

# **Aehr Test Systems Fundamental Company Report Including Financial, SWOT, Competitors and Industry Analysis**

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## **Abstracts**

Aehr Test Systems Fundamental Company Report provides a complete overview of the company's affairs. All available data is presented in a comprehensive and easily accessed format. The report includes financial and SWOT information, industry analysis, opinions, estimates, plus annual and quarterly forecasts made by stock market experts. The report also enables direct comparison to be made between Aehr Test Systems and its competitors. This provides our Clients with a clear understanding of Aehr Test Systems position in the [Semiconductor](#) Industry.

The report contains detailed information about Aehr Test Systems that gives an unrivalled in-depth knowledge about internal business-environment of the company: data about the owners, senior executives, locations, subsidiaries, markets, products, and company history.

Another part of the report is a SWOT-analysis carried out for Aehr Test Systems. It involves specifying the objective of the company's business and identifies the different factors that are favorable and unfavorable to achieving that objective. SWOT-analysis helps to understand company's strengths, weaknesses, opportunities, and possible threats against it.

The Aehr Test Systems financial analysis covers the income statement and ratio trend-charts with balance sheets and cash flows presented on an annual and quarterly basis. The report outlines the main financial ratios pertaining to profitability, margin analysis, asset turnover, credit ratios, and company's long-

term solvency. This sort of company's information will assist and strengthen your company's decision-making processes.

In the part that describes Aehr Test Systems competitors and the industry in whole, the information about company's financial ratios is compared to those of its competitors and to the industry. The unique analysis of the market and company's competitors along with detailed information about the internal and external factors affecting the relevant industry will help to manage your business environment. Your company's business and sales activities will be boosted by gaining an insight into your competitors' businesses.

Also the report provides relevant news, an analysis of PR-activity, and stock price movements. The latter are correlated with pertinent news and press releases, and annual and quarterly forecasts are given by a variety of experts and market research firms. Such information creates your awareness about principal trends of Aehr Test Systems business.

## **About Aehr Test Systems**

Aehr Test Systems designs, engineers, and manufactures test and burn-in equipment used in the semiconductor industry. The company's principal products are the Advanced Burn-In and Test System (ABTS), the FOX full wafer contact system, the MAX burn-in system, the MTX massively parallel test system, the DiePak carrier, and test fixtures.

### **Full Wafer Contact Systems**

The FOX-1 full wafer parallel test system is designed for massively parallel test in wafer sort. The FOX-1 system is designed to make electrical contact to and test the die on a wafer in a single touchdown. The FOX-1 test head and WaferPak contactor provide wafer handling and alignment automation for the FOX-1 system. The FOX-1 pattern generator is designed to functionally test memories, such as flash and dynamic random access memories (DRAMs), plus it is optimized to test memory or logic ICs that incorporate design for testability (DFT) and built-in self-test (BIST). The FOX-1 pin electronics and per-device power supplies are tailored to full-wafer functional test.

The FOX-15 full wafer contact test and burn-in system is designed for use with wafers that require test and burn-in times typically measured in hours. The FOX-15 is focused

on parallel testing and burning-in up to 15 wafers at a time. For applications, such as automotive, the FOX-15 system is a solution for producing tested and burned-in die for use in multi-chip packages.

The key component of the FOX systems is the patented WaferPak cartridge system. The WaferPak cartridge contains a full-wafer single-touchdown probe card which is removable from the system.

### Systems for Packaged Parts

Monitored burn-in and massively parallel test systems consist of various subsystems: pattern generation and test electronics, control software, network interface and environmental chamber. Massively parallel test systems include an algorithmic test pattern generator which allows them to duplicate most of the tests performed by a traditional memory tester.

The company's ABTS can test and burn-in memory, as well as both high-power logic and low-power logic devices. It can be configured to provide individual device temperature control for devices of approximately 50W and with approximately 320 I/O channels. ABTS systems can be configured for both monitored burn-in and massively parallel test applications.

The company's MAX3 system is designed for monitored burn-in of memory and logic devices. It has 96 channels, holds 64 burn-in boards, each of which may hold approximately 350 devices, resulting in a system capacity of approximately 22,400 devices. The MAX3 system is designed for low voltage ICs. The MAX3 also has extended stored test program capability for complete exercise and output monitoring of complex logic devices, such as digital signal processors. The output monitor feature allows the MAX3 to perform functional tests of devices and it also supports BIST or other scan features. It also offers the MAX4 system, which extends the MAX3 system to target devices that require voltage accuracy and higher current. It can provide approximately 227 amps of current per BIB position.

The MTX massively parallel test system processes various memory devices simultaneously, including flash memories, DRAMs, and other memories. The MTX system can perform various tests usually performed by traditional memory testers, including pattern sensitivity tests, functional tests, data retention tests, and refresh tests.

### Test Fixtures

The company sells, and licenses others to manufacture and sell, custom- designed test fixtures for its systems. The test fixtures include performance test boards (PTBs) for use with the MTX massively parallel test system and burn in boards (BIBs) for the MAX monitored burn-in system. These test fixtures hold the devices undergoing test or burn-in and electrically connect the devices under test to the system electronics.

The company's DiePak product line includes a family of reusable, temporary die carriers, and associated sockets that enable the test and burn-in of bare die using the same test and burn-in systems used for packaged ICs. DiePak carriers offer solutions for providing KGD for most types of ICs, including memory, microcontroller, and microprocessor devices. The DiePak carrier consists of an interconnect substrate, which provides an electrical connection between the die pads and the socket contacts, and a mechanical support system. The substrate is customized for each IC product. The DiePak carrier comes in different versions, designed to handle ICs ranging from 54 pin-count memories of approximately 320 pin-count microprocessors. It offers a 54/66 pin DiePak solution. The company has licensed or authorized various other companies to provide PTBs and MAX4 BIBs from which it receives royalties.

## Customers

The company markets and sells its products throughout the world to semiconductor manufacturers, semiconductor contract assemblers, electronics manufacturers, and burn-in and test service companies. Its major customers include Spansion Inc., Micronas Semiconductor Holding AG, and Texas Instruments Incorporated.

## Marketing and Sales

The company has sales and service operations in the United States, Japan, Germany, and Taiwan, and has a network of distributors and sales representatives in certain parts of the world.

## Competition

The company's competitors include Advantest Corporation; Verigy Ltd.; Matsushita Electric Industrial Co., Ltd.; Delta V Instruments, Incorporated; Dong-Il Corporation; Micro Control Company; FormFactor, Inc.; Micronics Japan Co., Ltd.; and Yamaichi Electronics Co., Ltd.

## History

Aehr Test Systems was founded in 1977.

The above Company Fundamental Report is a half-ready report and contents are subject to change.

It means that we have all necessary data in our database to prepare the report but need **2-3 days** to complete it. During this time we are also updating the report with respect to the current moment. So, you can get all the most recent data available for the same price. Please note that preparation of additional types of analyses requires extra time.

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The complete financial data is available for publicly traded companies.



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## ANALYSIS FEATURES

### SWOT Analysis

SWOT, which stands for Strengths, Weaknesses, Opportunities and Threats, is an analytical framework that identifies the internal and external factors that are favorable and unfavorable for a company.

### Enhanced SWOT Analysis

Enhanced SWOT is a 3×3 grid that arranges strengths, weaknesses, opportunities and threats into one scheme:

How to use the strengths to take advantage of the opportunities?

How to use the strengths to reduce likelihood and impact of the threats?

How to overcome the weaknesses that obstruct taking advantage of the opportunities?

How to overcome the weaknesses that can make the threats a reality?

Upon answering these questions a company can develop a project plan to improve its business performance.

### PESTEL Analysis

PESTEL (also termed as PESTLE) is an ideal tool to strategically analyze what influence different outside factors – political, economic, sociocultural, technological, environmental and legal – exert on a business to later chart its long term targets.

Being part of the external analysis when carrying out a strategic assessment or performing a market study, PESTEL gives an overview of diverse macro-environmental factors that any company should thoughtfully consider. By perceiving these outside environments, businesses can maximally benefit from the opportunities while minimizing the threats to the organization.

### Key Factors Examined by PESTEL Analysis:

**Political** – What opportunities and pressures are brought by political bodies and what is the degree of public regulations' impact on the business?

**Economic** – What economic policies, trends and structures are expected to affect the organization, what is this influence's degree?

**Sociological** – What cultural and societal aspects will work upon the demand for the business's products and operations?

**Technological** – What impact do the technological aspects, innovations, incentives and barriers have on the organization?

**Environmental** – What environmental and ecological facets, both locally and farther afield, are likely to predetermine the business?

**Legal** – What laws and legislation will exert influence on the style the business is carried out?

### **IFE, EFE, IE Matrices**

The Internal Factor Evaluation matrix (IFE matrix) is a strategic management tool helping audit or evaluate major weaknesses and strengths in a business's functional areas. In addition, IFE matrix serves as a basis for identifying and assessing relationships amongst those areas. The IFE matrix is utilised in strategy formulation.

The External Factor Evaluation matrix (EFE matrix) is a tool of strategic management that is typically utilised to assess current market conditions. It is an ideal instrument for visualising and prioritising the threats and opportunities a firm is facing.

The essential difference between the above mentioned matrices lies in the type of factors incorporated in the model; whilst the latter is engaged in internal factors, the former deals exceptionally with external factors – those exposed to social, political, economic, legal, etc. external forces.

Being a continuation of the EFE matrix and IFE matrix models, the Internal External matrix (IE matrix) rests upon an investigation of external and internal business factors

integrated into one suggestive model.

## **Porter Five Forces Analysis**

The Porter's five forces analysis studies the industry of operation and helps the company find new sources of competitive advantage. The analysis surveys an industry through five major questions:

What composes a threat of substitute products and services?

Is there a threat of new competitors entering the market?

What is the intensity of competitive rivalry?

How big is the bargaining power of buyers?

How significant is the bargaining power of suppliers?

## **VRIO Analysis**

VRIO stands for Value, Rarity, Imitability, Organization. This analysis helps to evaluate all company's resources and capabilities and bring them together into one aggregate table that includes:

Tangible resources

Financial

Physical

Technological

Organizational

Intangible resources

Human

Innovation and Creativity

Reputation

Organizational capabilities

The result of the analysis gives a clear picture of company's competitive and economic implications, answering the questions if the resources mentioned above are:

Valuable?

Rare?

Costly to imitate?

Organized properly?

## I would like to order

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