

# Automotive Axle & Propeller Shaft Market by Axle & Propeller Shaft Type (Dead axle, Live axle, and Tandem axle, Single Piece, Multi Piece, Slip in Tube), Vehicle Type (Two wheeler, Passenger Cars, Commercial Vehicle) - Global Opportunity Analysis and Industry Forecasts, 2016 - 2022

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## **Abstracts**

Automotive axle and propeller shafts are key components to generate momentum in vehicles by transferring torque from differential to wheels and engine to differential, respectively. Axles transfer the torque from differential to wheels or serve only as a support for vehicle loads while providing the mounting for wheel assembly. The functioning of the axle depends on the position and type of axle. Commercial vehicles, such as heavy trucks, medium duty trucks, and buses may integrate more than two live axles depending on the application and role of the vehicle, whereas most of the passenger cars are integrated with one live axle & one dead axle. Propeller shaft also known as drive shaft is used to transfer torque from the engine to the differential of the vehicle. Propeller shaft is integrated with the differential using one or more universal joints or jaw couplings. Propeller shafts are capable of transferring large amount of torque with minimum power loss as compared to belt and chain drive systems. Major players in the market are investing huge amount of capital in research & development to enhance their technical expertise, offer new & innovative products, and increase their product portfolio. For instance, in 2015 American Axle & Manufacturing, Inc, a leading manufacturer of axle & propeller shafts invested \$113.9 million in R&D to enhance their axle and propeller shaft product portfolio.

The demand for automotive axles and propeller shafts is governed by increase in production and sales of vehicles globally and increase in customer demand for quieter cabin & increased comfort in vehicles. In addition, reduction in maintenance cost of the



vehicle is another factor that drives the market. However, volatile price of raw material such as steel and alloy of carbon and aluminum used for manufacturing of axles and propellers slows down the market growth. Moreover, increase in demand of fuel efficient vehicle is expected to provide opportunity for the key players in this market to provide low cost and light weight products further increasing fuel efficiency of the vehicles. Increase in adoption of all wheel drive (AWD) vehicles mostly in North America and Europe has further spurred the demand for axles and propeller shafts.

The market is segmented on the basis of axle & propeller shaft type, vehicle type, and geography. Axle & propeller shaft type segment is further bifurcated into axle type (dead axle, live axle, and tandem axle) and propeller shaft type (single piece, multi piece, and slip in tube). Vehicle type segment is divided into two wheelers, passenger cars, and commercial vehicle. Geographically, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA. North America is divided into U.S., Canada, and Mexico, whereas Europe is classified into Germany, France, Italy, U.K., and Rest of Europe. Asia-Pacific is further segmented into China, Australia, Japan, India, and Rest of Asia-Pacific. Latin America, Middle East, and Africa are considered under LAMEA. The key players profiled in the report include American Axle & Manufacturing, Inc., ZF Friedrichshafen AG, Meritor, Inc., Dana Limited, SHOWA Corporation, IFA Rotorion, JTEKT Corporation, HYUNDAI DYMOS, GKN plc, Neapco Holdings LLC, CIE Automotive USA, Inc., Colfor Manufacturing, Inc., Dexter Axle Company, Fabco Automotive Corporation, NTK Precision Axle Corporation, Sypris Technologies, LLC, Westport Axle Corporation, and Magna International Inc.

#### **KEY BENEFITS**

The report includes an extensive analysis of the factors that drive as well as restrain the world automotive axle and propeller shaft market.

The market projections from 2014 to 2022 are included along with the affecting factors.

The report also provides quantitative as well as qualitative trends to assist the stakeholders understand the situations prevailing in the market.

An in-depth analysis of key segments demonstrates stakeholders with different types of axle and propeller shaft used in vehicles.

Competitive intelligence highlights the business practices followed by leading



market players across various geographies.

# MARKET SEGMENTATION BY AXLE & PROPELLER SHAFT TYPE

	Axle Type	
	Dead axle	
	Live axle	
	Tandem axle	
	Propeller shaft type	
	Single piece	
	Multi piece	
	Slip in tube	
BY VEHICLE TYPE		
	Two wheelers	
	Passenger cars	
	Commercial vehicle	
BY GEOGRAPHY		
	North America	

Canada

U.S.



	Mexico	
Europe		
	Germany	
	France	
	Italy	
	UK	
	Rest of Europe	
Asia-Pacific		
	China	
	Australia	
	Japan	
	India	
	Rest of Asia-Pacific	
LAMEA		
	Latin America	
	Middle East	
	Africa	



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FIGURE 70. COMPANY SNAPSHOT

FIGURE 71. COMPANY SNAPSHOT

FIGURE 72. COMPANY SNAPSHOT

FIGURE 73. COMPANY SNAPSHOT



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