



Automated Glue Dispenser Generates Higher Production Yield

Challenge:

A laminating company needed to develop an automated glue dispensing system that would glue an 8 ft long corrugated piece of plastic onto a flat, smooth piece of plastic. This required 48 dabs of glue, or 1 dab every 2 inches across, to be applied uniformly and simultaneously. With the plastic sheet being fed continuously, the glue would be dispensed automatically after every 2 inches of feed. After rejecting a costly robotic solution, they decided to look for something more cost efficient.

Solution:

Bimba developed a maintenance free cylinder that would dispense glue when the rod retracts. Glue is continuously fed to the cylinder using a 9 ft long reservoir with 48 mounting locations, or one for each glue dispensing cylinder. The reservoir simplified the glue supply to each cylinder and was also sized to hold enough glue for a full shift of work. Pressurizing the reservoir made each dab of glue consistent from one to the next. Vertical motion required to raise and lower the cylinders when dispensing the glue was accomplished using Bimba's standard Flat-1 cylinders.



Benefits:

- **Cost effective pneumatic solution saves thousands of dollars compared to alternative robotic solution.**
- **Automated process results in glue dab consistency, leading to higher yield.**

Other Applications:

- **Fluid Filling/Dispensing**
- **Sealing/Adhesion**
- **Hole Punching**



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