

Global Piston Rod Guided Cylinder Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G0753FD9B88FEN.html>

Date: February 2026

Pages: 154

Price: US\$ 4,480.00 (Single User License)

ID: G0753FD9B88FEN

Abstracts

The global Piston Rod Guided Cylinder market size is expected to reach \$ 1490 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

In 2025, global sales of piston rod guided cylinders across various applications reached approximately 5.15 million units, with an average price of approximately USD 185 per unit and a gross profit margin of approximately 24%–31%. Piston rod guided cylinders are pneumatic actuators that integrate a single guiding mechanism into a standard cylinder. A typical structure consists of a cylinder barrel and front and rear end caps, a piston and piston rod, two or four high-precision guide rods, guide bushings or bearing seats, a front mounting plate (for mounting fixtures/tools), a buffer and stroke adjustment mechanism, and a magnetic switch slot/sensor interface. Common parameters include: cylinder diameter range of 10–80 mm, standard stroke of 10–200 mm, permissible lateral load of tens to hundreds of Newtons, permissible eccentric load distance of tens of millimeters, repeatability of ± 0.02 – ± 0.1 mm, normal operating pressure of 0.4–0.7 MPa, operating temperature of -10 to $+70$ °C, and some dustproof/waterproof models meeting IP65 or higher standards. In terms of typical usage: a small to medium-sized electronic assembly line or insertion line typically uses 30–120 piston rod guided cylinders (for lifting, positioning, pressing, and lateral pushing stations); a medium-sized carton forming/folding packaging machine typically uses 8–20 piston rod guided cylinders for pressing, positioning, and folding actions; and a semi-automatic tooling line for automotive parts uses 20–60 piston rod guided cylinders in the fixtures, lifting, and error-proofing mechanisms. Upstream demand mainly relies on aluminum profiles and aluminum alloy extrusions, carbon steel/alloy steel (chrome-plated or hard chrome-plated) for precision piston rods and guide rods, brass/aluminum alloy/engineering plastic guide bushings and seals, die-cast or machined aluminum end

caps, and standard magnetic switches and air port connectors; downstream demand is concentrated in automation equipment integrators, standard pneumatic component distributors, electronic and automotive parts assembly lines, packaging machinery and food machinery plants, and various factory automation upgrade projects.

This report studies the global Piston Rod Guided Cylinder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Piston Rod Guided Cylinder 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 Piston Rod Guided Cylinder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Piston Rod Guided Cylinder total production and demand, 2021-2032, (K Units)

Global Piston Rod Guided Cylinder total production value, 2021-2032, (USD Million)

Global Piston Rod Guided Cylinder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Piston Rod Guided Cylinder consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Piston Rod Guided Cylinder domestic production, consumption, key domestic manufacturers and share

Global Piston Rod Guided Cylinder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Piston Rod Guided Cylinder production by Maximum Stroke, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Piston Rod Guided Cylinder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Piston Rod Guided Cylinder 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 SMC, MISUMI, Camozzi, Festo, AirTAC, Compact Automation, Mindman Industrial, CKD, Shako, E-MC, 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 Piston Rod Guided Cylinder 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 Maximum Stroke, 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 Piston Rod Guided Cylinder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Piston Rod Guided Cylinder Market, Segmentation by Maximum Stroke:

200mm

400mm

Others

Global Piston Rod Guided Cylinder Market, Segmentation by Bore size:

12mm

16mm

32mm

Others

Global Piston Rod Guided Cylinder Market, Segmentation by Rod Operation Method:

Single-Rod

Dual-Rod

Global Piston Rod Guided Cylinder Market, Segmentation by Application:

Electronics/Home Appliance Assembly

Automotive and Metal Factory Automation

General Machinery Manufacturing

Others

Companies Profiled:

SMC

MISUMI

Camozzi

Festo

AirTAC

Compact Automation

Mindman Industrial

CKD

Shako

E-MC

Parker Pneumatic

NITRA

Tolomatic

Pneumax

Foye

FONTAL

JUFAN INDUSTRIAL

Key Questions Answered:

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

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