

Global AI-based Sperm Morphology Analysis System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI-based Sperm Morphology Analysis System market size is expected to reach \$ 200 million by 2032, rising at a market growth of 14.2% CAGR during the forecast period (2026-2032).

AI-based Sperm Morphology Analysis Systems are intelligent reproductive diagnostic platforms integrating digital microscopy, automated semen analysis, deep learning image recognition, and machine vision technologies for automated sperm morphology evaluation. These systems are designed to identify, classify, and assess sperm head, midpiece, and tail structures through AI-assisted analysis workflows. Major product forms include fully automated desktop sperm quality analyzers, AI-enhanced CASA systems, live sperm morphology analysis platforms, and AI-assisted sperm selection workstations. Typical systems combine automated optical scanning modules, high-resolution imaging units, temperature-controlled stages, AI morphology analysis software, and database-driven evaluation systems to support sperm concentration testing, motility assessment, morphology classification, abnormality detection, and WHO-standardized semen analysis. Key applications include IVF clinics, reproductive medicine centers, hospital laboratories, and andrology laboratories. In 2025, the global industry average gross margin is estimated at approximately 55% to 65%. Average selling prices are estimated at around USD 20,000 to USD 80,000 per mainstream desktop AI morphology analysis system, while high-end AI-assisted sperm selection platforms integrating robotic manipulation, optical tweezers, or advanced microfluidic technologies are typically priced at approximately USD 80,000 to USD 160,000 per system.

The global AI-based sperm morphology analysis system industry remains in the early transition stage from traditional CASA technologies toward intelligent morphology

recognition and automated reproductive diagnostics. The core value of the industry lies in improving the consistency, objectivity, and automation level of sperm morphology evaluation in fertility testing workflows. Upstream supply chains mainly involve optical microscopy components, CMOS imaging sensors, AI algorithm frameworks, and reproductive medicine databases, while midstream activities focus on AI semen analysis platforms and integrated morphology analysis systems. Downstream demand is primarily concentrated in IVF clinics, reproductive medicine centers, hospital laboratories, and andrology testing institutions. Rising male infertility rates, increasing ART penetration, and stronger laboratory standardization requirements are gradually accelerating the adoption of AI-assisted morphology analysis technologies. The current competitive landscape is still dominated by a limited number of companies possessing AI algorithm capabilities, clinical data accumulation, and automated morphology analysis technologies, while traditional CASA vendors are also accelerating product upgrades toward AI-enhanced systems. North America and Europe remain the primary markets for high-end reproductive diagnostic platforms, whereas Asia, particularly China, is entering a rapid commercialization and regulatory approval phase. Industry developments in recent years have included product launches, AI software upgrades, clinical validation expansion, reproductive laboratory digitalization, and selective acquisitions aimed at strengthening intelligent fertility analysis capabilities. The market is gradually evolving from basic semen testing toward AI-assisted diagnosis, live sperm assessment, and intelligent sperm selection applications. Future growth is expected to be driven by increasing AI penetration in fertility laboratories, automation upgrades in high-end IVF centers, and the wider adoption of compact and portable analysis systems. Continuous advancements in deep learning models, machine vision technologies, and cloud-based reproductive databases are expected to improve morphology recognition accuracy, abnormality classification efficiency, and laboratory workflow automation. The industry is also moving toward dynamic real-time sperm analysis, remote diagnostic support, and personalized fertility evaluation solutions. However, challenges including long clinical validation cycles, evolving regulatory standards, limited standardization of AI-assisted morphology interpretation, and relatively slow hospital procurement processes are likely to maintain the industry's high technical barriers and specialized market structure in the near term.

This report studies the global AI-based Sperm Morphology Analysis System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI-based Sperm Morphology Analysis 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-based Sperm Morphology Analysis System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI-based Sperm Morphology Analysis System total production and demand, 2021-2032, (Units)

Global AI-based Sperm Morphology Analysis System total production value, 2021-2032, (USD Million)

Global AI-based Sperm Morphology Analysis System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global AI-based Sperm Morphology Analysis System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: AI-based Sperm Morphology Analysis System domestic production, consumption, key domestic manufacturers and share

Global AI-based Sperm Morphology Analysis System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global AI-based Sperm Morphology Analysis System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global AI-based Sperm Morphology Analysis System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global AI-based Sperm Morphology Analysis 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 Bonray Biotechnology Co., Ltd., Basecare Medical Device Co., Ltd., Suzhou Boundless Medical Technology Co., Ltd., Medical Electronic Systems, Microptic S.L., PROiSER R+D S.L., Hamilton Thorne Ltd., BAIBYS Fertility Ltd., SAS Medical Technology (Beijing) Co., Ltd., BEION Medical, 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-based Sperm Morphology Analysis System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) 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-based Sperm Morphology Analysis System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI-based Sperm Morphology Analysis System Market, Segmentation by Type:

Desktop Integrated Analysis System

Modular CASA-based System

Live Sperm Analysis Platform

AI-assisted Sperm Selection Workstation

Others

Global AI-based Sperm Morphology Analysis System Market, Segmentation by Analysis Parameter:

Comprehensive (Concentration + Motility + Morphology)

Morphology-only

Motility + Concentration Only

Morphology + DNA Fragmentation

Others

Global AI-based Sperm Morphology Analysis System Market, Segmentation by Application:

IVF and ART Centers

Hospital Andrology Laboratories

Clinical Diagnostic Laboratories

Fertility Research Institutions

Veterinary Reproduction

Others

Companies Profiled:

Bonray Biotechnology Co., Ltd.

Basecare Medical Device Co., Ltd.

Suzhou Boundless Medical Technology Co., Ltd.

Medical Electronic Systems

Microptic S.L.

PROiSER R+D S.L.

Hamilton Thorne Ltd.

BAIBYS Fertility Ltd.

SAS Medical Technology (Beijing) Co., Ltd.

BEION Medical

Beijing SpermCapturer Biotechnology Co., Ltd.

Illumicell AI

Minitube GmbH

iSperm

Key Questions Answered:

1. How big is the global AI-based Sperm Morphology Analysis System market?
2. What is the demand of the global AI-based Sperm Morphology Analysis System market?
3. What is the year over year growth of the global AI-based Sperm Morphology Analysis System market?
4. What is the production and production value of the global AI-based Sperm Morphology Analysis System market?
5. Who are the key producers in the global AI-based Sperm Morphology Analysis System market?
6. What are the growth factors driving the market demand?

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