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NATIONAL STANDARD OF THE
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**Road Vehicles - Mechanical Coupling between Towing
Vehicles with Rear-mounted Coupling and Drawbar Trailers
- Interchangeability**

道路车辆 尾部安装牵引杆连接器的牵引车与牵引杆挂车间的机械连

接互换性

(ISO 11406:2001, Commercial Road Vehicles - Mechanical Coupling between
Towing Vehicles with Rear-mounted Coupling and Drawbar Trailers -
Interchangeability, MOD)

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Foreword

This document was drafted in accordance with the rules in GB/T 1.1-2020 *Directives for Standardization - Part 1: Rules for the Structure and Drafting of Standardizing Documents*.

This document modifies and adopts ISO 11406:2001 *Commercial Road Vehicles - Mechanical Coupling between Towing Vehicles with Rear-mounted Coupling and Drawbar Trailers - Interchangeability*.

In comparison with ISO 11406:2001, this document makes the following structural adjustments:

- a) Chapter 2 Normative References is added;
- b) Chapter 3 Terms and Definitions is added;
- c) Chapter 4 corresponds to Chapter 2 of ISO 11406:2001;
- d) Appendix A corresponds to Appendix B of ISO 11406:2001;
- e) Appendix B corresponds to Appendix A of ISO 11406:2001.

The technical difference between this document and ISO 11406:2001, and the cause for the difference is as follows:

- The length of drawbar trailer combination is adjusted from “less than or equal to 18,750 mm” into “less than or equal to 20,000 mm” (see 4.1.1), so as to comply with the requirements of the length limit of freight trains in China.

This document makes the following editorial modifications:

- a) “commercial” is deleted from the title of the document;
- b) The content of No.1 technical corrigendum of ISO 11406:2001 is incorporated; the position of the marking arrow representing the minimum front radius of gyration (C_{\min}) in Figure 2 is modified from the first circular arc line on the left to the second circular arc line.

Please be noted that certain content of this document may involve patents. The institution issuing this document does not undertake the responsibility of identifying these patents.

This document was proposed by the Ministry of Industry and Information Technology of the People’s Republic of China.

This document shall be under the jurisdiction of National Technical Committee 114 on Road Vehicles of Standardization Administration of China (SAC/TC 114).

Road Vehicles - Mechanical Coupling between Towing Vehicles with Rear-mounted Coupling and Drawbar Trailers - Interchangeability

1 Scope

This document specifies the requirements for interchangeability dimensions of mechanical coupling between towing trucks with rear-mounted coupling and drawbar trailers.

This document is applicable to combination vehicles consisting of a towing truck with rear-mounted coupling and a drawbar trailer.

This document does not apply to special-purpose combination vehicles that can be extended, and with the coupling mounted on the front lower part of the towing truck and a closed coupling device.

NOTE: the combination vehicle models (see Appendix A) that comply with the requirements of this document and the combination vehicle models that comply with the requirements of GB/T 41651 do not have interchangeability.

2 Normative References

The contents of the following documents constitute indispensable clauses of this document through the normative references in this text. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

GB/T 3730.1 Motor Vehicles and Trailers - Types - Terms and Definitions

GB/T 39661-2020 Swap Bodies for Road Transport - Technical Requirements and Test Methods

GB/T 41651 Road Vehicles - Mechanical Coupling between Towing Vehicles with Coupling Mounted Forward and Below and Center-axle Trailers - Interchangeability (GB/T 41651-2022, ISO 11407:2004, MOD)

3 Terms and Definitions

What is defined in GB/T 3730.1 and GB/T 41651, and the following terms and definitions are applicable to this document.

3.1 Towing Truck

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