

Vägfordon – Dragkopplingar och dragöglor för stela dragstänger –

Del 2: Hållfasthetsprovning för särskild tillämpning
(ISO 12357-2:2007, IDT)

Commercial road vehicles – Drawbar couplings and eyes for rigid drawbars –

Part 2: Strength tests for special applications
(ISO 12357-2:2007, IDT)

Den internationella standarden ISO 12357-2:2007 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av ISO 12357-2:2007.

The International Standard ISO 12357-2:2007 has the status of a Swedish Standard. This document contains the official English version of ISO 12357-2:2007.

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Foreword

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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 12357-2 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 15, *Interchangeability of components of commercial vehicles and buses*.

ISO 12357 consists of the following parts, under the general title *Commercial road vehicles — Drawbar couplings and eyes for rigid drawbars*:

- *Part 1: Strength tests for general cargo centre-axle trailers*
- *Part 2: Strength tests for special applications*

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

Part 2: Strength tests for special applications

1 Scope

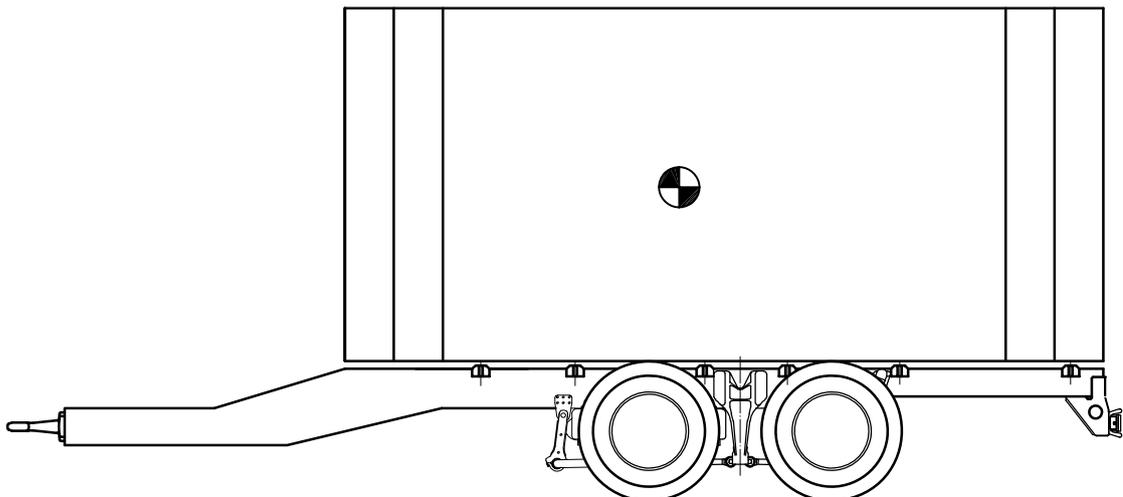
This International Standard lays down test conditions and strength requirements to be met by:

- a) Case A (see Figure 1 a): Drawbar couplings and corresponding drawbar eyes for rigid drawbars which are provided for use on rigid drawbar trailers (see 3.2) with a maximum design total mass, $C+S$, exceeding 3,5 tonnes and:
- a vertical static load S (see 3.1) exceeding 10 % of their design total mass, and/or
 - a vertical static load S greater than 1 000 kg and up to 2 000 kg.

EXAMPLE Examples of couplings and corresponding drawbar eyes include drawbar couplings according to ISO 3584 combined with drawbar eyes according to ISO 1102.

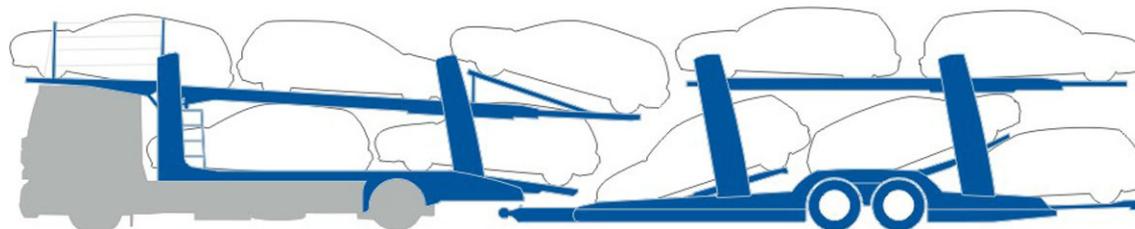
NOTE This International Standard does not apply if both values, 10 % and 1 000 kg, are not exceeded. Such towed vehicles are defined as centre-axle trailers and are subject to ISO 12357-1.

- b) Case B (see Figure 1 b): Drawbar couplings and corresponding drawbar eyes for use on vehicle transport combinations, provided for a technical mass C exceeding 3,5 tonnes.



a) Case A

Figure 1 — Examples



b) Case B

Figure 1 (continued)

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, *Road vehicles — Masses — Vocabulary and codes*

UNECE Regulation R55-01

3 Terms and definitions

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

3.1
S-value
mass imposed vertically on the coupling under static conditions at rigid drawbar trailer/dolly loaded to its maximum design total mass

3.2
rigid drawbar 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 less close to the centre of gravity of the vehicle (when uniformly loaded) such that a vertical static load S exceeding 10 % of the load corresponding to the maximum design total mass of the trailer and/or vertical static load S greater than 1 000 kg and up to 2 000 kg is transmitted to the towing vehicle

4 General test requirements

4.1 The test may be carried out with drawbeams, drawbar couplings and drawbar eyes/special coupling devices having corresponding functional dimensions.

4.2 The strength tests described in this International Standard are static and dynamic tests to be performed on a test bed.

4.3 The fixing arrangements for the drawbar coupling/special coupling device and the drawbar eye/special drawbar device on the test bed shall be those intended for their attachment to the vehicles in accordance with the coupling manufacturer's fitting instructions.

4.4 Drawbeams, drawbar couplings and drawbar eyes may be tested either separately or together. Special coupling devices intended only for vehicle transport combinations (see class T defined in ECE R 55-01) are to be tested together.

4.5 Preferably, couplings are tested in the original condition as being foreseen for use on the road. At the discretion of the manufacturer and in agreement with the test laboratory, flexible components may be neutralized if this is necessary for the test procedure and if there is no concern about unrealistic influence on the test result.