RAUDTEEALASED RAKENDUSED. RÖÖBASTEE. RÖÖBASTEE GEOMEETRILINE KVALITEET. OSA 3: MÕÕTESÜSTEEMID. RÖÖBASTEE EHITUS- JA HOOLDUSMASINAD

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

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NATIONAL FOREWORD

See Eesti standard EVS-EN 13848-3:2009 sisaldab Euroopa standardi EN 13848-3:2009 ingliskeelset teksti.	This Estonian standard EVS-EN 13848-3:2009 consists of the English text of the European standard EN 13848-3:2009.
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 22.04.2009.	Date of Availability of the European standard is 22.04.2009.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 93.100

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 13848-3

April 2009

ICS 93.100

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 travaux et de maintenance de la voie

Bahnanwendungen - Oberbau - Qualität der Gleisgeometrie - Teil 3: Messsysteme - Gleisbau- und Instandhaltungsmaschinen

This European Standard was approved by CEN on 19 March 2009.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Ref. No. EN 13848-3:2009: E

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Foreword

This document (EN 13848-3:2009) 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of an identical text or by endorsement, at the latest by October 2009, and conflicting national standards shall be withdrawn at the latest by October 2009.

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

This European Standard is one of the series EN 13848 “*Railway applications – Track – Track geometry quality*” as listed below:

Part 1: Characterisation 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

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

1 Scope

This European Standard specifies the minimum requirements that shall be met by measuring systems fitted on track construction and maintenance machines to give an evaluation of track geometry quality when measuring one or more of the parameters described in EN 13848-1. It does not seek to prescribe which parameters are to be measured, since these depend upon the measuring capabilities of the machine and the purpose for which the machine or its measuring system is used.

It also sets out the acceptable differences from EN 13848-1 when using track construction and maintenance machines to measure track geometry. It applies to track geometry measuring systems which are fitted to track construction and maintenance machines from one year after the date of implementation of this standard.

2 Normative references

The following referenced documents are indispensable for the application 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 13848-1:2003+A1:2008, *Railway applications – Track – Track geometry quality – Part 1: Characterisation of track geometry*

EN 13848-2:2006, *Railway applications – Track – Track geometry quality – Part 2: Measuring systems – Track recording vehicles*

ENV 13005:1999, *Guide to the expression of uncertainty in measurement*

3 Terms and definitions

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

3.1
track construction and maintenance machine
self propelled or hauled machine/vehicle designed to construct track, maintain track and/or improve the quality of track and which is equipped with track geometry measuring systems. Also referred to as “machine” in this European Standard

3.2
machine
same as “track construction and maintenance machine” (3.1)

3.3
sensor
device which detects, measures and translates characteristics of track geometry into quantities that can be used for further data processing

3.4
measuring direction
course between two points on a track, independent of orientation of the machine; between two given points A and B, there are two opposite directions: A to B and B to A

3.5
orientation
physical positioning of a vehicle, e.g. a track construction and maintenance machine, with regards to which end of the vehicle is leading or trailing