

ICS 47.080
CCS U 18

JT

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

JT/T 1283.1-2019

**Inflatable buoyancy hovercraft--Part 1: Sidewall inflatable
hovercraft**

全垫升气囊浮体气垫船 第1部分：侧壁气囊气垫船 清晰版
(English Translation)

Issued on: January 1, 1970

Implemented on: October 1, 2019

Issued by: Ministry of Transport

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Classification and model
- 5 Technical requirements

1 Scope

This part of JT/T 1283 specifies the classification and model, technical requirements, test methods, marking, transportation and Storage requirements.

This section applies to navigation in calm waters of inland rivers and seas, restricted navigation, and travel on ice, snow, tidal flats, swamps, and beaches.

Design, construction and inspection of side airbag hovercraft with a length of less than 20m.

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 3221 Diesel-powered inland waterway ship mooring and navigation test outline GB/T 3471 General rules for mooring and navigation test of sea-going ships GB/T 13146 Hovercraft terminology GB/T 13306 plate GB/T 19310 Small boats permanently installed fuel systems and fixed fuel tanks GB/T 19311 Ultra-low voltage DC device for electrical system of dinghy GB/T 19312 Ventilation of petrol engine and/or petrol tank compartment of dinghy GJB 77 (all parts) PVC insulated nylon sheathed wire and cable for aviation GJB 2232 General Specifications for Aircraft Propeller System HB 7809-2006 General technical requirements for aircraft propellers JT/T 1283. 3-2019 Full-height airbag floating body hovercraft Part 3. Hovercraft airbag Technical Regulations for the Survey of Coastal Small Ships of the Maritime Safety Administration of the People's Republic of China Technical Regulations for Statutory Survey of Inland Ships of the Maritime Safety Administration of the People's Republic of China Technical Regulations for Statutory Surveys of Maritime Ships in China Classification and construction specifications for inland high-speed ships of China Classification Society China Classification Society Classification and Construction Code for High Speed Ships Offshore CCS Materials and Welding Code

3 Terms and definitions

The terms and definitions established in GB/T 13146 and the following terms apply to this document.

Full-cushion airbag floating body hovercraft inflatable boat hovercraft Flexible airbag is used as the floating body. The whole or part of the mass of the hull is supported by the buoyancy of the flexible airbag when it is stationary, and supported by air cushions when sailing.

Bearing, using air propeller, hovercraft with amphibious performance.

Note: Full-height airbag floating body hovercraft is divided into two types. side wall airbag hovercraft and wall airbag hovercraft.

JT/T 1283. 1-2019

Side airbag hovercraft sidewall inflate hovercraft both sides have flexible airbag sidewalls. The entire mass of the hull is supported by the buoyancy of the flexible airbag when it is stationary, and supported by air cushions during navigation.

Air propeller, hovercraft with amphibious performance.

Airbag intubation

The hovercraft provides buoyancy when it is stationary, and an inflatable flexible bladder used to close the air cushion when hoisting.

Side airbag side inflate tube the side airbag hovercraft has buoyant airbags on both sides that close the air cushion.

3. Five

Stabilizing airbag stabilizing airbag tube 3. 12 Airbag waterline length of water of waterline Lwl in the floating drainage state, the horizontal distance from the end of the airbag to the end of the airbag along the design waterline.

3. 13

Airline waterline width of water of waterline Bwl in the floating drainage state, the horizontal distance from the outside of one airbag to the outside of the other airbag along the design waterline.

3. 14

Airway deck air deck JT/T 1283. 1-2019 Full-lift airbag floating body hovercraft covers the airway deck.

3. 15

Airway deck length of air duceck Lad Horizontal distance from air end to air end.

3. 16

Airway deck width, breath, air, deck, deck Bad the horizontal distance of the airway deck from one side to the other.

3. 17

Total height

Hoa

The flexible airbag is inflated, and the vertical distance from the bottom of the airbag to the highest fixed point on the ship (including lamps, lighting and other accessories).

3. 18

Ship height

The flexible airbag is not inflated and the vertical distance from the bottom of the rigid hull to the highest fixed point on the ship (including accessories such as lamps and lighting)

4 Classification and model

4.1

Classification of side airbag hovercraft the side airbag hovercraft is classified as follows.

- a) divided into aluminum alloy and fiber reinforced plastic according to the hull material;
- b) divided into diesel engine and gasoline engine according to engine type;
- c) According to the propulsion system, it is divided into single-machine single-air propeller propulsion system and double-machine dual-air propeller propulsion system;
- d) According to the layout of the lifting shaft system, it is divided into the front output shaft system layout system of the host and the rear output shaft system layout system of the host.

4.2

Side airbag hovercraft model the model of the side airbag hovercraft is shown in Figure 1.

Figure 1 Model representation of side airbag hovercraft

Example 1.

10-seater single-diesel engine single-air propeller front output pad lift shaft system aluminum alloy side wall airbag hovercraft, model number is CCLDQ10C.

JT/T 1283. 1-2019

Example 2.

16-seater dual gasoline engine dual air propeller rear output pad lift shaft system aluminum alloy and fiber reinforced plastic mixed structure side wall airbag hovercraft, model marked as CHCHSH16.

5 Technical requirements

5.1

Environmental conditions the side airbag hovercraft should be able to operate normally under the following environmental conditions.

- a) the altitude does not exceed 3,500 m;
- b) Ambient air temperature.-35 ° C to 45 ° C;
- c) The seawater temperature does not exceed 32 ° C;
- d) Waters with a Pompei wind rating of no more than 6 and a significant wave height of no more than 1 m;
- e) ice, snow, tidal flats, swamps, beaches and other areas;
- f) Slopes, trenches, potholes, drift ice, etc. that meet design constraints.

5.2

Hull

5.2.1

Hull structure 5. 2. 1. 1. Side-wall airbag hovercraft consists of side-wall airbags installed along the captain on the left and right sides, stabilizer airbags (if applicable), Gas seals, tail gas seals and rigid structures such as upper connecting bridges, airway decks, deckhouses, etc.

Explanation.

- 1 --- air rudder; 5 --- side airbag;
- 2 --- air propeller; 6 --- tail gas seal;
- 3 --- catheter; 7 --- stabilized balloon;

5.2.3.2

Airbag material the material of the side airbag and the stable airbag should conform to JT/T 1283. 3-2019 4. 5 requirements.

5.2.3.3

Airbag shape and layout the side airbag is generally composed of 2 to 3 cylindrical airbags. It is arranged along the length of the ship on both sides of the side airbag hovercraft, and the ends of the stern are tapered.