PROMACH

PERFORMANCE, PACKAGED

EPI®

M2 LABEL APPLICATOR

MADE IN THE USA

L&C

LABELING & CODING

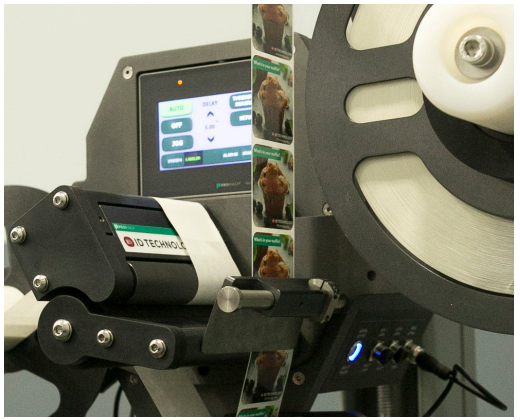
Introduction

THE M2: THE NEXT ADVANCEMENT OF THE HIGH SPEED LABELER APPLICATOR IN THE INDUSTRY

In developing the new M2 label applicator, the specialists at ID Technology took a deeper look into the needs of their customers that led to this new design.

The space to label is getting smaller by the day. With the M2's smaller footprint, this labeler can fit into those tighter spaces and provide better product tracking. The M2 has more accurate speed following and a higher speed capability allowing to address faster and more demanding applications.

Label it with Ease with the M2! Reducing Operating Costs, While Improving how the Labeler Works with your Packaging Line.



M2 Features

SIMPLICITY

Setting up and operating the M2 Label Applicator is simple and easy.

- Intuitive Operation - can be set up in minutes.
- Easy to integrate alarms, label sensors and more.
- Touch screen offers improved visibility with more control.
- 100 recipes with USB back-up, restore, and cloning options.

SERVICEABILITY

The M2 Label Applicator features modular design for maximum serviceability.

- All new controls completely onboard and protected.
- Module-based service in a matter of minutes.
- Fully connectorized inside and out.
- Quick drive roller change.

FLEXIBILITY

Regardless of your application or production environment, the M2 integrates seamlessly into existing production lines.

- Can be mounted in any orientation - top, bottom or side label application.
- Quick adjustments for maximum uptime.
- On board help for ease of use with alarms and flags for troubleshooting.

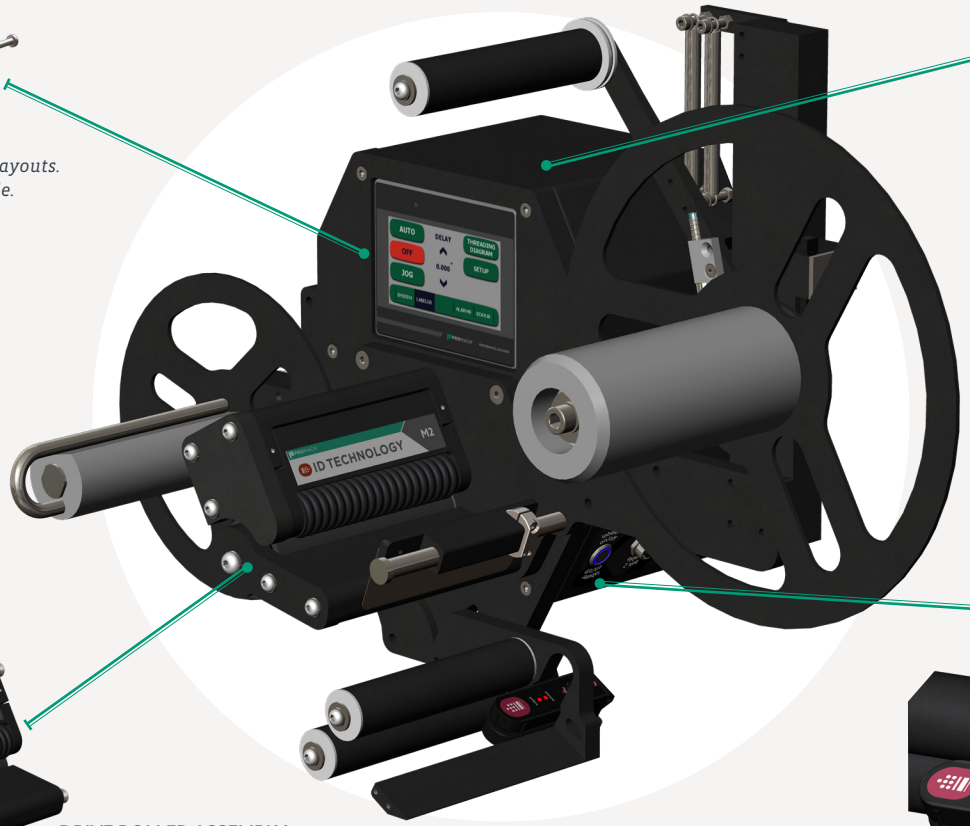
DURABILITY

M2 Label Applicator is versatile, durable and designed for ease of setup up and operation.

- Aluminum cabinet so the heat is quickly dissipated.
- New nip roller lever with high visibility and ease of operation.
- Ball bearing rollers for longer life and less tension on the system.
- Standard IP65 Certified as standard.

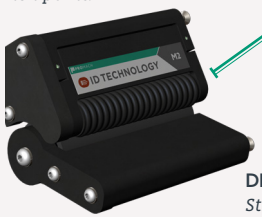
M2 Labeling Head Features

FACE MOUNTED HMI
Friendly & intuitive screen layouts. Remote HMI option available.



EMBEDDED CONTROLS
All new controls platform, completely onboard, space efficient, and module-based service. IP65 sealed for long life.

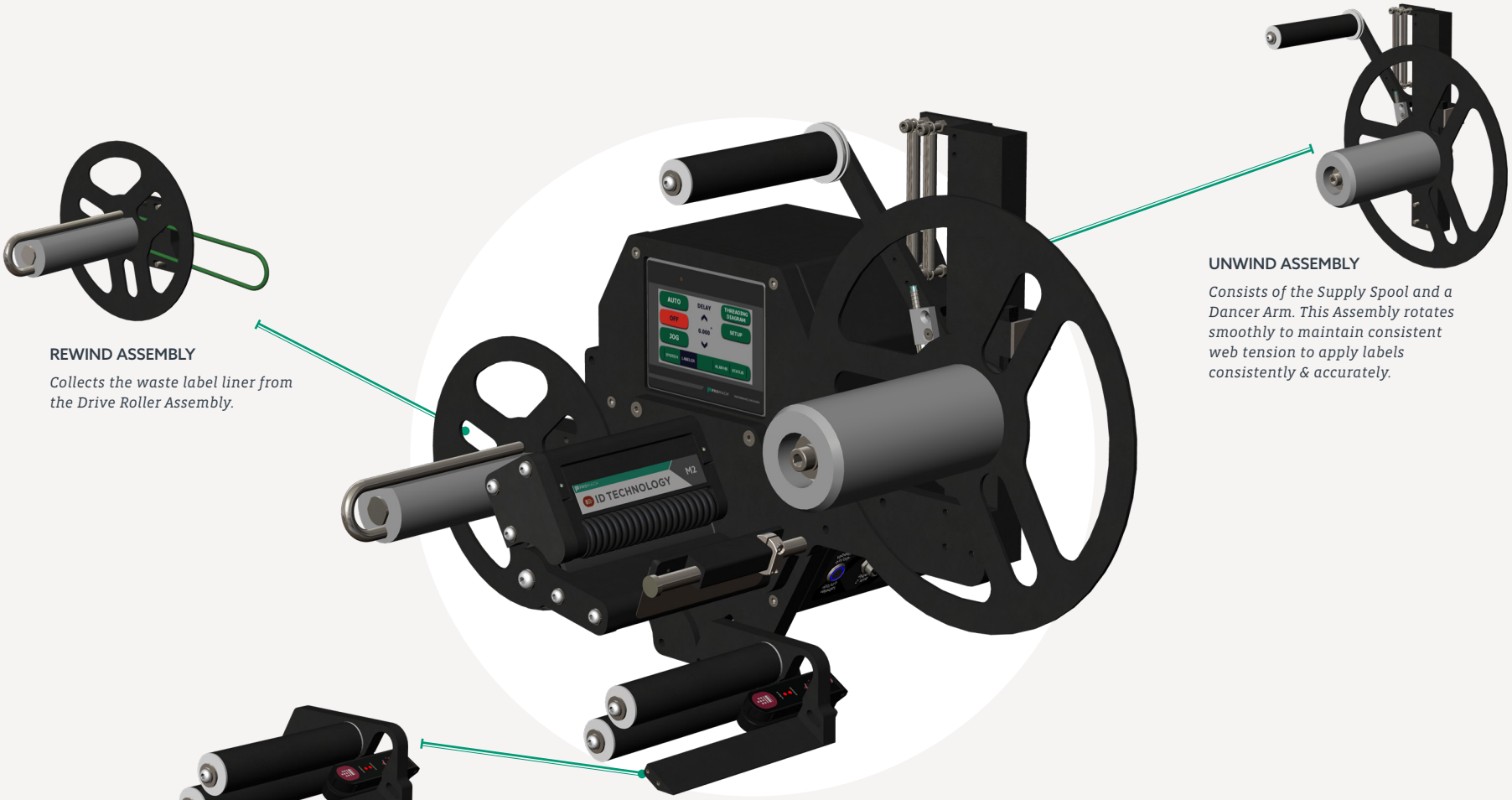
TENSION ROLLER ASSEMBLY
Easy to view, centralized nip open lever with magnetic "closed" position. Enclosed nip drive is safer than open nip drive designs, and eliminates a pinch point.



DRIVE ROLLER ASSEMBLY
Strong outboard supported design. Quick-change drive roller replacement. Fast side-load design. Safe enclosed nip drive design.

CONNECTORS
Available auxiliary sealed connectors for other devices. These connections can be used for printers, alarm packages, and other options.

M2 Labeling Head Features



REWIND ASSEMBLY

Collects the waste label liner from the Drive Roller Assembly.

UNWIND ASSEMBLY

Consists of the Supply Spool and a Dancer Arm. This Assembly rotates smoothly to maintain consistent web tension to apply labels consistently & accurately.

PEELER BAR

The radiused peel edge is what separates the self-adhesive label from the release liner as the web travels around the peel edge.

Quick-Change Modules

Control Module

- On-board control module that is quickly removed and replaced.
- State of the art ProMach Titanium motion controller.
- Fully sealed and IP65 standard.
- Packaged efficiently, M2 takes up minimal space on the production line.
- Aluminum construction for superior heat dissipation.
- Connections, cables, and accessories both inside and out are connectorized for rapid replacement & maximum uptime.
- Smart drive is the brains of the M2 labeler.
- Perfect encoder speed matching, with true lock and follow, to keep the speed matched throughout the label dispense.

Application Module

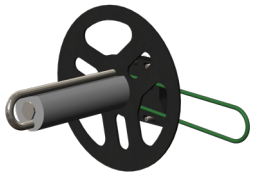
- Lower inertia rollers with low-friction ball bearings.
- New label sensor mount accommodates the standard label sensor and the optional ultrasonic clear label sensor with only changing the senor.

Drive & Nip (tension roller) Module

- Quick-change drive roller.
- The nip assembly is more guarded and protects the roller from accidental contact.
- The nip open lever is easier to operate and more pronounced when open.

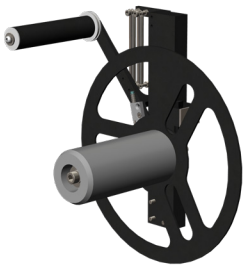
Motor Module

- High-torque 50-pole servo motor. Lock & follow encoder speed matching for high-accuracy label placement at varying speeds.
- Closed loop for superb accuracy and maximum efficiency.
- Standard configuration can run 1500 inches per minute. Faster dispense speeds available with optional rewind & unwinds modules.
- Direct drive, no gearboxes to wear out, or belt reductions to be maintained.
- Drive roller changes done in minutes with a tool-free coupling between the drive motor and rollers.



Rewind Module

- Slip-clutch version up to 1,500 ipm
- (Active) Clutch version for up to 2,000 ipm
- Motorized version (future) for even higher speeds.
- Collects the waste label liner from the drive roller assembly.



Unwind Module

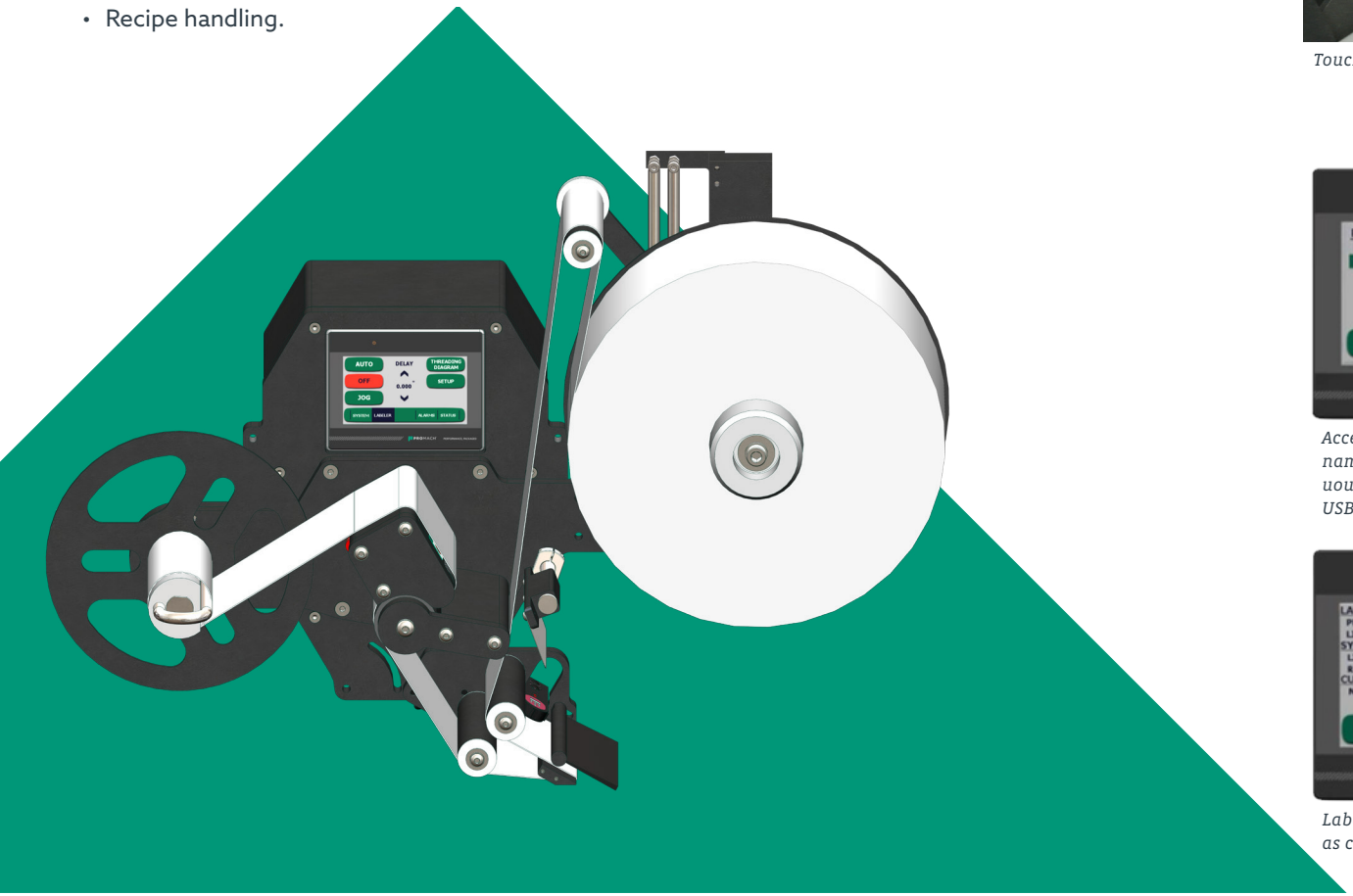
- Consists of the supply spool, dancer arm, and band brake.
- Maintains label web tension and prevents the unwind supply spool from overrunning.
- To apply labels consistently & accurately this module must rotate smoothly, maintain consistent web tension and not cause any jolts/ shocks.

Full Color HMI

The M2 Labeler now includes even more operator friendly features.

These include:

- Full Color HMI.
- Remote HMI Option.
- Product sensor filter (no false trigger).
- Drive slip / open detection warning on-screen.
- Detailed alarms and warnings.
- Friendly & intuitive screen layouts.
- Recipe handling.



Touch screen is user friendly.

Access to 100 recipes with complete name freedom. Recipes are continuously backed up to the included USB drive.

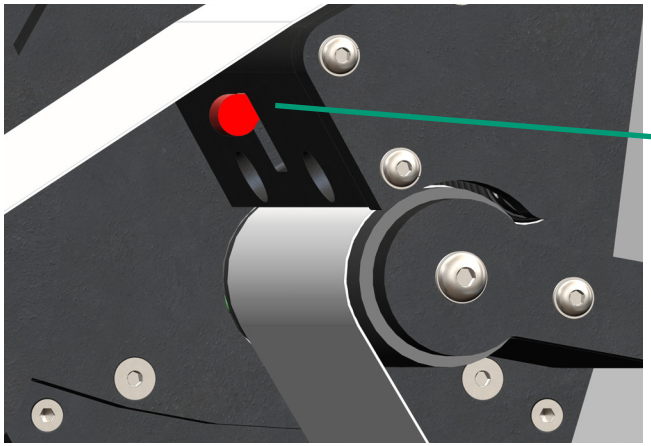
Labeler controls with auto, off, jog, threading diagram, setup, and delay.

Labeler counter and speeds as well as current recipe.

Multi label mode. On-board help for every setting and function by clickong on the "?".

Web Drive Assembly and Connectors

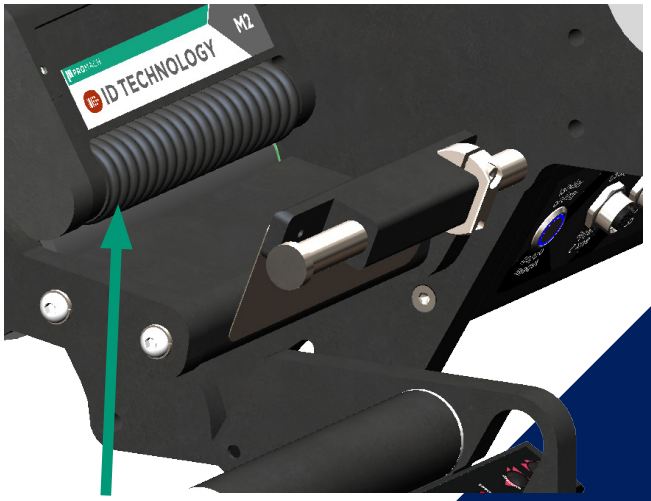
New nip lever design is easy and convenient to operate, and features instant visual indication of opened or closed position. The tension roller applies force against the rubberized drive roller to create a slip-free nip drive to advance the label web thorough the M2 labeler. The ribbed tension roller removes issues with liner slippage by creating more contact points to positively drive the label liner. Also, as the drive roller starts to wear, this ribbed roller reaches deeper into the worn portion of the drive roller to maintain high-grip. The label web tension brake is easily opened and closed by a quick push and turn, and the open design allows labels to be replaced with a quick and convenient side-load design. The M2 has no fan or cooling holes, it is IP65 rated, and uses sealed quick-disconnect cables. These include two auxiliary connectors for integration with other machines or PLCs, via status and control I/O signals.



Nip Drive (Closed)

Nip Drive (Open)

Quick & Convenient Open/Close Web Tension Brake



High-Grip Ribbed Nip Roller

IP65 Rated with Sealed Quick-Disconnect Cables

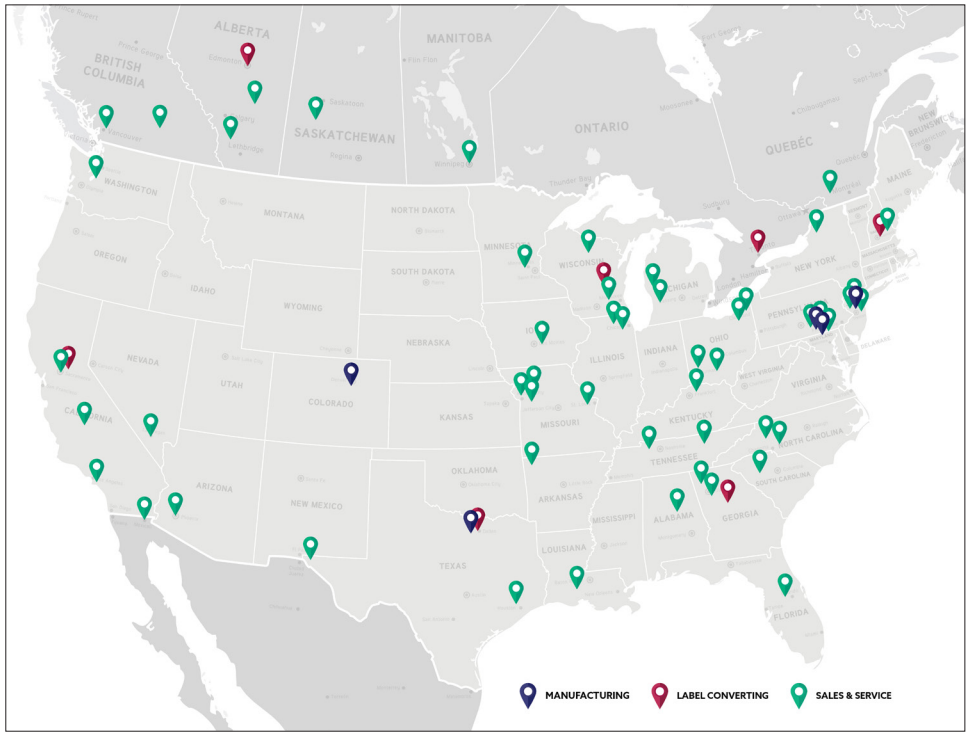
Contact Information

EPI engineers and manufactures pressure-sensitive labeling systems that apply primary, secondary, and reclosable labels to numerous types of packaging.

EPI also provides our customers with multiple separate label converting plant locations across North America to efficiently and quickly produce quality labels and tags.

As part of the ProMach Labeling & Coding business line, ID Technology, EPI, Panther, Greydon, and Code Tech help our packaging customers protect and grow the reputation and trust of their consumers.

ProMach is performance, and the proof is in every package.



EPI

1145 East Wellspring Rd.

New Freedom, PA 17349

800.755.8344

www.epilabelers.com

EPI@ProMachBuilt.com

Introduction 2
M2 Labeling Head Features 3
M2 Labeling Head Features 4
Quick-Change Modules 5
- Control Module 5
- Unwind Module 5
- Drive & Nip (tension roller) Module 5
- Motor Module 5
- Rewind Module 5
- Application Module 5

Full Color HMI 6
Web Drive Assembly and Connectors 7
Contact Information 8