

Semi-Automated Over and Under System



APPLICATION:

An Airfloat customer required a system that could handle two incoming empty containers while an operator loaded containers at a workstation. The system also had to support two outgoing containers.

SOLUTION:

Airfloat designed and manufactured an Over and Under Conveyor System. This unit allowed empty containers to come in on the bottom level, where operators can manually release containers onto the workstation for loading. The workstation is equipped with a lift and rotate unit to allow the operator to ergonomically position the load. The containers are filled, then lifted to the top outgoing conveyor and automatically transferred out. An internal friction roll-on brake slows the container for maximum control and safety.

BENEFITS:

- Systems are completely pneumatic/hydraulic (no electrical hookups).
- Hydraulic pilot operated lock on cylinder to prevent sudden descent of lift should any hydraulic line leak occur
- Roll retarder on upper conveyor to control container speed
- Lock out valve that prevents lift or container transfer if work platform is not in place
- Container transfers are air released so that any loss in the plant air supply prevents container movements.
- 30 deg. pneumatic tilt platform at operator workstation