

System Profile

- Plate Palletizing Cell

Integrated Systems, Inc. designed and built a dual robot plate palletizing cell for Georgia-Pacific – Ft. Smith. The system requirements were the palletization of bags of paper plates using trays, slipsheets, pallets and a transfer cart to take the load to a stretchwrapper.

The system uses two 6-axis robots, each tending a production line. Several custom components were designed to handle unique challenges. A “plate compressor” is used to compress the stacks of plates to a defined height compensating for the size difference caused by changes in temperature and humidity.

A hinged, dual-jawed EOAT is required to pick two bags at a time to meet rate requirements. The hinge action allows the placement of one bag at a time meeting the need to turn the plates face-out on the pallet. The robot also picks trays from tray formers and topsheets without an EOAT change. Pallet feeders provide pallets to the system and a transfer cart removes loads to a stretchwrapper.



ABB Products

- (2) IRB 6600 robots

Integrated Content

- Customized PLC/Touchscreen PC controls
- Plate Compressors
- Hinged dual-jaw gripper with pneumatic device for trays and topsheets
- Pallet feeders
- Transfer Cart

Customer Benefits

- Reduction in manpower
- Elimination of ergonomic issues
- Cycle time improvement