



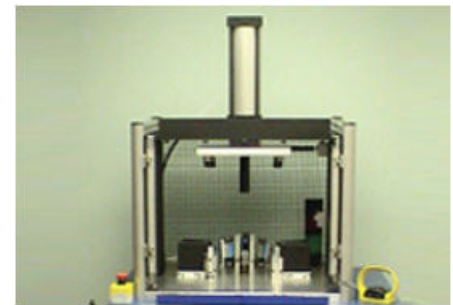
Compact Lift Table Design Eliminates External Guides, Reducing Contamination and Cycle Time

Challenge:

A customer in the automotive industry built four custom machines that install and inspect clips, while cutting off gates/flash from the molded parts. This design included a problematic external guiding system that was susceptible to contaminants, took up too much space, and was expensive to design. They had a commitment to process 250,000 parts per year, and needed a solution that could meet this goal while eliminating the problems they were experiencing.

Solution:

Bimba provided them a solution that accomplished everything they were looking for in one clean package. It included a mounting surface for their plate, guided motion, and sensing capability built right onto the actuator. A Bimba/TRD Triple Rod cylinder was used to provide guided motion in a 4 inch bore actuator, with the least overall profile. This led to a compact design that was able to fit right under their existing fixture, and eliminated the bulky external guiding system. This design reduced the cycle time by 10% to 5.5 seconds and delivers 100% quality.



Benefits:

- **Cut cycle time by 10%.**
- **Built in sensing capability.**
- **Guided system eliminates external guides, reducing contamination.**

Other Applications:

- **Ergonomic Positioning of Products/Equipment**
- **Material Handling**
- **Palletizing**
- **Conveyor Lift**