



CASE STUDY NO 65

Global Packing Centre

- Full Turnkey Delivery
- Principal Designer and Principal Contractor
- Complex HVAC system
- Grade D Packing Line
- Norwood's Partitioning Solution

The ultimate phase of a new-build and refurbishment project for AstraZeneca was the design, installation and commissioning of a state-of-the-art packing facility. All delivered to the Client's critical success factors including zero disruption to 'Business as Usual'.

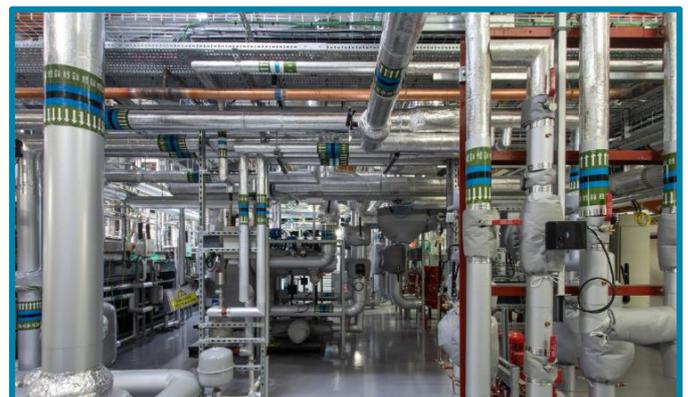
The completion of the first two project phases – a new environmentally controlled High Bay Warehouse and GMP upgrades to existing Low Bay accommodation – enabled stock to be relocated which freed up the 8000m² footprint required for the construction of the new, highly specified, Packing Facility.

Nine GMP Grade D packing cells (with future provision for additional lines) were required, each of which required strict temperature, humidity and pressure control to enable primary packing of pharmaceuticals in a clean environment with no risk of contamination. Each of these Primary Packing cells connects to a common, secondary packing area.

To deliver the environmental requirements and pressure regimes in the packing cells, the BES team designed an HVAC system with eight air handling units, located on a new mezzanine plant deck. To accommodate the increased structural loading of the plant deck and equipment the slab was replaced and fully tied into the existing structure.

We designed the building services routes aligned to the operational layout of the building to ensure pressure temperature and humidity controls are optimised for packing locations. Here too, a sophisticated EMS system monitors the facility. Additional capacity has been provided within the HVAC system to maintain the environmental conditions in the event of plant failure. To maintain a clean environment within each of the packing cells, the BES team specified Norwood metal-faced partitions throughout, while half-height glazed partitions have been installed in the secondary packing area to support an open plan feeling.

The finished project provides a storage, packing and logistics infrastructure to support future growth at AstraZeneca's Macclesfield site.



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Exceeding Expectations



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