

Recap and Outlook for Worldwide Semiconductor Manufacturing Industry in 2023 (pre-order)

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Abstracts

In 2022, the global semiconductor foundry achieved a shipment value of US\$139.5 billion, representing a growth rate of 26.7% compared to 2021. Due to the Russia-Ukraine conflict, inflation, and COVID-19 lockdowns in China, the global economy experienced a sharp decline in consumer momentum since early 2022. This situation compelled the semiconductor supply chain to undergo inventory corrections in the second half of 2022, thus affecting the capacity utilization, revenue, and gross margin of the semiconductor foundry during this period. However, the semiconductor foundry maintained its growth momentum in the first half of 2022, thanks to semiconductor supply shortages from 2021. As a result, major wafer foundries continued to achieve double-digit percentage growth for the entire year. This report examines the overall developments in the semiconductor foundry industry in 2022, highlights the developmental trends of key industry players, including TSMC, UMC, SMIC, and GlobalFoundries, and offers insights into the future outlook of the semiconductor foundry industry.

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