

China Rail Transit Air-conditioner Industry Report, 2014-2015

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Abstracts

China's demand of rail transit vehicles for air conditioning comes mainly from three aspects—railway coaches and locomotives, high-speed EMUs, as well as urban rail transit (metro and light rail).

Railway coaches and locomotives: In 2014, when China's railway jumpstarted a comprehensive reform, including the attempt to introduce non-state capital to carry out railway construction and initiate railway development fund, China's full-year railway investment totaled RMB808.8 billion. In a long time to come, China's fixed investment into railways will keep steady growth, and China's policies for speeding up railway construction will also remain unchanged.

In 2014, the locomotive ownership in China amounted to 21,100 units, an increase of 261 units from a year ago. Among them, the number of high-power CRH locomotives reached 8,423 units, rising 1,406 units on a year-on-year basis. China's railway air-conditioning is mainly used in locomotive cabs and railway coaches. In 2014, the demand of locomotives for air conditioning units in China approximated 1,658 units.

High-speed EMUs: In 2014, the domestic EMU ownership reached 1,411 trains, equivalent to 13,696 units, with the vehicle ownership density being about 0.82 units/km, up from 0.75 units/km in 2013. In 2014, China's air conditioning unit demand from EMUs amounted to 1,030 sets or so.

As of the end of 2014, China's high-speed railway network of four vertical and four horizontal trunk lines had been largely completed. In 2015, the rail lines under construction involve Xuzhou-Lanzhou High-speed Railway, Qingdao-Taiyuan High-Speed Railway, Beijing-Harbin High-Speed Railway, Beijing-Guangzhou-Shenzhen-

Hong Kong High-Speed Railway, as well as Shanghai-Kunming High-Speed Railway. In 2014, a total of 10 trunk railway lines to be improved and under development in western regions started construction, and additional 3 lines will start in 2015, all of which would be successively completed during 2018-2020. This will increase China's trunk line mileage, thereby expanding the demand for EMU air conditioning.

Urban rail transit (metro and light rail): As of the end of March 2015, there were a total of 39 cities that had been approved to construct urban rail transit lines. Among them, 90 subway lines from the said 22 cities had been put into operation, with a total mileage of 2,827 kilometers. Thus, this helped fuel China's demand for rail transit vehicles, which in turn expanded their demand for air-conditioning. In 2014, the market size of rail transit air-conditioning totaled about 11,814 sets.

As of the end of April 2015, the cities such as Luoyang, Hohhot, Xiangyang, Huainan, and Jiujiang were also mapping out the construction of urban rail transit. In future, an increasing number of medium-sized cities will construct rail transit, which would give an impetus to air conditioning demand in this respect.

In terms of overall market segments, China's demand for rail transit air-conditioning will come mainly from high-speed EMUs and urban rail transit. By contrast, the demand from railway coaches and locomotives will decline to some extent.

From the perspective of rail transit air-conditioning manufacturers, with high production qualification requirements (must obtain products test certificates and operational reports), China's rail transit air-conditioning unit manufacturers mainly include Shijiazhuang King Transportation Equipment, ZRJC, and Shanghai Faiveley.

As the technical partner of Mitsubishi Electric, Shijiazhuang King Transportation Equipment has an annual capacity of around 12,000 sets of rail transit air-conditioning units. Its major clients consist of CRRC, Mitsubishi, Alston, and Bombardier, etc. ZRJC mainly manufactures special air conditioning for locomotives, with its products widely used in railway coaches, subway, and other rail transit vehicles, which therefore has great advantages in locomotive air conditioning. Its major customers include CRRC, Siemens, and Alston, etc, Shanghai Faiveley Rail Vehicle Equipment Co., Ltd. is mainly engaged in production of air conditioning units for urban rail transit and coaches, with its technologies from its parent company—Shanghai Faiveley Group. Its major clients are comprised of CRRC and Bombardier.

China Rail Transit Air-conditioner Industry Report, 2014-2015 mainly focuses on the following:

Status quo of China's rail transit air-conditioning industry, including definition and classification, applications, and policies and regulations, etc.;

China's rail transit market, including development, investment scale, railroad network planning, etc. of China's railway transportation and urban mass transit;

China's rail transit vehicle market, including ownership and market demand of locomotives, urban rail, and high-speed EMUs;

China's rail transit air-conditioning market, including market demand, capacity, competitive landscape, and market forecast, etc;

Profile, financials, main products, R&D, and technical characteristics of 8 major rail transit air-conditioning manufacturers, including Shijiazhuang King Transportation Equipment, ZRJC, Shanghai Faiveley, New United Group, Merak Jinxin, Songz, Longertek Technology, and COOLTEK.

Contents

1. STATUS QUO OF CHINA'S RAIL TRANSIT AIR-CONDITIONING INDUSTRY

1.1 Product Definition and Classification

- 1.1.1 Air-conditioning Unit Series for Railway Coaches and Locomotives
- 1.1.2 Air-conditioning Unit Series for High-speed EMUs
- 1.1.3 Air-conditioning Unit Series for Urban Rail Vehicles
- 1.1.4 Air-conditioning Unit Series for Other Vehicles

1.2 Industry Policies

2.DEVELOPMENT OF CHINA'S RAIL TRANSIT INDUSTRY

2.1 Development of China's Railway Transportation

- 2.1.1 Status Quo
- 2.1.2 Railway Investment
- 2.1.3 Railway Network Size

2.2 Development of China's High-speed Rail

- 2.2.1 Operation of China's High-speed Rail
- 2.2.2 Construction Plan for China's High-speed Rail
- 2.2.3 China's Major High-speed Rail Projects under Construction

2.3 Development of Urban Rail Transit

3. DEVELOPMENT OF CHINA'S RAIL VEHICLE INDUSTRY

3.1 Locomotive

3.2 Urban Rail Transit Vehicles

3.3 High-speed Rail Vehicles

- 3.3.1 Market Demand for High-speed Rail Vehicles in China
- 3.3.2 Demand Forecast for High-speed Rail Trunk Line Vehicles in China
- 3.3.3 Demand Forecast for Inter-city Rail Vehicles in China

4. SITUATION OF RAIL VEHICLE AIR-CONDITIONING MARKET IN CHINA

4.1 Demand

- 4.1.1 Railway Air-conditioning Demand
- 4.1.2 Urban Rail Transit Air-conditioning Demand
- 4.1.3 Total Demand

4.2 Capacity

4.3 Competitive Landscape

4.4 Market Size Anticipation

5. MAJOR CHINESE RAIL TRANSIT AIR-CONDITIONING MANUFACTURERS

5.1 Shijiazhuang King Transportation Equipment Co., Ltd

5.1.1 Profile

5.1.2 Product and Market Shares

5.1.3 Major Clients

5.1.4 Service Network

5.1.5 Competitive Edge

5.2 Shanghai Faiveley

5.2.1 Profile

5.2.2 Operation

5.2.3 Revenue Structure

5.2.4 Shanghai Faiveley Rail Vehicle Equipment Co., Ltd.

5.2.5 Competitive Edge

5.3 Guangzhou Zhongche Railway Vehicles Equipment Joint-Stock

5.3.1 Profile

5.3.2 Product and Market Shares

5.3.3 Operation

5.3.4 Competitive Edge

5.3.5 Subsidiaries

5.4 New United Group

5.4.1 Profile

5.4.2 Operation

5.4.3 Revenue Structure

5.4.4 Gross Margin

5.4.5 New United Air-conditioning System (Jiangsu)

5.4.6 Product and Market Shares

5.4.7 Production and Sales

5.4.8 Competitive Edge

5.5 Merak Jinxin Air Conditioning Systems (Wuxi) Co. Ltd.

5.5.1 Profile

5.5.2 Main Products

5.5.3 Operation

5.5.4 Competitive Edge

5.6 Songz Automobile Air Conditioning Co., Ltd.

5.6.1 Profile

- 5.6.2 Operation
- 5.6.3 Revenue Structure
- 5.6.4 Gross Margin
- 5.6.5 Main Rail Transit Air Conditioning Products
- 5.6.6 Development of Rail Transit Air Conditioning Business
- 5.7 Longertek Technology
 - 5.7.1 Profile
 - 5.7.2 Main Products
- 5.8 Shanghai Cool-Air Transport Refrigeration Equipment Co., Ltd. (COOLTEK)
 - 5.8.1 Profile
 - 5.8.2 Main Products

List Of Charts

LIST OF CHARTS

Air Conditioning Installation for Major EMUs in China
Total Converted Turnover of China's Railways, 2008-2014
Passenger and Freight Traffic Volume of China's Railways, 2010-2014
Fixed-asset Investment in China's Railways, 2006-2015
Fixed-asset Investment Structure for China's Railways, 2011-2014
Locomotive Purchase Investment of China's Railways, 2006-2014
China's Railway Investment in Central and Western Regions, 2011-2015
Length of Railways in Operation in China, 2006-2015
Operating Mileage of New Railway Lines in China, 2006-2014
Electrified Railway Mileage in China, 2010-2014
Length of High-speed Railways in Operation in China, 2010-2014
Route and Mileage of High-speed Railways in Operation in China, as of the End of 2014
Plan for Constructing High-speed Railway Lines in China, 2020
High-speed Railway Lines to be into Operation, 2015-2020
Chinese Cities Approved to Construct Urban Rail Transit as of March 2015
Urban Rail Transit Lines in Operation in Major Chinese Cities at the End of March 2015
Operating Mileage of China's Urban Rail Transit, 2008-2014
China's Locomotive Ownership, 2007-2014
China's Locomotive Structure, 2007-2015
China's Railway Locomotive Output, 2006-2015
China's Subway Vehicle Ownership, 2011-2015
China's Subway Vehicle Ownership, 2015-2020E
High-speed Railway Vehicle Ownership Density in Major Countries
Major High-speed Railway Trunk Line Projects under Construction in China, 2015
Intercity High-speed Railways Proposed and under Construction in China, 2015
Added Market Demand for Intercity High-speed EMUs in China, 2015-2020E
Demand Trend in Locomotive Air-conditioning in China, 2009-2014
Demand Trend in Air-conditioning for Railway Coaches in China, 2009-2014
Increment in EMU Ownership in China, 2007-2014
Trend in Urban Rail Transit Ownership in China, 2010-2014
Demand Distribution of Rail Transit Air-conditioning in China, 2010-2014
Capacity of Major Domestic Rail Transit Air-conditioning Manufacturers, 2014
Major Domestic Rail Transit Air-conditioning Manufacturers and Their Partners
Market Size of Rail Transit Air-conditioning in China, 2015-2020E
Models and Application of Air-conditioning Products for Main Rail Transit Vehicles of

Shijiazhuang King Transportation Equipment
List of Air-conditioning for Light Railway of Shijiazhuang King Transportation Equipment
Performance Index of Air-conditioning Units for Subway Vehicle Compartment of Shijiazhuang King Transportation Equipment
Air-conditioning Units for Subway Vehicle Driver's Cab of Shijiazhuang King Transportation Equipment
Performance Index of Air-conditioning Units for Railway Coaches of Shijiazhuang King Transportation Equipment
Performance Index of Air-conditioning Units for Locomotive Driver's Cab of Shijiazhuang King Transportation Equipment
Performance Index of Air-conditioning Units for High-speed Trains of Shijiazhuang King Transportation Equipment
Performance Index of Air-conditioning Units for Other Vehicles of Shijiazhuang King Transportation Equipment
Major Domestic and Foreign Clients of Shijiazhuang King Transportation Equipment
Domestic Service Centers of Shijiazhuang King Transportation Equipment
Overseas Service Centers of Shijiazhuang King Transportation Equipment
Shanghai Faiveley's Orders, FY2010-FY2015
Shanghai Faiveley's Revenue and Operating Income, FY2014-FY2015
Shanghai Faiveley's Revenue by Region/Business, FY2014-FY2015
ZRJC's Air Conditioning Units for Railway Coaches
ZRJC's Air Conditioning Units for Railway Coaches (Double-deck)
ZRJC's Split-type Air-conditioning Units for Railway Coaches
ZRJC's Locomotive Air-conditioning Units
ZRJC's Air-conditioning Units for Urban Rail Vehicles
ZRJC's Air-conditioning Units for Qinghai-Tibet Railway Vehicles
ZRJC's Air-conditioning Units for Railway Air-conditioned Power Generator Cars and Baggage Cars
ZRJC's Major Holding Subsidiaries
Revenue and Net Income of New United Group, 2011-2014
Revenue Structure of New United Group by Segment, 2011-2014
Gross Profit and Gross Margin of New United Group, 2011-2014
Air-conditioning Revenue and Gross Margin of New United Group, 2011-2014
Major Train Air-conditioning Products of New United Group
New United Group's Air-conditioning Equipment Capacity, Output, and Sales Volume, 2011-2014
New United Group's Partners
Performance List of Merak-Jinxin
Number of Employees of Songz, 2010-2014

Songz's Revenue and Net Income, 2010-2014

Songz's Revenue Structure by Product, 2010-2014

Songz's Revenue Structure by Region, 2010-2014

Songz's Gross Margin by Product, 2010-2014

Songz's Major Air-conditioning Equipment for Subway Vehicles

Songz's Major Air-conditioning Equipment for Railway Coaches

Songz's Planning to Introduce Strategic Investors into Rail Transit Air-conditioning Business

Longertek Technology's Major Urban Rail Transit Vehicle Air-conditioning

Longertek Technology's General Air Conditioning Units for Major Locomotives

Longertek Technology's Ultra-thin Air Conditioning Units for Major Locomotives

Longertek Technology's SIEMENS DJ-1 Air Conditioning Units for Electric Locomotives

COOLTEK's Major Urban Rail Transit Vehicle Air-conditioning

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