

// Case Study



AIRBAG LIFTS PROVIDE CLEAN POWER

A food processing company installs an airbag-actuated work station lift and turntable combination to provide a clean (fluid-free) method of improving ergonomics and efficiency at a pallet build-up and break-down station.

The Challenge

A major food processor needed to improve their pallet build-up and break-down process by adding a material lift that would meet the following criteria: 1) improve work station ergonomics, 2) increase throughput, 3) be fluid-free (so as to not contaminate the product being handled), and 4) needs to be portable – to be used at more than one work station.



The Autoquip Solution

Pallet build-up and/or break-down work stations are benefited most from a solution that provides the operator incremental adjustments in both elevation and in rotation. A standard pneumatic airbag lift was recommended because the application required contamination-free actuation/operation, and because precise positioning was not necessary.

The lift needed only to provide approximate adjustments in elevation in order to always keep the top layer of product being loaded/unloaded at an optimum, ergonomic work height. The ability to rotate the pallet is also critical in order to minimize walking around the pallet during build-up/break-down. Autoquip also designed the lift base with fork “pockets” in order for the unit to be easily relocated and positioned between work stations by a fork truck, walkie, or pallet jack. The customer now has a cost-effective solution to their palletizing challenges. Relocation is simple and no electricity is required, just standard shop air supply.

Lift Specifications for this Unique Application:

- Turntable Model: SR4-48-40
- Lift/Turn Capacity: 4,000 lbs • Vertical Travel: 24”
- Degrees of Rotation: 360
- Turntable Platform: 48” x 48”
- Actuation: Pneumatic (Lift)

Solution Benefits

Through the use of this clean, cost-efficient pneumatic lift with manual turntable, the pallet build-up/break-down task has been made more ergonomic and productive, and can be readily moved between several work stations.

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