
**Road vehicles — 24 V fully automatic
coupling systems (FACS) for heavy
commercial vehicle combinations —**

**Part 1:
General requirements and definitions**

*Véhicules routiers — Dispositifs d'attelage entièrement automatiques
(FACS) à 24 V pour ensembles routiers lourds —*

Partie 1: Exigences générales et définitions





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Published in Switzerland

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.

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ISO 13044-1 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 15, *Interchangeability of components of commercial vehicles and buses*.

ISO 13044 consists of the following parts, under the general title *Road vehicles — 24 V fully automatic coupling systems (FACS) for heavy commercial vehicle combinations*:

- *Part 1: General requirements and definitions*
- *Part 2: Electrical and pneumatic interface for 50 mm fifth wheel couplings*

Introduction

This part of ISO 13044 specifies general requirements and definitions to ensure the safe operation of fully automated coupling systems (FACS).

The introduction of FACS has brought new perspectives and needs into the area of trailer couplings. This has made evident the need for a resilient structure among trailer coupling classes. The ISO 13044 series is intended to facilitate interaction between International Standards and relevant regulations.

The drivers for the introduction of FACS are the following:

- personnel injury hazards associated with coupling and uncoupling operations;
- system availability and operating cost;
- convenience.

It is foreseen that interfaces for media other than those included in this part of ISO 13044 will be entering the area of trailer coupling in the future. Examples of those other media are hydraulic and radio frequency transmissions. Definitions and general requirements for those interfaces will be included in later editions of this part of ISO 13044.