

## 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 in coming 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

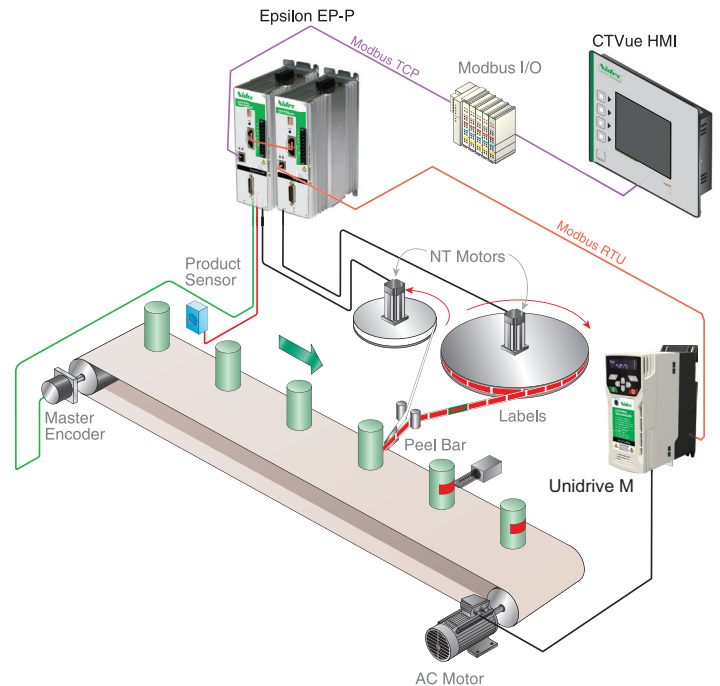
- Accurate label placement throughout speed range
- Speeds up to 1200 labels per minute
- Label Jog functions
- Dimple free labeling
- Ability to add promotional inserts
- Simplified control architecture

#### 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

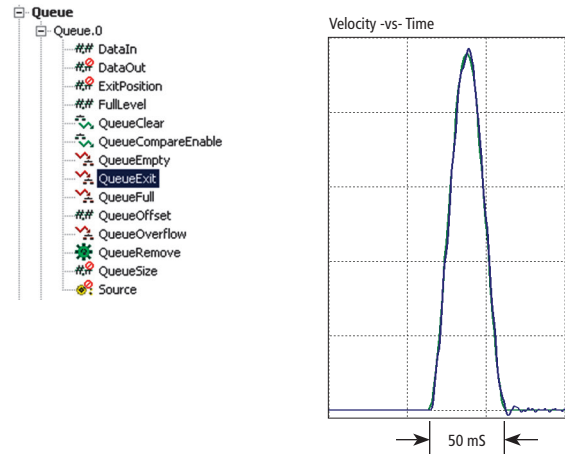
- Build in Labeling Functions
- Advanced Control and Tuning Algorithms
- Rapid setup with intuitive software
- Multiple drive networking for distributed control
- Low inertia servo motors
- High quality and reliability

# 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

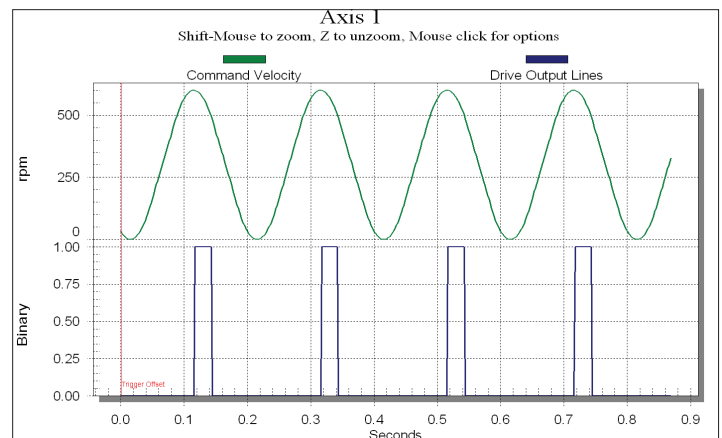


### Advanced Control and Tuning

- State space control algorithm helps eliminate overshoot
- Adjustable gear ratio eliminate dimples
- High bandwidth control loop
- Stable over wide range of inertia mismatches Motion Made Easy® software
- Drag and Drop programming and setup
- Ready made software templates
- Advanced diagnostics and fault processing
- High speed graphing
- Complimentary 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



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