

Truck Axle Market Research Report Information by Type (Rigid Axles, Drive Steer Axles and Non-Drive Steer Axles), by Application (Light-Duty Trucks, Medium-Duty Trucks and Heavy-Duty Trucks), by Technology (Mechanical Axles, Electric Axles, Hybrid Axles, Air Suspension Axles, Independent Suspension Axles, Hotchkiss Drive Unit and Central Drive), and By Region (North America, Europe, Asia-Pacific, Middle East & Africa, and South America) -Market Forecast Till 2032

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Market Overview

The truck axle market was estimated at USD 1,544.65 million in 2022. The Truck Axle Market is expected to expand from USD 1,611.99 million in 2023 to USD 2,454.06 million by 2032, with a compound yearly growth rate (CAGR) of 4.78% during the forecast period (2023-2032). Advanced axle designs represent a significant possibility for the truck axle sector. Manufacturers can now develop axles that are more efficient, durable, and perform well because to technological advances. These designs consider load distribution, suspension systems, and axle geometry in order to improve the axle's overall functionality.

For example, manufacturers have created independent suspension systems that improve stability, control, and comfort. These modern suspension systems use cutting-edge technologies, such as air springs and electronic control modules, to react to changing road conditions and loads. These innovations improve driver comfort while also lowering the danger of cargo damage

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due to improved ride quality and vibration reduction.

Furthermore, technical advancements have resulted in the integration of smart elements into truck axles. Sensors and telematics systems are being used to monitor axle performance in real time, allowing for preventative maintenance and reduced downtime. These smart solutions provide useful information about axle conditions, allowing fleet managers to optimize maintenance schedules, reduce breaks, and increase overall operating efficiency.

Another area of technological possibility is the creation of electric and hybrid axles. As the automobile industry transitions to electrification, there is an increasing interest in electric or hybrid-powered trucks. Manufacturers are spending in research and development to create axles that can accommodate electric drivetrains, including as electric motors and battery systems. These developments not only help to cut emissions, but they also present prospects for increased efficiency and lower operating costs.

Market Segment insights

The Truck Axle Market is segmented by type, which comprises rigid axles, drive steer axles, and non-drive steer axles.

The market is classified into three categories: light-duty trucks, medium-duty vehicles, and heavy-duty trucks.

Mechanical axles, electric axles, hybrid axles, air suspension axles, independent suspension axles, Hotchkiss drive unit, and central drive are the technology-based market segmentation categories.

Regional insights

In terms of revenue, North America is the largest and most sophisticated market for truck axles. The Asia Pacific truck axle market has grown steadily in recent years, owing mostly to increased demand for commercial vehicles, expanding logistics and transportation sectors, and infrastructural development in emerging economies. The market is distinguished by the existence of both domestic and international axle manufacturers, fierce competition, and technological advances.

The United States boasts one of the world's largest truck markets, thanks to a strong logistics and transportation sector. The truck axle market in the United States is characterized by strong demand for both commercial and off-highway vehicles. E-commerce expansion, construction activity, and the demand for effective transportation infrastructure are all key market drivers. The United States also has strict pollution restrictions that limit the adoption of modern axle technology like lightweight materials and electronic axles. Dana Incorporated, Meritor, and American Axle & Manufacturing are among the top truck axle manufacturers in the United States.

The European truck axle market represents a considerable portion of the region's automotive sector. It is critical to the transportation and logistics industry, facilitating the transfer of commodities across major European countries.

Germany is a major market for truck axles in Europe. The country's strong manufacturing sector and excellent transportation infrastructure help to drive demand for truck axles. German truck manufacturers such as Daimler, MAN, and Iveco are major market players. The focus on fuel efficiency, lightweight materials, and modern technologies such as electric and hybrid axles is driving market expansion in Germany.

Major Players

Meritor, Inc., Dana Incorporated, ZF Friedrichshafen AG, American Axle & Manufacturing, Inc., SAF Holland SE, GNA Axles Limited, RABA Automotive Holding PLC, Hyundai Transys Co. Ltd., Guangdong Fuwa Engineering Group Co. Ltd., JOST Werke AG, and others are among the truck axle market's key players.

Table of Contents:

TABLE OF CONTENTS

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1 EXECUTIVE SUMMARY	14
1.1 GLOBAL TRUCK AXLE MARKET, BY TYPE	16
1.2 GLOBAL TRUCK AXLE MARKET, BY APPLICATION	17
1.3 GLOBAL TRUCK AXLE MARKET, BY TECHNOLOGY	18
1.4 GLOBAL TRUCK AXLE MARKET, BY REGION	19
2 MARKET INTRODUCTION	20
2.1 DEFINITION	20
2.2 SCOPE OF THE STUDY	20
2.3 MARKET STRUCTURE	21
2.4 KEY BUYING CRITERIA	21
3 RESEARCH METHODOLOGY	22
3.1 RESEARCH PROCESS	22
3.2 PRIMARY RESEARCH	23
3.3 SECONDARY RESEARCH	24
3.4 MARKET SIZE ESTIMATION	25
3.5 TOP DOWN & BOTTOM-UP APPROACH	25
3.6 FORECAST MODEL	26
3.7 LIST OF ASSUMPTIONS	27
4 MARKET DYNAMICS	28
4.1 INTRODUCTION	28
4.2 DRIVERS	29
4.2.1 EXPANSION OF E-COMMERCE AND LOGISTICS INDUSTRY	29
4.2.2 INFRASTRUCTURE DEVELOPMENT AND CONSTRUCTION ACTIVITIES	29
4.2.3 DRIVERS IMPACT ANALYSIS	30
4.3 RESTRAINTS	30
4.3.1 FLUCTUATING RAW MATERIAL PRICES	30
4.3.2 RESTRAINTS IMPACT ANALYSIS	31
4.4 OPPORTUNITIES	31
4.4.1 TECHNOLOGICAL ADVANCEMENTS AND INNOVATION	31
4.5 IMPACT OF COVID-19 ON GLOBAL ECONOMY	32
4.6 IMPACT OF COVID-19 ON THE GLOBAL TRUCK AXLE MARKET	32
4.7 SUPPLY CHAIN IMPACT	33
4.7.1 IMPACT ON MANUFACTURER/DEVELOPER	33
4.7.2 IMPACT ON COMPONENT/SERVICES SUPPLIER	33
4.7.3 IMPACT ON DISTRIBUTION/LOGISTICS	33
5 MARKET FACTOR ANALYSIS	34
5.1 SUPPLY/VALUE CHAIN ANALYSIS	34
5.1.1 RAW MATERIALS AND COMPONENTS SUPPLIERS	35
5.1.2 MANUFACTURING & ASSEMBLY	35
5.1.3 DISTRIBUTION & SALES	35
5.1.4 RETAILERS AND END-USERS	35
5.2 PORTER'S FIVE FORCES MODEL	36
5.2.1 THREAT OF NEW ENTRANTS	36
5.2.2 BARGAINING POWER OF SUPPLIERS	37
5.2.3 BARGAINING POWER OF BUYERS	37
5.2.4 THREAT OF SUBSTITUTES	37
5.2.5 INTENSITY OF RIVALRY	37

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6 GLOBAL TRUCK AXLE MARKET, BY TYPE	38
6.1 OVERVIEW	38
6.2 GLOBAL TRUCK AXLE MARKET SIZE, MARKET ESTIMATES & FORECAST BY TYPE, 2019-2032	39
6.2.1 GLOBAL TRUCK AXLE MARKET SIZE: MARKET ESTIMATES & FORECAST BY TYPE, 2019-2032	39
7 GLOBAL TRUCK AXLE MARKET, BY APPLICATION	40
7.1 OVERVIEW	40
7.2 GLOBAL TRUCK AXLE MARKET SIZE, MARKET ESTIMATES & FORECAST BY APPLICATION, 2019-2032	41
7.2.1 GLOBAL TRUCK AXLE MARKET SIZE: MARKET ESTIMATES & FORECAST BY APPLICATION, 2019-2032	41
8 GLOBAL TRUCK AXLE MARKET, BY TECHNOLOGY	42
8.1 OVERVIEW	42
8.2 GLOBAL TRUCK AXLE MARKET SIZE, MARKET ESTIMATES & FORECAST BY TECHNOLOGY, 2019-2032	44
8.2.1 GLOBAL TRUCK AXLE MARKET SIZE: MARKET ESTIMATES & FORECAST BY TECHNOLOGY, 2019-2032	44
9 GLOBAL TRUCK AXLE MARKET, BY REGION	45
9.1 OVERVIEW	45
9.2 NORTH AMERICA	47
9.2.1 U.S.	49
9.2.2 CANADA	50
9.2.3 MEXICO	51
9.3 EUROPE	52
9.3.1 GERMANY	55
9.3.2 FRANCE	56
9.3.3 UK	57
9.3.4 SPAIN	58
9.3.5 ITALY	59
9.3.6 REST OF EUROPE	60
9.4 ASIA PACIFIC	61
9.4.1 CHINA	64
9.4.2 INDIA	65
9.4.3 JAPAN	66
9.4.4 SOUTH KOREA	67
9.4.5 REST OF ASIA PACIFIC	68
9.5 MIDDLE EAST & AFRICA	69
9.5.1 SAUDI ARABIA	71
9.5.2 UAE	72
9.5.3 SOUTH AFRICA	73
9.5.4 REST OF MIDDLE EAST & AFRICA	74
9.6 SOUTH AMERICA	75
9.6.1 BRAZIL	77
9.6.2 ARGENTINA	78
9.6.3 REST OF SOUTH AMERICA	79
10 COMPETITIVE LANDSCAPE	80
10.1 COMPETITIVE OVERVIEW	80
10.2 COMPETITIVE BENCHMARKING	81
10.3 MAJOR PLAYERS IN THE GLOBAL TRUCK AXLE MARKET	82
10.4 LEADING PLAYERS IN TERMS OF THE NUMBER OF DEVELOPMENTS IN THE GLOBAL TRUCK AXLE MARKET	82
10.5 KEY DEVELOPMENTS & GROWTH STRATEGIES	83
10.5.1 PRODUCT LAUNCH/PRODUCT DEVELOPMENT	83

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10.5.2 ACQUISITION/PARTNERSHIP	83
11 COMPANY PROFILES	84
11.1 MERITOR, INC	84
11.1.1 COMPANY OVERVIEW	84
11.1.2 FINANCIAL OVERVIEW	85
11.1.3 PRODUCTS OFFERED	85
11.1.4 KEY DEVELOPMENTS	86
11.1.5 SWOT ANALYSIS	87
11.1.6 KEY STRATEGIES	87
11.2 DANA INCORPORATED	88
11.2.1 COMPANY OVERVIEW	88
11.2.2 FINANCIAL OVERVIEW	89
11.2.3 PRODUCTS OFFERED	90
11.2.4 KEY DEVELOPMENTS	90
11.2.5 SWOT ANALYSIS	91
11.2.6 KEY STRATEGIES	91
11.3 ZF FRIEDRICHSHAFEN AG	92
11.3.1 COMPANY OVERVIEW	92
11.3.2 FINANCIAL OVERVIEW	93
11.3.3 PRODUCTS OFFERED	94
11.3.4 KEY DEVELOPMENTS	94
11.3.5 SWOT ANALYSIS	95
11.3.6 KEY STRATEGIES	95
11.4 AMERICAN AXLE & MANUFACTURING, INC.	96
11.4.1 COMPANY OVERVIEW	96
11.4.2 FINANCIAL OVERVIEW	97
11.4.3 PRODUCTS/SERVICES OFFERED	98
11.4.4 KEY DEVELOPMENTS	98
11.4.5 SWOT ANALYSIS	99
11.4.6 KEY STRATEGIES	99
11.5 SAF HOLLAND SE	100
11.5.1 COMPANY OVERVIEW	100
11.5.2 FINANCIAL OVERVIEW	101
11.5.3 PRODUCTS/SERVICES OFFERED	102
11.5.4 KEY DEVELOPMENTS	102
11.5.5 SWOT ANALYSIS	103
11.5.6 KEY STRATEGIES	103
11.6 GNA AXLES LIMITED	104
11.6.1 COMPANY OVERVIEW	104
11.6.2 FINANCIAL OVERVIEW	104
11.6.3 PRODUCTS/SERVICES OFFERED	104
11.6.4 KEY DEVELOPMENTS	105
11.6.5 SWOT ANALYSIS	105
11.6.6 KEY STRATEGIES	105
11.7 RABA AUTOMOTIVE HOLDING PLC	106
11.7.1 COMPANY OVERVIEW	106
11.7.2 FINANCIAL OVERVIEW	106

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11.7.3 PRODUCTS/SERVICES OFFERED	107
11.7.4 KEY DEVELOPMENTS	107
11.7.5 SWOT ANALYSIS	108
11.7.6 KEY STRATEGIES	108
11.8 HYUNDAI TRANSYS CO. LTD.	109
11.8.1 COMPANY OVERVIEW	109
11.8.2 FINANCIAL OVERVIEW	109
11.8.3 PRODUCTS/SERVICES OFFERED	110
11.8.4 KEY DEVELOPMENTS	110
11.8.5 SWOT ANALYSIS	111
11.8.6 KEY STRATEGIES	111
11.9 GUANGDONG FUWA ENGINEERING GROUP CO. LTD.	112
11.9.1 COMPANY OVERVIEW	112
11.9.2 FINANCIAL OVERVIEW	112
11.9.3 PRODUCTS OFFERED	112
11.9.4 KEY DEVELOPMENTS	112
11.9.5 SWOT ANALYSIS	113
11.9.6 KEY STRATEGIES	113
11.10 JOST WERKE AG	114
11.10.1 COMPANY OVERVIEW	114
11.10.2 FINANCIAL OVERVIEW	114
11.10.3 PRODUCTS OFFERED	115
11.10.4 KEY DEVELOPMENTS	115
11.10.5 SWOT ANALYSIS	115
11.10.6 KEY STRATEGIES	115
12 APPENDIX	116
12.1 REFERENCES	116

Truck Axle Market Research Report Information by Type (Rigid Axles, Drive Steer Axles and Non-Drive Steer Axles), by Application (Light-Duty Trucks, Medium-Duty Trucks and Heavy-Duty Trucks), by Technology (Mechanical Axles, Electric Axles, Hybrid Axles, Air Suspension Axles, Independent Suspension Axles, Hotchkiss Drive Unit and Central Drive), and By Region (North America, Europe, Asia-Pacific, Middle East & Africa, and South America) -Market Forecast Till 2032

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