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Global Single Passage Rotary Union Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single Passage Rotary Union market size is expected to reach $ 304 million by 2032, rising at a market growth of 3.7% CAGR during the forecast period (2026-2032).

In 2025, global Single Passage Rotary Union production reached approximately 1.14 million units, with an average global market price of around US$200 per unit.

A Single Passage Rotary Union is a rotary sealing device designed to transfer a single fluid or gas medium between stationary and rotating components while maintaining continuous rotation and leak-free operation. The device typically consists of a housing, shaft, bearings, dynamic seals, and fluid channels. It enables the transmission of hydraulic oil, water, steam, compressed air, coolant, vacuum, or other process media from a fixed supply source to rotating machinery. Single passage rotary unions are widely used in machine tools, packaging equipment, paper machinery, steel processing lines, rotary tables, robotics, semiconductor equipment, and industrial automation systems. Owing to their compact structure, reliable sealing performance, and ease of maintenance, they remain one of the most widely used rotary fluid transmission components in industrial applications.

The upstream industry of Single Passage Rotary Unions mainly consists of stainless steel, carbon steel, brass, aluminum alloys, engineering plastics, bearings, mechanical seals, O-rings, and precision machining components. Representative suppliers include SKF, Schaeffler, NSK, Timken, Parker Hannifin, Trelleborg, Freudenberg, Saint-Gobain and Carpenter Technology. Midstream manufacturers integrate sealing technologies, bearing systems, and precision-machined components into finished rotary unions. Downstream applications include machine tools, paper machinery, steel processing

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equipment, semiconductor manufacturing systems, packaging machinery, printing equipment, robotics, and automation production lines. Representative end users include Siemens, FANUC, Bosch Rexroth, JTEKT, Voith, Metso, Heidelberg and ABB.

The Single Passage Rotary Union market continues to benefit from the expansion of industrial automation, machine tools, robotics, packaging equipment, and process industries. Demand is increasingly focused on higher operating pressure, higher rotational speed, improved sealing reliability, and longer service life. Manufacturers are investing in advanced sealing materials, precision machining technologies, and maintenance-friendly designs to improve performance and reduce downtime. Market growth is supported by equipment modernization, automation upgrades, and increasing demand for efficient fluid transmission systems. However, competition from low-cost manufacturers, fluctuations in raw material costs, and stringent reliability requirements remain key challenges. Future development is expected to emphasize durability, energy efficiency, smart monitoring, and application-specific customization.

This report studies the global Single Passage Rotary Union production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single Passage Rotary Union 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 Single Passage Rotary Union that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single Passage Rotary Union total production and demand, 2021-2032, (K Units)
Global Single Passage Rotary Union total production value, 2021-2032, (USD Million)
Global Single Passage Rotary Union production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Single Passage Rotary Union consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Single Passage Rotary Union domestic production, consumption, key domestic manufacturers and share
Global Single Passage Rotary Union production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Single Passage Rotary Union production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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Global Single Passage Rotary Union production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Single Passage Rotary Union 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 Deublin, Danfoss, Filton, Showa Giken, Korea Precision ENG, Rotary Systems, Johnson Fluiten, Duff Norton, Dynamic Sealing, Moog, 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 Single Passage Rotary Union 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 Single Passage Rotary Union Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Global Single Passage Rotary Union Market, Segmentation by Type:

Steel

Aluminum

Brass

Others

Global Single Passage Rotary Union Market, Segmentation by Transmission Medium:

Hydraulic Rotary Union

Pneumatic Rotary Union

Others

Global Single Passage Rotary Union Market, Segmentation by Working Pressure:

0.1-1 Mpa

1-10 Mpa

10-35 Mpa

Others

Global Single Passage Rotary Union Market, Segmentation by Application:

Industrial Automation

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Mining

Medical

Marine

Others

Companies Profiled:

Deublin

Danfoss

Filton

Showa Giken

Korea Precision ENG

Rotary Systems

Johnson Fluiten

Duff Norton

Dynamic Sealing

Moog

Columbus McKinnon

Scott Rotary Seals

OTT-JAKOB

Kadant

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Rix Corporation

BGB Innovation

Christian Maier GmbH

Moflon

Senring

Tengxuan Technology

Dewel Machinery Technology

Key Questions Answered:
1. How big is the global Single Passage Rotary Union market?
2. What is the demand of the global Single Passage Rotary Union market?
3. What is the year over year growth of the global Single Passage Rotary Union market?
4. What is the production and production value of the global Single Passage Rotary Union market?
5. Who are the key producers in the global Single Passage Rotary Union market?
6. What are the growth factors driving the market demand?

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