



International  
Standard

ISO 5216

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

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

First edition

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## Foreword

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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)).

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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/>

<https://standards.iteh.ai/catalog/standards/iso/0e5b71dc-e462-489f-8fd9-158538bffc49/iso-prf-5216>

### 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](#).

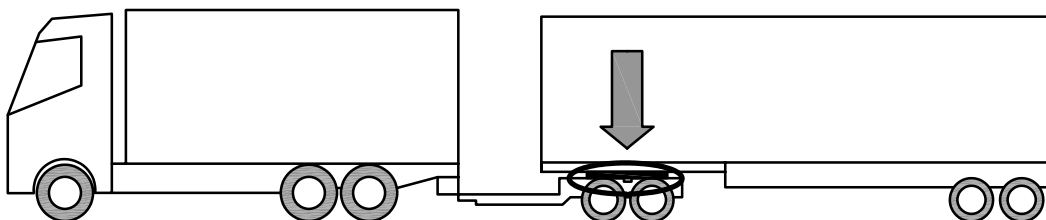


Figure 1 — Example of ball-bearing location

## 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.

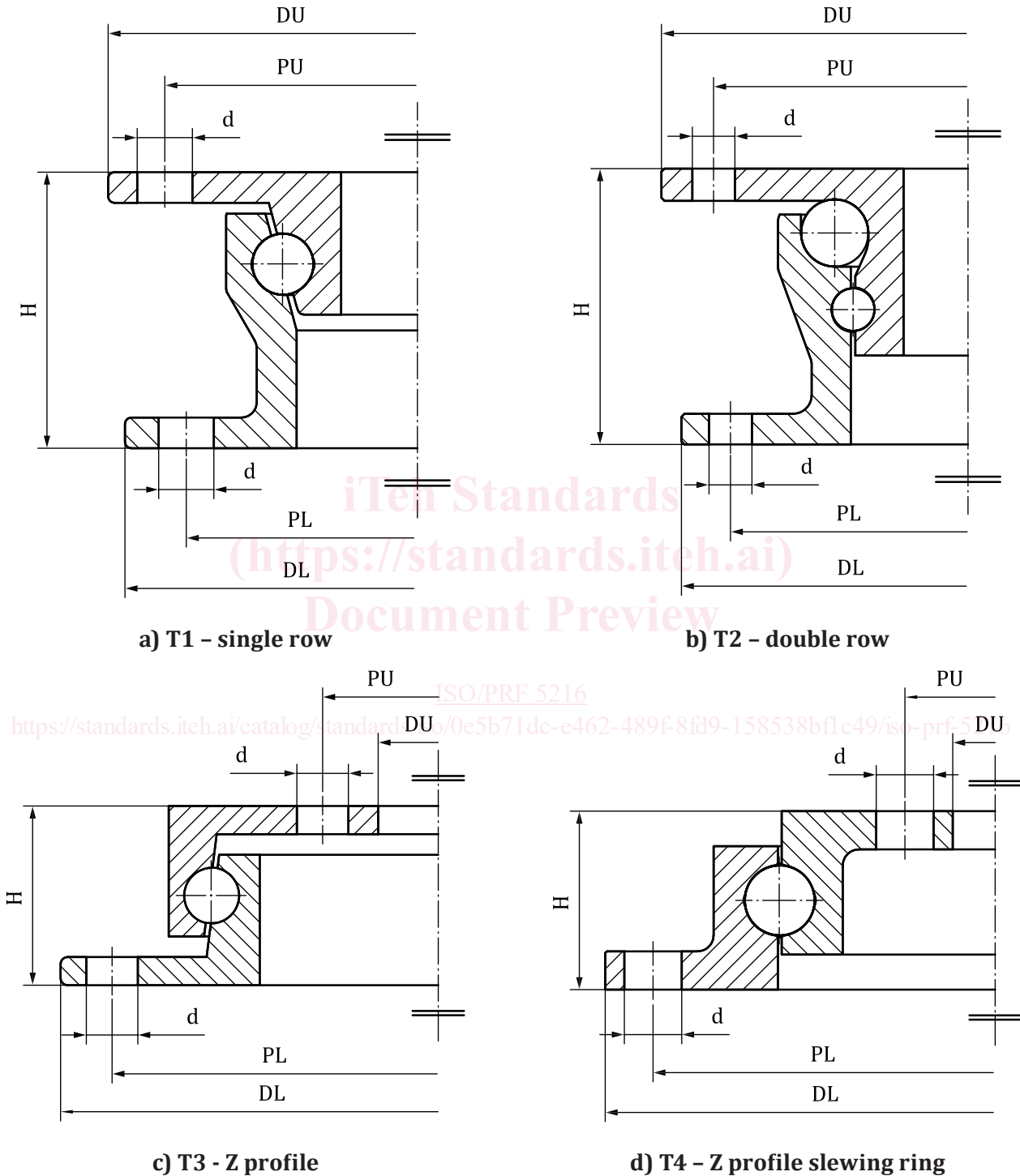


Figure 2 — Radial section types