

Case Study

Delivering oversized semiconductor equipment in 24 hours

Safe, reliable logistics for high-value oversized semiconductor cargo

A major semiconductor original equipment manufacturer (OEM) had to ship high-value, sensitive semiconductor production equipment internationally by road and air within an extremely tight timeframe. They relied on Kuehne+Nagel for secure, efficient, and effective logistical solutions for every stage of the journey.





Successfully transporting 23,000 kg of high-value semiconductor oversized cargo internationally in 24 hours

The demand for increasingly more powerful and complex semiconductors is skyrocketing. New fabs are being built across the globe, creating an urgent need for next-generation tools.

For the semiconductor industry, it's never been more important to have efficient, reliable, safe, and cost-effective logistics.

Kuehne+Nagel has specialised solutions for the safe and timely transport of all shipment scopes and types for the semiconductor supply chain.

No matter how sensitive the cargo, how tight the timeframe, or how complex the journey, our team makes the supply chain reliable and resilient.

The mission Ship semicon equipment from Germany to Singapore in a single day

Oversized and extremely sensitive, the semicon equipment required highly specialised transportation and handling at every stage of the journey.

Although there was some lead-up time available, the shipment itself needed to go from origin to destination within one day.

But the manufacturer was struggling to find logistics partners that could access the appropriate specialised equipment and obtain the required permits within the timeframe.

The challenge

Safely transport highly sensitive oversized cargo

The cargo consisted of 18 crates with a combined weight of 23,000 kilograms, including one crate that stood three metres high and weighed 8,000 kilograms. To guarantee safe transport, our team had to arrange:

- Permits for moving oversized or heavy cargo on German roads and a detailed route plan for approval by the authorities.
- A haulage company with the proper commercial licenses for oversized cargo.
- Customs declarations, transportation permits, and export licenses in Europe and Asia.
- End-to-end documentation for compliance and insurance standards.
- An air-ride, temperature-controlled, and stable environment for the cargo.
- Trained, semiconductor-approved handling teams conducting thorough inspections and detailed reports at every touchpoint.

The project required a highly coordinated international logistics plan, including specialised ground and air freight and customised handling procedures.

The solution

Our worldwide network of semicon experts

Being able to access shared expertise and solutions across borders enabled our team to overcome the numerous challenges. We were able to arrange:

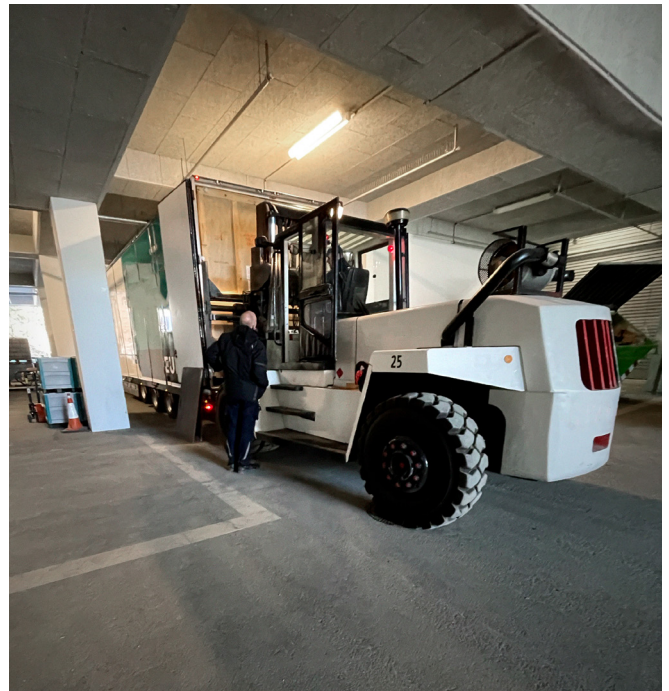
- Vetted trucking partner with semicon-approved, air-ride equipment.
- All required road permits secured within tight timelines.
- Real-time GPS, temperature, and humidity tracking.
- Early customs clearance and destination support in Singapore.
- Shock and tilt indicators to monitor cargo safety in transit.

The result

Safe, timely delivery within 24 hours

The experience, determination, and dedication of our multi-national team ensured the shipment arrived on time and in perfect condition.

As well as proving our ability to safely ship highly valuable oversized semiconductor cargo, this project showcases the power of international teamwork, specialised knowledge, and decisive action.



Kuehne+Nagel combines global expertise, precision, and initiative to provide logistics solutions custom-designed to fit the needs of the semiconductor industry.



Contact our semicon specialists now to ensure your next critical shipment is in the best possible hands.

About us

Kuehne+Nagel is about making logistics work smarter for our customers. With a global network and deep industry expertise, we help businesses navigate complexity and unlock growth through reliable, digital services, advanced technologies and data-driven insights.

As the logistics partner of choice for companies worldwide, we deliver tailored, end-to-end supply chain solutions across Air, Sea, Road, and Contract Logistics.

Discover the future of logistics.

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