

## Report Information

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# Rolling Stock Market Research Report - Global Forecast till 2032

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## Description:

### Rolling Stock Market Overview

The Rolling Stock Industry is projected to grow from USD 44.2 Billion in 2023 to USD 64.9 billion by 2032, exhibiting a compound annual growth rate (CAGR) of 4.90% during the forecast period (2023 - 2032). Rolling Stock Market Size was valued at USD 42.2 billion in 2022. Increasing passenger transportation to avoid traffic congestion and increasing demand for speedy metro trains are the key market drivers enhancing the market growth.

Rolling Stock Market Overview

**Source: Secondary Research, Primary Research, MRFR Database and Analyst Review**

### Rolling Stock Market Trends

- **Data analytics and advanced maintenance usage are fueling market growth**

Data analytics and sophisticated maintenance usage are driving the rolling stock market CAGR. The service sector is expected to be the most profitable for manufacturers. Remote monitoring, digital solutions, and big data analytics advancements have enabled traditional rolling stock OEMs to successfully adapt to their current business offers and provide targeted and scalable solutions. The growing use of big data analytics has enabled OEMs to take on more jobs in the service industry from owners and train operating corporations. As a result, OEMs can create profit from servicing and maintenance throughout the vehicle's lifecycle in addition to the sale of new vehicles.

Furthermore, end-user preferences for asset availability contribute to this advancement. The use of remote assistance and predictive maintenance solutions enables OEMs to provide expanded service models such as increased reliability in the committed provision of the available rolling stock fleet, which aids this advancement.

In addition, Alstom's HealthHub platform allows improved maintenance through decision-making assistance and effectively monitors fleet availability. As a result, OEMs are anticipated to profit from the service sector expansion, as rail operators lack the scale to build such solutions in-house.

For instance, the Canadian National Railway's USD 3.9 billion capital investment in Saskatchewan is enabling advances in locomotives and rail infrastructure, as well as promoting growth across all commodity divisions. As a result, these variables are anticipated to stimulate the rolling stock market revenue.

### Rolling Stock MarketSegment Insights

#### Rolling Stock Product Insights

The rolling stock market segmentation, based on product includes locomotive, rapid transit, and wagon. In 2022, the rapid transit category will dominate with a 32% share of the rolling stock market. As cities and towns grow in size, long-distance commuting becomes more common. As a result, government authorities are being compelled to initiate public transportation projects for rapid transit vehicles such as metros and passenger trains, resulting in greater investment in rapid transit rolling stock and infrastructure.

#### Rolling Stock Component Insights

The rolling stock market segmentation, based on components includes pantograph, axle, wheelset, traction motor, auxiliary power system, air conditioning system, passenger information system, position train control, brakes, gearboxes, train control systems. Pantograph had a significant market share. A pantograph is equipment that is put on the roof of an electric train to gather power via an overhead tension line. The wire tension causes it to raise or lower. Typically, a single wire is utilized, with the return current passing through the track. It is a common form of current collector. The electric transmission system for modern electric rail systems consists of an upper, weight-carrying wire (known as a catenary) from which a contact wire is strung. The pantograph is spring-loaded and pushes a contact shoe up against the underside of the contact wire to extract the power required to run the train.

### Rolling Stock Application Insights

The freight application and passenger application are the two divisions of the rolling stock market. 58% of the market share for the application type segment is accounted for by freight applications. Because of its capacity to move substantial quantities of goods both domestically and internationally, it is regarded as a crucial link in the supply chain and is frequently preferred over road transportation. Rail freights are helpful for transporting raw materials, large industrial equipment, and fossil fuels including coal, oil, and gas. The quality of freight services is improving with the development of tracking and security technology.

**Figure 1: Rolling Stock Market, by Application, 2022 & 2032 (USD billion)**  
**Rolling Stock Market, by Application, 2022 & 2032**

**Source: Secondary Research, Primary Research, MRFR Database and Analyst Review**

### Rolling Stock Locomotive Technology Insights

The rolling stock market is divided into four segments depending on locomotive technology: conventional locomotive, turbocharged locomotive, maglev, diesel locomotive, electric locomotive, and electro-diesel locomotive. As countries electrify their railways, diesel locomotives will have a market share of more than 62% in 2022. However, diesel trains will continue to be used in a variety of rolling stock fleets. Because of their ability to transport massive freight trains. Because of their higher torque engines, they are often used in industrial applications. However, as the world becomes more environmentally conscious, diesel train technology is developing toward the development of low-emission engines for diesel locomotives.

### Rolling Stock Regional Insights

By Region, the study provides the market insights into North America, Europe, Asia-Pacific and Rest of the World. During the forecast period, the North America region is expected to have the largest CAGR. This is partly because increased metro project development and expansion of electrified network train routes will give OEMs with additional opportunities to diversify their revenue streams and expand their presence.

Further, the major countries studied in the market report are The U.S., Canada, German, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

**Figure 2: Rolling Stock Market Share By Region 2022 (%)**  
**ROLLING STOCK MARKET SHARE BY REGION 2022**

**Source: Secondary Research, Primary Research, MRFR Database and Analyst Review**

Europe's rolling stock market accounts for the second-largest market share due to its high torque power and enhanced safety. Further, the German rolling stock market held the largest market share, and the UK rolling stock market was the fastest-growing market in the European region

The Asia-Pacific Rolling Stock Market Is expected to grow at the fastest CAGR from 2023 to 2032. This is due to increasing population in the region is invoking the adoption of passenger rails for commuting. Moreover, China's rolling stock market held the largest market share, and the Indian rolling stock market was the fastest-growing market in the Asia-Pacific region.

### Rolling Stock Key Market Players & Competitive Insights

Leading market players are investing heavily in R&D to expand their product lines, which will help the rolling stock market, grow even more. Market participants are also undertaking a variety of strategic activities to expand their footprint, with important market developments including new product launches, contractual agreements, mergers and acquisitions, higher investments, and collaboration with other organizations. To expand and survive in a more competitive and rising market climate, rolling stock industry must offer cost-effective items.

Manufacturing locally to minimize operational costs is one of the key business tactics used by manufacturers in the rolling stock industry to benefit clients and increase the market sector. In recent years, the rolling stock industry has offered some of the most significant advantages to medicine. Major players in the rolling stock market, including Caterpillar (US), CRRC Corporation Limited (China), Hitachi, Ltd. (Japan), HYUNDAI ROTEM COMPANY (South Korea), and others, are attempting to increase market demand by investing in R&D operations.

CRRC Zhuzhou Locomotive Co., Ltd. is a Chinese electric locomotive manufacturer. It is one of CRRC's subsidiaries. CSR Group Zhuzhou Electric Locomotive Co., Ltd. was spun out from the locomotive works; the locomotive works' original legal structure became an intermediary holding company for CSR Group solely. Following the founding of the listed business CSR Corporation Limited, the limited company "CSR Group Zhuzhou Electric Locomotive" joined the group's listed portion, but the intermediate holding company remained unlisted. CSR Zhuzhou Electric Locomotive Co., Ltd. was also given a new name. In May 2020, CRRC Zhuzhou Locomotive, a subsidiary of China Railway Rolling Stock Corporation (CRRC), acquired Vossloh Group- a locomotive manufacturer in Europe. This will help CRRC to expand its business in the European rail market.

Alstom is a French multinational rolling stock manufacturer that works in rail transport industries around the world. It is involved in passenger transportation, signaling, and locomotives, and it manufactures high-speed, suburban, regional, and urban trains, as well as trams. In 1928, the electric engineering section of Société Alsacienne de Constructions Mécaniques (Als) and Compagnie Française Thomson-Houston (thom) merged to form the firm and its name (originally spelled Alsthom). Constructions Électriques de France (1932), shipbuilder Chantiers de l'Atlantique (1976), and portions of ACEC (late 1980s) were later significant acquisitions. In February 2020, Alstom announced the signing of a Memorandum of Understanding (MOU) with Bombardier Inc. and the Caisse de dépôt et placement du Québec (CDPQ) for the acquisition of Bombardier Transportation. The cost of acquiring all of Bombardier Transportation's shares is estimated to be roughly EUR 6 billion.

#### **Key Companies in the rolling stock market include**

- Hitachi Ltd
- GE Transportation
- Electro-Motive Diesel (EMD)
- Kawasaki Heavy Industries Rolling Stock Company
- Construcciones Y Auxiliar de Ferrocarriles
- CRRC Corporation Limited
- Bombardier
- Alstom
- Transmashholding Stadler Rail AG
- Hyundai Rotem Company

#### **Rolling Stock Industry Developments**

**In January 2022**, MASU's, a prominent manufacturer of friction products for the rail and automotive industries, was bought by Wabtec Corporation. This acquisition will assist Wabtec Corporation in expanding its installed base and accelerating growth throughout its brake product portfolio.

**In May 2021**, France's national state-owned railway company, SNCF, and its partners, the Railenium Technology Research Institute, Thales, Spirops, Bosch, and Alstom, have begun testing an autonomous regional train prototype based on a customized Regio 2N regional train for France's rail network.

**In May 2019**, The Coradia iLint hydrogen German Public transportation system debuted the world's first passenger train powered and trained by hydrogen fuel cells, in addition to adequate sustainability. As a result, non-electrified songs might be consumed without interruption. This launch contributed to ensuring that the transport network's performance base was not jeopardized in any way.

#### **Rolling Stock Market Segmentation**

##### **Rolling Stock Product Outlook**

- Locomotive
- Rapid Transit
- Wagon

##### **Rolling Stock Component Outlook**

- Pantograph

- Axle
- Wheelset
- Traction Motor
- Auxiliary Power System
- Air Conditioning System
- Passenger Information System
- Position Train Control
- Brakes
- Gearboxes
- Train Control Systems

#### **Rolling Stock Application Outlook**

- Freight Application
- Passenger Application

#### **Rolling Stock Locomotive Technology Outlook**

- Conventional Locomotive
- Turbocharge Locomotive
- Maglev
- Diesel Locomotive
- Electric Locomotive
- Electro-diesel Locomotive

#### **Rolling Stock Regional Outlook**

- North America
  - US
  - Canada
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Spain
  - Rest of Europe
- Asia-Pacific
  - China

- Japan
- India
- Australia
- South Korea
- Australia
- Rest of Asia-Pacific

- Rest of the World

- Middle East
- Africa
- Latin America

## Table of Content:

Contents	
1 Rolling Stock: Market Overview	
1.1 Market Attractive Analysis	14
1.2 Global Rolling Stock Market, by Product	14
1.3 Global Rolling Stock Market, by Type	15
1.4 Global Rolling Stock Market, by Train Type	16
2 Market Introduction	
2.1 Definition	17
2.2 Scope of the Study	17
2.3 List of Assumptions	18
2.4 Market Structure	18
2.5 Key Buying Criteria	19
3 Market Insights	
4 Research Methodology	
4.1 Research Process	22
4.2 Primary Research	23
4.3 Secondary Research	24
4.4 Market Size Estimation	24
4.5 Forecast Model	25
5 Market Dynamics	
5.1 Introduction	26
5.2 Drivers	27
5.2.1 Demand for Energy-Efficient Transport Systems	27
5.2.2 Increasing Use of Rail Lines for Public Transport	28
5.2.3 Drivers Impact Analysis	28
5.3 Restraints	29
5.3.1 High Capital Investment	29
5.3.2 Restraints Impact Analysis	29
5.4 Opportunities	30
5.4.1 Increase in Industrial and Mining Activity	30
6 Market Factor Analysis	

6.1 Porter's Five Forces Model	31
6.1.1 Threat of New Entrants	31
6.1.2 Bargaining Power of Suppliers	32
6.1.3 Bargaining Power of Buyers	32
6.1.4 Threat of Substitutes	32
6.1.5 Rivalry	32
6.2 Supply Chain Analysis	33
6.2.1 Design and Development	33
6.2.2 Raw Material/Component Suppliers	33
6.2.3 Manufacturing	34
6.2.4 Supply and Distribution	34
6.2.5 End Users	34
6.3 Technology Trends	35
6.3.1 Digitalization in Railways	35
6.3.2 Battery-Powered Trains	35
6.4 Scope of Stainless Steel in Rolling Stock Industry	36
6.5 Patent Trends	38
7 Global Rolling Stock Market, by Type	
7.1 Overview	41
7.2 Diesel	41
7.3 Electric	41
8 Global Rolling Stock Market, by Product Type	
8.1 Overview	43
8.2 Wagon	43
8.3 Rapid Transit Vehicle	43
8.4 Locomotive	43
9 Global Rolling Stock Market, by Train Type	
9.1 Overview	45
9.2 Rail Freight	45
9.3 Passenger Rail	45
10 Global Rolling Stock Market, by Region	
10.1 Introduction	47
10.2 North America	49
10.2.1 US	51
10.2.2 Canada	53
10.2.3 Mexico	55
10.3 Europe	57
10.3.1 Germany	60
10.3.2 UK	62
10.3.3 France	64
10.3.4 Italy	66
10.3.5 Rest of Europe	68
10.4 Asia-Pacific	69
10.4.1 China	72
10.4.2 Japan	74
10.4.3 India	76
10.4.4 Rest of Asia-Pacific	78

10.5 Rest of the World	80
10.5.1 Middle East and Africa	82
10.5.2 South America	84
11 Competitive Landscape	
11.1 Competitive Overview	87
11.2 Competitive Benchmarking	88
11.3 Key Growth Analysis	88
11.4 Leading Players (in Terms of Number of Developments) in Global Rolling Stock Market	89
12 Company Profiles	
12.1 Siemens	90
12.1.1 Company Overview	90
12.1.2 Financial Overview	91
12.1.3 Products/Services Offered	91
12.1.4 Key Developments (2023–2032)	93
12.1.5 SWOT Analysis	93
12.1.6 Key Strategies	94
12.2 CRRC Corporation Limited (CRRC)	95
12.2.1 Company Overview	95
12.2.2 Financial Overview	95
12.2.3 Products/Services Offered	96
12.2.4 Key Developments (2023–2032)	96
12.2.5 SWOT Analysis	97
12.2.6 Key Strategies	97
12.3 Bombardier	98
12.3.1 Company Overview	98
12.3.2 Financial Overview	99
12.3.3 Products/Services Offered	99
12.3.4 Key Developments (2023–2032)	100
12.3.5 SWOT Analysis	101
12.3.6 Key Strategies	101
12.4 Alstom	102
12.4.1 Company Overview	102
12.4.2 Financial Overview	102
12.4.3 Products/Services Offered	103
12.4.4 Key Developments (2023–2032)	104
12.4.5 SWOT Analysis	105
12.4.6 Key Strategies	105
12.5 Hitachi, Ltd	106
12.5.1 Company Overview	106
12.5.2 Financial Overview	107
12.5.3 Products/Services Offered	107
12.5.4 Key Developments (2023–2032)	108
12.5.5 SWOT Analysis	108
12.5.6 Key Strategies	108
12.6 GE Transportation (General Electric)	109
12.6.1 Company Overview	109

12.6.2 Financial Overview	109
12.6.3 Products/Services Offered	110
12.6.4 Key Developments (2015–2019)	110
12.6.5 SWOT Analysis	111
12.6.6 Key Strategies	111
12.7 Hyundai Rotem Company	112
12.7.1 Company Overview	112
12.7.2 Financial Overview	112
12.7.3 Products/Services Offered	113
12.7.4 Key Developments (2023–2032)	115
12.7.5 SWOT Analysis	115
12.7.6 Key Strategies	115
12.8 Transmashholding	116
12.8.1 Company Overview	116
12.8.2 Financial Overview	116
12.8.3 Products/Services Offered	117
12.8.4 Key Developments (2023–2032)	118
12.8.5 SWOT Analysis	118
12.8.6 Key Strategies	118
12.9 Stadler Rail AG	119
12.9.1 Company Overview	119
12.9.2 Financial Overview	119
12.9.3 Products/Services Offered	120
12.9.4 Key Developments (2023–2032)	120
12.9.5 SWOT Analysis	121
12.9.6 Key Strategies	121
12.10 Kawasaki Heavy Industries Rolling Stock Company (Kawasaki Heavy Industries, Ltd)	122
12.10.1 Company Overview	122
12.10.2 Financial Overview	122
12.10.3 Products/Services Offered	123
12.10.4 Key Developments (2023–2032)	123
12.10.5 SWOT Analysis	124
12.10.6 Key Strategies	124
12.11 Construcciones y Auxiliar de Ferrocarriles, S.A (CAF)	125
12.11.1 Company Overview	125
12.11.2 Financial Overview	125
12.11.3 Products/Services Offered	126
12.11.4 Key Developments (2015–2019)	127
12.11.5 SWOT Analysis	127
12.11.6 Key Strategies	128
12.12 Electro-Motive Diesel (Caterpillar)	129
12.12.1 Company Overview	129
12.12.2 Financial Overview	129
12.12.3 Products/Services Offered	130
12.12.4 Key Developments (2015–2019)	130
12.12.5 SWOT Analysis	131
12.12.6 Key Strategies	131



## 13 Appendix

### 13.1 Related Reports 132

### 13.2 List of Abbreviation 132

## 14 List of Tables

### TABLE 1 LIST OF ASSUMPTIONS 18

### TABLE 2 STAINLESS-STEEL GRADES: WITH THEIR VARIOUS SPECIFICATIONS 36

### TABLE 3 SSSSMAJOR GRANTED PATENTS ON ROLLING STOCK (JANUARY 20, 2014 – JANUARY 20, 2019) 38

### TABLE 4 GLOBAL ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION) 42

### TABLE 5 GLOBAL ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION) 44

### TABLE 6 GLOBAL ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION) 46

### TABLE 7 GLOBAL ROLLING STOCK MARKET, BY REGION, 2023-2032 (USD MILLION) 48

### TABLE 8 NORTH AMERICA: ROLLING STOCK MARKET, BY COUNTRY, 2023-2032 (USD MILLION) 49

### TABLE 9 NORTH AMERICA: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION) 50

### TABLE 10 NORTH AMERICA: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION) 50

### TABLE 11 NORTH AMERICA: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION) 51

### TABLE 12 US: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION) 52

### TABLE 13 US: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION) 52

### TABLE 14 US: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION) 53

### TABLE 15 CANADA: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION) 54

### TABLE 16 CANADA: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION) 54

### TABLE 17 CANADA: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION) 55

### TABLE 18 MEXICO: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION) 56

### TABLE 19 MEXICO: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION) 56

### TABLE 20 MEXICO: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION) 57

### TABLE 21 EUROPE: ROLLING STOCK MARKET, BY COUNTRY, 2023-2032 (USD MILLION) 58

### TABLE 22 EUROPE: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION) 58

### TABLE 23 EUROPE: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION) 59

### TABLE 24 EUROPE: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION) 59

### TABLE 25 GERMANY: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION) 60

### TABLE 26 GERMANY: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION) 61

### TABLE 27 GERMANY: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION) 61

### TABLE 28 UK: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MSSSSSSSSSSILLION) 62

### TABLE 29 UK: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION) 63

### TABLE 30 UK: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION) 63

### TABLE 31 FRANCE: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION) 64

### TABLE 32 FRANCE: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION) 65

### TABLE 33 FRANCE: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION) 65

### TABLE 34 ITALY: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION) 66

### TABLE 35 ITALY: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION) 67

### TABLE 36 ITALY: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION) 67

### TABLE 37 REST OF EUROPE: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION) 68

### TABLE 38 REST OF EUROPE: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION) 68

### TABLE 39 REST OF EUROPE: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION) 69

### TABLE 40 ASIA-PACIFIC: ROLLING STOCK MARKET, 2023-2032 (USD MILLION) 70

### TABLE 41 ASIA-PACIFIC: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION) 71

### TABLE 42 ASIA-PACIFIC: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION) 71

TABLE 43 ASIA-PACIFIC: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION)	72
TABLE 44 CHINA: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION)	73
TABLE 45 CHINA: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION)	73
TABLE 46 CHINA: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION)	74
TABLE 47 JAPAN: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION)	74
TABLE 48 JAPAN: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION)	75
TABLE 49 JAPAN: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION)	75
TABLE 50 INDIA: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION)	76
TABLE 51 INDIA: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION)	77
TABLE 52 INDIA: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION)	77
TABLE 53 REST OF ASIA-PACIFIC: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION)	78
TABLE 54 REST OF ASIA-PACIFIC: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION)	79
TABLE 55 REST OF ASIA-PACIFIC: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION)	79
TABLE 56 REST OF THE WORLD: ROLLING STOCK MARKET, BY REGION, 2023-2032 (USD MILLION)	80
TABLE 57 REST OF THE WORLD: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION)	81
TABLE 58 REST OF THE WORLD: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION)	81
TABLE 59 REST OF THE WORLD: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION)	82
TABLE 60 MIDDLE EAST & AFRICA: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION)	83
TABLE 61 MIDDLE EAST & AFRICA: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION)	83
TABLE 62 MIDDLE EAST & AFRICA: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION)	84
TABLE 63 SOUTH AMERICA: ROLLING STOCK MARKET, BY TYPE, 2023-2032 (USD MILLION)	85
TABLE 64 SOUTH AMERICA: ROLLING STOCK MARKET, BY PRODUCT, 2023-2032 (USD MILLION)	85
TABLE 65 SOUTH AMERICA: ROLLING STOCK MARKET, BY TRAIN TYPE, 2023-2032 (USD MILLION)	86
TABLE 66 BENCHMARKING OF MAJOR COMPETITORS	88
TABLE 67 LIST OF ACTIVE PLAYERS IN THE GLOBAL ROLLING STOCK MARKET	89
TABLE 68 SIEMENS: PRODUCTS/SERVICES OFFERED	91
TABLE 69 SIEMENS: KEY DEVELOPMENTS	93
TABLE 70 CRRC CORPORATION LIMITED (CRRC): PRODUCTS/SERVICES OFFERED	96
TABLE 71 CRRC CORPORATION LIMITED (CRRC): KEY DEVELOPMENTS	96
TABLE 72 BOMBARDIER: PRODUCTS/SERVICES OFFERED	99
TABLE 73 BOMBARDIER: KEY DEVELOPMENTS	100
TABLE 74 ALSTOM: PRODUCTS/SERVICES OFFERED	103
TABLE 75 ALSTOM: KEY DEVELOPMENTS	104
TABLE 76 HITACHI, LTD: PRODUCTS/SERVICES OFFERED	107
TABLE 77 HITACHI, LTD: KEY DEVELOPMENTS	108
TABLE 78 GE TRANSPORTATION: PRODUCTS/SERVICES OFFERED	110
TABLE 79 GE TRANSPORTATION: KEY DEVELOPMENTS	110
TABLE 80 HYUNDAI ROTEM COMPANY: PRODUCTS/SERVICES OFFERED	113
TABLE 81 TRANSMASHHOLDING: PRODUCTS/SERVICES OFFERED	117
TABLE 82 TRANSMASHHOLDING: KEY DEVELOPMENTS	118
TABLE 83 STADLER RAIL AG: PRODUCTS/SERVICES OFFERED	120
TABLE 84 STADLER RAIL AG: KEY DEVELOPMENTS	120
TABLE 85 KAWASAKI HEAVY INDUSTRIES ROLLING STOCK COMPANY: PRODUCTS/SERVICES OFFERED	123
TABLE 86 KAWASAKI HEAVY INDUSTRIES ROLLING STOCK COMPANY: KEY DEVELOPMENTS	123
TABLE 87 CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES, S.A (CAF): PRODUCTS/SERVICES OFFERED	126
TABLE 88 CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES, S.A (CAF): KEY DEVELOPMENTS	127

TABLE 89 ELECTRO-MOTIVE DIESEL: PRODUCTS/SERVICES OFFERED 130

15 List of Figures

FIGURE 1 MARKET SYNOPSIS 13

FIGURE 2 GLOBAL ROLLING STOCK MARKET: MARKET ATTRACTIVENESS ANALYSIS 14

FIGURE 3 GLOBAL ROLLING STOCK MARKET ANALYSIS, BY PRODUCT 14

FIGURE 4 GLOBAL ROLLING STOCK MARKET ANALYSIS, BY TYPE 15

FIGURE 5 GLOBAL ROLLING STOCK MARKET ANALYSIS, BY TRAIN TYPE 16

FIGURE 6 GLOBAL ROLLING STOCK MARKET: MARKET STRUCTURE 18

FIGURE 7 KEY BUYING CRITERIA OF ROLLING STOCK 19

FIGURE 8 EUROPE: ROLLING STOCK MARKET SIZE AND MARKET SHARE, BY COUNTRY (2022 VS 2027) 20

FIGURE 9 ASIA-PACIFIC: ROLLING STOCK MARKET SIZE AND MARKET SHARE, BY COUNTRY (2022 VS 2027) 20

FIGURE 10 NORTH AMERICA: ROLLING STOCK MARKET SIZE AND MARKET SHARE, BY COUNTRY (2022 VS 2027) 21

FIGURE 11 ROW: ROLLING STOCK MARKET SIZE AND MARKET SHARE, BY COUNTRY (2022 VS 2027) 21

FIGURE 12 RESEARCH PROCESS OF MRFR 22

FIGURE 13 TOP-DOWN AND BOTTOM-UP APPROACH 25

FIGURE 14 DRO ANALYSIS OF THE GLOBAL ROLLING STOCK MARKET 26

FIGURE 15 DRIVERS IMPACT ANALYSIS: GLOBAL ROLLING STOCK MARKET 28

FIGURE 16 RESTRAINTS IMPACT ANALYSIS: GLOBAL ROLLING STOCK MARKET 29

FIGURE 17 GLOBAL ROLLING STOCK MARKET: PORTER'S FIVE FORCES ANALYSIS 31

FIGURE 18 SUPPLY CHAIN: GLOBAL ROLLING STOCK MARKET 33

FIGURE 19 GLOBAL ROLLING STOCK MARKET, BY TYPE, 2022 (% SHARE) 41

FIGURE 20 GLOBAL ROLLING STOCK MARKET, BY PRODUCT, 2022 (% SHARE) 44

FIGURE 21 GLOBAL ROLLING STOCK MARKET, BY TRAIN TYPE, 2022 (% SHARE) 45

FIGURE 22 GLOBAL ROLLING STOCK MARKET, BY REGION, 2022 (% SHARE) 47

FIGURE 23 NORTH AMERICA: ROLLING STOCK MARKET, BY COUNTRY, 2022 (% SHARE) 49

FIGURE 24 EUROPE: ROLLING STOCK MARKET, BY COUNTRY, 2022 (% SHARE) 57

FIGURE 25 ASIA-PACIFIC: ROLLING STOCK MARKET SHARE, 2022 (%VALUE SHARE) 70

FIGURE 26 REST OF THE WORLD: ROLLING STOCK MARKET, BY COUNTRY, 2022 (% SHARE) 80

FIGURE 27 KEY GROWTH ANALYSIS, 2022 88

FIGURE 28 SIEMENS: FINANCIAL SNAPSHOT, 2023-2032 91

FIGURE 29 SIEMENS: SWOT ANALYSIS 93

FIGURE 30 CRRC CORPORATION LIMITED (CRRC): FINANCIAL OVERVIEW SNAPSHOT, 2023-2032 (USD MILLION) 95

FIGURE 31 CRRC CORPORATION LIMITED (CRRC): SWOT ANALYSIS 97

FIGURE 32 BOMBARDIER: SALES REVENUE, 2023-2032 (USD MILLION) 99

FIGURE 33 BOMBARDIER: SWOT ANALYSIS 101

FIGURE 34 ALSTOM: SALES REVENUE, 2023-2032 (USD MILLION) 102

FIGURE 35 ALSTOM: SWOT ANALYSIS 105

FIGURE 36 HITACHI, LTD: SALES REVENUE, 2023-2032 (USD MILLION) 107

FIGURE 37 HITACHI, LTD: SWOT ANALYSIS 108

FIGURE 38 GENERAL ELECTRIC: FINANCIAL SNAPSHOT, 2023-2032 109

FIGURE 39 GE TRANSPORTATION: SWOT ANALYSIS 111

FIGURE 40 HYUNDAI ROTEM COMPANY: FINANCIAL OVERVIEW SNAPSHOT, 2023-2032 (USD MILLION) 112

FIGURE 41 HYUNDAI ROTEM COMPANY: SWOT ANALYSIS 115

FIGURE 42 TRANSMASHHOLDING: SALES REVENUE, 2023-2032 (USD MILLION) 116

FIGURE 43 TRANSMASHHOLDING: SWOT ANALYSIS 118

FIGURE 44 STADLER RAIL AG: SALES REVENUE, 2023-2032 (USD MILLION) 119

FIGURE 45 STADLER RAIL AG: SWOT ANALYSIS 121

FIGURE 46 KAWASAKI HEAVY INDUSTRIES, LTD: SALES REVENUE, 2023-2032 (USD MILLION) 122

FIGURE 47 KAWASAKI HEAVY INDUSTRIES, LTD: SWOT ANALYSIS 124

FIGURE 48 CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES, S.A (CAF): SALES REVENUE, 2023-2032 (USD MILLION) 125

FIGURE 49 CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES, S.A (CAF): SWOT ANALYSIS 127

FIGURE 50 CATERPILLAR: SALES REVENUE, 2023-2032 (USD MILLION) 129

FIGURE 51 ELECTRO-MOTIVE DIESEL: SWOT ANALYSIS 131