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**Road vehicles — Fifth wheels —
Interchangeability**

Véhicules routiers — Sellette d'attelage — 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.

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 3842 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 15, *Interchangeability of components of commercial vehicles and buses*.

This fourth edition cancels and replaces the third edition (ISO 3842:2001), which has been technically revised.

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Road vehicles — Fifth wheels — Interchangeability

1 Scope

This International Standard lays down the dimensional characteristics necessary for mounting and interchangeability of the fifth wheel mounted on a mounting plate (standard fifth wheel, Clause 4) or directly on the frame (direct-mounted fifth wheel, Clause 5) of towing vehicles for semi-trailers. It applies to the fifth wheels intended to hitch on semi-trailers equipped with a:

- 50 coupling pin as defined in ISO 337;
- 90 coupling pin as defined in ISO 4086.

Dimensions not specified are left to the discretion of the component manufacturer.

Test conditions and strength requirements to be met by 50 and 90 fifth wheel coupling are specified in ISO 8717.

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 337, *Road vehicles — 50 semi-trailer fifth wheel coupling pin — Basic and mounting/interchangeability dimensions*

ISO 1726, *Road vehicles — Mechanical coupling between tractors and semi-trailers — Interchangeability*

ISO 4086, *Road vehicles — 90 semi-trailer fifth wheel kingpin — Interchangeability*

ISO 8717, *Commercial road vehicles — Fifth wheel couplings — Strength tests*

3 Designation

Fifth wheels meeting the requirements of this International Standard shall be identified by the following details in the order specified:

- 1) reference to this International Standard;
- 2) code FW 50 for 50 mm fifth wheels and FW 90 for 90 mm fifth wheels according to Clause 4;
- 3) or code DFW 50 for 50 mm direct-mounted fifth wheels according to Clause 5;
- 4) number of class of fifth wheel height H according to Tables 1 or 3;
- 5) class of transversal width (A or B) according to Table 2 for direct-mounted fifth wheels according to Clause 5.