

# Global Pretensioner Gas Generator (PGG) Market Research Report 2026(Status and Outlook)

<https://marketpublishers.com/r/G02B104E120CEN.html>

Date: February 2026

Pages: 142

Price: US\$ 2,980.00 (Single User License)

ID: G02B104E120CEN

## Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Pretensioner Gas Generator (PGG) competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. A pretensioner gas generator (PGG) is a miniature pyrotechnic device installed within the seatbelt pretensioner. It ignites the main propellant using an igniter, instantly generating high-pressure gas that drives a piston or ball bearing mechanism to tighten the seatbelt. It is a core component of a one-time passive restraint system and a crucial energy source for triggering rapid seatbelt pretensioning during a car collision. Upstream suppliers include pyrotechnic agents and metal powders, ignition heads and bridge wires, electrical connectors, steel housings and stamped parts, seals, and testing equipment. Downstream suppliers include passive safety system providers and OEMs, covering seatbelt pretensioners, side airbags, curtain airbags, and other restraint systems, as well as passenger car, light commercial vehicle, and some bus platforms. In 2024, the global pretensioner gas generator (PGG) market had a unit price of \$4 per unit, with sales of approximately 260 million units and a global production capacity of 280-300 million units. The industry profit margin was 15-25%. Future Development Trends of the Global Market for Gas Pretensioner Generators (PGGs): Firstly, with the continuous upgrading of crash regulations and NCAP evaluation systems in various countries, and five-star safety becoming the mainstream goal, the overall demand for gas pretensioner generators will maintain steady growth. New vehicle installations and safety upgrades in existing vehicles will support the market size. Increased vehicle ownership in emerging markets and the gradual installation of pretensioners in low-cost models are driving PGGs from high-end to mid-to-low-end models. Secondly, the technological approach is evolving towards "safer, more environmentally friendly, and more controllable." Azide-free environmentally

friendly agents and low-toxicity, low-residue formulations are accelerating the replacement of traditional systems. Noise reduction, lower burst pressure, and improved occupant comfort are becoming important design directions. Simultaneously, the output curve of the PGG needs to be more precisely matched with the force limiter and seat structure to achieve phased force control and optimize overall restraint performance in conjunction with electric pretensioners and airbags. Finally, regarding the industry landscape, a few international safety giants and leading pyrotechnic companies still control core formulas and verification systems, resulting in a high degree of concentration. However, in regions like China, localization and certification systems are gradually improving, driving the rise of regional suppliers. In the future, PGG will invest more resources in platform development, globally consistent quality management, and compliance with environmental regulations such as REACH and RoHS, building new entry barriers around cost competitiveness and functional safety certification.

The global Pretensioner Gas Generator (PGG) market size was estimated at USD 1040.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.00% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Pretensioner Gas Generator (PGG) market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Pretensioner Gas Generator (PGG) market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Pretensioner Gas Generator (PGG) market.

## **Global Pretensioner Gas Generator (PGG) Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

Daicel Corporation  
Autoliv  
Nippon Kayaku  
Joyson Safety Systems  
ZF  
Shanxi Qinghua Vehicle Safety Systems

### **Market Segmentation (by Type)**

Single-Stage Output Type  
Multi-Stage Output Type

### **Market Segmentation (by Application)**

Passenger Vehicle  
Commercial Vehicle

### **Geographic Segmentation**

North America (USA, Canada, Mexico)  
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)  
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

### **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Pretensioner Gas Generator (PGG) Market

Overview of the regional outlook of the Pretensioner Gas Generator (PGG) Market:

### **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

### **Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Pretensioner Gas Generator (PGG) Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and

restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Pretensioner Gas Generator (PGG), their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change  
This enables you to anticipate market changes to remain ahead of your competitors  
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents  
The concise analysis, clear graph, and table format will enable you to pinpoint the

information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

### **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

- 1.1 Market Definition and Statistical Scope of Pretensioner Gas Generator (PGG)
- 1.2 Key Market Segments
  - 1.2.1 Pretensioner Gas Generator (PGG) Segment by Type
  - 1.2.2 Pretensioner Gas Generator (PGG) Segment by Application
- 1.3 Methodology & Sources of Information
  - 1.3.1 Research Methodology
  - 1.3.2 Research Process
  - 1.3.3 Market Breakdown and Data Triangulation
  - 1.3.4 Base Year
  - 1.3.5 Report Assumptions & Caveats
- 1.4 Key Data of Global Auto Market
  - 1.4.1 Global Automobile Production by Country
  - 1.4.2 Global Automobile Production by Type

### **2 PRETENSIONER GAS GENERATOR (PGG) MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global Pretensioner Gas Generator (PGG) Market Size (M USD) Estimates and Forecasts (2020-2035)
  - 2.1.2 Global Pretensioner Gas Generator (PGG) Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 PRETENSIONER GAS GENERATOR (PGG) MARKET COMPETITIVE LANDSCAPE**

- 3.1 Company Assessment Quadrant
- 3.2 Global Pretensioner Gas Generator (PGG) Product Life Cycle
- 3.3 Global Pretensioner Gas Generator (PGG) Sales by Manufacturers (2020-2025)
- 3.4 Global Pretensioner Gas Generator (PGG) Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Pretensioner Gas Generator (PGG) Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Pretensioner Gas Generator (PGG) Average Price by Manufacturers



(2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Pretensioner Gas Generator (PGG) Market Competitive Situation and Trends

3.8.1 Pretensioner Gas Generator (PGG) Market Concentration Rate

3.8.2 Global 5 and 10 Largest Pretensioner Gas Generator (PGG) Players Market

Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

## **4 PRETENSIONER GAS GENERATOR (PGG) INDUSTRY CHAIN ANALYSIS**

4.1 Pretensioner Gas Generator (PGG) Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF PRETENSIONER GAS GENERATOR (PGG) MARKET**

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Pretensioner Gas Generator (PGG) Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Pretensioner Gas Generator (PGG)

Market

5.7 ESG Ratings of Leading Companies

## **6 PRETENSIONER GAS GENERATOR (PGG) MARKET SEGMENTATION BY TYPE**



- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Pretensioner Gas Generator (PGG) Sales Market Share by Type (2020-2025)
- 6.3 Global Pretensioner Gas Generator (PGG) Market Size by Type (2020-2025)
- 6.4 Global Pretensioner Gas Generator (PGG) Price by Type (2020-2025)

## **7 PRETENSIONER GAS GENERATOR (PGG) MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Pretensioner Gas Generator (PGG) Market Sales by Application (2020-2025)
- 7.3 Global Pretensioner Gas Generator (PGG) Market Size (M USD) by Application (2020-2025)
- 7.4 Global Pretensioner Gas Generator (PGG) Sales Growth Rate by Application (2020-2025)

## **8 PRETENSIONER GAS GENERATOR (PGG) MARKET SALES BY REGION**

- 8.1 Global Pretensioner Gas Generator (PGG) Sales by Region
  - 8.1.1 Global Pretensioner Gas Generator (PGG) Sales by Region
  - 8.1.2 Global Pretensioner Gas Generator (PGG) Sales Market Share by Region
- 8.2 Global Pretensioner Gas Generator (PGG) Market Size by Region
  - 8.2.1 Global Pretensioner Gas Generator (PGG) Market Size by Region
  - 8.2.2 Global Pretensioner Gas Generator (PGG) Market Size by Region
- 8.3 North America
  - 8.3.1 North America Pretensioner Gas Generator (PGG) Sales by Country
  - 8.3.2 North America Pretensioner Gas Generator (PGG) Market Size by Country
  - 8.3.3 U.S. Market Overview
  - 8.3.4 Canada Market Overview
  - 8.3.5 Mexico Market Overview
- 8.4 Europe
  - 8.4.1 Europe Pretensioner Gas Generator (PGG) Sales by Country
  - 8.4.2 Europe Pretensioner Gas Generator (PGG) Market Size by Country
  - 8.4.3 Germany Market Overview
  - 8.4.4 France Market Overview
  - 8.4.5 U.K. Market Overview
  - 8.4.6 Italy Market Overview
  - 8.4.7 Spain Market Overview

## 8.5 Asia Pacific

- 8.5.1 Asia Pacific Pretensioner Gas Generator (PGG) Sales by Region
- 8.5.2 Asia Pacific Pretensioner Gas Generator (PGG) Market Size by Region
- 8.5.3 China Market Overview
- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview

## 8.6 South America

- 8.6.1 South America Pretensioner Gas Generator (PGG) Sales by Country
- 8.6.2 South America Pretensioner Gas Generator (PGG) Market Size by Country
- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview

## 8.7 Middle East and Africa

- 8.7.1 Middle East and Africa Pretensioner Gas Generator (PGG) Sales by Region
- 8.7.2 Middle East and Africa Pretensioner Gas Generator (PGG) Market Size by Region
- 8.7.3 Saudi Arabia Market Overview
- 8.7.4 UAE Market Overview
- 8.7.5 Egypt Market Overview
- 8.7.6 Nigeria Market Overview
- 8.7.7 South Africa Market Overview

# 9 PRETENSIONER GAS GENERATOR (PGG) MARKET PRODUCTION BY REGION

## 9.1 Global Production of Pretensioner Gas Generator (PGG) by Region(2020-2025)

## 9.2 Global Pretensioner Gas Generator (PGG) Revenue Market Share by Region (2020-2025)

## 9.3 Global Pretensioner Gas Generator (PGG) Production, Revenue, Price and Gross Margin (2020-2025)

## 9.4 North America Pretensioner Gas Generator (PGG) Production

### 9.4.1 North America Pretensioner Gas Generator (PGG) Production Growth Rate (2020-2025)

### 9.4.2 North America Pretensioner Gas Generator (PGG) Production, Revenue, Price and Gross Margin (2020-2025)

## 9.5 Europe Pretensioner Gas Generator (PGG) Production

### 9.5.1 Europe Pretensioner Gas Generator (PGG) Production Growth Rate (2020-2025)

### 9.5.2 Europe Pretensioner Gas Generator (PGG) Production, Revenue, Price and

Gross Margin (2020-2025)

9.6 Japan Pretensioner Gas Generator (PGG) Production (2020-2025)

9.6.1 Japan Pretensioner Gas Generator (PGG) Production Growth Rate (2020-2025)

9.6.2 Japan Pretensioner Gas Generator (PGG) Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Pretensioner Gas Generator (PGG) Production (2020-2025)

9.7.1 China Pretensioner Gas Generator (PGG) Production Growth Rate (2020-2025)

9.7.2 China Pretensioner Gas Generator (PGG) Production, Revenue, Price and Gross Margin (2020-2025)

## **10 KEY COMPANIES PROFILE**

10.1 Daicel Corporation

10.1.1 Daicel Corporation Basic Information

10.1.2 Daicel Corporation Pretensioner Gas Generator (PGG) Product Overview

10.1.3 Daicel Corporation Pretensioner Gas Generator (PGG) Product Market Performance

10.1.4 Daicel Corporation Business Overview

10.1.5 Daicel Corporation SWOT Analysis

10.1.6 Daicel Corporation Recent Developments

10.2 Autoliv

10.2.1 Autoliv Basic Information

10.2.2 Autoliv Pretensioner Gas Generator (PGG) Product Overview

10.2.3 Autoliv Pretensioner Gas Generator (PGG) Product Market Performance

10.2.4 Autoliv Business Overview

10.2.5 Autoliv SWOT Analysis

10.2.6 Autoliv Recent Developments

10.3 Nippon Kayaku

10.3.1 Nippon Kayaku Basic Information

10.3.2 Nippon Kayaku Pretensioner Gas Generator (PGG) Product Overview

10.3.3 Nippon Kayaku Pretensioner Gas Generator (PGG) Product Market Performance

10.3.4 Nippon Kayaku Business Overview

10.3.5 Nippon Kayaku SWOT Analysis

10.3.6 Nippon Kayaku Recent Developments

10.4 Joyson Safety Systems

10.4.1 Joyson Safety Systems Basic Information

10.4.2 Joyson Safety Systems Pretensioner Gas Generator (PGG) Product Overview

10.4.3 Joyson Safety Systems Pretensioner Gas Generator (PGG) Product Market

## Performance

- 10.4.4 Joyson Safety Systems Business Overview
- 10.4.5 Joyson Safety Systems Recent Developments

## 10.5 ZF

- 10.5.1 ZF Basic Information
- 10.5.2 ZF Pretensioner Gas Generator (PGG) Product Overview
- 10.5.3 ZF Pretensioner Gas Generator (PGG) Product Market Performance
- 10.5.4 ZF Business Overview
- 10.5.5 ZF Recent Developments

## 10.6 Shanxi Qinghua Vehicle Safety Systems

- 10.6.1 Shanxi Qinghua Vehicle Safety Systems Basic Information
- 10.6.2 Shanxi Qinghua Vehicle Safety Systems Pretensioner Gas Generator (PGG)

### Product Overview

- 10.6.3 Shanxi Qinghua Vehicle Safety Systems Pretensioner Gas Generator (PGG)

### Product Market Performance

- 10.6.4 Shanxi Qinghua Vehicle Safety Systems Business Overview
- 10.6.5 Shanxi Qinghua Vehicle Safety Systems Recent Developments

## **11 PRETENSIONER GAS GENERATOR (PGG) MARKET FORECAST BY REGION**

### 11.1 Global Pretensioner Gas Generator (PGG) Market Size Forecast

### 11.2 Global Pretensioner Gas Generator (PGG) Market Forecast by Region

- 11.2.1 North America Market Size Forecast by Country
- 11.2.2 Europe Pretensioner Gas Generator (PGG) Market Size Forecast by Country
- 11.2.3 Asia Pacific Pretensioner Gas Generator (PGG) Market Size Forecast by

### Region

### 11.2.4 South America Pretensioner Gas Generator (PGG) Market Size Forecast by Country

### 11.2.5 Middle East and Africa Forecasted Sales of Pretensioner Gas Generator (PGG) by Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)**

### 12.1 Global Pretensioner Gas Generator (PGG) Market Forecast by Type (2026-2035)

#### 12.1.1 Global Forecasted Sales of Pretensioner Gas Generator (PGG) by Type (2026-2035)

#### 12.1.2 Global Pretensioner Gas Generator (PGG) Market Size Forecast by Type (2026-2035)

#### 12.1.3 Global Forecasted Price of Pretensioner Gas Generator (PGG) by Type

(2026-2035)

12.2 Global Pretensioner Gas Generator (PGG) Market Forecast by Application

(2026-2035)

12.2.1 Global Pretensioner Gas Generator (PGG) Sales (K Units) Forecast by Application

12.2.2 Global Pretensioner Gas Generator (PGG) Market Size (M USD) Forecast by Application (2026-2035)

## **13 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Automobile Production by Region (Units)

Table 4. Market Share and Development Potential of Automobiles by Region

Table 5. Global Automobile Production by Country (Units)

Table 6. Market Share and Development Potential of Automobiles by Country

Table 7. Motor Vehicle Production Market Share by Type (2024)

Table 8. Global Automobile Production by Type

Table 9. Market Share and Development Potential of Automobiles by Type

Table 10. Global Pretensioner Gas Generator (PGG) Market Size by Type (M USD)

Table 11. Global Pretensioner Gas Generator (PGG) Market Size by Application

Table 12. Pretensioner Gas Generator (PGG) Market Size Comparison by Region (M USD)

Table 13. Global Pretensioner Gas Generator (PGG) Sales (K Units) by Manufacturers (2020-2025)

Table 14. Global Pretensioner Gas Generator (PGG) Sales Market Share by Manufacturers (2020-2025)

Table 15. Global Pretensioner Gas Generator (PGG) Revenue (M USD) by Manufacturers (2020-2025)

Table 16. Global Pretensioner Gas Generator (PGG) Revenue Share by Manufacturers (2020-2025)

Table 17. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Pretensioner Gas Generator (PGG) as of 2025)

Table 18. Global Market Pretensioner Gas Generator (PGG) Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 19. Manufacturers? Manufacturing Sites, Areas Served

Table 20. Manufacturers? Product Type

Table 21. Global Pretensioner Gas Generator (PGG) Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 22. Mergers & Acquisitions, Expansion Plans

Table 23. Market Overview of Key Raw Materials

Table 24. Midstream Market Analysis

Table 25. Downstream Customer Analysis

Table 26. Key Development Trends

Table 27. Driving Factors

|                                                                                                    |
|----------------------------------------------------------------------------------------------------|
| Table 28. Pretensioner Gas Generator (PGG) Market Challenges                                       |
| Table 29. Goldman Sachs' forecast real GDP growth rate for 2025-2026                               |
| Table 30. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027                                 |
| Table 31. World Bank ' Forecast Real GDP Growth Rate For 2025-2026                                 |
| Table 32. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries       |
| Table 33. Global Pretensioner Gas Generator (PGG) Sales by Type (K Units)                          |
| Table 34. Global Pretensioner Gas Generator (PGG) Market Size by Type (M USD)                      |
| Table 35. Global Pretensioner Gas Generator (PGG) Sales (K Units) by Type (2020-2025)              |
| Table 36. Global Pretensioner Gas Generator (PGG) Sales Market Share by Type (2020-2025)           |
| Table 37. Global Pretensioner Gas Generator (PGG) Market Size (M USD) by Type (2020-2025)          |
| Table 38. Global Pretensioner Gas Generator (PGG) Market Share by Type (2020-2025)                 |
| Table 39. Global Pretensioner Gas Generator (PGG) Price (USD/Unit) by Type (2020-2025)             |
| Table 40. Global Pretensioner Gas Generator (PGG) Sales (K Units) by Application                   |
| Table 41. Global Pretensioner Gas Generator (PGG) Market Size by Application                       |
| Table 42. Global Pretensioner Gas Generator (PGG) Sales by Application (2020-2025) & (K Units)     |
| Table 43. Global Pretensioner Gas Generator (PGG) Sales Market Share by Application (2020-2025)    |
| Table 44. Global Pretensioner Gas Generator (PGG) Market Size by Application (2020-2025) & (M USD) |
| Table 45. Global Pretensioner Gas Generator (PGG) Market Share by Application (2020-2025)          |
| Table 46. Global Pretensioner Gas Generator (PGG) Sales Growth Rate by Application (2020-2025)     |
| Table 47. Global Pretensioner Gas Generator (PGG) Sales by Region (2020-2025) & (K Units)          |
| Table 48. Global Pretensioner Gas Generator (PGG) Sales Market Share by Region (2020-2025)         |
| Table 49. Global Pretensioner Gas Generator (PGG) Market Size by Region (2020-2025) & (M USD)      |
| Table 50. Global Pretensioner Gas Generator (PGG) Market Size by Region (2020-2025)                |
| Table 51. North America Pretensioner Gas Generator (PGG) Sales by Country                          |



(2020-2025) & (K Units)

Table 52. North America Pretensioner Gas Generator (PGG) Market Size by Country (2020-2025) & (M USD)

Table 53. Europe Pretensioner Gas Generator (PGG) Sales by Country (2020-2025) & (K Units)

Table 54. Europe Pretensioner Gas Generator (PGG) Market Size by Country (2020-2025) & (M USD)

Table 55. Asia Pacific Pretensioner Gas Generator (PGG) Sales by Region (2020-2025) & (K Units)

Table 56. Asia Pacific Pretensioner Gas Generator (PGG) Market Size by Region (2020-2025) & (M USD)

Table 57. South America Pretensioner Gas Generator (PGG) Sales by Country (2020-2025) & (K Units)

Table 58. South America Pretensioner Gas Generator (PGG) Market Size by Country (2020-2025) & (M USD)

Table 59. Middle East and Africa Pretensioner Gas Generator (PGG) Sales by Region (2020-2025) & (K Units)

Table 60. Middle East and Africa Pretensioner Gas Generator (PGG) Market Size by Region (2020-2025) & (M USD)

Table 61. Global Pretensioner Gas Generator (PGG) Production (K Units) by Region(2020-2025)

Table 62. Global Pretensioner Gas Generator (PGG) Revenue (US\$ Million) by Region (2020-2025)

Table 63. Global Pretensioner Gas Generator (PGG) Revenue Market Share by Region (2020-2025)

Table 64. Global Pretensioner Gas Generator (PGG) Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. North America Pretensioner Gas Generator (PGG) Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 66. Europe Pretensioner Gas Generator (PGG) Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 67. Japan Pretensioner Gas Generator (PGG) Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 68. China Pretensioner Gas Generator (PGG) Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 69. Daicel Corporation Basic Information

Table 70. Daicel Corporation Pretensioner Gas Generator (PGG) Product Overview

Table 71. Daicel Corporation Pretensioner Gas Generator (PGG) Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

|                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Table 72. Daicel Corporation Business Overview                                                                                                                   |
| Table 73. Daicel Corporation SWOT Analysis                                                                                                                       |
| Table 74. Daicel Corporation Recent Developments                                                                                                                 |
| Table 75. Autoliv Basic Information                                                                                                                              |
| Table 76. Autoliv Pretensioner Gas Generator (PGG) Product Overview                                                                                              |
| Table 77. Autoliv Pretensioner Gas Generator (PGG) Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)                               |
| Table 78. Autoliv Business Overview                                                                                                                              |
| Table 79. Autoliv SWOT Analysis                                                                                                                                  |
| Table 80. Autoliv Recent Developments                                                                                                                            |
| Table 81. Nippon Kayaku Basic Information                                                                                                                        |
| Table 82. Nippon Kayaku Pretensioner Gas Generator (PGG) Product Overview                                                                                        |
| Table 83. Nippon Kayaku Pretensioner Gas Generator (PGG) Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)                         |
| Table 84. Nippon Kayaku Business Overview                                                                                                                        |
| Table 85. Nippon Kayaku SWOT Analysis                                                                                                                            |
| Table 86. Nippon Kayaku Recent Developments                                                                                                                      |
| Table 87. Joyson Safety Systems Basic Information                                                                                                                |
| Table 88. Joyson Safety Systems Pretensioner Gas Generator (PGG) Product Overview                                                                                |
| Table 89. Joyson Safety Systems Pretensioner Gas Generator (PGG) Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)                 |
| Table 90. Joyson Safety Systems Business Overview                                                                                                                |
| Table 91. Joyson Safety Systems Recent Developments                                                                                                              |
| Table 92. ZF Basic Information                                                                                                                                   |
| Table 93. ZF Pretensioner Gas Generator (PGG) Product Overview                                                                                                   |
| Table 94. ZF Pretensioner Gas Generator (PGG) Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)                                    |
| Table 95. ZF Business Overview                                                                                                                                   |
| Table 96. ZF Recent Developments                                                                                                                                 |
| Table 97. Shanxi Qinghua Vehicle Safety Systems Basic Information                                                                                                |
| Table 98. Shanxi Qinghua Vehicle Safety Systems Pretensioner Gas Generator (PGG) Product Overview                                                                |
| Table 99. Shanxi Qinghua Vehicle Safety Systems Pretensioner Gas Generator (PGG) Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025) |
| Table 100. Shanxi Qinghua Vehicle Safety Systems Business Overview                                                                                               |
| Table 101. Shanxi Qinghua Vehicle Safety Systems Recent Developments                                                                                             |
| Table 102. Global Pretensioner Gas Generator (PGG) Sales Forecast by Region (2026-2035) & (K Units)                                                              |

Table 103. Global Pretensioner Gas Generator (PGG) Market Size Forecast by Region (2026-2035) & (M USD)

Table 104. North America Pretensioner Gas Generator (PGG) Sales Forecast by Country (2026-2035) & (K Units)

Table 105. North America Pretensioner Gas Generator (PGG) Market Size Forecast by Country (2026-2035) & (M USD)

Table 106. Europe Pretensioner Gas Generator (PGG) Sales Forecast by Country (2026-2035) & (K Units)

Table 107. Europe Pretensioner Gas Generator (PGG) Market Size Forecast by Country (2026-2035) & (M USD)

Table 108. Asia Pacific Pretensioner Gas Generator (PGG) Sales Forecast by Region (2026-2035) & (K Units)

Table 109. Asia Pacific Pretensioner Gas Generator (PGG) Market Size Forecast by Region (2026-2035) & (M USD)

Table 110. South America Pretensioner Gas Generator (PGG) Sales Forecast by Country (2026-2035) & (K Units)

Table 111. South America Pretensioner Gas Generator (PGG) Market Size Forecast by Country (2026-2035) & (M USD)

Table 112. Middle East and Africa Pretensioner Gas Generator (PGG) Sales Forecast by Country (2026-2035) & (Units)

Table 113. Middle East and Africa Pretensioner Gas Generator (PGG) Market Size Forecast by Country (2026-2035) & (M USD)

Table 114. Global Pretensioner Gas Generator (PGG) Sales Forecast by Type (2026-2035) & (K Units)

Table 115. Global Pretensioner Gas Generator (PGG) Market Size Forecast by Type (2026-2035) & (M USD)

Table 116. Global Pretensioner Gas Generator (PGG) Price Forecast by Type (2026-2035) & (USD/Unit)

Table 117. Global Pretensioner Gas Generator (PGG) Sales (K Units) Forecast by Application (2026-2035)

Table 118. Global Pretensioner Gas Generator (PGG) Market Size Forecast by Application (2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of Pretensioner Gas Generator (PGG)
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Motor Vehicle Production (M Units)
- Figure 5. Global Pretensioner Gas Generator (PGG) Market Size (M USD), 2025-2035
- Figure 6. Global Pretensioner Gas Generator (PGG) Market Size (M USD) (2020-2035)
- Figure 7. Global Pretensioner Gas Generator (PGG) Sales (K Units) & (2020-2035)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 9. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 10. Evaluation Matrix of Regional Market Development Potential
- Figure 11. Pretensioner Gas Generator (PGG) Market Size by Country (M USD)
- Figure 12. Company Assessment Quadrant
- Figure 13. Global Pretensioner Gas Generator (PGG) Product Life Cycle
- Figure 14. Pretensioner Gas Generator (PGG) Sales Share by Manufacturers in 2025
- Figure 15. Global Pretensioner Gas Generator (PGG) Revenue Share by Manufacturers in 2025
- Figure 16. Pretensioner Gas Generator (PGG) Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 17. Global Market Pretensioner Gas Generator (PGG) Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 18. The Global 5 and 10 Largest Players: Market Share by Pretensioner Gas Generator (PGG) Revenue in 2025
- Figure 19. Industry Chain Map of Pretensioner Gas Generator (PGG)
- Figure 20. Global Pretensioner Gas Generator (PGG) Market PEST Analysis
- Figure 21. Global Pretensioner Gas Generator (PGG) Market Porter's Five Forces Analysis
- Figure 22. Global Merchandise Trade as a Percentage Of GDP
- Figure 23. US - Imports of Goods by Country
- Figure 24. China Exports by Country
- Figure 25. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 26. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 27. Global Pretensioner Gas Generator (PGG) Market Share by Type
- Figure 28. Sales Market Share of Pretensioner Gas Generator (PGG) by Type (2020-2025)
- Figure 29. Sales Market Share of Pretensioner Gas Generator (PGG) by Type in 2025

Figure 30. Market Share of Pretensioner Gas Generator (PGG) by Type (2020-2025)

Figure 31. Market Share of Pretensioner Gas Generator (PGG) by Type in 2025

Figure 32. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 33. Global Pretensioner Gas Generator (PGG) Market Share by Application

Figure 34. Global Pretensioner Gas Generator (PGG) Sales Market Share by Application (2020-2025)

Figure 35. Global Pretensioner Gas Generator (PGG) Sales Market Share by Application in 2025

Figure 36. Global Pretensioner Gas Generator (PGG) Market Share by Application (2020-2025)

Figure 37. Global Pretensioner Gas Generator (PGG) Market Share by Application in 2025

Figure 38. Global Pretensioner Gas Generator (PGG) Sales Growth Rate by Application (2020-2025)

Figure 39. Global Pretensioner Gas Generator (PGG) Sales Market Share by Region (2020-2025)

Figure 40. Global Pretensioner Gas Generator (PGG) Market Size by Region (2020-2025)

Figure 41. North America Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 43. North America Pretensioner Gas Generator (PGG) Sales Market Share by Country in 2024

Figure 44. North America Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 45. North America Pretensioner Gas Generator (PGG) Market Size by Country in 2024

Figure 46. U.S. Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 47. U.S. Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 48. Canada Pretensioner Gas Generator (PGG) Sales (K Units) and Growth Rate (2020-2025)

Figure 49. Canada Pretensioner Gas Generator (PGG) Market Size (M USD) and Growth Rate (2020-2025)

Figure 50. Mexico Pretensioner Gas Generator (PGG) Sales (Units) and Growth Rate (2020-2025)

Figure 51. Mexico Pretensioner Gas Generator (PGG) Market Size (Units) and Growth

Rate (2020-2025)

Figure 52. Europe Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 53. Europe Pretensioner Gas Generator (PGG) Sales Market Share by Country in 2024

Figure 54. Europe Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 55. Europe Pretensioner Gas Generator (PGG) Market Size by Country in 2024

Figure 56. Germany Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 57. Germany Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 58. France Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 59. France Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 60. U.K. Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 61. U.K. Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 62. Italy Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 63. Italy Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 64. Spain Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 65. Spain Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 66. Asia Pacific Pretensioner Gas Generator (PGG) Sales and Growth Rate (K Units)

Figure 67. Asia Pacific Pretensioner Gas Generator (PGG) Sales Market Share by Region in 2024

Figure 68. Asia Pacific Pretensioner Gas Generator (PGG) Market Size by Region in 2024

Figure 69. China Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 70. China Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 71. Japan Pretensioner Gas Generator (PGG) Sales and Growth Rate



(2020-2025) & (K Units)

Figure 72. Japan Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 73. South Korea Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 74. South Korea Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 75. India Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 76. India Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 77. Southeast Asia Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 78. Southeast Asia Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 79. South America Pretensioner Gas Generator (PGG) Sales and Growth Rate (K Units)

Figure 80. South America Pretensioner Gas Generator (PGG) Sales Market Share by Country in 2024

Figure 81. South America Pretensioner Gas Generator (PGG) Market Size and Growth Rate (M USD)

Figure 82. South America Pretensioner Gas Generator (PGG) Market Size by Country in 2024

Figure 83. Brazil Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 84. Brazil Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 85. Argentina Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 86. Argentina Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 87. Columbia Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 88. Columbia Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 89. Middle East and Africa Pretensioner Gas Generator (PGG) Sales and Growth Rate (K Units)

Figure 90. Middle East and Africa Pretensioner Gas Generator (PGG) Sales Market Share by Region in 2024



Figure 91. Middle East and Africa Pretensioner Gas Generator (PGG) Market Size and Growth Rate (M USD)

Figure 92. Middle East and Africa Pretensioner Gas Generator (PGG) Market Size by Region in 2024

Figure 93. Saudi Arabia Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 94. Saudi Arabia Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 95. UAE Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 96. UAE Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 97. Egypt Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 98. Egypt Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 99. Nigeria Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 100. Nigeria Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 101. South Africa Pretensioner Gas Generator (PGG) Sales and Growth Rate (2020-2025) & (K Units)

Figure 102. South Africa Pretensioner Gas Generator (PGG) Market Size and Growth Rate (2020-2025) & (M USD)

Figure 103. Global Pretensioner Gas Generator (PGG) Production Market Share by Region (2020-2025)

Figure 104. North America Pretensioner Gas Generator (PGG) Production (K Units) Growth Rate (2020-2025)

Figure 105. Europe Pretensioner Gas Generator (PGG) Production (K Units) Growth Rate (2020-2025)

Figure 106. Japan Pretensioner Gas Generator (PGG) Production (K Units) Growth Rate (2020-2025)

Figure 107. China Pretensioner Gas Generator (PGG) Production (K Units) Growth Rate (2020-2025)

Figure 108. Global Pretensioner Gas Generator (PGG) Sales Forecast by Volume (2020-2035) & (K Units)

Figure 109. Global Pretensioner Gas Generator (PGG) Market Size Forecast by Value (2020-2035) & (M USD)

Figure 110. Global Pretensioner Gas Generator (PGG) Sales Market Share Forecast by

Type (2026-2035)

Figure 111. Global Pretensioner Gas Generator (PGG) Market Share Forecast by Type (2026-2035)

Figure 112. Global Pretensioner Gas Generator (PGG) Sales Forecast by Application (2026-2035)

Figure 113. Global Pretensioner Gas Generator (PGG) Market Share Forecast by Application (2026-2035)

## I would like to order

Product name: Global Pretensioner Gas Generator (PGG) Market Research Report 2026(Status and Outlook)

Product link: <https://marketpublishers.com/r/G02B104E120CEN.html>

Price: US\$ 2,980.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G02B104E120CEN.html>