

Pressure Sensitive Labeling

Application Overview

Pressure sensitive labelers are very flexible machines and are used in a variety of labeling applications and industries such as food and beverage, pharmaceutical, and many more. Their main purpose is to apply preprinted/pre-glued labels to products as they move at a continuous rate past the label head. The label applicator must accelerate to match velocity to the incoming product and then decelerate to a stop. The label applicator cycle time depends on the label size, the speed of the product, and the ability of the servo controller to match the product line speed without overshoot.

Application Requirements

Control & Connectivity

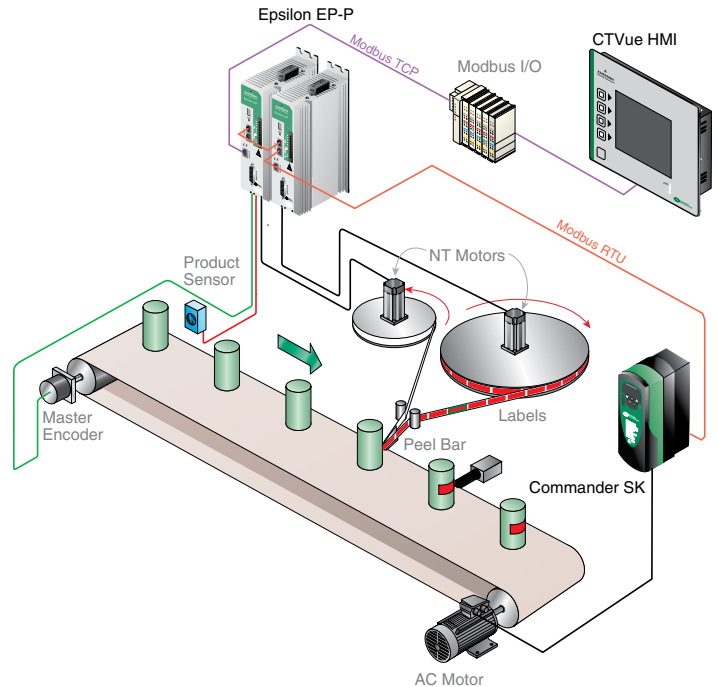
- Accurate label placement throughout speed range
- Speeds up to 1200 labels per minute
- Label Jog functions
- Dimple free labeling
- Ability to add promotional inserts
- Simplified control architecture

Protection

- Missing label detection and error handling
- Advanced machine diagnostics

System Costs

- Low cost high performance solution
- Short development times
- Low maintenance



Control Techniques' Solutions

Servo Drives and Motors, VFDs, and HMIs

- Build in Labeling Functions
- Advanced Control and Tuning Algorithms
- Rapid setup with intuitive software
- Multiple drive networking for distributed control
- Low inertia servo motors
- High quality and reliability



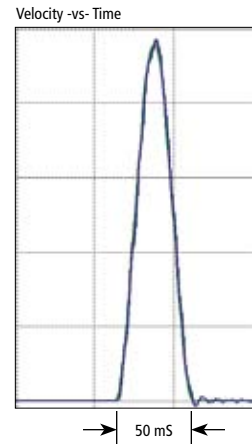
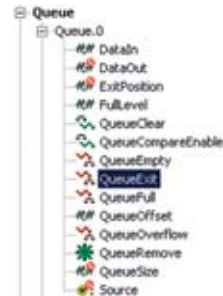
CONSIDER IT SOLVED™

Pressure Sensitive Labeling Solutions

Control Techniques' Performance Advantages

Built-in Labeling Functions

- High speed (1us) capture for accurate product detection at any speed
- Product queuing for higher throughput
- Synchronized Jog for manual label feed
- Event handling for high speed I/O transfers
- On board Programmable Limit Switches
- Virtual Master for smooth machine operation

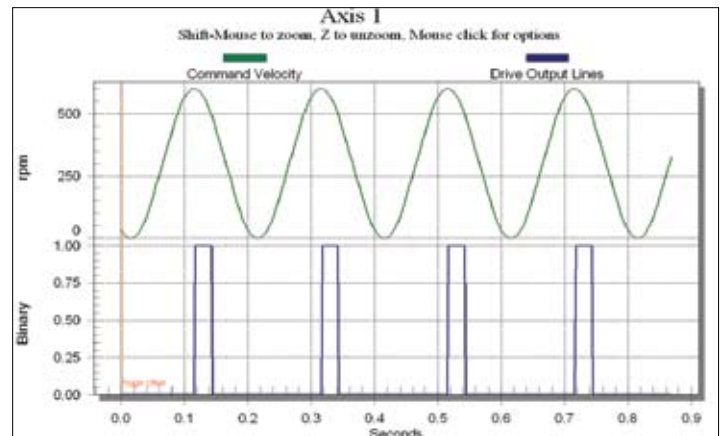


Advanced Control and Tuning

- State space control algorithm helps eliminate overshoot
- Adjustable gear ratio eliminate dimples
- High bandwidth control loop
- Stable over wide range of inertia mis-matches

Motion Made Easy Software

- Drag and Drop programming and setup
- Ready made software templates
- Advanced diagnostics and fault processing
- High speed graphing
- Free software



Distributed Control

- Eliminate or reduce the needs for costly PLCs
- Easily add I/O for total machine control
- Fast data transfers between Servo Drives, VFDs and HMI
- Low cost and easy to implement

World Class Products & Support

- Worldwide Application & Field Service Network
- 24/7 support line 1-800-893-2321



Compact Servo Drives

AC Drives

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