Market Share: Semiconductor Wafer Fab Equipment, Worldwide, 2021

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Initiatives: Technology Market Essentials

> Semiconductor wafer fab equipment (WFE) market grew by 42.3% to $92.3 billion in 2021, driven by continued strong investment in leading edge manufacturing capacity.

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Overview

*This document was republished on 26 April 2022. The document you are viewing is the corrected version. For more information, see the Corrections page on gartner.com.*Semiconductor wafer fab equipment market grew by 42.3% to $92.3 billion in 2021. This was driven by a combination of memory players that are on a recovery path after two slow years of investments and aggressive spending by leading-edge logic players responding to strong demand for multiple applications. Legacy or mature node capacity expansion by IDMs/foundries serving automotive and industrial sectors due to ongoing shortages also contributed to a strong WFE growth. In addition, China continues to invest in building a domestic chip ecosystem. Further, chip players across the globe try to expand fab capacity by leveraging government subsidies and long-term agreements/prepayments from clients, who are responding to new ways of establishing their supply chain in response to chip shortages.

ASML and KLA continue to enjoy dominant positions in lithography and process control, respectively. Applied Materials, Tokyo Electron (TEL) and Lam Research also posted growth across most segments. These five companies continue to dominate the WFE market with 73.4% market share.

Document Revision History

Market Share: Semiconductor Wafer Fab Equipment, Worldwide, 2020 - 7 April 2021

Market Share: Semiconductor Wafer Fab Equipment, Worldwide, 2019 - 14 April 2020

Market Share: Semiconductor Wafer Fab Equipment, Worldwide, 2018 - 24 April 2019

Market Share: Semiconductor Wafer Fab Equipment, Worldwide, 2017 - 18 April 2018

Market Share: Semiconductor Wafer Fab Equipment, Worldwide, 2016 - 30 March 2017

Market Share: Semiconductor Wafer-Level Manufacturing Equipment, Worldwide, 2015 - 31 March 2016

Market Share: Semiconductor Wafer-Level Manufacturing Equipment, Worldwide, 2014 - 6 April 2015

Market Share: Semiconductor Manufacturing Equipment, Worldwide, 2013 - 31 March 2014

Market Share: Semiconductor Manufacturing Equipment, Worldwide, 2012 - 4 April 2013

Market Share: Semiconductor Manufacturing Equipment, Worldwide, 2011 - 30 March 2012

Market Share: Semiconductor Equipment, Worldwide, 2010 - 30 March 2011

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Market Definitions and Methodology: Semiconductor Wafer Fab Equipment

Semiconductors and Electronics Forecast Database, Worldwide, 1Q22 Update

Market Share: Semiconductors by End Market, Worldwide, 2021