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Semiconductor Silicon Demand Forecast Tool

Part of the Semiconductor Manufacturing Service Area Package

A long-term view of silicon demand by both technology and wafers size. The methodology used in developing these silicon forecasts uses the identified market sizing revenue for over 180 applications within the 6 key semiconductor market segments.

Semiconductor Silicon Demand Forecast Tool
MSCD-101259

“Semiconductor demand will be driven by wireless, data center, automotive and industrial applications. Devices that are driving growth within industrial and automotive market segments use more mature 200 mm technology, as well as legacy manufacturing flows, whereas devices driving growth in wireless and data center will be 300 mm advanced technology.”

Chee-Seng Tan

Senior Research Analyst

OMDIA

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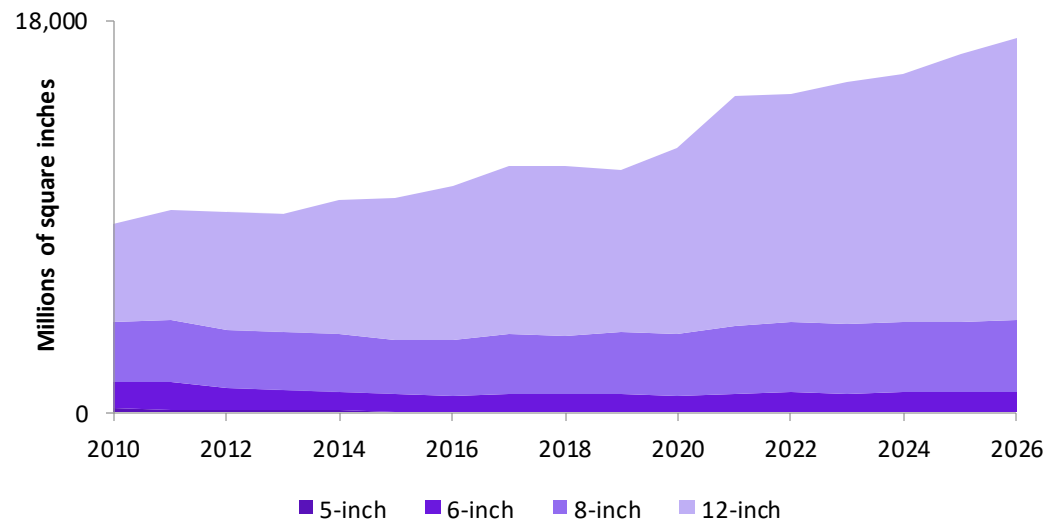
How Omdia Helps You

- Size the markets for semiconductor silicon
- Identify market sizing revenue for over 180 applications within the 6 key semiconductor market segments
- Identify multiple market models to investigate the technology required as well as the wafer sizes in demand
- Leverage forecasts to better understand this segment and your customers

Key Questions Addressed

- How much silicon will be required to support 300 mm manufacturing operations?
- How much silicon will be used for mature technologies?
- As the industry goes through its cycles of rapid growth followed by periods of slowing, what applications will continue to demand increased silicon capacity?
- What will the impact of technology transitions be for silicon manufacturers?
- What market applications are driving silicon consumption?
- What will be the impact of technology transitions for the equipment and material suppliers?

Semiconductor silicon demand by wafer size



Source: Omdia

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Semiconductor Manufacturing: Our Expert Analysts



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Silicon Demand: Market Data

Silicon Demand Forecast Tool : Quarterly

A subscription to this service, which is updated quarterly, includes market size and forecast database delivered in Excel and easy-to-use online tool and market analysis and trends report in PDF

Details	Coverage	Applicable to	Measures
<p>Frequency</p> <ul style="list-style-type: none">• Updated quarterly• Annual: 5-year forecasts• Historical data from 2000 <p>Measures</p> <ul style="list-style-type: none">• Revenue• Shipment• Capital (top-8suppliers)• Capacity (top-8suppliers) <p>Detail Level</p> <ul style="list-style-type: none">• Geometry• Wafer Size• Market• Submarket• Component• Device• Sub Device	<p>Technologies Covered</p> <ul style="list-style-type: none">• Discrete• Logic• Memory• Analog• Micro component• Sensors & actuators <p>Application Markets</p> <p>90+ applications within the major application markets of:</p> <ul style="list-style-type: none">• Automotive Electronics• Consumer Electronics• Data Processing• Industrial Electronics• Wired Communications• Wireless Communication	<p>Strategic Manufacturing Managers</p> <ul style="list-style-type: none">• Managers in charge of expanding capacity for IDM's and foundries• Managers responsible for purchasing equipment for IDM's and foundries• Controllers forecasting capital expenditures• Planners determining if wafer technology transitions will obsolete mature wafer sizes <p>Material Suppliers</p> <p>Equipment Manufacturers</p>	<p>Wafers</p> <ul style="list-style-type: none">• 4-inch• 5-inch• 6-inch• 8-inch• 12-inch <p>Technology</p> <ul style="list-style-type: none">• <=0.020 micron• 0.022 micron• 0.032 micron• 0.040 micron• 0.045 micron• 0.065 micron• 0.08 micron• 0.09 micron• 0.11 micron• 0.13 micron• 0.15 micron• 0.18 micron• 0.25 micron• 0.35 micron• >=0.50 micron

Related Content: Semiconductor Manufacturing Service Area Coverage

Service Area Package: **Semiconductor Manufacturing**

Global Semiconductor Manufacturing Market Tracker

Pure Play Foundry Market Tracker

Semiconductor Silicon Demand Forecast Tool

About Omdia's Semiconductor Manufacturing Research

World-class coverage of the Global Manufacturing suppliers. Omdia covers the entire manufacturing supply chain from raw material shipments into the semiconductor fabrication companies (Integrated Device Manufacturers & Pure Play Foundries) and provides in-depth analysis of the component manufacturers capabilities.

Omdia provides analysis of supply chain inventory and its impact on short-term manufacturing as well as capital expenditure analysis for long-term strategic equipment capacity planning.

Related Content: Semiconductor Service Area Coverage

SERVICE AREA PACKAGE			
Memory & Storage	Semiconductor Components	Semiconductor Manufacturing	Semiconductor Market
<ul style="list-style-type: none"> • DRAM Memory Intelligence Service • Mobile & Embedded Memory Intelligence Service • NAND Memory Intelligence Service • SSD & HDD Storage Memory Intelligence Service 	<ul style="list-style-type: none"> • Key Mobile Component Price Intelligence Service • LED Intelligence Service • Magnetic Sensors Report • MEMS & Sensors for Consumer & Mobile Intelligence Service • MEMS & Sensors Intelligence Service • Microcontroller Market Tracker • Optoelectronic Components Report • Power Semiconductor Intelligence Service • Processors for Graphics & Artificial Intelligence Market Tracker • Processors for Network Infrastructure Market Tracker • Processors Spotlight Service • System-on-Chip (SoC) Market Tracker 	<ul style="list-style-type: none"> • Global Semiconductor Manufacturing Market Tracker • Pure Play Foundry Market Tracker • Semiconductor Silicon Demand Forecast Tool 	<ul style="list-style-type: none"> • China Semiconductor Intelligence Service • Design Activity Tool • Industrial Semiconductor Intelligence Service • OEM Semiconductor Spend Tracker • OEM Semiconductor Spending & Design Activity Intelligence Service • Semiconductor Application Forecast AMFT Spotlight Service • Semiconductor Competitive Landscape CLT Spotlight Service • Semiconductor Forecast Scenario Tool

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Thank you

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