

WORLDWIDE ASSEMBLY & TEST FACILITY DATABASE

FACILITIES • CERTIFICATION • CAPACITY • INVESTMENTS

The Worldwide Assembly & Test Facility Database provides a comprehensive view of global back-end operations - all major Integrated Device Manufacturers (IDMs) and Outsourced Semiconductor Assembly & Test (OSAT) facilities. As the industry adopts **heterogeneous integration, automotive packaging, and 2.5D/3D architectures**, accurate assembly and test capacity insight is increasingly critical. This resource provides comprehensive facility-level intelligence on the global semiconductor assembly and test industry, including **detailed company and site profiles, operating status, assembly, packaging & test capabilities, advanced packaging, device & material focus (including silicon and compound semiconductors), automotive certifications, substrate & interposer platforms, end-market focus, and other key facility attributes.**

Covering over 820 facilities worldwide, this edition includes OSAT revenue and CapEx rankings to support competitive benchmarking, supplier evaluation, supply chain risk management, capacity planning, and strategic sourcing.



GET REPORT PRICING



BENEFITS

- Risk Mitigation**
 Identify alternative suppliers, assess risks and reduce blind spots by sourcing 2nd & 3rd sources across diverse regions that match your technical needs.
- Supply Chain Optimization**
 Map global supply chains and validate suppliers' capabilities against independent facility-level data.
- Faster Qualification**
 Filter facilities by technology, region & operational maturity to speed up vendor research.
- Technology & Competitive Advantage**
 Track adoption of next-gen packaging and benchmark competitor capabilities across regions.
- Improved Strategic Planning**
 Guide investments, facility expansions and acquisition evaluations with key data on facility specialties and market trends.

METHODOLOGY

The database is developed through primary and secondary research conducted by TechSearch International and SEMI. Where possible, the research team contacts companies directly to validate and update facility information. Company websites, public disclosures, and other industry sources are also systematically reviewed to supplement and verify the collected data.

WORLDWIDE

ASSEMBLY & TEST FACILITY DATABASE

REPORT HIGHLIGHTS

Extensive Coverage & Regional Footprint

The database tracks 300+ companies and 820+ back-end facilities worldwide across China, Taiwan, Korea, Japan, Southeast Asia, Europe, and Americas, including:

- **OSAT Facilities:** 150+ in China, 130+ in Taiwan, 60+ in Southeast Asia.
- **IDM Assembly & Test Facilities:** 50+ in Southeast Asia, ~45 in China, nearly 20 in the Americas.
- **Unique Facility IDs:** For cross-referencing, along with start-year data to gauge operational history and technology ramp projections.

Device, Packaging Assembly Services and Packaging / Substrate Ability

- **Device Capability Tracking:** For memory, logic/analog, power, RF/MEMS, CMOS image-sensor.
- **Assembly Services Details:** Covering wafer-sort, final-test, BGA, QFP, QFN, SO, flip chip bumping, WLP, fan-out WLP, Modules/SiP.
- **Packaging and Substrate Capabilities:** Including laminate substrates, RDL, ceramic substrates, Si interposers, leadframes.

Plant-site Specializations

Identifies and tracks specialized technologies and capabilities such as TSV, RF, Cu Pillar, RDL, 2.5D/3D integration, automotive-grade certification, Si interposer, and more.



DOWNLOAD
SAMPLE
REPORT

APPLICABLE TO: Semiconductor manufacturing equipment and materials suppliers, IDMs, foundries, fabless companies, EDA providers, semiconductor IP companies, design & verification services providers, and other suppliers supporting the semiconductor design and manufacturing ecosystem. Market analysts, strategic and technical consulting firms, investors and investment banks. Executives, sales and marketing teams, business development professionals, supply chain managers, engineers, and strategic planning organizations.

MORE THAN
ONE USER?

mktstats@semi.org

REPORTS OF INTEREST

Explore our entire portfolio covering semiconductor manufacturing equipment, fab capacity and spending, wafer and packaging materials, and electronic design.



semi.org/marketdata

Copyright © 2026 SEMI*. All rights reserved. SEMI and semi.org are trademarks or registered trademarks of SEMI in the United States and other countries. All other company and product names are trademarks of their respective holders. Contents and specifications are subject to change without notice.