Trends shaping China Railway Specialized Logistics System

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2018.06.27
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1 China Railway Specialized Logistics System Construction Technology

(3) International Transport System Construction

- Giving priority to regular trains, non-sked trains assist.
- Achieving the whole process of China Railway Express is Unobstructed.
- Optimizing vehicle use.
- Strengthen the transport process on control.
- Implementing the whole process appraisal management.
- Improving the whole process information service.
• Creating China Railway Express International cooperation mechanism.
• Building domestic enterprise collaboration platform.
• Constructing China Railway Express transport security system.
Since the operation of China Railway Express in 2011, from zero to rapid growth, the size and number showing explosive growth. In 2017, China Railway Express operating 57 lines, include 35 cities in China, which connecting 12 countries and 34 cities in Europe.
By the end of 2017, the high-speed railway will be more than 25,000 kilometers. In 2020, it will reach 30,000 kilometers.
• According to the demands of the express market and the distribution of the EMU depot, the node layout planning of the high-speed rail express station was planned, and the construction plan of the high-speed rail express base was determined.

• Combined with the characteristics of the production operation in the express industry, we make full use of the motor vehicle inspection and passenger train.

• Strengthen cooperation with social express companies by utilizing resources such as the high-speed railway network and vehicles
• Signing annual general logistics contract with production enterprises to improve the proportion of the whole operation.
• Deep into the customer supply chain, timely expand the "warehouse forward" operation mode.
• Cooperate with social logistics enterprises to extend the logistics service chain.
(6) Cold Chain Transportation System Construction

01 Developing railway cold-chain logistics facilities, speed up the upgrading of mechanical refrigerated vehicles and refrigerated containers.

02 Promoting refrigerated train products in north China, south China, east China and southwest China, and focus on refrigerated train products in east China, southwest China, southeast China, northwest China, southwest China, north China and northeast China.
(6) Cold Chain Transportation System Construction

03 Developing the market for refrigerated containers at ports and strengthen cooperation with major ports. Actively develop new markets and new products (such as mineral water, edible vegetable oil, beer, high-grade fruits, flowers, pharmaceuticals).

04 Improving the quality of the cold chain convection project, the quantity of the cold chain convection in the “east-west” and “south-north” direction is emphasized.
The main routes for bulk commodities such as coal, coke and iron ore using the mode of freight dedicated lines to reduce the number of passenger trains or pure cargo trains and realize large-scale and intensive organization.

In special channel using fixed marshalling and circular transportation. If the reverse cargo is sufficient, it will be full cargo round trip. If it is insufficient, the train will be full loaded come and empty back.

On the basis of trunk line transportation system, building the large loading stations, transportation feeder, combined technology of freight system, formed by large unloading point, branch lines and decomposing technical stations.
2 China railway Specialized logistics system construction experiences

(2) Experiences in the Construction of Fast Transport System for Scattered Goods

Establish a diversified collection system

Form an alliance with other organizations, through the contract to jointly develop scattered freight market business, increase the joint operation of distributed goods at both ends, improve the comprehensive logistics services and high efficiency.

Optimizing the scheduling of major railway lines

Regular, irregular, round-trip, intercity and other forms of organization, so as to achieve the train running through the whole line.

Improving connectivity with other transport modes

From the cargo transport capacity, organization mode docking, operation management mechanism, information interconnection and other aspects to effectively connecting.

Using containerized transportation

By unitized transport, reduce the number of repeated handling of goods, give full play to the container appliance effect on the protection of the goods, effectively prevent the loading and unloading of goods collision damage and loss, improve transport efficiency, reduce cargo damage.
THANK YOU FOR LISTENING

2018.06.27
01. China Railway Freight Transport Development Status and Summary

02. China Railway Specialized Logistics System Construction Technology

03. China Railway Specialized Logistics System Construction Experiences
In 2017, China Railway General Corporation sent a total of 2918 million tons, a year over year growth of 267 million tons, Increase 10.1%. 

(1) Railway freight Volume Development Trend

- In 2017, China Railway General Corporation sent a total of 2918 million tons, a year over year growth of 267 million tons, Increase 10.1%. 

![Bar chart showing railway freight volume from 2005 to 2017]
The bulk of the goods had risen strongly. Coal, metal ore, coke, iron and steel, grain, the five main bulk transport materials increased by more than 90% of the total increase.

Specialized transportation of railway is developing rapidly. The annual volume of Container, commodity car, cold chain logistics increased by 37%, 58%, and 113% respectively.

In 2017, the China Railway Freight Train ran by 3673 trains, the increase was 116% year-on-year.
From 2008 to 2017, the express business volume increased from 1.51 billion pieces to 40.06 billion pieces, the average annual growth was 43.9%. Income increased from 40.8 billion yuan to 495.7 billion yuan, the average annual increase was 32%. China had become the world’s largest express delivery country for four consecutive years, accounting for about 50% of the total global express delivery volume.
In the end of 2017, there were 466 groups of EMU with special cabinet for high-speed rail express transportation. There are 481 high-speed railway express processing stations, and 208 primary and secondary logistics bases, including 57 train stations.
In recent years, the railway commodity automobile logistics has a rapidly growth, from only 50,000 in 2006 to 4.6 million in 2017. In 2017, the delivery market shares of roads, waterways and railways in China's vehicle logistics transportation are 72%, 10% and 18% respectively, shows a great potential for development.