

Global AI-assisted Aircraft Engine Borescope Inspection System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI-assisted Aircraft Engine Borescope Inspection System market size is expected to reach \$ 192 million by 2032, rising at a market growth of 10.5% CAGR during the forecast period (2026-2032).

An AI assisted aircraft engine borescope inspection system is an intelligent remote visual inspection system used for on wing inspection, maintenance inspection, lease return inspection and overhaul support of commercial and professional aircraft engines. The research scope focuses on hardware devices, AI software and inspection data platforms used to capture, analyze and manage visual evidence inside compressors, combustors, turbine blades, guide vanes, internal gas paths and high temperature engine components. Major product forms include intelligent video borescopes, three dimensional measurement borescopes, AI defect recognition software, borescope image review platforms, automated inspection reporting systems and cloud based data archiving platforms. Core technologies include high definition miniature imaging, flexible probe articulation, three dimensional measurement, image enhancement, automatic blade positioning, crack recognition, burn and erosion recognition, notch and wear identification, foreign object damage recognition, defect grading and integration with maintenance workflows. Key specifications include probe diameter, articulation angle, image resolution, measurement accuracy, AI detection accuracy, processing speed, engine model compatibility, inspection record traceability and data security. In 2025, the global industry average selling price was about USD 82000 per unit, and the global industry average gross margin was about 50 percent.

The industry is essentially a digital upgrade of conventional aircraft engine borescope inspection. Upstream participants supply miniature optical imaging components, flexible

probes, sensors, image processing chips, AI models, defect image databases and cloud software infrastructure. The midstream is formed by intelligent borescope equipment manufacturers, AI inspection software providers and aviation maintenance digital platform companies. Downstream demand comes mainly from airline engineering departments, engine overhaul shops, engine OEM aftermarket networks, aircraft lessors and third party MRO providers. This product should not be treated as a generic industrial videoscope. Its value is created by combining internal engine visual inspection, defect recognition, standardized reporting and maintenance decision support.

The competitive structure is concentrated at the core but broader at the hardware edge. Only a limited number of companies have clear capabilities in AI assisted aircraft engine borescope inspection systems. The key barriers are not limited to probe design or image quality. They also include aircraft engine defect datasets, AI model training, engine type adaptation, understanding of maintenance standards and the ability to close the loop between inspection data and repair decisions. Traditional video borescope manufacturers still hold advantages in imaging hardware, but without AI recognition, data management and automated reporting, they are better positioned as extended hardware suppliers rather than core AI system providers.

The policy and demand environment is favorable. Aviation safety requirements, engine airworthiness management, traceable maintenance records and airline cost pressure are pushing borescope inspection toward AI assisted interpretation and standardized digital workflows. Future growth will be supported by the expansion of the in service engine fleet, rising narrowbody engine maintenance pressure, stricter lease return inspections and continued investment in MRO digitalization. However, the market will grow in a controlled manner because defect data accumulation, regulatory validation and engine model adaptation all take time. The segment is therefore a high value emerging niche rather than a fast volume driven mass market.

This report studies the global AI-assisted Aircraft Engine Borescope Inspection System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI-assisted Aircraft Engine Borescope Inspection System 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 AI-assisted Aircraft Engine Borescope Inspection System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI-assisted Aircraft Engine Borescope Inspection System total production and demand, 2021-2032, (Unit)

Global AI-assisted Aircraft Engine Borescope Inspection System total production value, 2021-2032, (USD Million)

Global AI-assisted Aircraft Engine Borescope Inspection System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Unit), (based on production site)

Global AI-assisted Aircraft Engine Borescope Inspection System consumption by region & country, CAGR, 2021-2032 & (Unit)

U.S. VS China: AI-assisted Aircraft Engine Borescope Inspection System domestic production, consumption, key domestic manufacturers and share

Global AI-assisted Aircraft Engine Borescope Inspection System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Unit)

Global AI-assisted Aircraft Engine Borescope Inspection System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Unit)

Global AI-assisted Aircraft Engine Borescope Inspection System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Unit)

This report profiles key players in the global AI-assisted Aircraft Engine Borescope Inspection System 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 Baker Hughes, Aiir Innovations B.V., Zhejiang Chaoxili Technology Co., Ltd., Evident Corporation, 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 AI-assisted Aircraft Engine Borescope Inspection System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Unit) and average price (K 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 AI-assisted Aircraft Engine Borescope Inspection System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI-assisted Aircraft Engine Borescope Inspection System Market, Segmentation by Type:

AI-enabled Video Borescope System

3D Measurement Borescope System

AI Defect Recognition Software

Borescope Data Management Platform

Others

Global AI-assisted Aircraft Engine Borescope Inspection System Market, Segmentation by Inspection Target:

Compressor Section

Combustor Section

Turbine Section

Internal Gas Path and Casing

Accessories and Hard-to-reach Areas

Others

Global AI-assisted Aircraft Engine Borescope Inspection System Market, Segmentation by Data Deployment Mode:

On-premise Device

Cloud-based Analytics

Hybrid Deployment

Global AI-assisted Aircraft Engine Borescope Inspection System Market, Segmentation by Application:

Commercial Aviation

Aerospace MRO Industry

Aircraft Leasing and Asset Management

Business Aviation

Defense and Government Aviation

Others

Companies Profiled:

Baker Hughes

Aiir Innovations B.V.

Zhejiang Chaoxili Technology Co., Ltd.

Evident Corporation

Key Questions Answered:

1. How big is the global AI-assisted Aircraft Engine Borescope Inspection System market?
2. What is the demand of the global AI-assisted Aircraft Engine Borescope Inspection System market?
3. What is the year over year growth of the global AI-assisted Aircraft Engine Borescope Inspection System market?
4. What is the production and production value of the global AI-assisted Aircraft Engine Borescope Inspection System market?
5. Who are the key producers in the global AI-assisted Aircraft Engine Borescope Inspection System market?
6. What are the growth factors driving the market demand?

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