

CASE STUDY



Alba Manufacturing recently collaborated with Greenbridge, a trusted systems integration partner and OEM (Original Equipment Manufacturer) of strapping and wrapping machines, to deliver a customized material handling system for the final packaging of scroll compressors used in both commercial and residential air conditioning systems.

Backstory

The project required a conveyor system to transport pallets of manually palletized scroll compressors from a pack-out area to a downstream strapping and wrapping line. The system needed to handle loads up to 2,700 lb. and accommodate two different types of pallets – a 4-way double-winged pallet and a larger CHEP-style pallet.

Key Challenge

The primary challenge in the application was to maintain accessibility to the manual packing area. The redesign ensured that this area remained fully accessible by avoiding the installation of a permanent conveyor line. This was crucial to enable the retrieval of components and pallets from this area during occasional line stoppages, without any obstructions.

Solution

Alba collaborated with Greenbridge to address the project needs by supplying six Chain-Driven Live Roller (CDLR) Conveyors for manual palletizing. To streamline the movement of finished pallet loads from the manual palletizing area to further processing stages, Alba implemented a double conveyor top Transfer Car. This transfer car efficiently transported the pallets to another downstream conveyor line using a Drag Chain Conveyor, also provided by Alba. This downstream conveyor facilitated the movement of pallets through two Greenbridge strapping machines and subsequently to a wrapping station, ensuring a seamless flow of operations.

