

// CASE STUDY



// Basket Tilters Bring Castings Closer

Truck hardware manufacturer installs an ergonomic basket tilter to decrease work-related back injuries and improve productivity during the parts assembly process.

The Challenge

Powerbrace Corporation challenged themselves to reduce employee exposure to lower back injury due to excessive bending and reaching during the manual material handling tasks associated with assembling truck hardware components. Employees had to reach into baskets of small parts during assembly, and as the basket emptied, employees had to bend and reach further down to retrieve the parts – typically with knees locked and using only their lower back for lifting strength. Ideally, a solution was required to incrementally adjust both vertical position and degree of tilt of a work platform to ergonomically “fit” a wide variety of employee heights and reaches – dramatically reducing bending and reaching motions associated with component part retrieval during the assembly process.



The Autoquip Solution

Because the customer wanted to be able to adjust the vertical position and angular position independently from one another, the Autoquip technical sales representative recommended a solution in which a hydraulic tilter was attached to the top of a hydraulic lift table. This design approach provides the widest range of adjustability and operator control over the baskets being positioned for part retrieval. Separate foot-operated controls allow the operator “hands-free” control of the material handling equipment as he/she performs assembly tasks. Fork trucks deliver and pick up baskets of various size to this work station tilter - depending on the style of truck hardware being assembled at the time. Operators then control the height and position of the load depending on the basket style and component part size/orientation. A tilter “lip” at the front of the tilter platform was sized according to customer requirements (determined by basket style and height) – to provide load stability during the tilting process.

Specifications for this Tilter Application: • Tilter Model: STE45-40-5 • Platform Size: 50” x 50” • Tilter Capacity: 4,000 lbs • Vertical Travel: 24” • Degrees of Tilt: 45 degrees • Power Supply: 115VAC • Actuation: Hydraulic

Solution Benefits

Through the addition of this lift and tilt combination, manual material handling tasks associated with retrieving parts from bins and baskets is now more ergonomic, reducing employee exposure to lower back injury and increasing work station efficiency.

// Request a Quote



With the largest selection of lifts, Autoquip can provide you with the lift you need. To request a quotation please click here.

REQUEST QUOTE

sales@autoquip.com

// Have a Question?



NEED HELP? 877-360-6777

Autoquip is ready to answer your questions and assist you.

CONTACT SALES

sales@autoquip.com

- [Air & Pneumatic Lifts](#)
- [Bascule Bridges](#)
- [Custom Lifts](#)
- [Dock Lifts](#)
- [Freight Lifts \(VRC\)](#)

- [High Capacity Lifts](#)
- [High Travel Lifts](#)
- [Hydraulic Lifts](#)
- [Mechanical Lifts](#)
- [Scissor Lift Tables](#)

- [Tilters](#)
- [Turn Tables](#)
- [Vertical Ram Lifts](#)
- [Work Platform Lifts](#)

American Lifts is Autoquip's premium brand of lift products. Autoquip manufactures and supports the complete line of this robust line. For all your system and high cycle requirements look to [American Lifts](#).

[Terms of Use](#) [Privacy Statement](#) [Site Map](#)

© 2011 Autoquip Corporation. All rights reserved. If you have a special requirement, contact Autoquip at sales@autoquip.com or call toll-free 877-360-6777.