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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

ICS 43.080.10
T 71

GB/T 17275-2019

Replacing GB/T 17275-1998

Technical requirements for freight draw-bar trailers

货运牵引杆挂车通用技术条件

Issued on: May 10, 2019

Implemented on: December 01, 2019

Issued by: State Administration for Market Regulation;

Standardization Administration of the PRC.

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Technical requirements for freight draw-bar trailers

1 Scope

This Standard specifies the technical requirements, test methods, inspection rules, markings, on-board documentation, transport, and storage of freight draw-bar trailers.

This Standard applies to freight draw-bar trailers which travel on roads.

2 Normative references

The following documents are indispensable for the application of this document. For the dated references, only the editions with the dates indicated are applicable to this document. For the undated references, the latest edition (including all the amendments) are applicable to this document.

GB 1589 Limits of Dimensions, Axle Load and Masses for Motor Vehicles, Trailers and Combination Vehicles

GB/T 4781 Commercial road vehicles - 50mm drawbar eye - Interchangeability

GB 4785 Prescription for installation of the external lighting and light-signalling devices for motor vehicles and their trailers

GB 7258 Technical Specifications for Safety of Power-driven Vehicles Operating on Roads

GB 11567 Motor vehicles and trailers - Lateral and rear underrun protection requirements

GB 12676 Technical requirements and testing methods for commercial vehicle and trailer braking systems

GB/T 13594 Antilock braking performance and test procedure for motor vehicles and their trailers

GB/T 13873 Road vehicles - Trailer test procedure

GB/T 15087 Road vehicles - Drawbar couplings and eyes for hinged drawbars - Strength tests

3 Technical requirements

3.1 Complete vehicle

3.1.1 Draw-bar trailers shall be manufactured in accordance with the drawings and technical documentations approved by the prescribed procedures.

3.1.2 Purchased and outsourced parts shall comply with the relevant standards and have the certificate of the manufacturer, which can be used only after passing the inspection by the original equipment manufacturer (OEM). All self-made parts can be assembled only after passing the inspection.

3.1.3 The limits of dimensions, axle load, and masses for draw-bar trailers shall comply with the requirements of GB 1589.

3.1.4 The distance BETWEEN the projection point of the center of draw-bar trailer turntable on the horizontal plane AND the projection point of the center of the left and right wheels of the rear axle on the horizontal plane is not more than 3 mm.

3.1.5 The distance BETWEEN the projection point of the center of draw-bar trailer eye on the horizontal plane AND the projection point of the center of the left and right wheels of the first axle of draw-bar trailer on the horizontal plane is not more than 3 mm.

3.1.6 The eye center of the drawbar frame of draw-bar trailer, the longitudinal center of the turntable rack, and the longitudinal symmetric center plane of the frame shall coincide. The deviation shall be ± 1 mm.

3.1.7 When the draw-bar trailer combination is fully-loaded, and the speed is not less than 90 km/h, the structure, configuration, and performance of the draw-bar trailer shall meet the design and application requirements.

3.1.8 The mechanical coupling between trucks and draw-bar trailers and the installation location of the electrical connector shall comply with the provisions of ISO 11406 and GB/T 32861 respectively. The size and clearance space, etc. shall be matched properly; the connection shall be reliable; the use shall be safe.

3.1.9 In the product technical documentation of draw-bar trailers, it shall clarify the main technical parameters of the adapted towing vehicle such as the key dimensions and mass limits for the outline and connection, etc.

3.1.10 The draw-bar trailers carrying the exchangeable boxes shall be equipped with locking mechanisms and lifting devices in accordance with GB/T

provisions of JT/T 886.

3.5.5 The installation and pasting of retro-reflective markings of draw-bar trailers shall comply with the provisions of GB 23254 and GB 7258. The installation of the rear-marking plates for vehicles shall comply with the provisions of GB 25990 and GB 7258.

3.5.6 The lateral and rear underrun protection devices of draw-bar trailers shall comply with the requirements of GB 11567.

3.5.7 The setting of licence plates (brackets) shall comply with the requirements of GB 15741 and GB 7258.

3.5.8 The draw-bar trailers shall be equipped with spare tires. The spare tire shall be reliably fixed and easy to handle.

3.5.9 Draw-bar trailer turntable shall comply with the requirements of JT/T 651.

3.5.10 Draw-bar trailer axle shall comply with the requirements of JT/T 475.

3.5.11 The relevant loading accommodations such as carriage body and tank body used in the draw-bar trailer shall meet the requirements of GB/T 37245 and related standards.

3.5.12 The draw-bar trailers shall be equipped with gas and electrical connecting lines and corresponding connectors which match the towing truck.

3.5.13 The draw-bar trailers shall be equipped with a draw-bar booster lifting device. Its strength shall be compatible with the draw-bar weight.

3.5.14 The draw-bar trailers shall be equipped with a combination reverse steering locking device.

3.6 Process requirements

3.6.1 The welding quality of the heat treatment parts shall comply with the provisions of JB/T 5943. The welds shall be flat and even. There shall be no defects such as burn through, solder skips, cracks, pores, slag inclusions. The welding slag shall be cleaned.

3.6.2 The riveting shall be firm. The rivets shall be arranged neatly. The rivet head is not allowed to have cracks, skews, or incompleteness. The clearance between the rivet head and the metal fitting surface is not more than 0.1 mm.

3.6.3 Paint coating shall comply with the requirements of QC/T 484.

3.6.4 All connectors and fasteners are subjected to surface rustproof treatment.

4.4 The test of the antilock braking system of draw-bar trailer and its combination is carried out in accordance with the provisions of GB/T 13594.

4.5 The test of lateral acceleration amplification factor (test speed 80 km/h) of draw-bar trailer combination is carried out according to the provisions of GB/T 25979.

4.6 Static safety items such as the light-signalling, pneumatic braking tightness, and brake coordination of draw-bar trailer are carried out in accordance with JT/T 885.

4.7 The type test of draw-bar trailer is carried out in accordance with the provisions of QC/T 252.

4.8 The difference in distances from the center of drawbar eye to the center of the left and right front wheels and the difference in distances from the turntable center to the center of the left and right rear wheels are measured in accordance with JT/T 885.

4.9 The strength tests of drawbar couplings and eyes for hinged drawbars are carried out according to the provisions of GB/T 15087.

5 Inspection rules

5.1 Exit-factory inspection

5.1.1 The draw-bar trailer shall pass the inspection by the quality inspection department of the manufacturer and be accompanied by a product qualification certificate before leaving the factory.

5.1.2 The exit-factory inspection items of draw-bar trailer are:

- a) Appearance, see 3.5.5, 3.6.1, 3.6.2, 3.6.3, 3.6.5;
- b) Complete-vehicle assembly adjustment, see 3.1.4, 3.1.5, 3.1.6, 3.5.13, 3.5.14, 3.6.4, 3.6.6;
- c) Light-signalling and pneumatic braking connector, see 3.1.8, 3.5.4;
- d) Braking equipment and performance, see 3.5.1, 3.7.1, 3.7.7.

5.2 Type inspection

5.2.1 In any of the following circumstances, it shall carry out the type inspection:

- a) Trial-manufacture type for plant transfer production of new products or old

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