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Global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) market size is expected to reach $ 1471 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

The aeroengine low pressure turbine discs are disc-shaped core rotating components installed at the end of the low-pressure turbine rotor. Its main function is to fix the working blades of the low-pressure turbine and transfer the mechanical work extracted from the exhaust gas flow to the fan and/or low-pressure compressor to generate the engine's main thrust. The demand for low-pressure turbine disks is primarily driven by the strong commercial aviation market, namely, orders placed by aircraft manufacturers (such as Boeing and Airbus) with engine manufacturers when launching new models and upgrading existing fleets, and the resulting large aftermarket maintenance and overhaul market. Its upstream supply chain begins with metal raw material suppliers (providing titanium, aluminum, nickel, etc.), with key links being special alloy manufacturers (producing titanium alloy and nickel-based alloy billets) and large forging suppliers, who provide smelted and forged disk blanks. Midstream precision manufacturers are responsible for precision machining, heat treatment, and testing, ultimately producing qualified disks. Downstream, they are delivered directly to OEMs for engine assembly and ultimately delivered to aircraft manufacturers and airlines along with the engines, forming a tight supply chain spanning the entire lifecycle from raw materials to in-flight operation. In 2025, the production of aeroengine low pressure turbine disks for aero engines will be approximately 8,000 units, with an average selling price of approximately US$120,000 per unit, a gross profit margin of approximately 35%, and a single-line capacity of approximately 150 units per year.

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The core driving factors for the market of aeroengine low pressure turbine disks for aero engines can be summarized in the following three points: First, fleet expansion and replacement demand: The recovery of global air passenger demand and the improvement of fuel efficiency requirements have driven the delivery of new-generation high-bypass turbofan engines, directly boosting the market demand for new turbine disks. Second, replacement and MRO market: As the age of in-service aircraft increases, the replacement demand for low-pressure turbine disks, as key short-life rotating components, continues to expand in the maintenance, repair, and overhaul (MRO) stage, forming a huge replacement market. Third, supply chain self-sufficiency strategy: Geopolitical factors have prompted countries (especially emerging markets such as China) to attach importance to the security of the aero engine supply chain and increase investment in independent research and development and capacity building for core hot-end components, including low-pressure turbine disks.

This report studies the global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) 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 Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) total production and demand, 2021-2032, (K Units)
Global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) total production value, 2021-2032, (USD Million)
Global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) domestic production, consumption, key domestic manufacturers and share
Global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

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Global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) 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 Howmet Aerospace, Precision Castparts Corp, MTU Aero Engines, GKN Aerospace, ITP Aero, Mitsubishi Heavy Industries, IHI Corporation, GE Aerospace, AECC Aero Engine Corporation of China, voestalpine B?HLER Aerospace GmbH & Co KG, 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 Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) 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 Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) Market, Segmentation by Type:

Traditional Titanium Alloy Discs

Advanced Titanium-aluminum Tlloy Discs

Nickel-based High-temperature Alloy Discs

Global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) Market, Segmentation by Inter-disk Connection Method:

Bolted Connection

Welded Connection

End Tooth Connection

Global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) Market, Segmentation by Compatible Model:

Narrow-body Aircraft Engine Disc

Wide-body Aircraft Engine Disc

Global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) Market, Segmentation by Application:

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Military Use

Commercial Use

Other

Companies Profiled:

Howmet Aerospace

Precision Castparts Corp

MTU Aero Engines

GKN Aerospace

ITP Aero

Mitsubishi Heavy Industries

IHI Corporation

GE Aerospace

AECC Aero Engine Corporation of China

voestalpine B?HLER Aerospace GmbH & Co KG

Key Questions Answered:

1. How big is the global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) market?
2. What is the demand of the global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) market?
3. What is the year over year growth of the global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) market?
4. What is the production and production value of the global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) market?

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5. Who are the key producers in the global Aeroengine Low Pressure Turbine Discs (LP Turbine Discs) market?
6. What are the growth factors driving the market demand?

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