
**Commercial road vehicles — Drawbar
couplings and eyes for rigid drawbars —
Strength tests**

*Véhicules routiers utilitaires — Barres d'attelage et anneaux pour barres
d'attelage rigides — Essais de résistance*

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 734 10 79
E-mail copyright@iso.ch
Web www.iso.ch

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Foreword

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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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 12357 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 15, *Interchangeability of components of commercial vehicles and buses*.

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Commercial road vehicles — Drawbar couplings and eyes for rigid drawbars — Strength tests

1 Scope

This International Standard specifies the test conditions and strength requirements to be met by drawbar couplings (see ISO 3584) and the corresponding drawbar eyes (see ISO 1102 and ISO 8755) for rigid drawbars, which are provided for use with centre-axle trailers with a technical maximum mass C exceeding 3,5 t (tonnes).

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 1102, *Commercial road vehicles — Mechanical connections between towing vehicles and trailers — 50 mm drawbar couplings.*

ISO 1176, *Road vehicles — Masses — Vocabulary and codes.*

ISO 3584, *Road vehicles — Mounting of mechanical coupling devices on rear cross members of trucks.*

ISO 8755, *Commercial road vehicles — Mechanical connections between towing vehicles and trailers — 40 mm drawbar coupling.*

3 Terms and definitions

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

3.1

S-value

mass imposed vertically on the coupling under static conditions by the centre-axle trailer loaded to its maximum design total mass

3.2

centre-axle trailer

towed vehicle equipped with a towing device which cannot move vertically (in relation to the trailer), and in which the axle(s) is(are) positioned close to the centre of gravity of the vehicle (when uniformly loaded) such that only a small static vertical load, not exceeding 10 % of the load corresponding to the maximum design total mass of the trailer or load of 10 kN (whichever is the smaller), is transmitted to the drawing vehicle