

STN	Nákladné bicykle Časť 3: Lhké viacstopové nákladné bicykle Mechanické aspekty	STN EN 17860-3 30 9049
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Carrier Cycles - Part 3: Lightweight multi track carrier cycles - Mechanical aspects

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 10/24

Obsahuje: EN 17860-3:2024

139440

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2024
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

EUROPEAN STANDARD

EN 17860-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2024

ICS 43.150

English Version

Carrier Cycles - Part 3: Lightweight multi track carrier cycles - Mechanical aspects

Cycles utilitaires - Partie 3 : Cycles utilitaires légers à 3 roues et plus - Aspects mécaniques

Lastenfahrräder - Teil 3: Leichte mehrspurige Lastenfahrräder - Mechanische Aspekte

This European Standard was approved by CEN on 14 July 2024.

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European foreword

This document (EN 17860-3:2024) has been prepared by Technical Committee CEN/TC 333 “Cycles”, the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by March 2025, and conflicting national standards shall be withdrawn at the latest by March 2025.

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 is part of standard series consisting of the following parts, users are invited to check which parts are applicable to their situation

- FprEN 17860-1:2023, Cycles — Carrier Cycles — Part 1: Vocabulary
- FprEN 17860-2:2023, Cycles — Carrier Cycles — Part 2: Lightweight single track carrier cycles – mechanical and functional aspects
- FprEN 17860-3:2023, Cycles — Carrier Cycles — Part 3: Lightweight multi track carrier cycles – mechanical and functional aspects
- prEN 17860-4, Cycles — Carrier Cycles — Heavyweight multi track carrier cycles – mechanical and functional aspects
- prEN 17860-5:2023, Cycles — Carrier Cycles — Electrical aspects
- prEN 17860-6, Cycles — Carrier Cycles — Passenger transport
- prEN 17860-7:2023, Cycles — Carrier Cycles — Trailers

Examples of carrier cycle configurations can be found in EN 17860-2:2024, Annex A. EN 17860-2:2024, Annex B provides a reading guide for parts 2,3 and 4 of this standard series.

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, Türkiye and the United Kingdom.

EN 17860-3:2024 (E)**Introduction**

This document gives requirements and test methods for mechanical and functional aspects for multi track carrier cycles.

This document has been developed in response to demand throughout Europe. Its aim is to provide a standard for the assessment of mechanical aspects for multi track carrier cycles of a type which are excluded from type approval by Regulation (EU) No. 168/2013.

Because of the diversity of geometries and solutions of carrier cycles not all requirements and test methods in this document may apply to every carrier cycle.

- Annex A in FprEN 17860-2:2023 gives an overview of vehicle configurations.
- Annex B in FprEN 17860-2:2023 provides a reading guide for the parts of this standard series.
- Annex J in FprEN 17860-2:2023 contains a rationale explaining the choices made when developing the standard series

This document is based on a risk analysis, the focus is on mechanical aspects for multitrack carrier cycles. This document is a type C standard as specified in EN ISO 12100. The machinery concerned and the extent to which hazards, hazardous situations and hazardous events are covered are indicated in the scope of this document.

1 Scope

This document is applicable to multi track carrier cycles with or without electric assistance and a maximum gross vehicle weight of 300 kg.

NOTE1 Requirements that are similar to single track carrier cycles are covered in Part 2 of this standard series.

NOTE2 Requirements for electrical power assisted carrier cycles will be covered in Part 5 of this standard series.

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 17860-1:2024, *Cycles — Carrier Cycles — Part 1: Vocabulary*

EN 17860-2:2024, *Cycles — Carrier Cycles — Part 2: Lightweight single track carrier cycles – mechanical and functional aspects*

EN 17860-7:—,¹ *Cycles — Carrier Cycles — Trailers*

EN ISO 4210-3:2023, *Cycles - Safety requirements for bicycles - Part 3: Common test methods (ISO 4210-3:2023)*

EN ISO 4210-6:2023, *Cycles - Safety requirements for bicycles - Part 6: Frame and fork test methods (ISO 4210-6:2023, Corrected version 2023-08)*

EN ISO 12100:2010, *Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010)*

ISO 5775-1:2023, *Bicycle tyres and rims — Part 1: Tyre designations and dimensions*

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