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English Version

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Applications ferroviaires - Essieux montés et bogies - Essieux montés - Prescriptions pour le produit

Bahnanwendungen - Radsätze und Drehgestelle - Radsätze - Produktanforderungen

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European foreword

This document (prEN 13260:2023) was prepared by the CEN/TC 256 “Railway Applications” Technical Committee, the secretariat of which is held by the DIN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 13260:2020.

In comparison with the previous edition EN 13260:2020, the following technical modifications have been made:

— correction of several editing mistakes leading to technical misunderstandings;

— a clearer definition of the requirements for dynamic imbalance (4.2.4) and fatigue tests (4.2.2);

— a clarification of the product qualification conditions (Annex D);

— a clearer definition of the allowable rectifications of the wheelset after assembly (E.5).

This document has been prepared under a standardization request given to CEN/CENELEC by the European Commission and the European Free Trade Association and supports essential requirements of Directive (EU) 2016/797.

For the relationship with Directive (EU) 2016/797, see informative Annex ZA, which is an integral part of this document.

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Introduction

After several years of use of the first editions of this document, this new edition includes improvements and additional data.

The product requirements have been harmonized across all three standards for wheelsets, wheels and axles.

In addition, the annexes concerning product qualification and the conditions of product supply, which were previously informative, were modified taking into account feedback and have become normative.

Due to significant in-service feedback on wheelsets in accordance with European Product Design and Qualification Standards, the fatigue test for the assembly is now limited in this revision to specific assembly designs and processes.

Annex A, with the press-fitting curves, contains much more detail than the previous version.

Annex C contains information for identifying wheelset components on the basis of standard EN 15313:2016. In addition, the “Freight Wagons” and “Locomotive and Passenger Vehicles” Rolling Stock TSIs require that a production verification process exists.

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1 Scope

This document specifies the characteristics of wheelsets for all heavy rail track gauges.

This document applies to heavy rail vehicles and applies, in principle, to other vehicles such as urban rail vehicles.

This document applies to wheelsets made from elements defined by the following European standards:

— EN 13262:2020 for wheels;

— EN 13261:2020 for axles.

The requirements defined in this document apply to cylindrical wheel seats. Most of the requirements also apply to wheelsets with conical wheel seats. If needed, specific requirements for conical wheel seats (e.g. press-fitting curves, geometric dimensions...) are defined in the technical specification.

Some characteristics are given according to category 1 or category 2.

2 Normative references

The following documents referred to in the text establish, for all or part of their content, the requirements of this document. For dated references, only the cited edition applies. For undated references, the last edition of the reference document applies (including any amendments).

EN 13103-1:2017, *Railway applications — Wheelsets and bogies — Part 1: Design method for axles with external journals*

EN 13261:2020, *Railway applications — Wheelsets and bogies — Axles — Product requirements*

EN 13262:2020, *Railway applications — Wheelsets and bogies — Wheels — Product requirements*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for standardization, which can be accessed via the following addresses:

— IEC Electromedia: available at https://www.electropedia.org/

— ISO Online browsing platform: available at https://www.iso.org/obp

3.1
technical specification
document describing specific parameters and/or product requirements in addition to the requirements of this document

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