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**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC
OF CHINA**

中华人民共和国国家标准

GB/T 1589-2016

Replacing GB/T 1589-2004

**Limits Of dimensions, axle load and masses for
motor vehicles, trailers and combination
vehicles**

**汽车、挂车及汽车列车外廓尺寸、
轴荷及质量限值**

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Contents

Foreword	3
1. Scope	6
2. Normative references	6
3. Terms and definitions	6
4. Requirements	10
5. Implementation of standard	17
Annex A (Normative) Rules of dimension measurement	18
Annex B (Informative) Methods for measuring the clearance circle and out value of vehicle	23

Foreword

The whole technical contents of this standard are mandatory.

This standard is drafted according to the rules provided in GB/T 1.1—2009.

This standard replaces the *Limits of Dimensions, Axle Load and Masses for Road Vehicles* GB 1589—2004, compared to which, the main technical changes are as follows besides compiled modification:

- Modify the name of the standard to *Limits of Dimensions, Axle Load and Masses for Motor Vehicles, Trailers and Combination Vehicles*;
- Modify the scope of chapter I;
- Add the reference of GB/T 17350 for chapter II;
- Add the definition of the vehicle length, vehicle width, vehicle height, tri-wheel vehicle, low-speed goods vehicle, fence goods vehicle/trailer, drop slide vehicle/trailer, platform goods vehicle/trailer, dump goods vehicle/trailer, low platform semi-trailer, long nose towing vehicle, long nose articulated vehicle, centre axle trailer, centre axle trailer of car carrier, centre axle trailer train of car carrier, passenger/car trailer combination, goods road train, special motor vehicle, oilfield special vehicle, semi-trailer wheelbase, front fitting radius of semi-trailer and air suspension in chapter III;
- Modify the limits of dimensions for vehicle (4.1.1), dividing into two limit table: the maximum limit value of dimensions of the drop slide, fence, platform, dump goods vehicle/trailer (table 1) and the maximum limit value of the dimensions of other motor vehicles, trailers and combination vehicles (table 2);
- Modify requirements of the unilateral overhang of the indirect vision field (see 4.1.2.1);
- Modify the requirement that the distance between the vehicle's rear axle and the draw-bar trailer's front axle shall not be less than 3000mm(see 4.1.2.3);
- Add the requirements for semi-trailer towing vehicle and semi-trailer (see 4.1.2.3);
- Modify the coupled axle (see 4.2.2 in 2004 version) to axle group (see table 3);
- Modify the limits of the axle load for the motor vehicles and trailers and merge the single axle and coupled axle (see 2004 version) into one table (see table 3);
- Modify the limit of the maximum design axle load for single tire on each side (see

table 3);

- Modify the limit (see table 2 in 2004 version) of the drive axle load for two-axle goods vehicle to 11500kg (see table 3);
- Modify the axle load limit of the two-axle trailer to 18000kg in case of wheelbase >1 800 mm (see table 3);
- Delete the maximum design total mass and the minimum limit (see 4.3.2 in 2004 version);
- Modify the maximum design total mass for two-axle goods vehicle and draw-bar trailer to 18000kg in case of double tires per axle on each side (see table 4);
- Add the limit of maximum design total mass for centre axle trailer (see table 4);
- Modify the maximum design total mass for four-axle combination vehicle to 36000kg (see table 4);
- Add two-axle trailer, single tire per axle on each side equipped with tires of no less than 425 mm in nominal section width, and the limit of maximum design total mass is 18000kg (see footnote d in table 4);
- Modify the requirements of the clearance circle and out value for motor vehicle and combination vehicle (see 4.4.1 and 4.4.2);
- Add the requirements for free from doing the test of Annex B if the semi-trailer wheelbase is less than or equal to length L obtained from the formula (see 4.4.3);
- Add the requirements of rear suspension (see 4.5);
- Add the requirements that the height of the container shall include cap's (see 4.6.3);
- Add the requirements of low platform semi-trailer, concrete pump truck, fire fighting truck, wrecker, auto crane and oilfield special vehicle (see 4.7);
- Add the Annex A of stipulation on the measurement of the dimensions;
- Modify the measurement methods of clearance circle and out value for vehicles (see Annex B).

This standard is jointly proposed by Ministry of Industry and Information Technology, Ministry of Transport and Ministry of Public Security of the People's Republic of China.

This standard is under the jurisdiction of National Technical Committee of Auto Standardization (SAC/TC 114).

Organization in charge of drafting of this Standard: China Automotive Technology & Research Center, Research Institute of Highway Ministry of Transport and Traffic Management Research Institute of the Ministry of Public Security.

The participation drafting organizations of this part: FAW Group, Dongfeng Motor Corporation, SAIC Motor Corporation Limited, China National Heavy Duty Truck Group Co., Ltd., Beiqi Foton Motor Co., Ltd., JAC Motors, Zhengzhou Yutong Group Co., Ltd., China International Marine Containers (Group) Ltd. and Tianjin LOHR Industry Co., Ltd.

The historical version replaced by this standard is as follows:

——GB 1589—1979, GB 1589—1989 and GB 1589—2004.

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

1. Scope

This standard stipulates the limits of dimensions, axle load and masses for motor vehicles, trailers and combination vehicles.

This standard applies to the motor vehicles, trailers and combination vehicles for road use.

This standard is not applicable for the following vehicles:

- Special vehicles equipped for army, armed police and special constable troop;
- Bi-articulated bus for limit road.

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.

GB/T 3730.1 Motor vehicles and trailers-Types-Terms and definitions

GB/T 3730.2 Road vehicle--Masses--Vocabulary and codes

GB/T 3730.3 Motor vehicles and towed vehicles--Dimensions of vehicles--Terms and definitions

GB/T 17350 Terms marks and designation for special purpose vehicles and special trailers

3. Terms and definitions

For the purpose of this document, the demarcation of GB/T 3730.1, GB/T 3730.2, GB/T 3730.3 and GB/T 17350 as well as following terms and definitions shall apply.

3.1

Vehicle length

Refer to the distance between the two planes which pass the front and rear outermost endpoints of the vehicle and perpendicular to Y and Plane Xs, measured according to Annex A.

3.2

Vehicle width

Refer to the distance between the two planes which pass outermost endpoints of the vehicle's fixed projecting parts on both sides and perpendicular to Y and Plane Xs, measured according to Annex A.

3.3

Vehicle height

Refer to the distance from the highest point of the vehicle to the Plane X, measured according to Annex A.

3.4

Tri-wheel vehicle

Refer to the goods vehicle with three wheels and maximum design speed less than or equal to 50km/h.

3.5

Low-speed goods vehicle

Refer to the goods vehicle with four wheels and maximum design speed less than or equal to 70km/h.

3.6

Fence goods vehicle/trailer

Refer to goods vehicle/semi-trailer with structure of goods-carrying part of cage type or fence type and respectively independent to the cab; and the top of the goods-carrying part shall be installed with non-removable and non-adjustable ceiling rod which is fixed with the side fence.

3.7

Drop slide vehicle/trailer

Refer to the goods vehicle/trailer with structure of goods-carrying part of drop slide, including goods vehicle/semi-trailer equipped with truck mounted crane, except which are equipped with automatic tipper.

3.8

Platform goods vehicle/trailer

Refer to goods vehicle/semi-trailer with floor of goods-carrying part of platform structure

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