

Market Share: Semiconductor Wafer Fab Equipment, Worldwide, 2021

Published 7 April 2022 - ID G00765288 - 1 min read

By Analyst(s): Bob Johnson, Gaurav Gupta

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.

Table of Contents

1 Rank Report

2 Company Sheet: Total Market

3 Notes

4 Exchange Rates

List of Tables

1-1 All Companies Revenue From Shipments of Total Wafer Fab Equipment — Worldwide

2-1 Semiconductor Equipment Market Share Company Sheet, 2020-2021
4-1 Exchange Rates Used in This Report

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

Recommended by the Authors

Some documents may not be available as part of your current Gartner subscription.

[Market Definitions and Methodology: Semiconductor Wafer Fab Equipment](#)

[Semiconductors and Electronics Forecast Database, Worldwide, 1Q22 Update](#)

[Market Share: Semiconductors by End Market, Worldwide, 2021](#)

© 2022 Gartner, Inc. and/or its affiliates. All rights reserved. Gartner is a registered trademark of Gartner, Inc. and its affiliates. This publication may not be reproduced or distributed in any form without Gartner's prior written permission. It consists of the opinions of Gartner's research organization, which should not be construed as statements of fact. While the information contained in this publication has been obtained from sources believed to be reliable, Gartner disclaims all warranties as to the accuracy, completeness or adequacy of such information. Although Gartner research may address legal and financial issues, Gartner does not provide legal or investment advice and its research should not be construed or used as such. Your access and use of this publication are governed by [Gartner's Usage Policy](#). Gartner prides itself on its reputation for independence and objectivity. Its research is produced independently by its research organization without input or influence from any third party. For further information, see "[Guiding Principles on Independence and Objectivity](#)."