FREIGHT WAGONS – GLOBAL MARKET TRENDS
Forecast, Installed Bases, Suppliers, Procurement Projects
Freight Wagons – Global Market Trends
Forecast, Installed Bases, Suppliers, Procurement Projects

Available in English from 19th December 2017.
Now you can also purchase the data annex in Excel format (see overview data sheets on page no. 6 for more information).

The global freight wagon market is traditionally and particularly currently experiencing very strong developments in different directions depending on the individual market regions and the involved players. As most manufacturers rarely have links to regions outside their own, the various trends cannot compensate for each other. In order to operate effectively in the freight wagon market, well-founded knowledge of the fundamental structure of and basic figures concerning the market are necessary.

Based on the current developments in the rail freight transport market, the Multi Client Study “Freight Wagons – Global Market Trends” delivers an analysis and well-founded estimate of the future demand for procurements in this segment.

SCI Verkehr analyses markets from the bottom up: based upon systematic observation of railway markets, a detailed worldwide database of installed bases and projects forms the foundation for in-depth studies on various segments of the railway industry. The vehicle database, which currently comprises 30,000 data records, is a particularly valuable resource. This study is also based on the evaluation of data from the information service SCI/RAILDATA, publicly-accessible sources, interviews with internal and external experts as well as SCI Verkehr’s continuous observation and analysis of the market.

In concrete terms, this multi-client market study of freight wagons includes:

- A regionally differentiated examination of the worldwide market for freight wagons including an in-depth analysis of all attractive markets in the individual countries, especially in Europe
- A comprehensive analysis of current installed bases in terms of type, operational purposes, quantities and age distributions as well as future procurement potential
- An overview of the most important drivers behind the procurement, fleet development and refurbishment of freight wagons in the individual regions
- Forecast of new procurement and After-Sales volumes of freight wagons (in EUR) for each region by 2021, review of the development up to 2011
- Type-specific forecast of future vehicle requirements in each region, divided into six main categories (open wagons, covered wagons, flat wagons, intermodal wagons, tank wagons, other wagons)
- Specific view on the different fleets regarding operators and leasing companies
- Analysis of the current market shares of significant freight wagon manufacturers and a brief description of all significant manufacturers in the individual regions
- Brief description of important current and planned procurement projects
- Detailed overview of the most important freight wagon manufacturers including a description of their current range of products and services in individual fact sheets
This study is intended for all companies which are or intend to become active in the freight wagon market: transport companies, manufacturers, suppliers, leasing companies, maintenance companies, investors, banks and loan companies as well as public institutions, professional associations and consultancy companies.

SCI Verkehr GmbH is an independent consultancy company specialising in the markets and economics of transport. We have close connections to the rail industry, with consultants in a wide range of specialist fields. We have an extensive network of experts in Germany and abroad and we specialise in market and strategy issues for the mobility sector. Our activities focus on companies in the transport and rail industry, logistics, public and private transport companies and transport and economics departments in public administrations at national, regional and municipal levels.

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CONTENTS

1 Executive Summary: Freight Wagons – Global Market Trends .................. 19
  1.1 Overall Market .............................................................................. 19

2 Market Delimitation and Methodology of the Study ............................ 43
  2.1 Objective of the Market Analysis ................................................. 43
  2.2 Delimitation of the Railway Technology Market .......................... 44
  2.3 Market Analysis Methodology ...................................................... 49

3 The Market for Freight Wagons in Europe .......................................... 53
  3.1 Overall Market ............................................................................ 53
  3.2 Germany .................................................................................... 72
  3.3 France ....................................................................................... 78
  3.4 United Kingdom .......................................................................... 82
  3.5 Italy ........................................................................................... 86
  3.6 Austria ....................................................................................... 90
  3.7 Switzerland ............................................................................... 94
  3.8 Poland ....................................................................................... 97
  3.9 Czech Republic ........................................................................ 101

4 The Market for Freight Wagons in the CIS Region ............................... 105
  4.1 Overall Market ............................................................................ 105
  4.2 Russia ...................................................................................... 125
  4.3 Ukraine ..................................................................................... 130
  4.4 Kazakhstan ............................................................................... 134

5 The Market for Freight Wagons in Asia .............................................. 137
  5.1 Overall Market ............................................................................ 137
  5.2 China ........................................................................................ 152
  5.3 India ........................................................................................ 157

6 The Market for Freight Wagons in North America ................................ 161
  6.1 Overall Market ............................................................................ 161

7 The Market for Freight Wagons in South and Central America .......... 177
  7.1 Overall Market ............................................................................ 177

8 The Market for Freight Wagons in Africa/Middle East ........................ 192
  8.1 Overall Market ............................................................................ 192
9 The Market for Freight Wagons in Australia/Pacific ..................................... 206
9.1 Overall Market .......................................................................................... 206

ANNEX

Annex A: Fact Sheets of the Manufacturer ................................................... 219
Annex B: Fleet Overview for Regional and National Markets ......................... 255
OVERVIEW DATA SHEETS

1 Market Overview
1.1 World Market Overview (Pivot)
1.2 Transport Performance (Pivot)
1.3 Market Volume (Pivot)
1.4 World Market Overview (Data)
1.5 Transport Performance (Data)
1.6 Market Volume (Data)

2 Installed Base
2.1 Installed Base Overview (Pivot)
2.2 Installed Base Country (Pivot)
2.3 Installed Base Owner (Pivot)
2.4 Installed Base Company (Pivot)
2.5 Installed Base Age (Pivot)
2.6 Installed Base Overview (Data)
2.7 Installed Base Country (Data)
2.8 Installed Base Owner (Data)
2.9 Installed Base Company (Data)
2.10 Installed Base Age (Data)

3 Deliveries
3.1 Deliveries Countries (Pivot)
3.2 Deliveries Segment (Pivot)
3.3 Deliveries Manufacturer (Pivot)
3.4 Deliveries 2016 vs. 2021 (Pivot)
3.5 Deliveries Year Segment (Pivot)
3.6 Deliveries Countries (Data)
3.7 Deliveries Segment (Data)
3.8 Deliveries Manufacturer (Data)
3.9 Deliveries 2016 vs. 2021 (Data)
3.10 Deliveries Year Segment (Data)

4 Additional Tables
4.1 Project Overview (Data)
4.2 Additional Figures
Extract from the Study

5 The Market for Freight Wagons in South and Central America

5.1 Overall Market

5.1.1 Market Overview

After some years of low procurement numbers, the South and Central American freight wagon reached a new intermediate record of more than X XXX wagons in 2015 and, despite a decreasing trend, remains on a high level at around X XXX wagons. The total volume accounts to approx. EUR 410 million annually. The freight wagon After-Sales sector has a volume of around EUR 400 million. Within the last years, the new vehicle market has experienced very high volatility with deliveries totalling around X XXX wagons in 2011 and a cooldown to around X XXX wagons two years later in 2013. One year later, the volume jumped back to X XXX. For the next years, SCI Verkehr expects the demand for new freight wagons to be more stable.

[...] 

5.1.2 Market Environment/Transport Market

Rail freight transport in South and Central America is a positively developing market with almost continuous growth since the turn of the millennium. Transport performance rose from 253 billion tkm in 2005 to 360 billion in 2015, constituting an increase of 42% within ten years. Transport performance in South and Central America is roughly at the level as in the Australia/Pacific region.
In many other South and Central American countries, railways play a minor role in rail freight transport, which is mainly related to the very limited infrastructure capacities and the dominance of road transport.

[...]  

5.1.3 Installed base/Age structure

The freight wagon fleet in South and Central America comprises around 152,000 wagons, constituting an increase of almost 79,000 wagons compared to 2012. More than three-quarters of the wagon fleet in South and Central America are operated in Brazil, primarily consisting of open wagons (almost 75%) for the transport of ores and, with some distance, agricultural products.

Installed Base Freight Wagons by Country 2016 [units]
South and Central America

![Installed Base Freight Wagons by Country 2016](image)

Figure 2: Installed base overview: freight wagon fleets in the South and Central America by country 2016

Despite continuous fleet reductions over the last years, Argentina accommodates still the second-largest freight wagon fleet in South and Central America, comprising around 15,000 units. Main reason behind the shrinking fleet was the low demand for rail freight transports resulting from the difficult economic situation in Argentina. […]
With more than XXX 000 units, open wagons are by far the most important wagon segment. This is due to the high importance of the ore (open hoppers) and agricultural industry (covered hoppers) in South America and its significance with regards to exports, e.g. to China.

Resulting from the further intensification of the mining activities and the upgrade of the network, the fleet of open wagons will increase further.

The fleet of open wagons consists of around XX 000 wagons with a decreasing tendency, as they are substituted by open wagons (agricultural industry) and intermodal wagons (consumer goods).

The number of flat wagons in South and Central America is comparatively small (around XX% of the total fleet). The wagons are often multi-purpose wagons or dedicated to the transport of railroad ties and track construction material as well as wood, steel products or cement. Standard flat wagons are also often used for the transport of containers.

The intermodal fleet consists of approx. XX 000 units, primarily owned by Rumo/Brado Logistica, Vale subsidiary FCA and MRS Logistica in Brazil. Resulting from the extension projects (e.g. Norte-Sul railway) in Brazil, new procurements of intermodal wagons are necessary to meet the increasing demand.

With around X%, the share of tank wagons in the total wagon fleet is small. In contrast to other world market regions, ethanol fuel and vegetable oils are the main goods type transported with tank wagons. The total fleet also comprises some pressurised gas wagons. SCI Verkehr expects the fleet to remain constant.

Other freight wagons have a small share in the total of X%, i.e. X XXX wagons.

5.1.4 Ownership structure

Resulting from the liberalisation process in Berlin, all freight wagons are owned by private rail freight or leasing companies. In contrast, Argentina decided to renationalise rail freight transport due to prior financial difficulties and a lack of needed investments in 2013. Leasing companies are of minor importance in South and Central America.

Fleets of the Largest Freight Wagon Owners 2016 [units]
South and Central America
Operators

- Around XX% of the South and Central American freight wagon fleet is owned and operated by private operators or incumbents. As the fleet of the latter only comprises around XX 000 wagons, private operators are dominating the freight wagon business.
- The mining giant VALE (second-largest metals and mining company in the world) owns a combined wagon fleet of almost XX XXX units, which are proportioned to several railway companies united in the brand VLI Multimodal SA. VALE is the mother company of three of the top five freight wagon owning rail freight operators in South and Central America.
- [\[\ldots\]\]
- Estrada de Ferro Vitória a Minas (EFVM) is a 905km railway line connection between the iron ore mining area Vale do Aço in the State of Minas Gerais with the ports of Porto de Tubarão located in the capital Vitória (capital of the State of Espírito Santo) and the port of Barra do Riacho located in Aracruz. Most important goods type transported on the metre gauge line is iron ore, other goods transported by EFVM are steel, coal, limestone and agricultural products. EVFM has a fleet of around XX 000 wagons, primarily composed of open wagons (approx. 88%).
- [\[\ldots\]\]

Leasing companies

- The share of leased freight wagons in the total freight wagon fleet amounts to around X XXX wagons. The most important leasing company in South and Central America is Mitsui & Co. (Brasil) owning around X XXX wagons (mostly open and covered wagons).

TOTAL

- The total fleet of freight wagons in South and Central America is around ~152 000 units.

5.1.5 Manufacturers/Products/Market Shares

Comparable to the development in other world market regions, the manufacturer landscape in the South and Central American freight wagon market experienced a process of consolidation. Within the last years, smaller manufacturers like SABB, Emem or Santa Fe Vagoes were pushed out of the market. Nonetheless, freight wagons in South and Central America are mainly supplied by domestic manufacturers and not imported.

Market Shares Manufacturers 2012-2016 [units]
South and Central America

![Market Shares Manufacturers 2012-2016](image)

Figure 109: Market shares of freight wagon manufacturers in South and Central America 2012–2016
The Brazilian freight wagon market is determined by the two large companies Greenbrier-Maxion and XXX, which together account for almost three-quarters of the total South and Central American market. Despite comprehensive manufacturing […]

5.1.6 Market volume and market development

The procurement numbers of new freight in South and Central America are heavily influenced by the requirements of the raw material industry and, in consequence, are very volatile. The strong fluctuations in incoming orders are also a consequence of the high importance of a few large freight rail freight operators/wagon owners for the overall market. As soon as an important company suspends procurements, this can result in a major drop in demand.

Figure 110: Freight wagon deliveries by wagon type and country in South and Central America 2012-2016

After a major drop in freight wagon deliveries from X XXX to X XX units between 2011 and 2012 and a further decrease in 2013, the procurement numbers reached a new record high of X XXX wagons in 2015 (highest procurement numbers since 2005). The most influencing market for the procurements is Brazil with a high demand in new open wagons for ore and soy/grain transports. […]
Transport demand and rail conditions

Transport demand strongly depends on the raw material industry. Despite lower market prices for raw materials in 2015 (down by more than 70% compared to 2013), transport volumes have not decreased and the demand for freight wagons in this sector recorded an intermediate record. Resulting from new development and expansion projects will the demand in new freight wagons increase (high percentage growth especially in the segment of intermodal wagons resulting from the Norte-Sul railway project).

Investment funds and conditions

Fleet age and condition

Rail infrastructure

Relevance for procurements: very high, high, medium, low, none

5-year trend: strongly increasing, increasing, constant, decreasing, strongly decreasing

Figure 33: Analysis/forecast of freight wagon procurements by country in South and Central America 2010-2021
5.1.7 Important selected current and planned procurement projects

<table>
<thead>
<tr>
<th>Country</th>
<th>Units</th>
<th>Owner</th>
<th>Type</th>
<th>Delivery</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR</td>
<td>3 509</td>
<td>Trenes Argentinos Cargas</td>
<td>open, flat, intermodal</td>
<td>2014-2017</td>
<td>On 24th May 2017, 156 freight wagons arrived at the Port of Buenos Aires. The latest shipment by CRRC comprised 122 wagons for the Belgrano network and 34 wagons for the San Martin line. In December 2014, CRRC received the order to supply 107 diesel locomotives and 3 509 wagons to Argentina (see SCI RAILDATA Issue 51/2014). 67 out of these locomotives are going to San Martin and the remaining 40 to the Belgrano network. With this latest batch, the number of total freight wagons delivered increased to 2 963.</td>
</tr>
<tr>
<td>[...]</td>
<td>[...]</td>
<td>[...]</td>
<td>[...]</td>
<td>[...]</td>
<td>[...]</td>
</tr>
<tr>
<td>CU</td>
<td>225</td>
<td>UFC</td>
<td>open, covered, intermodal</td>
<td>2017</td>
<td>Russian rolling stock manufacturer RM Rail has signed a contract to supply a further 225 wagons to Cuba, in addition to 363 wagons, which were delivered last year. The latest order covers 50 sugar hopper wagons, 70 60 ft. container flat wagons and 105 covered vans. The 1 435 mm gauge designs were developed in-house by RM Rail to Cuban standards, using Janney couplers as well as corrosion-resistant steel and specialised paint as protection against the tropical climate.</td>
</tr>
<tr>
<td>CU</td>
<td>363</td>
<td>UFC</td>
<td>open, covered, intermodal</td>
<td>2015-2016</td>
<td>Rolling stock manufacturer Russian Machines Group (RM Rail) has dispatched the last of 363 freight wagons ordered in 2015 by Empresa Proveedora General del Transporte. 163 sugar hopper wagons, 100 container wagons and 100 freight wagons with 1 435 mm gauge have been especially designed to suit Cuban specifications. In order to finance the contract, Eximbank of Russia has provided Banco Internacional de Comercio with a EUR 21 million facility under a pilot credit deal intended to initiate long-term co-operation. The export credit risk is covered by the Russian Agency for Export Credit &amp; Investment Insurance (ECA).</td>
</tr>
</tbody>
</table>

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1 Annex A: Fact Sheets of the Manufacturer

FreightCar America

Overview

| Head Office: | Two North Riverside Plaza, Suite 1300 Chicago, IL 60606, USA |
| Website: | www.freightcaramerica.com |
| Shareholders (June 2017): | 10% Boston Partners Asset Management LLC, 9% Robeco Investment Management, 8% Royce & Associates LLC, 8% Dimensional Fund Advisors LP, 5% Wells Capital Management Inc., 60% other institutions and funds |
| Management: | Joseph E. McNeely (President and CEO) |
| Employees (2016): | 1,529 |
| Turnover (2016): | EUR 474 million (USD 524 million) |
| Profit (2016): | EUR 11 million (USD 12 million, net income) |

Development of Turnover and Net income

<table>
<thead>
<tr>
<th>Year</th>
<th>EBIT (million USD)</th>
<th>Turnover (million USD)</th>
<th>ROS (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>22</td>
<td>22</td>
<td>15,4%</td>
</tr>
<tr>
<td>2011</td>
<td>143</td>
<td>487</td>
<td>4,9%</td>
</tr>
<tr>
<td>2012</td>
<td>5</td>
<td>33</td>
<td>4,9%</td>
</tr>
<tr>
<td>2013</td>
<td>24</td>
<td>250</td>
<td>8,3%</td>
</tr>
<tr>
<td>2014</td>
<td>11</td>
<td>32</td>
<td>4,4%</td>
</tr>
<tr>
<td>2015</td>
<td>32</td>
<td>599</td>
<td>2,3%</td>
</tr>
<tr>
<td>2016</td>
<td>12</td>
<td>773</td>
<td>0%</td>
</tr>
</tbody>
</table>

FreightCar America (FCA) is a US manufacturer of freight wagons, especially wagons for coal transport. The company has a long history of freight wagon development and production. FCA and its predecessors have been manufacturing wagons since 1901. The company designs and produces aluminium and steel-bodied freight wagons and supplies rail vehicle components. FCA’s primary customers are rail freight operators, financial institutions and shippers which represent 69%, 17%, and 15% of total revenue (2015), respectively.

As depicted/illustrated/... in the graphic above, revenues and profits have been fluctuating in recent years. In 2015, FCA reached a revenue peak with USD 773 million. Net income followed and also reached a peak of USD 32 million. The backlog of FCA at the end of 2015 was 9,840 freight wagons, almost all of which were orders for non-coal wagons. The estimated sales value of the backlog is EUR 847 million (USD 926 million).

In 2015, FCA delivered 8,980 wagons, including 3,395 coal freight wagons. This included 6,280 new, 2,600 rebuilt, and 100 leased wagons. Driven by low demand from coal markets, the company recovered from the slump entirely in 2013 and surpassed the record numbers of 2012. In 2015, revenue from three customers, Norfolk Southern Railway Company, CSX Transportation Inc. and Citigroup Railmark, Inc, accounted for approximately 22%, 19% and 10%, of the total revenue, respectively.

The company also offers freight wagon leasing services which are provided by the subsidiary JAIX Leasing Company. A former subsidiary, FreightCar Rail services (FCRS), provided wagon repair and maintenance, inspection and wagon fleet management for all types of freight wagons. At the end of 2015, the company sold its railcar repair and maintenance services business to Appalachian Railcar Services for EUR 18.3 million (USD 20 million). According to FCA, the sale will allow it to increase its focus on railcar manufacturing, parts, and leasing business as the company continues to broaden its product portfolio through the introduction of new railcar types and the implementation of operational improvements. During the financial year 2013-2014, FCA closed its maintenance facility in Clinton, Indiana, and sold the repair shop assets to a strategic buyer. The company particularly specialises in the production of coal wagons. The “BethGon” model freight wagon has been the leading aluminium-bodied coal wagon sold in North America for over 20 years. In addition to coal wagons, FCA
manufactures bulk commodity wagons, flat wagons, mill gondola wagons, intermodal wagons, and coil steel wagons. In the last five years, FCA added 31 new or redesigned products to their product portfolio.

<table>
<thead>
<tr>
<th>Breakdown of turnover by activities (2015)</th>
<th>New rolling stock, Rebuild and used freight wagon sales</th>
<th>Rolling stock after sales services, spare parts &amp; components</th>
<th>Wagon leasing</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turnover</td>
<td>98%</td>
<td>1%</td>
<td>1%</td>
<td>0%</td>
</tr>
</tbody>
</table>

The company’s operations are located in the United States and the main sales market is North America. In addition, FCA produces coal-carrying wagons for export to Latin America and has manufactured intermodal railcars for export to the Middle East. In North America, FCA is the leading manufacturer of freight wagons for coal transport, based on the number of wagons delivered.

**Product strategy**
Focus on freight wagons

FreightCar America designs and manufactures aluminium, steel and stainless steel bodied freight wagons along with hybrid (aluminium, steel, stainless steel) bodied wagons. FCA is specialised in manufacturing gondolas and open top hopper wagons for the transport of coal and other bulk commodities.

**Value creation**
Medium vertical integration

The manufacturing process includes the production of components, building sub-assemblies and applying specialty parts.

**New markets**
Co-operation

International expansion received a boost through a licensing arrangement with Brazilian manufacturer AmstedMaxion in which FCA’s technology is used to produce various types of freight wagons in Brazil.

**Corporate Structure**

**Facilities and co-operations**
Production takes place at three sites in the USA: Cherokee, Alabama; Danville, Illinois; Roanoke, Virginia. The company’s facility in Cherokee, Alabama delivered its first freight wagons during the fourth quarter of 2013 and can produce a wide range of non-coal freight wagons including intermodal wagons, non-intermodal flat wagons and various open-top hopper, covered hopper and gondola wagons. When fully operational, the site will have the capacity to build over 7,000 wagons per year.

Other than its freight wagon plants, FCA operates a processing facility with a large, in-stock inventory and a full line of high-quality forged cast, and manufactured freight wagon parts for all wagon types with either aluminium or steel bodies in Johnstown, USA.

**Sites of final assembly**

<table>
<thead>
<tr>
<th>Country</th>
<th>Site</th>
<th>Products</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>Danville, IL</td>
<td>FW</td>
<td>Production capacity: 7,500 FW p.a. Area: 28,675 sqm</td>
</tr>
<tr>
<td>USA</td>
<td>Roanoke, VA (Leased until 2024)</td>
<td>FW</td>
<td>Production capacity: 7,500 FW p.a. Area: 35,647 sqm</td>
</tr>
<tr>
<td>USA</td>
<td>Cherokee, AL (Leased until 2021)</td>
<td>FW</td>
<td>Production capacity: 7,000 FW p.a. Area: 66,200 sqm</td>
</tr>
</tbody>
</table>

**Product segments**
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FW</td>
<td>Open</td>
<td>~12% (NA) 3% (WW)</td>
<td>Third-largest freight wagon provider in North America. FCA is the most important manufacturer of wagons for coal transport in North America, but is also active in the production of flat wagons as well as gondolas for ore and aggregates. FCA’s primary customers are rail freight operators, financial institutions and shippers.</td>
</tr>
</tbody>
</table>

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2 Annex B: Fleet Overview for Regional and National Markets

South and Central America

Installed Base Freight Wagons by Country 2016 [units] South and Central America

Deliveries by Country 2012-2016 [units] Africa/Middle East

Age Distribution Freight Wagon Fleet [units] South and Central America

Market Shares Manufacturers 2012-2016 [units] South and Central America

Installed Base by Gauge 2016 [units] South and Central America

Deliveries by Wagon Type 2012-2016 [units] Africa/Middle East
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