

# JIS

JAPANESE  
INDUSTRIAL  
STANDARD

Translated and Published by  
Japanese Standards Association

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JIS E 5402-2 : 2015

(JARI/JSA)

**Rolling stock — Solid wheel — Part 2:  
Dimensional and balancing requirements**

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ICS 45.060.01;77.140.99

Reference number: JIS E 5402-2 : 2015 (E)

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E 5402-2 : 2015

Date of Establishment: 1998-07-25

Date of Revision: 2015-01-20

Date of Public Notice in Official Gazette: 2015-01-20

Investigated by: Japanese Industrial Standards Committee

Standards Board

Technical Committee on Railways and Rolling Stock

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JIS E 5402-2 : 2015, First English edition published in 2024-10

Translated and published by: Japanese Standards Association  
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Printed in Japan

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## Foreword

This Japanese Industrial Standard has been revised by the Minister of Land, Infrastructure, Transport and Tourism through deliberations at the Japanese Industrial Standards Committee as the result of a proposal for revision of Japanese Industrial Standard submitted by Japan Association of Rolling Stock Industries (JARI)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12, Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently, **JIS E 5402-2 : 2005** is replaced with this Standard.

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**JIS E 5402** series consists of the following 2 parts under the general title *Rolling stock — Solid wheel*:

**JIS E 5402-1** *Part 1: Quality requirements*

**JIS E 5402-2** *Part 2: Dimensional and balancing requirements*

# Rolling stock — Solid wheel — Part 2: Dimensional and balancing requirements

## Introduction

This Japanese Industrial Standard has been prepared based on ISO 1005-8 : 1986, Edition 1, with some modifications of the technical contents to align with the actual situation in Japan.

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

1.1 This Standard specifies requirements for the following items of rolled, forged, or cast solid wheels (hereafter referred to as wheels) of unalloyed steels for rolling stock in accordance with Table 1 and Table 1A of JIS E 5402-1 and Clause 4:

- a) the dimensional requirements<sup>1)</sup> shown in Table 3, Table 4, and Table 4A (see 5.1);
- b) the surface roughness (see 5.2);
- c) the residual static imbalance (see 5.3).

Note<sup>1)</sup> Dimensional requirements refer to processing tolerance, dimensional tolerance, geometric tolerance, and position tolerance.

1.2 The quality requirements for solid wheels that correspond to this Standard are specified in JIS E 5402-1.

1.3 In addition to the requirements of this Standard, the requirements of JIS G 0404 are applicable.

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

ISO 1005-8 : 1986 *Railway rolling stock material — Part 8: Solid wheels for tractive and trailing stock — Dimensional and balancing requirements* (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. For standards with the year indication, only the editions of the indicated year shall be applied and the revisions (including amend-