

<b>STN</b>	<b>Cestné vozidlá Spojovacie gule pre karavany a ľahké prívesy Rozmery</b>	<b>STN ISO 1103  30 3651</b>
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Road vehicles

Coupling balls for caravans and light trailers

Dimensions

Véhicules routiers

Boules d'attelage pour caravanes et remorques légères

Caractéristiques dimensionnelles

Táto slovenská technická norma obsahuje anglickú verziu medzinárodnej normy ISO 1103: 2007 a má postavenie oficiálnej verzie.

This Slovak standard includes the English version of the International standard ISO 1103: 2007 and has the status of the official version.

**139705**

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2025

Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

## Anotácia

Táto medzinárodná norma stanovuje rozmery potrebné na zabezpečenie zameniteľnosti mechanických spojovacích zariadení medzi ľahkými prívesmi alebo karavanmi a ťažnými vozidlami, ak sú tieto vybavené spojovacou guľou. Voľný priestor okolo spojovacej guľe je určený na umožnenie spojenia a odpojenia ťahaných vozidiel a na bezpečné vykonávanie pracovných úkonov v priebehu spájania a odpájania spojovacieho zariadenia.

Táto medzinárodná norma platí na spojovacie guľe konštrukčne navrhnuté na spájanie karavanov a ľahkých prívesov kategórie O<sub>1</sub> a O<sub>2</sub> s vozidlami kategórie M alebo N. Nevzťahuje sa to na špeciálne prívesy ťahané špeciálnymi vozidlami.

## Národný predhovor

### Normatívne referenčné dokumenty

Na nasledujúce dokumenty sa odkazuje v texte takým spôsobom, že časť ich obsahu alebo celý obsah predstavuje požiadavky tohto dokumentu. Pri datovaných odkazoch sa používa len citované vydanie. Pri nedatovaných odkazoch sa používa najnovšie vydanie citovaného dokumentu (vrátane akýchkoľvek zmien).

POZNÁMKA 1. – Ak bola medzinárodná publikácia zmenená spoločnými modifikáciami, čo je indikované označením (mod), použije sa príslušná EN/HD.

POZNÁMKA 2. – Aktuálne informácie o platných a zrušených STN a TNI možno získať na webovom sídle [www.unms.sk](http://www.unms.sk).

ISO 1176: 1990 prijatá ako STN ISO 1176: 1995 Cestné vozidlá. Hmotnosti. Terminológia a kódy (30 0030)

ISO 1302: 2002 prijatá ako STN EN ISO 1302: 2004 Geometrické špecifikácie výrobkov (GPS). Označovanie charakteru povrchu v technickej dokumentácii výrobku (ISO 1302: 2002) (01 3144)

POZNÁMKA 3. – ISO 1302: 2002 bola zrušená a nahradená ISO 21920-1: 2021 prijatá ako STN EN ISO 21920-1: 2024 Geometrické špecifikácie výrobkov (GPS). Charakter povrchu: Profil. Časť 1: Označovanie charakteru povrchu (ISO 21920-1: 2021) (01 4445).

ISO 3853: 1994 prijatá ako STN ISO 3853: 2000 Cestné vozidlá. Spájacie ťažné zariadenia vozidiel ku ťažným karavanom alebo ľahkým prívesom. Skúška mechanickej pevnosti (30 3652)

### Súvisiace právne predpisy

predpis Európskej hospodárskej komisie Organizácie Spojených národov (EHK/OSN) č. 26 – Jednotné ustanovenia pre homologizáciu vozidiel z hľadiska ich vonkajších výčnelkov

predpis Európskej hospodárskej komisie Organizácie Spojených národov (EHK OSN) č. 55 – Jednotné ustanovenia o schvaľovaní mechanických spojovacích komponentov súprav vozidiel

### Vypracovanie

**Spracovateľ:** Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, Bratislava

**Technická komisia:** TK 33 Cestné vozidlá

# INTERNATIONAL STANDARD

# ISO 1103

Fourth edition  
2007-06-01

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## Road vehicles — Coupling balls for caravans and light trailers — Dimensions

*Véhicules routiers — Boules d'attelage pour caravanes et remorques  
légères — Caractéristiques dimensionnelles*



Reference number  
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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 1103 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 4, *Caravans and light trailers*.

This fourth edition cancels and replaces the third edition (ISO 1103:1996), which has been technically revised.



# Road vehicles — Coupling balls for caravans and light trailers — Dimensions

## 1 Scope

This International Standard lays down the dimensions necessary for the compatibility of mechanical coupling devices between light trailers or caravans and towing vehicles, when the latter are fitted with a coupling ball. The clearance space around the coupling ball is intended to allow coupling and decoupling of towed vehicles, as well as safe operation during coupling and uncoupling of mechanical devices.

This International Standard applies to coupling balls designed to couple caravans and light trailers of categories  $O_1$  and  $O_2$ <sup>1)</sup> to vehicles of categories M or N. It does not necessarily apply to special trailers drawn by special vehicles.

## 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.

ISO 1176:1990, *Road vehicles — Masses — Vocabulary and codes*

ISO 1302:2002, *Geometrical Product Specifications (GPS) — Indication of surface texture in technical product documentation*

ISO 3853:1994, *Road vehicles — Towing vehicle coupling device to tow caravans or light trailers — Mechanical strength test*

UN-ECE Regulation No.26, *Uniform provisions concerning the approval of vehicles with regard to their external projections*

UN-ECE Regulation No.55, Revision 1:2001, *Uniform provisions concerning the approval of mechanical couplings components of combinations of vehicles*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**

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1) Definitions from UN-ECE Regulation No.13, incorporating the 06 series of amendments:

- Category  $O_1$ : Single-axle trailers, other than semi-trailers, with a maximum mass not exceeding 0,75 t;
- Category  $O_2$ : Trailers with a maximum mass not exceeding 3,5 t other than trailers of category  $O_1$ ;
- Category M: Motor vehicles with at least 4 wheels designed and made for the transport of passengers;
- Category N: Motor vehicles with at least 4 wheels designed and made for the carriage of goods.