

Semiconductor

Transporting a Purion Implanter System



The mission was not an easy task: a fab needed to have a Perion Implanter System shipped all the way from Boston to Dublin.

Case study

Transporting a Purion Implanter System

Used for ion implantation into semiconductor wafers, the Purion Implanter System is a large piece of equipment that had to be housed in 18 oversized, top-heavy crates. To ensure they arrived in top condition, these crates needed to be carefully transported without being subjected to any sudden shocks or tilting.

Specialized vehicles and equipment had to be used at every stage of the journey. Transporting the equipment from pick-up to the air carrier's facility could only be done using a specialized air-ride enclosed roller bed truck/trailer. For the flight the implanter system safely required a freighter aircraft equipped with custom-built main deck ULDs (unit load devices). Once underway, the shipment would need close monitoring at every logistical milestone to ensure it stayed in pristine condition.

For the semiconductor company, the stakes were high. Even a minor shipping delay could disrupt the fab's tight production schedule. The slightest amount of damage to the shipment could make it ineffective, leading to significant financial losses in terms of expenditure. The company needed a logistics service they knew could handle such a complex project.

Engineering a workable solution

Thanks to an extensive network and specialized semicon expertise, Kuehne+Nagel was able to ensure the efficient and safe transport of the Purion Implanter System. From the beginning of the shipment's journey to the very end, our expert team was able to overcome every logistical challenge.

Transport to and from the air carrier's facility at pick up and arrival was arranged with a Kuehne+Nagel semicon-approved, verified overland trucking company using the appropriate equipment. Trained Kuehne+Nagel staff supervised loading at the shipper site and were there to oversee the safe handover at the airport. All routing was carried out using a semicon-approved air-carrier via a commercial B747 freighter aircraft.

The condition of the shipment was confirmed at the destination by our personnel and photos and checklists were uploaded to the Kuehne+Nagel digital app. The customer was able to continuously view transport documents and track transit milestones in real-time using the myKN app.

Delivery to the Fab was scheduled and executed by our Semicon-Chain team at the destination and the Purion Implanter System was delivered on time, in superb condition, and in accordance with every stipulation laid down by the client.

