

Global AMHS for Semiconductor Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global AMHS for Semiconductor market size was valued at USD 2719.6 million in 2023 and is forecast to a readjusted size of USD 4730.8 million by 2030 with a CAGR of 8.2% during review period.

The semiconductor wafer clean room automatic handling system (AMHS) is mainly composed of two parts: the hardware structure (storage unit + handling unit) and the control system. In semiconductor processing plants, AMHS systems (Automated Material Handling Systems) are very critical and are the guarantee of improving semiconductor manufacturing yield, yield and equipment utilization. Especially for fully automated semiconductor factories that realize automatic transfer between production equipment and equipment, an efficient AMHS system can greatly reduce the waiting time of in-process products, thereby shortening the production cycle of wafer products. AMHS has experienced rapid development from mechanical transport to unmanned transport. The early 6-inch fab was not widely used due to the limited weight of the wafer itself. Later, with the rise of the 8-inch fab, the application of AMHS began to flourish. It has successively experienced the first-generation unit air transport system, the second-generation EQtoEQ partial cross-regional direct transport, the third-generation plant-wide EQtoEQ AMHS system, and then the fourth generation AMHS, Stocker+OHT+ZFS. The fourth generation AMHS system is an automatic material conveying system that uses multi-fork in the air and does not need to wait. The speed of conveying the wafer cassette is very fast (≈ 3 m/s), it can move in a curve or climb a slope, without adding a transfer unit, swinging. Small, effectively control the generation of particulate matter. In order to solve the problem of possible congestion in conveyance, the concepts of dynamic load balancing and dynamic task assignment are

proposed. In order to reduce the footprint, the early stocker storage warehouse is placed in the aerial wafer storage device UTS. Reduce costs, the use of UTS reduces the number of Stockers, thereby reducing fixed investment, improving equipment reliability, and saving regular maintenance costs. The dynamic decision-making function of the AMHS system makes the AMHS system transition from the early design concept of shortening the production cycle through rapid mechanical movement to the new concept of intelligently controlling the position of the aerial carrier and rationally dispatching workers, giving full play to the role of production assistance and bringing the fab to the fab. more added value.

Global main manufacturers of AMHS for semiconductor include Daifuku, Murata Machinery and SFA Engineering Corporation, etc. The top three players hold a share about 89%. The global AMHS for semiconductors are mainly produced in Japan, South Korea and China Taiwan, they occupied for a share over 98%. China Taiwan is the largest market, has a share about 47%, followed by North America and China, with share 19% and 18%, separately.

The Global Info Research report includes an overview of the development of the AMHS for Semiconductor industry chain, the market status of 200mm Wafer Factory (STK, OHT), 300mm Wafer Factory (STK, OHT), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of AMHS for Semiconductor.

Regionally, the report analyzes the AMHS for Semiconductor markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global AMHS for Semiconductor market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the AMHS for Semiconductor market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the AMHS for Semiconductor industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size,

including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., STK, OHT).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the AMHS for Semiconductor market.

Regional Analysis: The report involves examining the AMHS for Semiconductor market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the AMHS for Semiconductor market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to AMHS for Semiconductor:

Company Analysis: Report covers individual AMHS for Semiconductor manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards AMHS for Semiconductor This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (200mm Wafer Factory, 300mm Wafer Factory).

Technology Analysis: Report covers specific technologies relevant to AMHS for Semiconductor. It assesses the current state, advancements, and potential future developments in AMHS for Semiconductor areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the AMHS for Semiconductor market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

AMHS for Semiconductor market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

STK

OHT

OHS

RGV

AGV

Market segment by Application

200mm Wafer Factory

300mm Wafer Factory

450mm Wafer Factory

Major players covered

Daifuku

Murata Machinery

SFA Engineering Corporation

Mirle Automation

SMCore

Avaco

Linkwise Technology

Beijing Sineva

Suzhou Zooming

CASTEC International Corp

Meetfuture Tech

SYNUS Tech

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe AMHS for Semiconductor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AMHS for Semiconductor, with price,

sales, revenue and global market share of AMHS for Semiconductor from 2019 to 2024.

Chapter 3, the AMHS for Semiconductor competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AMHS for Semiconductor breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and AMHS for Semiconductor market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of AMHS for Semiconductor.

Chapter 14 and 15, to describe AMHS for Semiconductor sales channel, distributors, customers, research findings and conclusion.

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