

Special Duty Hydraulic Scissor Lift for Sub Zero Work Environment



The Challenge

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) be able to withstand operating temperatures to -25 degrees F 3) needs to be able to transport loads between inside and outside of freezer.

The Autoquip Solution

A hydraulic lift with low-medium lifting capacity and ergonomic range of vertical travel was recommended as the most cost-efficient method of providing adjustments in elevation that keep the product at an optimum, ergonomic work height during pallet build-up and/or break-down activities. In order to operate properly in a sub-zero work environment, the hydraulic lift was modified slightly with special duty cylinder seals and a special fluid in the hydraulic circuit that was 1) compatible with the extremely low temperatures, 2) non-toxic and approved for use when in contact with food packaging.

In addition, Autoquip also recommended that the lift be supplied with casters and a towing handle, making it easy to transport a loaded lift between the freezer and the loading dock area. The customer is completely satisfied with this work station lift and worker safety and productivity has been improved as a result of keeping the work within the ergonomic “power zone” of each of the packaging/loading dock personnel.

Lift Specifications for this Application:



Lifting Capacity: 4,000 lbs.

Vertical Travel: 36"

Platform: 30" x 48"

Actuation: Hydraulic with special duty, food-grade oil

The Solution Benefits

Through the use of this modified hydraulic lift, this freezer-duty pallet build-up/break-down task is now more ergonomic and productive, and the lift can be safely transported while supporting a load.