

Global Transmission Solenoids Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Transmission Solenoids market size is expected to reach \$ 8218 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

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 studies the global Transmission Solenoids production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Transmission Solenoids and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Transmission Solenoids that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Transmission Solenoids total production and demand, 2021-2032, (K Units)

Global Transmission Solenoids total production value, 2021-2032, (USD Million)

Global Transmission Solenoids production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Transmission Solenoids consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Transmission Solenoids domestic production, consumption, key domestic manufacturers and share

Global Transmission Solenoids production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Transmission Solenoids production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Transmission Solenoids production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Transmission Solenoids market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Transmission Solenoids market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Transmission Solenoids Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Transmission Solenoids Market, Segmentation by Type:

Binary Solenoids

Proportional Solenoids

Global Transmission Solenoids Market, Segmentation by Transmission Type:

Automatic Transmission (AT)

Continuously Variable Transmission (CVT)

Dual-Clutch Transmission (DCT)

Hybrid Transmission (e-CVT)

Global Transmission Solenoids Market, Segmentation by Application:

Passenger Vehicles

Light Commercial Vehicles

Heavy-Duty Trucks & Buses

Companies Profiled:

BorgWarner

Robert Bosch

Denso

Continental

Hitachi Astemo

Aisin Seiki

Valeo

Mitsubishi Electric

ZF Friedrichshafen

Magneti Marelli

Nidec

Eaton

Keihin

Schaeffler

Mahle Group

Jatco

Key Questions Answered:

1. How big is the global Transmission Solenoids market?
2. What is the demand of the global Transmission Solenoids market?
3. What is the year over year growth of the global Transmission Solenoids market?
4. What is the production and production value of the global Transmission Solenoids market?
5. Who are the key producers in the global Transmission Solenoids market?
6. What are the growth factors driving the market demand?

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