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GB/T 44041-2024

**Road vehicles - 40 mm drawbar eye - Interchangeability
(English Translation)**

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Foreword

This document was drafted in accordance with the provisions of GB/T 1.1-2020

"Directives for standardization - Part 1.Rules for the structure and drafting of standardizing documents".

This document is identical to ISO 8755.2001 "Commercial road vehicles - 40 mm drawbar eye - Interchangeability".

This document adds a clause "Terms and definitions".

For ease of use, this document has made the following editorial changes.

- a) To coordinate with existing standardization documents, the document name has been changed to "Road vehicles - 40 mm drawbar eye - Interchangeability";
- b) Table notes have been added to Table 3.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The issuing authority of this document shall not be held responsible for identifying any or all such patent rights.

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

This document shall be under the jurisdiction of National Technical Committee of Auto

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Road vehicles - 40 mm drawbar eye - Interchangeability

1 Scope

This document specifies the requirements for interchangeability of 40 mm drawbar eyes. This document applies to drawbar eyes between towing vehicles and trailers with a total mass greater than 3.5 t.

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 8718 Road vehicles - Drawbar couplings and eyes for hinged drawbars - Strength tests

NOTE: GB/T 15087-2009 Road vehicles - Drawbar couplings and eyes for hinged drawbars - Strength tests (ISO 8718.2001, IDT)

ISO 12357 (all parts) Commercial road vehicles - Drawbar couplings and eyes for

rigid drawbars

NOTE: GB/T 44039 (all parts) Road vehicles - Drawbar couplings and eyes for rigid drawbars
[ISO 12357 (all parts)]

3 Terms and definitions

For the purpose of this document, there are no terms and definitions that need to be defined.

4 Marking

Drawbar eyes that meet the requirements of this document shall be marked as follows.

- a) standard number of this document about drawbar eyes;
- b) code for non-graded drawbar eyes, which is D40;
- c) code for graded drawbar eyes (see 5.4).

Example 1. Non-graded 40 mm drawbar eye.

Drawbar eye GB/T 44041 D40

Example 2. 40 mm drawbar eye meeting the requirements of grade C.

Drawbar eye GB/T 44041 D40-C

5.1 General

The provisions of 5.2 and 5.3 apply to all 40 mm drawbar eyes. The requirements for the grade of drawbar eyes are shown in 5.4.

5.2 General requirements

D40 drawbar eyes shall match C40 drawbar couplings. The drawbar eye shall not rotate around the drawbar axis.

NOTE 1: The installation dimensions on the frame of towing vehicles, and the dimensions and articulation angles of drawbar couplings are shown in ISO 3584.

NOTE 2: The requirements for mechanical interchangeability between towing vehicles and trailers are shown in ISO 11406 and ISO 11407.

5.3.1 The dimensions of D40 drawbar eyes shall comply with the requirements of Figure 1.

5.3.2 The dimensions of D40 drawbar eyes with sleeves shall comply with the requirements of Figure 2 or Figure 3.

5.3.3 The characteristic dimensions of D40 drawbar eyes (see Figure 1) shall comply
with the requirements of Table 1.

5.4.1 Dimensions

The dimensions of drawbar eyes of each grade of D40 shall meet the following requirements respectively.

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