

# Taiwan Semiconductor Manufacturing Co. Ltd. Fundamental Company Report Including Financial, SWOT, Competitors and Industry Analysis

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## Abstracts

Taiwan Semiconductor Manufacturing Co. Ltd. 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 Taiwan Semiconductor Manufacturing Co. Ltd. and its competitors. This provides our Clients with a clear understanding of Taiwan Semiconductor Manufacturing Co. Ltd. position in the [Semiconductor](#) Industry.

The report contains detailed information about Taiwan Semiconductor Manufacturing Co. Ltd. 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 Taiwan Semiconductor Manufacturing Co. Ltd.. 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 Taiwan Semiconductor Manufacturing Co. Ltd. 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 Taiwan Semiconductor Manufacturing Co. Ltd. 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 Taiwan Semiconductor Manufacturing Co. Ltd. business.

### **About Taiwan Semiconductor Manufacturing Co. Ltd.**

Taiwan Semiconductor Manufacturing Company Limited, a foundry in the semiconductor industry, engages in the manufacture, sale, packaging, testing, and computer-aided designing of integrated circuits and other semiconductor devices and the manufacturing of masks.

The company offers a range of wafer fabrication processes, including processes to manufacture complementary metal oxide silicon (CMOS) logic, mixed-signal, radio frequency, embedded memory, BiCMOS mixed-signal, and other semiconductors. It also offers design, mask making, probing, testing, and assembly services.

#### **Foundry Services**

**Range of Services:** The company is able to accommodate customers with various needs at every stage of the overall foundry process.

**Fabrication Processes:** The company manufactures semiconductors using the complementary metal oxide silicon, CMOS, and BiCMOS processes. The BiCMOS process combines the high speed of the bipolar circuitry and the low power consumption and high density of the CMOS circuitry. The company uses the CMOS process to manufacture logic semiconductors, memory semiconductors, including static random access memory (SRAM), flash memory, mixed-signal/ radio frequency (RF) semiconductors, which combine analog and digital circuitry in a single semiconductor, micro-electro-mechanical-system (MEMS), which combines micrometer featured mechanical parts, analog and digital circuitry in a single semiconductor, and embedded memory semiconductors, which combine logic and memory in a single semiconductor. The BiCMOS process is used to make high-end mixed-signal and other types of semiconductors.

**Types of Semiconductors:** The company manufactures different types of semiconductors with different specific functions by changing the number and the combinations of conducting, insulating and semiconducting layers and by defining different patterns in which such layers are applied on the wafer. The following is a description of the main types of semiconductors that the company manufactures:

**Logic Semiconductors:** Logic semiconductors process digital data to control the operation of electronic systems. The major segment of the logic market, standard logic devices, includes microprocessors, microcontrollers, digital signal processors (DSP), graphic chips, and chip sets.

**Mixed-Signal/RF Semiconductors:** Analog/digital semiconductors combine analog and digital devices on a single semiconductor to process both analog and digital data. The company makes mixed-signal/RF semiconductors using both the CMOS and BiCMOS processes. It offers CMOS mixed-signal process down to the 40-nanometer Nexsys technology for manufacturing mixed-signal/RF semiconductors. The primary uses of mixed-signal/RF semiconductors are in hard disk drives, wireless communications equipment and network communications equipment, with those made with the BiCMOS process occupying the higher end of the mixed-signal/RF market.

**Memory Semiconductors:** Memory semiconductors, which are used in electronic systems to store data and program instructions, are classified as either volatile memories or nonvolatile memories. The company offers CMOS process for the manufacture of SRAM, embedded DRAM as volatile memories, and for the manufacture of flash memory and embedded flash as nonvolatile memories.

CMOS Image Sensor Semiconductors: Image sensors are primarily used in camera phone. The company is the foundry for the production of CMOS image sensors, characterized by technology features, including low dark current, high sensitivity, small pixel size and high dynamic range achieved through integration with mixed mode processes.

High Voltage Semiconductors: The company offers a range of high-voltage processes including high voltage CMOS (HVCMOS), bipolar-CMOS-DMOS (BCD), and ultra-high voltage technology (UHV) ranging from 5V to 700V, which are suitable for various panel-size display driver and power IC applications.

### Design and Technology Platforms

The company's technology platforms provide a foundation for design enablement. To further lower the design barrier for customer to design on its technologies, the company offers design support services to customers throu

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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## 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 3x3 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?

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