

# Global Wind Power Planetary Carrier Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Wind Power Planetary Carrier market size is expected to reach \$ 600 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

In 2025, global Wind Power Planetary Carrier production reached approximately 25k units, with an average global market price of around US\$15k per unit.

A wind power planetary carrier is a critical load-carrying and torque-transmitting component in the planetary stages of a wind turbine gearbox. It holds and positions planet pins/shafts and bearings so multiple planet gears mesh simultaneously with the sun and ring gears, enabling load sharing and reliable torque transfer (often as part of the input/low-speed side). It must maintain stiffness and alignment under highly variable, fatigue-dominant operating loads, and is typically produced from high-grade steel forgings (or casting/forging routes) followed by precision machining, heat treatment, and rigorous NDT/quality control.

Upstream spans materials and processes: alloy steels/case-hardening steels commonly referenced in wind drivetrain components (e.g., 42CrMo4, 18CrNiMo7-6), steel supply, forging and heat treatment, precision machining (boring/milling/grinding/honing), and stringent inspection/QA (e.g., UT requirements such as EN10228-3), plus matched planet pins/bearings. Midstream includes gearbox OEMs and specialized forged/machined component suppliers. Downstream is the wind turbine drivetrain ecosystem: gearbox suppliers (e.g., Flender/Winergy, ZF Wind Power) and geared-turbine OEMs (e.g., Siemens Gamesa models using multi-stage gearboxes), where the carrier is installed in planetary stages within the nacelle drivetrain.

The wind planetary carrier segment is driven by both new installations and the installed-base service market, with competition increasingly centered on quality consistency and delivery capability. As turbines scale up and torque density rises, carriers face higher fatigue and alignment demands, elevating the importance of clean steel, stable heat treatment, tight hole-pattern tolerances, UT/NDT rigor, and traceable QA systems. A key trend is tighter coupling between near-net forging, high-efficiency machining, in-process metrology, and gearbox/OEM qualification workflows; meanwhile, O&M and remanufacturing ecosystems support ongoing spare-parts demand. Headwinds include wind-cycle volatility affecting capex and spares timing, raw material/energy cost swings, and yield/schedule pressure under stringent acceptance criteria?plus supplier consolidation that intensifies competition. Long-term winners are typically those with integrated material/heat-treat competence, precision machining/metrology for critical bores, and proven qualification with major gearbox/turbine supply chains.

This report studies the global Wind Power Planetary Carrier production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Wind Power Planetary Carrier 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 Wind Power Planetary Carrier that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Wind Power Planetary Carrier total production and demand, 2021-2032, (K Units)

Global Wind Power Planetary Carrier total production value, 2021-2032, (USD Million)

Global Wind Power Planetary Carrier production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Wind Power Planetary Carrier consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Wind Power Planetary Carrier domestic production, consumption, key domestic manufacturers and share

Global Wind Power Planetary Carrier production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Wind Power Planetary Carrier production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Wind Power Planetary Carrier production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Wind Power Planetary Carrier 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 Wikov, ZF Friedrichshafen, BorgWarner, Flender, Winergy, RENK Group, Schaeffler, Xihua Founding, Mingbei Machinery Manufacturing, Jinhe Casting, 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 Wind Power Planetary Carrier 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 Wind Power Planetary Carrier Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Wind Power Planetary Carrier Market, Segmentation by Type:

Single Stage

Multi Stage

Global Wind Power Planetary Carrier Market, Segmentation by Structural Forms:

Integrated

Split Type

Global Wind Power Planetary Carrier Market, Segmentation by Number of Planetary Gears:

3

4

5

Global Wind Power Planetary Carrier Market, Segmentation by Application:

Offshore Wind Turbines

Onshore Wind Turbines

Companies Profiled:

Wikov

ZF Friedrichshafen

BorgWarner

Flender

Winergy

RENK Group

Schaeffler

Xihua Founding

Mingbei Machinery Manufacturing

Jinhe Casting

Jiali Technology

Riyue Heavy Industry

Hongde Special Parts

Shengbo Energy Machinery Manufacturing

### **Key Questions Answered:**

1. How big is the global Wind Power Planetary Carrier market?
2. What is the demand of the global Wind Power Planetary Carrier market?
3. What is the year over year growth of the global Wind Power Planetary Carrier market?
4. What is the production and production value of the global Wind Power Planetary Carrier market?
5. Who are the key producers in the global Wind Power Planetary Carrier market?
6. What are the growth factors driving the market demand?

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