

ICS 03.220.01
CCS A 85

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

JT/T 1272-2019

**Technical requirements and testing methods for intermodal
swap body**

(English Translation)

Issued on: January 1, 1970

Implemented on: October 1, 2019

Issued by: Ministry of Transport

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Foreword

This standard is in accordance with GB/T Draft the rules given in 1-2009.

This standard is proposed and managed by the National Comprehensive Transportation Standardization Technical Committee.

This standard was drafted. CIMC Vehicles (Shandong) Co., Ltd., Scientific Research Institute of the Ministry of Transport.

1 Scope

This standard specifies the technical requirements and test methods for multimodal transport exchange boxes.

This standard applies to the production, inspection, and use of C-type multimodal interchange boxes. Other types of multimodal interchange boxes can be referred to.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 1835 Series 1 Container Corner GB/T.1992 Container Terminology GB/T 12673 Measuring methods for main dimensions of automobiles GB/T 12674 Automobile mass (weight) parameter determination method JT/T 1092 Terminology for multimodal transport of goods JT/T 1195 Intermodal Exchange Box Identification

3 Terms and definitions

The terms and definitions defined in GB/T.1992, JT/T 1092 and the following apply to this document. For ease of use, the following is repeated Some terms and definitions in GB/T.1992 and JT/T 1092.

Swap box swap body

A standardized cargo box equipped with foldable legs, which can be separated from the truck, and is placed on the ground independently with the legs as a support.

[JT/T 1092-2016, definition 3. 3] 3. 2 Gripper gripe Located on the lower side beam of the exchange box, it is convenient to use the grab arm to lift and carry the groove of the exchange box.

Guide groove guide

It is located at the bottom of the exchange box, penetrates the entire bottom plate longitudinally, and the guide surface is free of obstacles.

Front stop block stop A metal part located in the center of the lower part of the outside of the front wall of the exchange box.

3. Five

Outfit legs

At the bottom of the exchange box, it is used to support the exchange box, and it can be extended and folded.

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Fork groove

Transversely penetrate the bottom structure of the box at the prescribed position of the exchange box, so that the teeth of the forklift can penetrate into the groove at the bottom of the box.

Maximum total massmaximum total mass Maximum mass of the exchange box when fully loaded.

Load mass

Maximum allowable loading mass of the exchange box.

Corner fitting

The parts provided at each corner of the box play the role of supporting, stacking, carrying and fastening the exchange box.

Note: Rewrite GB/T.1992-2006, definition 6. 1. 1. 1.

4 Technical requirements

4.1

General

4.1.1

The exchange box should have a certain degree of rigidity and strength. During loading and unloading and transportation, there should be no permanent deformation affecting the use.

4.1.2

After the end walls and side walls of the exchange box are unloaded, they shall not cause permanent deformation greater than 12 mm without affecting its function.

4.1.3

The exchange box should have good rain-proof sealing performance, and there should be no leakage during use.

4.1.4

The identification and operation identification of the exchange box shall comply with the provisions of JT/T 1195.

4.1.5

The exchange box should be fixed by corner pieces during road, rail, and water transportation and meet the relevant technical conditions;

Car transport; freight yard can be loaded and unloaded with special spreaders and forklifts.

4.2

Dimensions and maximum total mass the external dimensions, allowable deviations and maximum total mass (R) of the exchange box are shown in Figure 1 and Table 1.

Table 1 External dimensions, allowable deviations and maximum total mass of the exchange box

model

| d1-d2 |

C725 7 2500- 20

C745 7 4500- 20

C782 7 8200- 20

5 853 ± 3

698. 50- 3

798. 50- 3

988. 50- 3

4 876 + 100- 6

2 550a 2 259 ± 3 13 16 000

Note 1: C725, C745 and C782 are three different types of C-type exchange boxes;

Note 2: There are three different profile heights of two different types of exchange boxes. 2,750mm, 2,820mm, and 2,986mm.

a The incubator shall be 2,600 mm.

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4.3

corner pieces

There should be 4 corner pieces at the bottom of the exchange box. The installation position is shown in Figure 1. The structure size is shown in Figure 2. The strength should meet GB/T 1835 requirements for midsole corner pieces.

Explanation.

1 --- grab groove;

2 --- corner pieces;

l1 --- the outline length of the exchange box;

l2 --- the longitudinal fixed size of the corner piece;

l3 --- the distance from the corner piece to the front of the exchange box, including the thickness of the front stop;

l4--grip spacing;

h --- the height of the outline of the exchange box;

b1 --- the outline width of the exchange box;

b2 --- lateral fixation of corner pieces;

d1, d2 --- diagonal distance of corner pieces;

sigma --- tolerance.

Figure 1 Dimensions of the exchange box

4.4

Gripper