

Global AMHS for Semiconductor Production, Demand and Key Producers, 2022-2028

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Abstracts

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.

This report studies the global AMHS for Semiconductor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AMHS for Semiconductor, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2021 as the base year. This report explores demand trends and competition, as well as details the characteristics of AMHS for Semiconductor that contribute to its increasing demand across many markets.

The global AMHS for Semiconductor market size is expected to reach \$ 4730.8 million by 2028, rising at a market growth of 8.2% CAGR during the forecast period (2022-2028).

Highlights and key features of the study

Global AMHS for Semiconductor total production and demand, 2017-2028, (K Units)

Global AMHS for Semiconductor total production value, 2017-2028, (USD Million)

Global AMHS for Semiconductor production by region & country, production, value, CAGR, 2017-2028, (USD Million) & (K Units)

Global AMHS for Semiconductor consumption by region & country, CAGR, 2017-2028 & (K Units)

U.S. VS China: AMHS for Semiconductor domestic production, consumption, key domestic manufacturers and share

Global AMHS for Semiconductor production by manufacturer, production, price, value and market share 2017-2022, (USD Million) & (K Units)

Global AMHS for Semiconductor production by Type, production, value, CAGR, 2017-2028, (USD Million) & (K Units)

Global AMHS for Semiconductor production by Application production, value, CAGR,

2017-2028, (USD Million) & (K Units)

This reports profiles key players in the global AMHS for Semiconductor market based on the following parameters – headquarters, production locations, products portfolio, AMHS for Semiconductor revenue, sales, average price and gross margin, recent developments.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AMHS for Semiconductor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2017-2028 by year with 2021 as the base year, 2022 as the estimate year, and 2028 as the forecast year.

Global AMHS for Semiconductor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Global AMHS for Semiconductor Market, Segmentation by Type

STK

OHT

OHS

RGV

AGV

Global AMHS for Semiconductor Market, Segmentation by Application

200mm Wafer Factory

300mm Wafer Factory

450mm Wafer Factory

Companies Profiled:

Daifuku

Murata Machinery

SFA Engineering Corporation

Mirle Automation

SMCore

Avaco

Key Questions Answered

1. How big is the global AMHS for Semiconductor market?

2. What is the demand of the global AMHS for Semiconductor market?
3. What is the year over year growth of the global AMHS for Semiconductor market?
4. What is the production and production value of the global AMHS for Semiconductor market?
5. Who are the key producers in the global AMHS for Semiconductor market?
6. What are the growth factors driving the market demand?

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