

WORKING WITH YOU TO
CONNECT THE WORLD



Address: No.16 West 4th-Ring Mid Road, Haidian District, Beijing
Zip Code: 100036
English-Tel: +86 10 51897295
Deutsch-Tel: +86 10 51897284
Русский-Tel: +86 10 51897300
E-mail: gjy@crrcgc.cc
Fax: +86 10 52608280
<http://www.crrcgc.cc/>



BOX WAGONS

Innovative door-to-door freight solution for speed and efficiency

CRRC BOX WAGONS



OVERVIEW

The CRRC range of box wagons includes general purpose box wagons and custom box wagons, which can be designed to offer solutions tailored to our customers' varying needs, from different gauges to mechanical loading and tray transportation. The flexible design allows the wagons to be configured to best suit the characteristics of the cargo. For instance, different types of doors can be fitted, including sliding doors, plug doors or a combination of both, in order to meet the transport and unloading requirements of the cargo. Our heavy-load box wagons are mainly used to transport electronic equipment, and have a loading capacity of 30t to 80t. Our large-volume box wagons are used to transport low-density cargo such as cotton, and have a capacity of 60m³ to 243m³. Our express box wagons are used to transport parcels and fresh food, and can run at speeds from 60km/h to 160km/h. We have also developed box wagons

with moveable roofs and sidewalls in order to facilitate door to door transportation, as well as allow our wagons to seamlessly connect with road and water freight transportation.



▶ P80 type general purpose box wagon

▶ **INTEROPERABILITY**

The modular design of the box wagons can meet the requirements of different gauges including narrow gauge, standard gauge and broad gauge as well as different loading gauges. The type 150 brake valve can support a mixed configuration of passenger coaches and freight wagons. A large capacity, low-resistance and high-absorptivity draft gear reduces longitudinal impact on the vehicles.

▶ **LIFE CYCLE**

The box wagons are designed for a service life of 30 years or 6,500,000 kilometers.

▶ **HIGHLY INTELLIGENT**

Power is generated by the wagon itself or supplied by a locomotive. Safety protection and monitoring facilities include a hotbox detector, electronic anti-skid device and GPS system, which improve the safety and reliability of our wagons for high speed operation.



▶ Large-volume box wagon

KEY TECHNICAL PARAMETERS

Vehicle type	Large-volume box wagon	160km/h express box wagon	P80 type general purpose box wagon
Loading capacity	71t	36t	66t
Tare weight	29t	36t	28t
Volume	243m ³	210m ³	168m ³
Operating speed	115 km/h	160 km/h	120 km/h
Track gauge	1,435mm	1,435mm	1,435mm
Wagon length	22,608mm	23,946mm	18,566mm
Wagon width	3,044mm	3,195mm	3,300mm
Wagon height	5,594mm	4,580mm	4,770mm
Features	Efficient loading capacity. Large door and 3-layer mechanical loading: 36 trays on the floor, 26 trays on middle layer and 26 trays on upper layer Advantages: highvolume, convenient loading.	Suitable for tray and containerization loading. Advantages: high speed and convenient loading.	Mechanical loading of less-than-carload cargo in bags and boxes by forklift. Can also be used to transport livestock. Advantages: in common use.
Door opening size (height×width)	4,154mm×4,800mm	2,600mm×3,000mm	2,592mm×3,000mm
Height from the floor surface to the rail	1,040mm	1,134mm	1,134mm

▶ 160km/h express box wagon



MAIN FEATURES

▶ **ENVIRONMENTAL ADAPTABILITY**

The box wagons can operate in outdoor temperatures ranging from -40℃ to +50℃, and are built to withstand severe weather including wind, sand, rain and snow, so as to ensure the safety of the cargo.

▶ **HIGH CAPACITY**

Our large volume, large loading ability wagons can greatly improve freight transportation capacity. An adjustable height plate, installed on the side wall, can allow cargo to be mechanically loaded in two or even three layers, depending on the type and size of cargo. This new solution for international freight transportation provides a significantly more productive use of wagon volume and improves loading and unloading efficiency.

▶ **SAFE AND RELIABLE**

A nylon brush door seal and 2-level door locking device with self-locking mechanism improves the security and sand-proofing performance of our box wagons. A fastening device and flat stripe protective screening also help to protect the cargo against loss or damage.

▶ **ENERGY-SAVING AND ENVIRONMENT-FRIENDLY**

A light-weight car body design reduces the tare weight of our wagons. An innovative light-weight wheel steering device reduces the wheel/rail interaction force, wear of wheel flange and energy consumption. The bogie, designed for 160km/h high speed operation, has achieved many breakthroughs in running stability, wear performance and structural reliability.

INTERNATIONAL SALES

40 of our large volume box wagons were exported to Australia in 2014. They have performed exceedingly well over the last two years, and an additional 40 were ordered in 2016.