

# Bimba Manufacturing

## Beyond Actuation



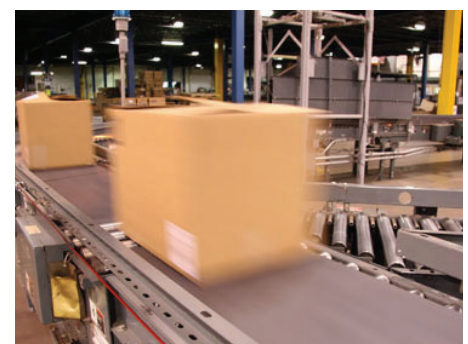
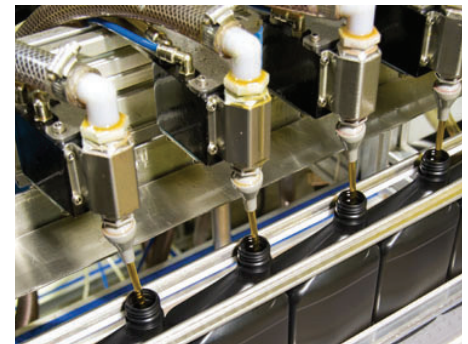
Bimba Manufacturing exists to provide cutting-edge solutions to engineering challenges. While other companies walk away when off-the-shelf products don't meet customer needs, Bimba will do whatever it takes to develop a solution. Nearly half of our business consists of these custom and semi-custom products designed for specific customers with unique applications.

### MEDICAL

- **Pneumatic Foot Pedal**  
Bimba developed an easy-to-operate pneumatic foot pedal that sent a precise amount of air to a dispenser head with a simple press of the pedal.
- **Original Line Twist Clamp**  
Bimba combined the proven original line technology with the long lasting Twist Clamp design in order to provide the customer an automated way to clean contamination build up from a sensor eye.
- **Lift Table**  
Bimba developed a low-profile lift table with outstanding rigidity and minimal height to move a cross slide into position.
- **Pinch Valve**  
A manufacturer needed an automated way to control the flow of fluids in dialysis equipment. Using the Original Line technology, Bimba developed a cylinder that precisely controlled the flow of fluids by pinching a tube when extended.

### PACKAGING

- **Plastic Fluid Valve**  
A bottling company needed a longer-lasting actuation alternative. Bimba was able to develop a solution that provided faster delivery, lower cost and utilized proven technology to produce a longer-lasting product.
- **All-Plastic Cylinder**  
A customer needed a longer-lasting solution for dispensing paint. Bimba provided an all stainless steel, non-corrosive air operated valve to deliver better sealing in a more compact package.
- **Mold Lock Actuator**  
In a molding application, a customer needed tighter tolerance for the locking assembly. Bimba developed a unique actuator designed to lock onto a mating lug and hold the two halves of a mold together.
- **Vacuum Cylinder**  
The vacuum cylinder simplifies the pneumatic circuit by providing sequential actuation all from a single vacuum generator.



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Throughout its **50 YEAR HISTORY**,  
Bimba has embraced the idea of  
**PROVIDING SOLUTIONS.**

- Tom Carlson, Bimba Specials

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## Bimba Solution Shop (continued)

### PRINTING

- **Automated Glue Dispenser**  
A laminating company came to Bimba with the need to develop a glue dispensing system. Bimba took the time to learn the exact application, which was occurring manually at the time, and proposed a very unique and cost effective solution.
- **Filter**  
A printer was using three separate components to filter printing chemicals. Bimba was able to consolidate the filter, orifice and check valve into one compact package.
- **Mult-Motion Actuator**  
A printer needed a way to automate the heavy plate changing process. Bimba developed a multi-motion actuator to lift and rotate the plate 90°.
- **Spline Cylinder**  
For a labeling application, a printer needed to extend a part with very little rotation in a tight space. Bimba modified its original line construction, including a spline within the cylinder to keep it from rotating.

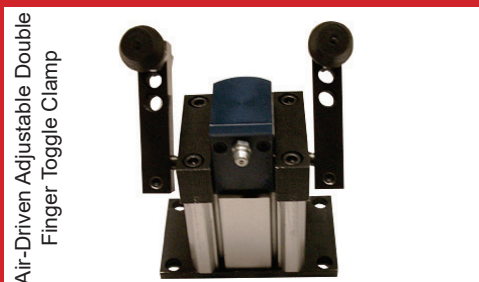
### SEMI CONDUCTOR

- **High Load Class 10 Ultram**  
A semiconductor customer needed a high load actuator to meet class 10 clean room requirements. Bimba modified a High Load Ultram cylinder that eliminated contact between the carriage and cylinder body.
- **All-Plastic Cylinder**  
A customer desired an all-plastic cylinder for their semiconductor application in order to withstand the harsh environment of hydrochloric acid fumes used for surface cleaning. This all-plastic cylinder delivered superior chemical resistance, while maintaining the excellent life and rugged wear characteristic of a Bimba Original Line Cylinder.

### WINDOW AND DOORS

- **Air-Driven Adjustable Double Finger Toggle Clamp**  
A window frame manufacturer needed a way to hold multiple boards in a fastening application, without using multiple manual toggle clamps. Bimba developed a cylinder to provide "1-stop locking" using pneumatics.

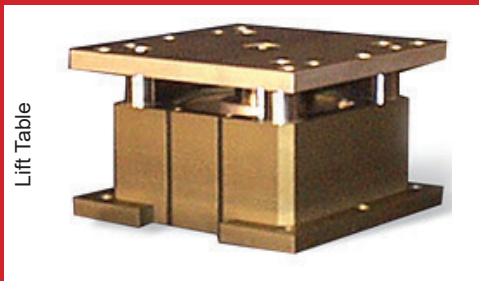
# SOLUTIONS



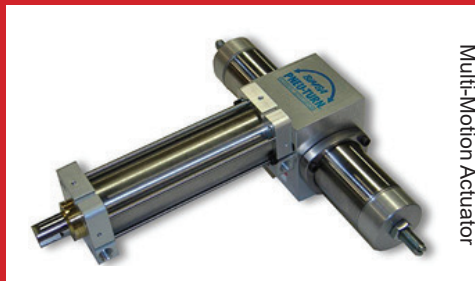
Air-Driven Adjustable Double Finger Toggle Clamp



Mold Lock Actuator



Lift Table



Multi-Motion Actuator

## Why choose Bimba Specials?

### CUTTING-EDGE SOLUTIONS

Bimba has proven experience in an ever-expanding variety of industries with an impressive breadth of applications. From chemical filters for the printing industry to lift tables for the medical industry and everything in between, Bimba has the knowledge, experience and drive to tackle our customers' most perplexing engineering challenges.

### COMPLETE SYSTEMS SOLUTIONS

Solutions run the gamut from improving machine performance, increasing throughput, adding value or decreasing cost, providing improved ergonomics or safety, and even improving eco-friendliness.

### 50 YEARS OF HISTORY

Throughout its over 50 year history, Bimba has embraced the idea of providing solutions. In fact, the original Bimba design, the non-repairable or 'Original Line', was a solution for a customer who could not afford the amount of down-time needed to repair tie-rod cylinders. At Bimba, that solutions-providing mindset lives on. Today, more than ever, meeting the challenges that OEMs and MROs face on a regular basis to keep up with their changing markets and needs is Bimba's top priority.

### LIBRARY OF SOLUTIONS

In an effort to share ideas, Bimba has developed a library of many of its solutions. Visit [www.bimba.com/solutionsshop](http://www.bimba.com/solutionsshop) to read a number of solutions shared and stories told that help to inspire the innovative thought needed to think 'Beyond Actuation.'



*John Henry Foster (JHFoster) is a leading distributor and service provider for automation and compressed air systems. Our mission is to assist companies like yours automate their manufacturing applications to make the process a positive journey. We are committed to providing successful solutions that exceed production demands, reduce costs, and increase overall efficiencies.*

*Headquartered in Eagan, MN, with a location in Fargo, ND, we also offer a fully-equipped team of mobile technicians that provide service to the 5-state area. Contact us today at 800.582.5162 or [jhfooster.com](http://jhfooster.com) to learn more about how you might benefit from knowing us.*