

Global Transmission Solenoids Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Transmission Solenoids market size was valued at US\$ 6158 million in 2025 and is forecast to a readjusted size of US\$ 8218 million by 2032 with a CAGR of 4.2% during review period.

In 2025, global transmission solenoid production reached approximately 272 million units, supported by total capacity of around 320 million units. The average unit price was about USD 22, with the industry maintaining a gross margin of roughly 29%. Transmission solenoids are electromechanical actuators used inside automatic and dual-clutch vehicle transmissions to control hydraulic fluid flow, thereby regulating gear shifts, torque converter lockup, and line pressure. Controlled by the transmission control module (TCM), these solenoids convert electrical signals into precise linear or on-off valve movements that direct pressurized ATF (automatic transmission fluid) through the valve body to engage clutches and bands. The supply chain begins upstream with copper wire (for coils), electrical steel or soft magnetic alloys (for plungers and cores), stainless steel housings, precision springs, engineering plastics (connectors and bobbins), and elastomeric seals; midstream Tier-2 manufacturers produce wound coils, stamped magnetic components, and precision-machined valve parts; Tier-1 suppliers such as BorgWarner, Bosch, Denso, ZF, and Hitachi assemble and calibrate complete transmission solenoid modules integrated into valve bodies or mechatronic units; downstream, these systems are supplied to OEMs (Toyota, GM, Ford, VW, Hyundai, etc.) for factory installation in transmissions (AT, CVT, DCT), while the aftermarket distributes replacement solenoids via automotive parts channels. Increasing electrification and the shift toward hybrid transmissions are driving tighter integration between solenoids, sensors, and electronic control units, raising requirements for durability, response speed, and contamination resistance.

This report is a detailed and comprehensive analysis for global Transmission Solenoids market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Transmission Solenoids market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Transmission Solenoids market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Transmission Solenoids market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Transmission Solenoids market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Transmission Solenoids
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Transmission Solenoids market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BorgWarner, Robert Bosch, Denso, Continental, Hitachi Astemo, Aisin Seiki, Valeo, Mitsubishi Electric, ZF Friedrichshafen, Magneti Marelli, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Transmission Solenoids market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Binary Solenoids

Proportional Solenoids

Market segment by Transmission Type

Automatic Transmission (AT)

Continuously Variable Transmission (CVT)

Dual-Clutch Transmission (DCT)

Hybrid Transmission (e-CVT)

Market segment by Application

Passenger Vehicles

Light Commercial Vehicles

Heavy-Duty Trucks & Buses

Major players covered

BorgWarner

Robert Bosch

Denso

Continental

Hitachi Astemo

Aisin Seiki

Valeo

Mitsubishi Electric

ZF Friedrichshafen

Magneti Marelli

Nidec

Eaton

Keihin

Schaeffler

Mahle Group

Jatco

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Transmission Solenoids product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Transmission Solenoids, with price, sales quantity, revenue, and global market share of Transmission Solenoids from 2021 to 2026.

Chapter 3, the Transmission Solenoids competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Transmission Solenoids breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Transmission Solenoids market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Transmission Solenoids.

Chapter 14 and 15, to describe Transmission Solenoids sales channel, distributors,

customers, research findings and conclusion.

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