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Railway applications - Track - Track geometry quality - Part 3: Measuring systems - Track construction and maintenance machines

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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See Eesti standard EVS-EN 13848-3:2021 sisaldab Euroopa standardi EN 13848-3:2021 ingliskeelset teksti.	This Estonian standard EVS-EN 13848-3:2021 consists of the English text of the European standard EN 13848-3:2021.
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 and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 22.12.2021.	Date of Availability of the European standard is 22.12.2021.
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ICS 93.100

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 13848-3

December 2021

ICS 93.100

Supersedes EN 13848-3:2009

English Version

Railway applications - Track - Track geometry quality - Part 3: Measuring systems - Track construction and maintenance machines

Applications ferroviaires - Voie - Qualité géométrique de la voie - Partie 3 : Systèmes de mesure - Engins de construction et de maintenance de la voie

Bahnanwendungen - Oberbau - Gleislagequalität - Teil 3: Messsysteme - Gleisbau- und Instandhaltungsmaschinen

This European Standard was approved by CEN on 24 October 2021.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN 13848-3:2021) 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of an identical text or by endorsement, at the latest by June 2022, and conflicting national standards shall be withdrawn at the latest by June 2022.

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 supersedes EN 13848-3:2009.

The main differences between this version and the previous version are the following:

— Formula (1) has been revised using the Math Type tool.

— Table D.1 has been drafted as a table rather than a figure.

This document is one of the series EN 13848 “*Railway applications — Track — Track Geometry quality*” as listed below:

— *Part 1: Characterization of track geometry*

— *Part 2: Measuring systems — Track recording vehicles*

— *Part 3: Measuring systems — Track construction and maintenance machines*

— *Part 4: Measuring systems — Manual and lightweight devices*

— *Part 5: Geometric quality levels*

— *Part 6: Characterization of track geometry quality*

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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1 Scope

This document specifies the minimum requirements for measuring systems fitted on track construction and maintenance machines to give an evaluation of track geometry quality when they measure any one or several of the parameters described in EN 13848-1.

This document also gives the acceptable differences from EN 13848-1 when using chord measurements.

This document does not specify:

— requirements for vehicle acceptance;

— criteria for track works acceptance;

— requirements for Urban Rail Systems.

Only systems put into service after the document comes into force are concerned.

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.

EN 13848-1:2019, *Railway applications — Track — Track geometry quality — Part 1: Characterization of track geometry*

EN 13848-2:2020, *Railway applications — Track — Track geometry quality — Part 2: Measuring systems — Track recording vehicles*

3 Terms and definitions

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

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

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

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

3.1
track construction and maintenance machine
OTMM
self-propelled or hauled machine/vehicle which is used in construction, maintenance and/or improvement of the quality of the infrastructure and which is equipped with a track geometry measuring system

Note 1 to entry: Track construction and maintenance machines are part of on-track machines (OTM).

3.2
sensor
device which detects, measures and translates characteristics of track geometry into quantities that can be used for further data processing

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