

Global Single Sided Friction Plate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single Sided Friction Plate market size is expected to reach \$ 554 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

Single-sided friction plates are wet-running friction elements with friction material applied to only one side of a steel core plate. They operate in oil against separator plates, end plates, piston surfaces or reaction surfaces to provide torque transfer, brake holding, controlled slip, clutch engagement and higher torque density within limited axial space. They are used in clutch-pack end positions, special multi-disc clutch designs, automatic-transmission rebuild kits, wet brakes, powershift transmissions, construction machinery, agricultural machinery, forklifts, mining equipment and industrial drivetrains. Upstream inputs include specialty steel sheets, cellulose/aramid/carbon fibers, phenolic resins, elastomers, graphite, metal powders, sintered powders, adhesives, friction modifiers, molybdenum/ceramic coatings and ATF or hydraulic oil systems. Downstream applications include AT, wet DCT, HEV/DHT, AWD couplings, wet brakes, forklifts, loaders, tractors, haul trucks, marine drives and industrial clutches.

In 2025, global single sided friction plate production reached approximately 300 million units, with an average global market price is \$1.3 per unit.

Single-sided friction plate is a friction plate with friction material applied to only one side of the steel core plate or carrier. It is a structural classification based on the arrangement of the friction material, rather than a product category defined by wet or dry operating conditions. Structurally and functionally, a single-sided friction plate normally consists of a steel core plate, a friction material layer on one side, a bonding layer, and groove geometry, and it works with steel plates, pressure plates, brake discs, or other mating components to form a friction pair. Because friction material is applied to

only one side, design control focuses on friction-layer thickness consistency, bonding strength, flatness, thermal deformation, oil-flow path, and stable contact with the mating steel plate. In wet drivetrain systems, single-sided friction plates rely on oil cooling and lubrication to transmit torque, execute shift engagement, provide lock-up control, perform braking, or distribute power under the combined effects of engagement pressure, speed difference, and oil-film condition. Compared with double-sided friction plates, single-sided plates provide fewer active friction surfaces, but they can be advantageous in specific clutch-pack layouts where clearer friction-pair arrangement, heat-dissipation path control, local packaging design, and friction-interface management are required.

By material system, single-sided friction plates may use paper-based, carbon-based, non-woven, and other composite friction materials. Paper-based materials are the most widely used in automotive automatic transmissions and wet clutch systems because of their tunable friction behavior, good fluid compatibility, moderate cost, and stable high-volume production consistency. Carbon-based and high-performance composite materials are more common in drivetrain applications requiring higher thermal load capacity, higher energy density, frequent engagement, or longer durability. Actual product selection depends not only on friction material formulation, but also on steel plate surface roughness, fluid chemistry, groove geometry, engagement pressure, friction energy, operating temperature, control strategy, and NVH requirements.

From an application and development perspective, demand for single-sided friction plates is mainly supported by automatic transmissions, wet dual-clutch transmissions, hybrid transmissions, torque-converter lock-up systems, intelligent all-wheel-drive systems, and limited-slip differentials. As drivetrain systems move toward compact packaging, higher efficiency, higher torque density, lower drag loss, and smoother shift quality, single-sided friction plates must balance friction stability, heat resistance, wear resistance, reduced judder, low noise, fluid compatibility, and manufacturing consistency.

This report studies the global Single Sided Friction Plate production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Single Sided Friction Plate total production and demand, 2021-2032, (K Units)

Global Single Sided Friction Plate total production value, 2021-2032, (USD Million)

Global Single Sided Friction Plate production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Single Sided Friction Plate consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Single Sided Friction Plate domestic production, consumption, key domestic manufacturers and share

Global Single Sided Friction Plate production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Single Sided Friction Plate production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Single Sided Friction Plate production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Single Sided Friction Plate 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 Dynax, BorgWarner, Aisin Corporation, F.C.C., Miba AG, NSK Warner, Carlisle Brake & Friction, Jiangsu Lintex Advanced Materials, Zhejiang Kema Friction Materials, Alto Products Corp., 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 Sided Friction Plate 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 Sided Friction Plate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single Sided Friction Plate Market, Segmentation by Type:

Paper-Based Friction Material

Sintered Metallic Friction Material

Carbon-Based Friction Material

Others

Global Single Sided Friction Plate Market, Segmentation by Drivetrain System:

Automatic Transmission(AT)

Dual-Clutch Transmission(DCT)

Continuously Variable Transmission(CVT)

Dedicated Hybrid Transmission(DHT)

Others

Global Single Sided Friction Plate Market, Segmentation by Sales Channel:

OEM

Aftermarket

Global Single Sided Friction Plate Market, Segmentation by Application:

Passenger Car

Commercial Vehicle

Others

Companies Profiled:

Dynax

BorgWarner

Aisin Corporation

F.C.C.

Miba AG

NSK Warner

Carlisle Brake & Friction

Jiangsu Lintex Advanced Materials

Zhejiang Kema Friction Materials

Alto Products Corp.

Raybestos Powertrain

Key Questions Answered:

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

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