

Application Information

Paper Bag Making Machinery

Electro Cam Corp. PL μ S Programmable Limit Switches are often used on paper bag making machinery to increase production and quality!

Machine Description

Typically, a paper bag making machine takes paper off a large roll, then folds the paper to create a multi-wall structure. The side seam of the paper is then glued, creating a paper tube from which the bag is formed. A series of cutters and slitters prepare the bottom of the bag for folding and gluing, and cut the bag to length. Two types of bottoms can be created with this machinery: a square bottom for stand-up bags or a fold-over seam for side-stack bags.

Common Problems

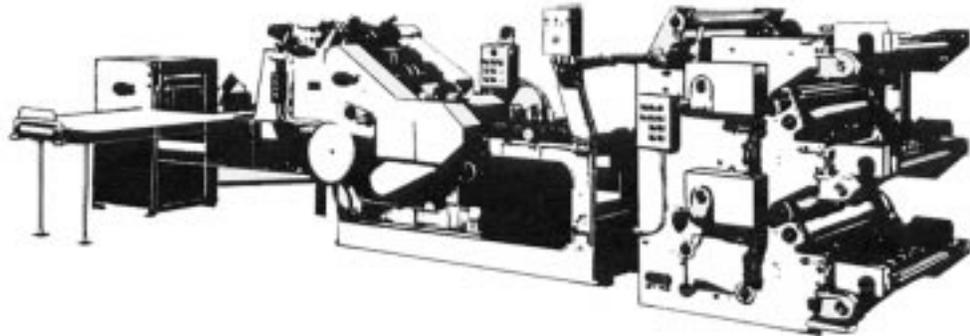
Original paper bag making machinery used a cold rolled glue process to seal the side and bottom of the bag. Cold glue has a reputation for being a strong bonding adhesive, but it takes a long time to set. Two problems encountered when using cold rolled glue are bags that don't set up fast enough to withstand the stacking process, and seams that come open.

Electro Cam's Solution!

Retrofitting the cold adhesive process to hot melt, and using the Electro Cam PL μ S to control the adhesive patterns has traditionally corrected the open seam problems, and allowed increased machine speed resulting in more bags per minute.

The built-in features of the Electro Cam Corp. PL μ S Control provide all the necessary functionality to handle all applications of an integrated hot melt system:

- Multiple outputs controlling a multiple head die allow versatility in bag patterns.
- Multiple programs allow quick and easy changeover from one bag size and pattern to another.
- The ability to take inputs from sensors (photoeyes) to ensure "bag present" prevents gluing if a bag is not present, or is not positioned correctly on the drum. It also prevents adhesive being misapplied to the drum (resulting in time consuming cleanup).
- Speed compensation and motion detection features can be implemented to ensure that hot melt patterns are always applied in the proper place on the bag, and are only applied when machine speed is at a desired rate.



The use of the Electro Cam Corp. PL μ S Controller and multiple glue heads allows for precise bead placement to ensure quality and security, along with considerable savings in adhesive costs.

For assistance with your application, please contact the factory.