ICS 43.150

Reference number : JIS D 9419 : 2021 (E)

PROTECTED BY COPYRIGHT

15 S

D 9419 : 2021

Date of Establishment: 1960-12-01

Date of Revision: 2021-03-22

Date of Public Notice in Official Gazette: 2021-03-22

Investigated by: Japanese Industrial Standards Committee  
Standards Board for ISO area

---

JIS D 9419 : 2021, First English edition published in 2022-06

Translated and published by: Japanese Standards Association  
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

---

In the event of any doubts arising as to the contents,  
the original JIS is to be the final authority.

© JSA 2022

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

HN

PROTECTED BY COPYRIGHT

## Contents

		Page
Introduction	.....	1
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Classification	2
5	Names of parts	3
6	Performances	3
7	Strength	5
8	Corrosion resistance	5
9	Construction	6
10	Shapes and dimensions	6
11	Appearance	8
12	Test methods	9
12.1	Strength test of joining or press-in fitting	9
12.2	Dynamic strength test of hub	9
13	Designations of products	9
14	Marking	9
Annex JA (informative)	ISO 6697 Cycles — Hubs and freewheels — Assembly dimensions	21
Annex JB (informative)	Comparison table between JIS and corresponding International Standard	23

## Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Bicycle Promotion Institute (JBPI)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS D 9419** : 2010), which has been technically revised.

This **JIS** document is protected by the Copyright Act.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, published patent application or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, published patent application or utility model rights.

# Bicycles — Hubs

## Introduction

This Japanese Industrial Standard has been prepared based on **ISO 6697** : 1994, Edition 1, by partially modifying the technical contents for the parts corresponding to this Standard (shapes and dimensions) but also adding some **JIS** specification contents that are not given in the said corresponding International Standard.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JB.

## 1 Scope

This Standard specifies the requirements for the hubs to be used for bicycles for general use, bicycles for young children and electric power assisted bicycles mainly specified in **JIS D 9111**. This Standard is not applicable to the electric power assisted bicycles in which a driving power assisting device is integrated with a hub.

**NOTE** The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 6697 : 1994 *Cycles — Hubs and freewheels — Assembly dimensions* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

- JIS B 0205-1 *ISO general purpose metric screw threads — Part 1 : Basic profile*
- JIS B 0205-2 *ISO general purpose metric screw threads — Part 2 : General plan*
- JIS B 0205-3 *ISO general purpose metric screw threads — Part 3 : Selected sizes for screws, bolts and nuts*
- JIS B 0205-4 *ISO general purpose metric screw threads — Part 4 : Basic dimensions*
- JIS B 0209-1 *ISO general purpose metric screw threads — Tolerances — Part 1 : Principles and basic data*
- JIS B 0209-2 *ISO general purpose metric screw threads — Tolerances — Part 2 :*