



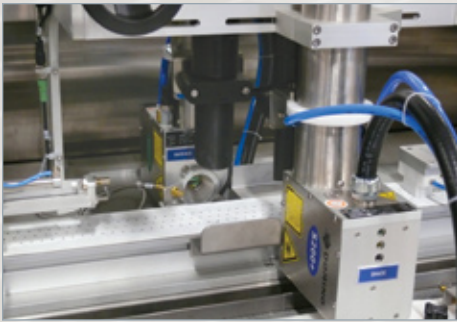
1. Infeed pick and place



2. Discharge pick and place



3. Vision inspection and reject



4. Domino laser



5. Two opposing laser heads



6. Optional laser controller location

Laser Printing and Coding Carton Handling

Project Brief

Product exits the automatic horizontal cartoning machine and transfers onto the Farason rubber belt bypass conveyor. When laser printing, the cartons are stopped at the infeed side of the bypass conveyor, where a two axis pick and place removes a group of cartons, changes their side-to-side pitch to add spacing between them, and places them down on a vacuum conveyor.

The vacuum conveyor holds the cartons securely while they pass one, two or three Domino S-Series laser heads, where side guide rails are removed to allow unobstructed access to the side surfaces (which in this orientation is the top and bottom of the carton).

Depending on customer requirements, text is burned into the carton panels via Domino S-Series Lasers equipped with DPX1500 Fume Extraction. In addition, a barcode is also burned into the carton surface. The vacuum conveyor operates such that laser application can be static or dynamic. Subsequent to laser printing, a second two axis pick and place removes cartons from the vacuum conveyor and places them back onto the bypass conveyor.

Cartons then pass under a Cognex Camera and Barcode reader for print and code confirmation. Rejected cartons are ejected via an air blast.

Machine Data

- Handles range of carton sizes
- Integrates with customer-specified laser
- Vacuum conveyor for stability
- Vision verification of printing
- Barcode reading

Standard Features

- Stainless steel construction
- Modular design
- Simple toolless change-over
- Allen Bradley CompactLogix PLC
- Allen Bradley PanelView Plus 1000
- Domino S-Series CO2 Lasers
- Cognex Checker 200 Camera
- Cognex DataVision 100 Barcode Reader

More Information

For more information on this, and many other Farason projects, please visit our website at www.farason.com or call us at (610) 383-6224.

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