
**Commercial road vehicles — Mechanical
coupling between towing vehicles with
rear-mounted coupling and drawbar
trailers — Interchangeability**

*Véhicules routiers utilitaires — Accouplement mécanique entre véhicules
tracteurs à dispositif d'attelage arrière et remorque à train avant
directeur — Interchangeabilité*



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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
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 11406 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 15, *Interchangeability of components of commercial vehicles and buses*.

This second edition cancels and replaces the first edition (ISO 11406:1993), which has been technically revised.

Annexes A and B of this International Standard are for information only.

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1 Scope

This International Standard specifies the requirements for the various elements and dimensions of towing vehicles with rear-mounted coupling and of drawbar trailers, to ensure interchangeability.

NOTE Annex B gives examples of different configurations of vehicle combinations; this International Standard deals only with No. B.1.1.

This International Standard is applicable to road trains for commercial transport of cargo of the greatest possible variety; it does not cover dedicated or special combinations. Nor does it specify limitations of maximum gross mass and overall dimensions, which are generally laid down by legislative requirements.

Vehicles whose couplings form the subject of this International Standard are not interchangeable with vehicles whose couplings are mounted forward and below (which form the subject of ISO 11407^[1]).

2 Interchangeability dimensions

2.1 Distance between drawbar coupling axis and rear end of towing vehicle

The distance between drawbar coupling axis and rear end of towing vehicle (dimension *A* in Figure 1) shall not exceed 550 mm.

NOTE It is recommended that dimension *A* lie within the range of 420 mm to 550 mm if compliance with the following conditions is required (e.g. in Europe):

- road train with a total length of 18,75 m (in accordance with Directive 96/53/EC^[2]);
- loading length/body length equal to $2 \times 7,45$ m (two C745 swap bodies in accordance with EN 284^[3]);
- $S_{\min} = 80$ mm (in accordance with 2.2);
- no close-coupling system.

When dimension *A* exceeds 420 mm, a device that enables coupling actuation at a maximum distance of 420 mm from the outer bord of the body is required.