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US Collection

Power Transmission Components: United States

September 2017

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About This Report

Scope & Method

This report forecasts US power transmission component demand and shipments in US dollars at the manufacturers' level to 2021. Total demand and shipments are segmented by product in terms of:

- motor vehicle transmissions and powertrain parts
- ball and roller bearings
- gears and gearboxes
- mechanical power transmission products.

Excluded from the scope of this report are flexure, fluid, and magnetic bearing products. Also excluded are related bearing hardware such as adaptor and withdrawal sleeves, locknuts and washers, lubricators, and retaining plates. In addition, certain types of power transmission components (eg, ball, swivel, and universal joints) for use in aerospace equipment are excluded from the scope of this report, although bearings for aerospace equipment are included in the bearings segment. Re-exports of power transmission components are excluded from demand and trade figures.

To illustrate historical trends, total demand, total shipments, the various segments, and trade are provided in annual series from 2006 to 2016.

This report quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2. The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the Table of Contents.

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Sources

Power Transmission Components: United States (FF70010) represents the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources including:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- national, regional, and international non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group.

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

Table 8 | Industry Codes Related to Power Transmission Components

NAICS/SCIAN 2007 North American Industry Classification System		SIC Standard Industry Codes	
332991	Ball and Roller Bearing Mfg	3562	Ball and Roller Bearings
333612	Speed Changer, Industrial High-Speed Drive, and Gear Mfg	3566	Speed Changers, Industrial High-Speed Drives, and Gears
333613	Mechanical Power Transmission Equipment Mfg	3568	Mechanical Power Transmission Equipment, NEC
336350	Motor Vehicle Transmission and Power Train Parts Mfg	3714	Motor Vehicle Parts and Accessories

Source: US Census Bureau

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Resources

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Freedonia Industry Studies

Global Bus Market, May 2017
Automotive Aftermarket for Powertrain Components in North America, March 2017
Synthetic Lubricants & Functional Fluids Market in the US, January 2017
World Motorcycles, October 2016
World Bearings, August 2016
Lubricants, April 2016
World Gears, October 2015

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Manufacturing: United States
Medium- & Heavy-Duty Trucks & Buses: United States
Motor Vehicles: United States
Transport Equipment: United States

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Trade Publications

Automotive Industries
Automotive News
Bearing News
Design News
Drives & Controls
Gear Solutions
Gear Technology
Machine Design
Power Transmission Engineering
Power Transmission World

Agencies & Associations

American Bearing Manufacturers Association
American Gear Manufacturers Association
American National Standards Institute
Bearing Specialists Association
Mechanical Power Transmission Association
SAE International

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About This Report

The International Organization for Standardization
United States Department of Commerce
  Bureau of Economic Analysis
  United States Census Bureau
United States International Trade Commission
World Bearing Association

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