

Successful Solution

Registration Feed to Length

July 23, 2008

Auxillary Functions: I/O with PC, Photo eye

Issues / Problems / Challenges

- Existing supplier cannot meet throughput specs - Need accurate positioning after registration
- Move adjustments on-the-fly Ability to vary maximum part length

Servo:

Controller:

Controller Software: MotionWorks IEC Feed to Length Solution Solution Code: Sigma III (SGDS)

Solution

MP2300Siec

Performance Achieved: Throughput: 120 per minute at 9.5" pitch Accuracy: +/- 0.01mm placement

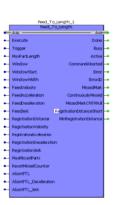
Customer Information

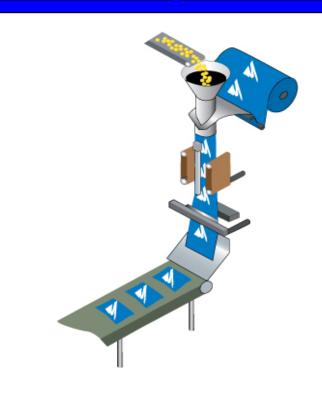
Industry: Packaging Feed to Length Application: Vertical Form Fill Seal











Application Description:

This OEM makes a variety of equipment to serve the packaging industry. This application is a vertical form fill and seal machine used to make bags. Film for the bags is fed in by the servo film drive. A registration mark on the film is detected by a photo eye. The registration mark position on the film drive is latched by the high speed I/O of the film drive. Based on the position of the registration mark a calculation is made in the control program to adjust the move of the film drive such that the film is stopped at a certain distance from where the registration occurred. When the film drive has stopped, the cut axis is activated to seal the packet and cut the bag. After the cut is made, the film drive repeats its registration-based move.

Differentiating Solution Features	Resulting Solution Benefits
- Prewritten Solution Template	 Proven Core Code reduces commisioning time, reduces project risk, and improves performance
- High speed position registration latch	- Greater range of product sizes, higher throughput
- Mechatronics control capability	- Single control solution for motion and I/O saves money and cabinet space

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