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**Configuration requirements for multimodal transport
facilities and equipment of finished vehicle logistics**

汽车整车物流多式联运设施设备 配置要求

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Table of Contents

Foreword.....	3
1 Scope.....	4
2 Normative references.....	4
3 Terms and definitions	5
4 General requirements	6
5 Configuration requirements for facilities.....	7
5.1 General requirements.....	7
5.2 Connecting facilities	7
6 Requirements for equipment configuration	16
6.1 Transport equipment	16
6.2 Loading and unloading equipment	16
6.3 Fixtures	16
6.4 Other supporting equipment.....	16
7 Configuration requirements for information management system.....	17
7.1 Information system.....	17
7.2 Information equipment.....	18
Bibliography	19

Configuration requirements for multimodal transport facilities and equipment of finished vehicle logistics

1 Scope

This Standard specifies general configuration requirements for multimodal transport facilities and equipment of finished vehicle logistics, configuration requirements for facilities, configuration requirements for equipment, configuration requirements for information system.

This Standard is applicable to the planning, selection and configuration of facilities and equipment used as commodity passenger vehicle during multimodal transport. It is not applicable to multimodal transport of finished vehicle container.

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

GB/T 5600, *General technical specification for railway freight car*

GB/T 26774, *Technical specification for car carriers*

GB 50014, *Code for Design of Outdoor Wastewater*

GB 50015, *Standard for design of building water supply and drainage*

GB 50016, *Code of Design on Building Fire Protection and Prevention*

GB 50034, *Standard for lighting design of buildings*

GB 50057, *Design Code for Protection of Structures against Lightning*

GB 50067, *Code for fire protection design of garage, motor-repair-shop and parking-area*

a platform set up at the end of a railway loading and unloading line

3.8 double-decked adjustable loading platform

end type platform used for upper and lower loading and unloading operations, with two layers and adjustable height

3.9 shuttle minibus

a manned vehicle that transfers the self-driving driver of the finished vehicle between different workplaces

3.10 pontoon

floating ship berthing facility for docking ships, loading and unloading, storing goods, and passengers getting on and off in the port; it is connected to the land by an approach bridge

[GB/T 8487-2010, definition 2.23]

3.11 floating pier

a pier mainly composed of pontoons, positioning facilities, approach bridges

[GB/T 8487-2010, definition 2.24]

4 General requirements

4.1 The configuration of facilities and equipment shall meet the needs of basic operations such as finished vehicle transport, loading and unloading, storage, handover, and supporting service requirements for production and life.

4.2 The configuration of facilities and equipment shall meet the requirements for spatial connection, ability matching, smooth flow, and convenient operation when the finished vehicle multimodal transport operation is converted between different modes of transport.

4.3 The configuration of facilities and equipment shall meet the requirements of safety, economy, efficiency and environmental protection.

4.4 The multimodal transport facilities of finished vehicle can be divided into connection facilities and supporting facilities:

- The connection facilities shall meet the operational needs of the finished vehicle from one transport mode to another transport mode. It should include railway loading and unloading lines, railway platforms, car transporter loading and unloading sites, piers, transfer buffer sites and

be arranged separately. The directions and identifiers shall be unified.

5.2.1.4.3 The loading and unloading site of car transporter shall meet the requirements for turning radius of central axle car transporter and semi-trailer vehicle equipment.

5.2.1.4.4 A safe distance for vehicle operation shall be reserved between the loading and unloading lanes.

5.2.1.5 Piers

5.2.1.5.1 Ro-ro pier shall introduce railway loading and unloading line. A finished vehicle storage space or handover buffer space shall be set up between the berth and the railway loading and unloading line.

5.2.1.5.2 The layout of the front area of the pier shall be able to meet the turning radius requirements of vehicle equipment such as shuttle minibus.

5.2.1.5.3 The approach bridge of floating pier shall be connected to the finished vehicle storage site.

5.2.1.6 Handover buffer site

5.2.1.6.1 The handover buffer site shall have the function of meeting the coordination of operational capabilities and smooth processes among various transport methods. It can be set separately or shared with the loading and unloading site of car transporter and the storage site of finished vehicle.

5.2.1.6.2 The handover buffer site should be arranged between the railway loading and unloading line, the loading and unloading site of car transporter, the pier berth and the finished vehicle storage yard. In the case of setting up a floating pier, the handover buffer site can be set on a pontoon.

5.2.1.6.3 The handover buffer site should be extended along the loading and unloading direction of the car transporter loading and unloading site and pier berth loading and unloading operations.

5.2.1.6.4 The handover buffer site shall be arranged along the parallel direction of the railway loading and unloading line.

5.2.1.7 Storage site for finished vehicle

5.2.1.7.1 The storage site for finished vehicle shall be close to the railway loading and unloading line, the loading and unloading site of car transporter, and the pier berth.

5.2.1.7.2 The storage site for finished vehicle should meet the storage needs for arrival and departure of roads, railways, waterways, and transport finished

areas, passages and other facilities shall be marked with location names, directions, driving requirements in eye-catching locations.

5.3 Supporting facilities

5.3.1 Lighting facilities shall meet the relevant regulations of GB 50034 and GB 50582.

5.3.2 Fire-fighting facilities shall meet the relevant regulations of GB 50016 and GB 50067. Drainage facilities shall meet the relevant regulations of GB 50014 and GB 50015. Lightning protection facilities shall comply with relevant regulations of GB 50057.

5.3.3 Monitoring and security facilities should be equipped with protective nets, access and fire gates, and surveillance cameras.

5.3.4 The road transport parking lot shall meet the requirements for parking and passing all types of car transporters. The road transport parking lot should be set close to the gate and the loading and unloading site of car transporter. Road transport parking lots can be vertical, parallel and diagonal. The area configuration of road transport parking lot shall consider factors such as the type and number of car transporters, parking form and time, and operating procedures.

5.3.5 Charging piles shall be installed in the charging area. Keep a safe distance from the storage site for finished vehicle. The number of charging piles and the area configuration of the charging area shall comprehensively consider factors such as the type and number of electric vehicles, charging efficiency, parking form and time.

5.3.6 Office facilities such as production command, information management, and administrative office can be centrally configured in a multi-functional building. The multi-functional building should be located near the main entrance of the multimodal transport site of finished vehicle. The construction area configuration of the multi-functional building shall be determined according to the vehicle multimodal transport operation site and the number of personnel.

5.3.7 Gate area shall be equipped for multimodal transport operation site of finished vehicle. The number of gate areas shall be determined by comprehensive consideration of the number of vehicles entering and leaving the gate area, working hours in the gate area, and the connection of municipal roads.

5.3.8 The multimodal transport operation site for finished vehicle shall be provided with a lane for living and office vehicles. Separate it from the traffic lane of car transporter.

operating efficiency, daily working hours, number of shuttle drivers, and scheduling. The height of the vehicle shall be lower than the lowest interior height of the cabin or car-dedicated railway freight car. Shuttle minibuses shall be numbered uniformly. Devices such as driving recorder shall be equipped.

6.4.3 Multimodal transport operation site for finished vehicle shall be equipped with road rescue vehicle.

6.4.4 When the finished vehicle is handed over for inspection, it can be equipped with video recording equipment, flaw detectors and other testing equipment as needed.

7 Configuration requirements for information management system

7.1 Information system

7.1.1 The multimodal transport area for finished vehicle shall be equipped with an information system that meets the multimodal transport operation organization, field operations, safety management and other functions. It can be configured separately or configured in an existing information system with multimodal transport business modules. Information system hardware and software shall have advanced technology, stable performance, complete functions, and convenient expansion.

7.1.2 The multimodal transport information system for finished vehicle shall have functions such as operation dispatching and commanding, vehicle handover management, storage management, and safety management, so as to provide information release, dynamic query and other services.

7.1.3 The multimodal transport information system for finished vehicle shall be connected to the information network, supporting high-speed, reliable and stable transmission of information between related transport methods, internal operations, and various partners.

7.1.4 Information exchange interface shall be reserved for the multimodal transport information system for finished vehicle, so as to realize interconnection with logistics information systems such as automobile production plants, railways, highways, ports and shipping. It is advisable to exchange and share information and data such as multimodal transport order processing, capacity allocation, and shift planning in real time.

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