



**International  
Standard**

**ISO 5216**

**Commercial road vehicles —  
Ball-bearing turntable —  
Interchangeability**

*Véhicules routiers utilitaires — Plateau tournant à roulement à billes — Interchangeabilité*

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at [www.iso.org/patents](http://www.iso.org/patents). ISO shall not be held responsible for identifying any or all such patent rights.

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 40, *Specific aspects for light and heavy commercial vehicles, busses and trailers*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

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# Commercial road vehicles — Ball-bearing turntable — Interchangeability

## 1 Scope

This document specifies dimensions of ball-bearing turntable when mounted on a vehicle which is part of vehicle combinations specified in of ISO 18868:2013, Clause 4, to ensure their interchangeability.

This document also applies to the following:

- drawbar trailers using a ball-bearing turntable to steer the front axle;
- ball-bearing turntables assembled with the fifth-wheel of the road tractor (truck) to improve steering manoeuvre.

## 2 Normative references

There are no normative references in this document.

## 3 Terms and definitions

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

ISO and IEC maintain terminology 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

#### ball-bearing turntable

ball race

bearing built specifically for trailer and semi-trailer application to enable the rotation of the swivelling support attached to the vehicle chassis, supporting vertical and horizontal loads and suitable for the application under a fifth wheel coupling

Note 1 to entry: See [Figure 1](#).

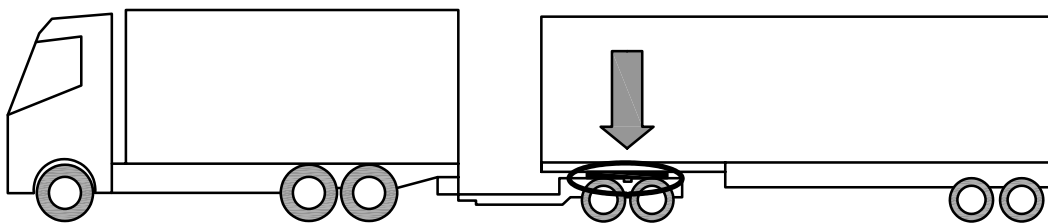


Figure 1 — Example of ball-bearing location

## 4 Standard ball-bearing turntables geometrical requirements

### 4.1 Radial section

The radial section shall be one of the types shown in [Figure 2](#). Dimensions of the types shall be according to [Table 1](#). Dimensions not specified are left to the discretion of the component manufacturer.

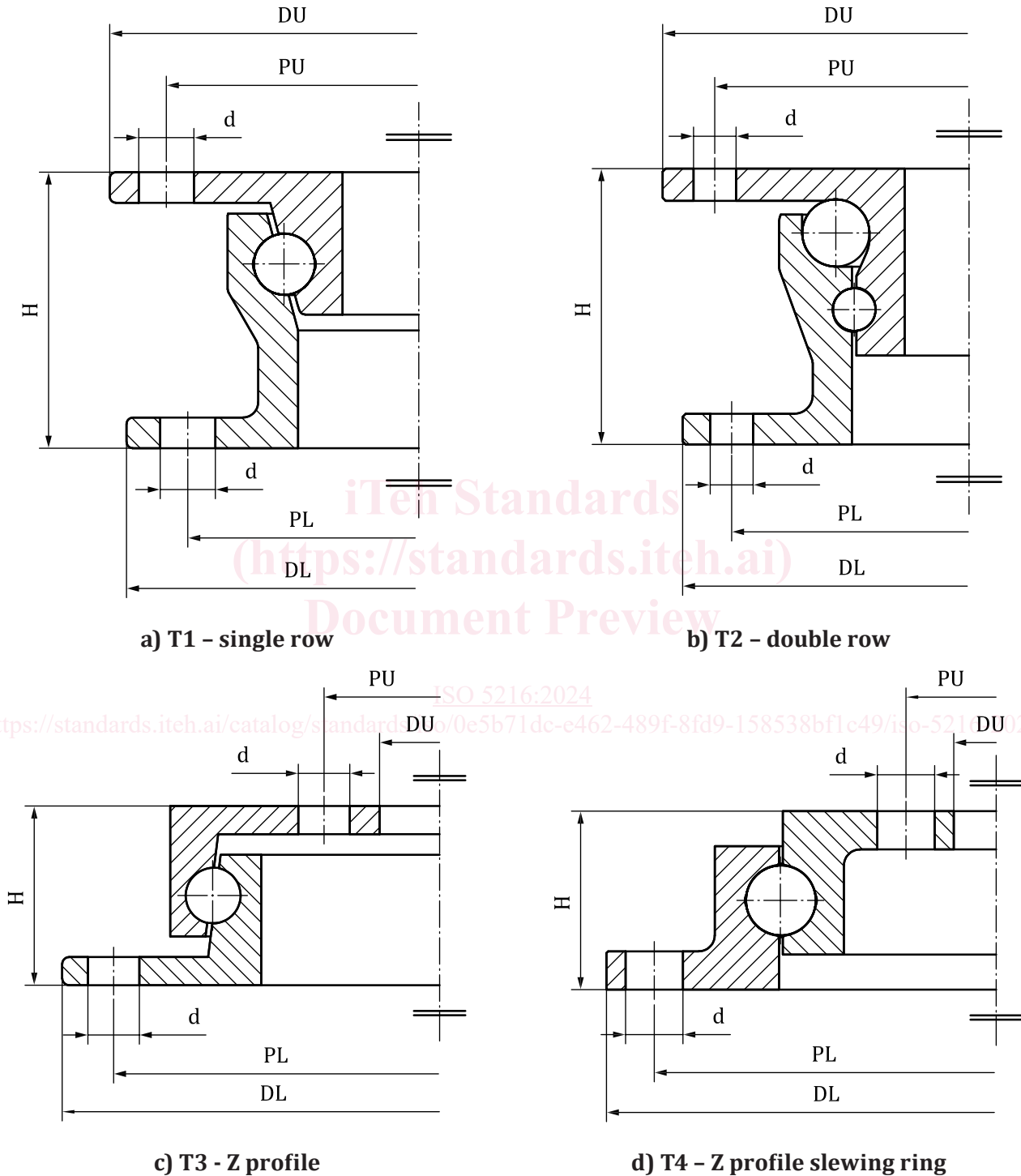


Figure 2 — Radial section types