

DIN EN 15746-1



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Supersedes
DIN EN 15746-1:2011-12 and
DIN EN 15746-1 Corrigendum
1:2013-05

**Railway applications –
Track - Road rail machines and associated equipment –
Part 1: Technical requirements for travelling and working;
English version EN 15746-1:2020,
English translation of DIN EN 15746-1:2021-05**

Bahnanwendungen –
Oberbau - Zweiwege-Maschinen und zugehörige Ausrüstungen –
Teil 1: Technische Anforderungen an die Versetzfahrt und den Arbeitseinsatz;
Englische Fassung EN 15746-1:2020,
Englische Übersetzung von DIN EN 15746-1:2021-05

Applications ferroviaires –
Voie - Machines rail-route et équipements associés –
Partie 1: Prescriptions techniques pour le déplacement et le travail;
Version anglaise EN 15746-1:2020,
Traduction anglaise de DIN EN 15746-1:2021-05

Document comprises 91 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.

A comma is used as the decimal marker.

National foreword

This document (EN 15746-1:2020) has been prepared by Technical Committee CEN/TC 256 “Railway applications” (Secretariat: DIN, Germany).

The responsible German body involved in its preparation was *DIN-Normenausschuss Fahrweg und Schienenfahrzeuge* (DIN Standards Committee Railway), Subcommittee NA 087-00-01-02 UA “Track construction and maintenance machines”.

In addition to the legal units of measurement, this standard also uses the unit “in (inch)”, the use of which is not allowed in Germany. It should, however, be noted that the *Gesetz über Einheiten im Messwesen* (German Law on units in metrology) prohibits the use of this unit for official and commercial purposes in Germany. The indication of this unit solely serves to facilitate the communication with those countries where this unit is used (import-export business).

Conversion:

Non-SI unit	SI unit	Conversion
in (inch)	mm	1 inch = 24,5 mm

DIN EN 15746 consists of the following parts, under the general title *Railway applications — Track — Road rail machines and associated equipment*:

- *Part 1: Technical requirements for travelling and working* (this document)
- *Part 2: General safety requirements*
- *Part 3: Technical requirements for running*
- *Part 4: Technical requirements for running, travelling and working on urban rail*

For current information on this document, please go to DIN’s website (www.din.de) and search for the document number in question.

Amendments

This standard differs from DIN EN 15746-1:2011-12 and DIN EN 15746-1 Corrigendum 1:2013-05 as follows:

- general: all references have been updated according to the latest version;
- running, travelling and working modes have been adapted;
- requirements solely for the running mode have been moved to the new Part 3 of the standards series;
- a new subclause 4.3 has been included;
- subclause 5.5 on safety against derailment has been enhanced to provide greater clarity and increased options for testing;

- f) in 5.6, specific requirements for the prevention of overturning have been moved from EN 15746-2:2010+A1:2011, 5.11 with enhanced requirements for RCI/RCL and data recording;
- g) in 5.7, requirements for frame structure have been simplified;
- h) requirements for demountable modules have been added;
- i) in 5.8, more specific requirements for couplings for road-rail machines have been added;
- j) in 5.14, requirements for lighting have been amended;
- k) in 5.16, requirements for pantographs have been enhanced;
- l) a new subclause 5.24 on environmental protection has been included;
- m) annexes: all annexes have been reviewed and updated;
- n) Annex C is now informative;
- o) Annex D is now informative, and the identification number now starts with ZZ;
- p) Annex E is now informative.

Previous editions

DIN EN 15746-1: 2010-09, 2011-12

DIN EN 15746-1 Corrigendum 1: 2013-05

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English Version

Railway applications -
Track -
Road-rail machines and associated equipment -
Part 1: Technical requirements for travelling and working

Applications ferroviaires -
Voie -
Machines rail-route et équipements associés -
Partie 1: Prescriptions techniques pour le déplacement
et le travail

Bahnanwendungen -
Oberbau -
Zweiwege-Maschinen und zugehörige Ausrüstungen -
Teil 1: Technische Anforderungen an die Versetzfahrt
und den Arbeitseinsatz

This European Standard was approved by CEN on 5 May 2019.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN 15746-1:2020) 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 2021, and conflicting national standards shall be withdrawn at the latest by June 2021.

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 15746-1:2010+A1:2011.

Principal amended clauses compared to EN 15746-1:2010+A1:2011:

- general All references updated to latest issue;
- running, travelling and working modes adopted;
- requirements solely for running mode moved to new EN 15746-3:2020;
- 4.3 New clause;
- 5.5 Clause on safety against derailment enhanced to provide greater clarity and increased options for testing;
- 5.6 Specific requirements for prevention of overturning moved from EN 15746-2:2010+A1:2011, 5.11 with enhanced requirements for RCI/RCL and data recording;
- 5.7 Requirements for frame structure simplified;
- requirements for demountable modules added;
- 5.8 Requirements for couplings made more specific for road-rail machines;
- 5.14 Requirements for lighting amended;
- 5.16 Requirements for pantographs enhanced;
- 5.24 New clause for environmental protection;
- Annexes All annexes reviewed and updated;
- Annex C Now informative;
- Annex D Now informative and the identification number changed to commence ZZ;
- Annex E Now informative.

EN 15746, *Railway applications — Track — Road-rail machines and associated equipment*, is currently composed with the following parts:

- *Part 1: Technical requirements for travelling and working;*
- *Part 2: General safety requirements;*
- *Part 3: Technical requirements for running;*
- *Part 4: Technical requirements for running, travelling and working on urban rail.*

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.