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Railway applications - Rolling stock - Requirements for non-destructive testing on running gear in railway maintenance - Part 1: Wheelsets

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NATIONAL FOREWORD

See Eesti standard EVS-EN 16910-1:2018 sisaldab Euroopa standardi EN 16910-1:2018 ingliskeelset teksti.	This Estonian standard EVS-EN 16910-1:2018 consists of the English text of the European standard EN 16910-1:2018.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 18.04.2018.	Date of Availability of the European standard is 18.04.2018.
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ICS 45.040

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 16910-1

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English Version

Railway applications - Rolling stock - Requirements for non-destructive testing on running gear in railway maintenance - Part 1: Wheelsets

Applications ferroviaires - Matériel roulant - Exigences pour les essais non destructifs sur les organes de roulement lors de la maintenance ferroviaire - Partie 1: Essieux

Bahnanwendungen - Schienenfahrzeuge - Anforderungen an die zerstörungsfreie Prüfung an Fahrwerken in der Instandhaltung - Teil 1: Radsätze

This European Standard was approved by CEN on 22 January 2018.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Contents

Page

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European foreword

This document (EN 16910-1:2018) has been prepared by Technical Committee CEN/TC 256 “Railway applications”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2018, and conflicting national standards shall be withdrawn at the latest by October 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive 2008/57/EC.

For relationship with EU Directive 2008/57/EC, see informative Annex ZA, which is an integral part of this document.

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Introduction

For many years, non-destructive testing (NDT) has been used as a part of the maintenance system on European networks to control the influence of in-service condition on safety-relevant assembly groups, components and parts in order to ensure that the inspected entity treated will be used in-service in a safe condition.

The maintenance standard (EN 15313 wheelsets maintenance) requires appropriately trained and capable personnel undertaking these NDT maintenance tasks (see EN ISO 9712:2012).

The purpose of this document is to describe the necessary requirements on NDT additional to the existing standards to promote safety, interoperability and cross acceptance.

The maintenance plan for wheelsets should ensure safe operation of railway vehicles at the right cost. It deals with wear, unexpected damages, and takes into account the vehicles usage and the track conditions. In this context, NDT is used to search for defects and failures on wheelsets.

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1 Scope

This European Standard provides the specific requirements for NDT of wheelsets for:

— in-service maintenance;

— off-vehicle maintenance;

— NDT personnel;

— NDT documentation (Procedure and Instruction);

— traceability of the maintenance NDT results.

It gives guidance for the introduction of new NDT techniques.

For this standard, the following NDT methods are considered:

— Ultrasonic testing (UT);

— Magnetic particle testing (MT);

— Eddy Current testing (ET).

Other methods considered in EN ISO 9712:2012 are outside the scope of this standard.

For this purpose, a catalogue of the common defects is given as guidance. Examples of common NDT indications are given in an informative annex.

Specific NDT requirements relating to the quality of new products delivered by manufacturers are not within the scope of this European Standard.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 15313, *Railway applications - In-service wheelset operation requirements - In-service and off-vehicle wheelset maintenance*

EN ISO 9712:2012, *Non-destructive testing - Qualification and certification of NDT personnel (ISO 9712:2012)*

CEN ISO/TR 25107:2006, *Non-destructive testing — Guidelines for NDT training syllabuses (ISO/TR 25107:2006)*

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