



Solutions Shop Automotive

Other Applications:

- > Lift Table
- > Palletizing
- > Assembly Line



Adjustable Axle Lifting System Provides 10% Cost Savings

Challenge:

A trailer axle sub assembly requiring seven different heights needed a robust, yet simple and cost effective, semi-automatic system to replace a manual screw jack. The design also needed to be telescopic in nature to provide a total travel distance that was longer than the total overall length that the cylinder could be.

Solution:

Bimba engineered a telescoping, multiple positioning system that is operated by one Mead directional control valve. One set of TRD NFPA tie-rod cylinders allows the system to drop below the conveyor so that each assembly may pass. A set of Bimba Original Line cylinders along with a set of stroke limiter spacers and stop blocks provide semi-automatic variable positioning.

The stopper cylinder positions the sub assembly at the correct location for engagement with the multiple positioning system.

This was a cost effective solution versus PLC and electronically controlled positioning, saving the customer 10%. The user friendly design improved yield, enhanced safety, and reduced maintenance on the machine.

Benefits:

- > Saves 10% vs. PLC and electronically controlled positioning.
- > Low maintenance/higher yield process.
- > User friendly design provides enhanced safety.

For further information:

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