中国中车
CRRC

Presentation of CRRC Zhuzhou Locomotive Co., Ltd.

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www.crrcgc.cc

Part 1 About CRRC ZELC

Part 2 Products and Service of CRRC ZELC

Part 3 Metronet project planning

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About the company

CRRC Zhuzhou Locomotive Co., Ltd. (CRRC ZELC)

- Since 1936
- Core subsidiary of CRRC
- Worldwide largest R&D and manufacturing base of electric locomotive
- Birthplace of China’s EMU

About the company

- Main products: electric locomotive, metro, LRV, intercity EMU/DMU, tram, maglev, etc..
- Headquarter: Zhuzhou Hunan China

E Locomotive	Mass transit vehicle	EMU/DMU	Other products

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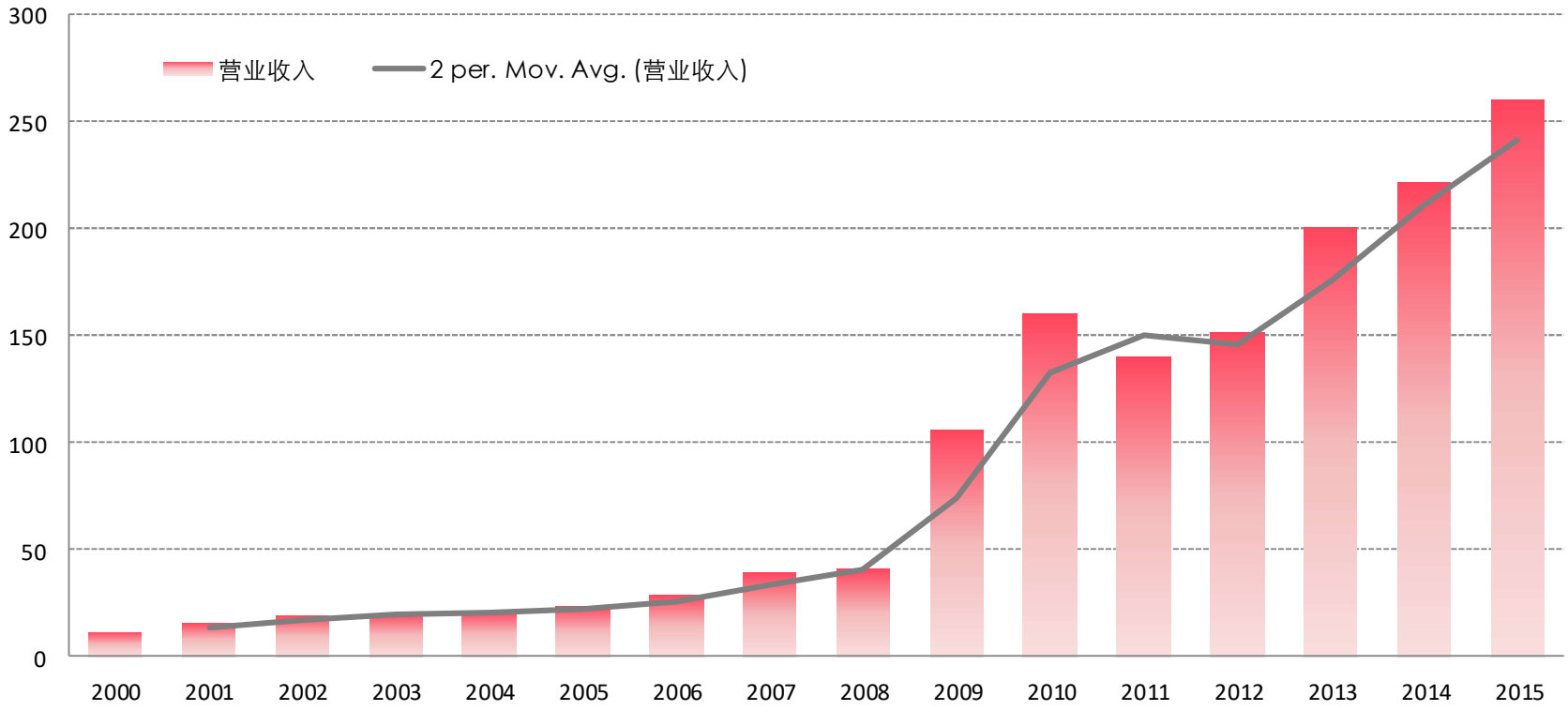
Business Performance

From 2000 to 2015, the average growth rate per annum is 23.4%.



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System Certification

ISO9001	ISO14001	OSHMS	EN15085	IRIS
1996	2001	2002	2004	2008

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Human Resources

R&D team

- 25% of the 10,000 employees engaged in the R&D of products and engineering technologies.
- One academician of Chinese Academy of Engineering.
- 12 experts who enjoy the special allowance of state council.

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Scientific Research Resources

National level R&D center, testing and commissioning facility for various rail vehicle products.

R&D center	Test station	Dynamic test line	Locomotive commissioning	Mass transit commissioning

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Scientific Research Resources

System Integration Engineering Laboratory for rail vehicle

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China Distribution

21

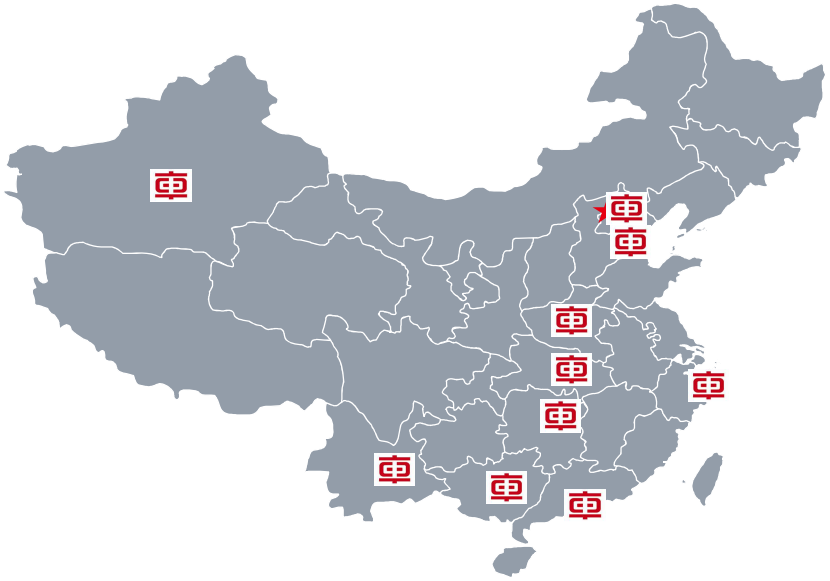
21 subsidiaries in 10 provinces of China

14

Electric Locomotive distributed in 14 railway companies with 29 depots

13

Mass transit vehicle enter into 13 cities of China



Bases in China

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Distribution Worldwide

The products and service distributed in nearly 20 countries, and the related assembly/manufacturing or maintenance base have been established.

Malaysia
Manufacturing and maintenance base

Turkey
Joint-venture for assembly and maintenance

South Africa
Subsidiary and JV

India
Subsidiary

Europe
Branch

Turkey

South Africa

Europe Branch

Malaysia

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Electric Locomotive

Honored as the pioneer of China's Electric Locomotive

Capacity

- Annual production capacity: 1000 sets
- Types of Researched and manufactured electric locomotives : 53
- Market share in China: 61%

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Mass Transit Vehicle

Product platform

Type	80km/h	100km/h	120km/h
Maglev			
Metro			
Monorail			
Light Rail Vehicle			
70% Low Floor Tram			
100% Low Floor Tram			

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Manufacture Platform

Plant in Zhuzhou

Manufacture multiple types of aluminum alloy and stainless steel urban rail concurrently

Annual capacity up to 1200 cars

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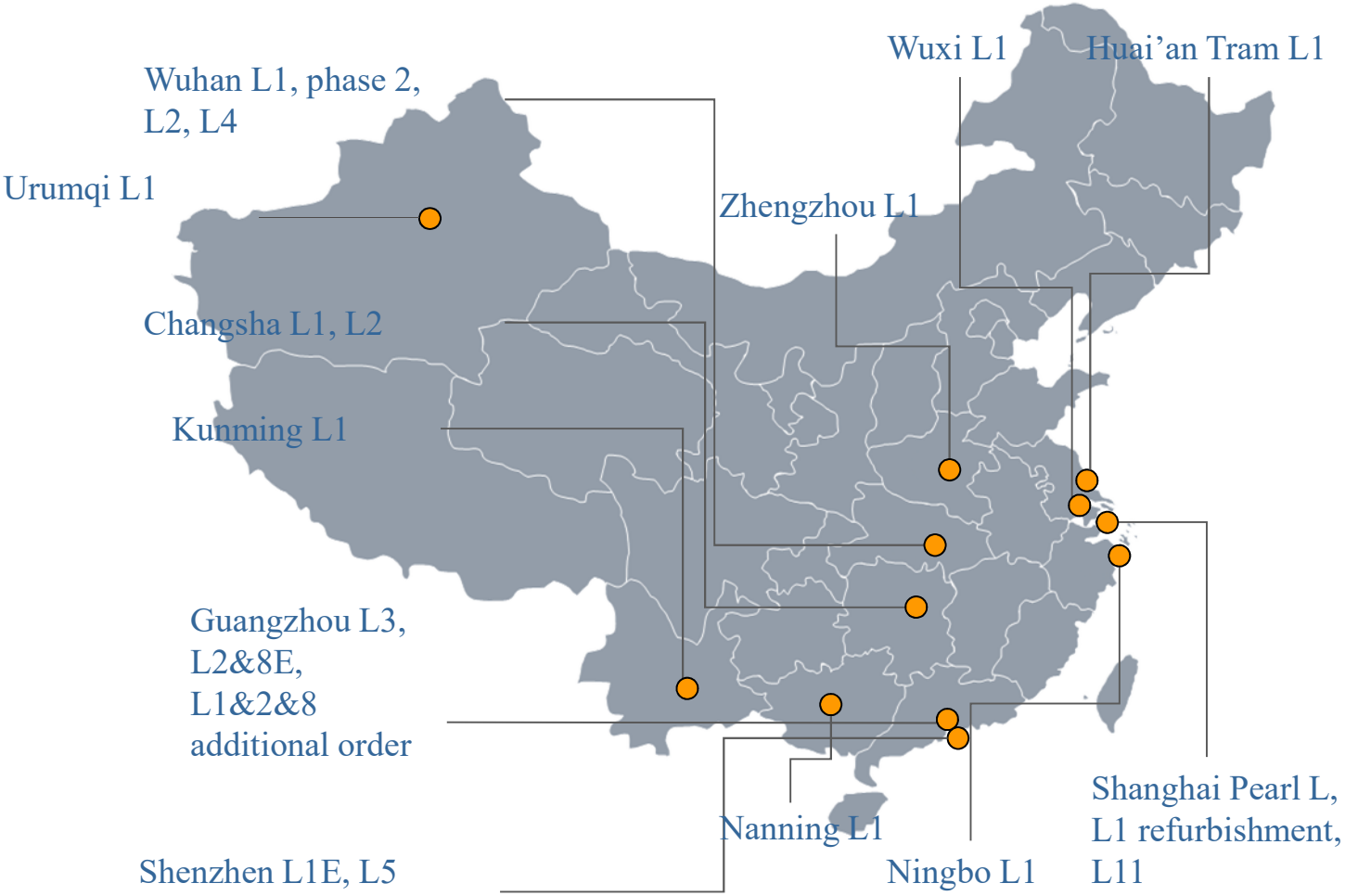
Domestic Distribution

- 6,000 metro cars delivered



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EMU&DMU

Domestic Products

Since 2000, CRRC ZELC have developed different type of EMUs with speed ranging from 160km/h to 321.5 km/h.

Blue Arrow

Operation speed： 200km/h

Mid-Land Star

Operation speed: 160km/h

China Star

Highest Test Speed in 2002: 321.5 km/h

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EMU - Overseas Projects

SCS EMU to Malaysia

ETS EMU to Malaysia

EMUs + DMUs to Macedonia

2016, Czech EMU project awarded

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Other Products

Super capacitor tram

- Super capacitor as energy storage device
- 100% low floor

Medium and low speed maglev

- Quiet, comfortable, stable and safe
- Strong environment suitability
- Speed: 100km/h
- Low construction and maintenance cost

Other Products

Battery electric locomotive

- Power supplied from catenary or on board accumulator
- Functions: shunting in depot, hauling and transporting, line maintenance, equipment integration inspection, etc..

Trolley bus

- 10 second fast charging in station
- 12 meter type bus
- 18 meter bus in demonstration route in Austria

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Extending of Industry Chain

Business model

- Vehicle supply
- Manufacturing/assembly + Maintenance service

Maintenance business

- Professional team, mature management system
- 7 days + 24 hours, fast response service
- Whole life circle service
- Maintenance base worldwide

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Metronet project planning

Vehicle

CRRC ZELC will adopt mature and reliable EMU technology platform for Metronet project

Local content

CRRC ZELC will try its' best to support the development of local economy through local content of the project

Generally, our measures for local content

- Local assembly/manufacturing, cooperate with local partner
- Local procurement
- Local employment
- Local service

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Contact person

LI Yunguang York
Senior project manager
CRRC Zhuzhou Locomotive Co., Ltd.
liyunguang6@vip.163.com

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