

Using the Model 1100 for an Automated Bow Bagging Machine

Eason Products Used:

Model 1100-M02

Complimentary Products:

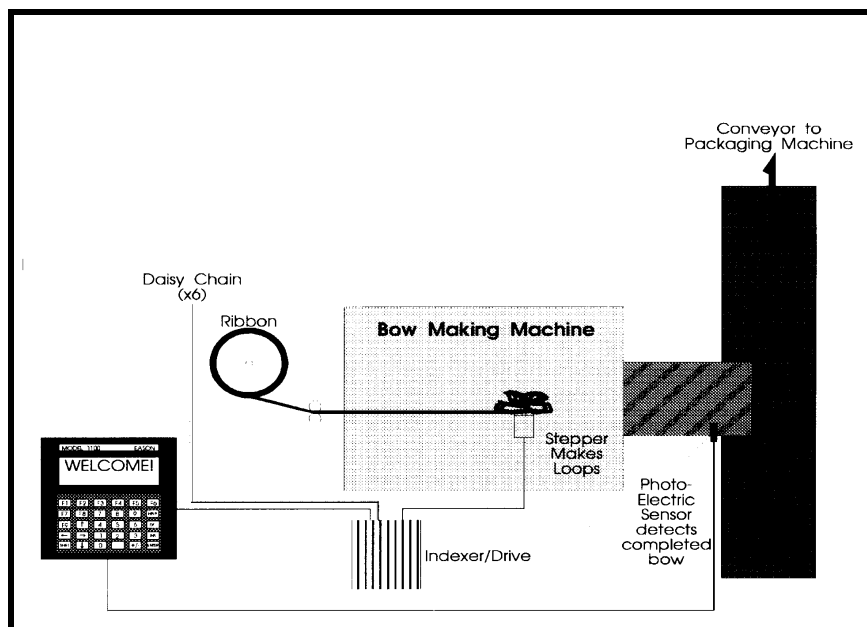
Compumotor SX stepper indexer/drives

Application Background:

A giftwrap manufacturer wants to collate his gift bows. Currently, a large number of machines make a certain number of red, green, blue, gold, etc. bows. These bows are then thrown into a large hopper and packaged. One bag may easily contain a disproportionate number of one color. This is obviously a poor manufacturing technique.

Machine Objectives & Motion Requirements:

- To be able to reliably specify a number of each color for each bag.
- To detect that the machine has made a bow.
- To log production history.
- To be able to vary the length of ribbon and number of loops by changing the motion control program (this specifies bow type.)



Eason Solution:

The bows are set up by manufacturing in groups of six (i.e., two red, two green, one gold, and 1 blue.) The operator chooses the desired bow style (number of loops and length of each loop,) then the 1100 computes the distance and loop count data for the SXs. The 1100 then downloads the proper X-code motion commands. In addition, the 1100 keeps track of the bag count, style count, and shift production data.

Eason Benefits:

With the Model 1100's English language menu driven capabilities, operators could train new employees in minutes. The I/O can be used for part verification, the serial port easily controls the stepper indexer/drives, and the Model 1100's memory provides for instant information for the production supervisor. All objectives were met!

Submitted by:

Name Withheld by Request