

delta industrial

Web Converting & Packaging Systems

Home of the **delta MOD-TECH[®]**

Solution-based Web Converting, Packaging and Finishing Systems.

Delta offers engineering expertise in developing, building and integrating custom manufacturing solutions for a variety of complex parts. The Delta Mod-Tech[®] system is custom designed to meet your application requirements, improve your profitability, and reduce your risk.



Custom Delta Mod-Tech[®] System designed to meet your application requirements.

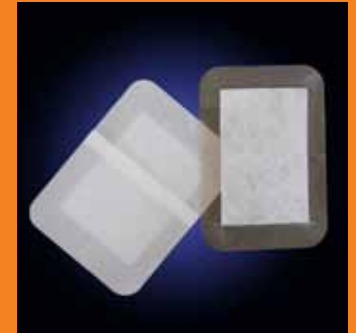
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Minneapolis, MN 55448
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Diagnostics and Point-of-Care Tests



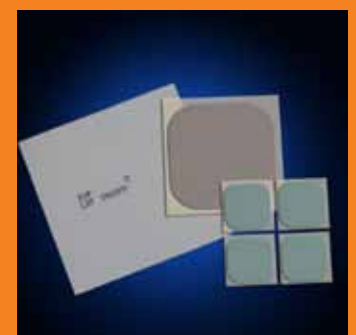
Wound Care



Labels, Security & RFID



Personal Care Products



Drug Delivery, Transdermals & Electrodes

Your Total Manufacturing Solution

Delta systems are unmatched in ease-of-use, registration capabilities, tension control and process flexibility. Custom systems are designed using the Delta Mod-Tech® toolbox of proven process modules. To complete the system, Delta designs, integrates and supports additional process modules to provide your total manufacturing solution.

Delta Mod-Tech® Modules are the starting point of all Delta designs and are the key factor allowing Delta to provide a one stop shop for converting and packaging solutions. Mod-Tech or Modular Technology allows Delta to provide sustainable machine designs and components that can change and grow with our customers. Our modular designs allow changeover in minutes, not days, and the ability to change between products and even industries.

Delta Industrial is no stranger to R&D, contract converting, and laboratory environments. Whether your focus is on packaging, converting, print finishing, or RFID, Delta will offer a flexible solution that will never collect dust. Delta can help eliminate extra equipment and even entire lines with one turnkey machine that provides sustainability and flexibility for the future.



CASE STUDY:

This custom Delta Mod-Tech® system was designed for a medical manufacturer, it included a variety of rotary cutting, unwind/rewind, nips, vision and placement modules as well as several integrated stations; a hot melt adhesive dispenser, a vibratory bowl part feeder and a custom engineered RF sealer. All integrated modules are part of the total manufacturing system, they are supported by the Delta HMI software and the Delta training/support staff.



Delta's Human Machine Interface (HMI) is easy to use and allows effortless control of all processes.

The HMI touch screen is used to setup, monitor, and run the machine. The touch screen features a graphic representation of the machine, allowing access to each module by simply touching the screen. The HMI also includes alarm monitoring, batch counters, user security settings, setup file loading/saving/backup, and help screens. Some optional HMI additions include CFR 21 Part 11 database, Vision Inspections, and integration with other system controls.

Process Set-up Recall is one of the most unique benefits of Delta's HMI software. This feature gives the operator the ability to recall prior process settings (recipes) making changeover from part to part quick and easy.



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Delta Capabilities Automation and Integration

Delta offers one-stop integration, taking full responsibility of integrated units.

The Delta Mod-Tech® web converting and packaging systems are extremely flexible and expandable manufacturing solutions. Each system is custom designed based on your current needs and your future wants.

Below is a sampling of Delta capabilities including proven Delta Mod-Tech® modules and integration suggestions. Other processes may be designed or integrated, please ask.

Precision Cutting Modules

- Closed Loop Die Cutting (used with Vision system)
- Digital Laser Cutting (Continuous or Intermittent)
- Island Placement
- Punch Press (Intermittent Cutting)
- Rotary Cutting
- Rotary Punch (male/female)
- Semi-Rotary Die Cutting
- Variable Depth Die Cutting

Unwind/Rewind Modules

- Tension Control
- Dancer
- Transducer
- Zero Tension Loop

Laminator/Sealing Modules

- Calendering
- Hot/Cold Foil
- Reciprocating Heat Seal
- RF Welding
- Rotary Heat Seal
- Rotary Lamination
- UV Cutting/Welding

Inspection Modules

- Continuity Testing
- Inspection Cameras with Integrated Vision Feedback
- Pin Hole Detecting
- RFID Read Write
- Thickness/Gauging

Printer Modules, Accessories

- Digital Printers
- Flexo Printers
- Inkjet Printers
- Pad Printers
- Rotary Screen Printers
- Thermal Transfer Printers

Dispensing

- Drug Fluid
- Hot Melt
- Powder
- Bowl Feeders
(Intermittent and Continuous Placement)

Placing Equipment

- Pick and Place
- Rotary Placement
- Island Placement
- Outsert/insert Placement

Conveyors

- Part Handling Conveyor
- Part Stacking Conveyor
- Reject Conveyor
- Shingling Conveyor

End of Packaging Modules

- Cartoners
- Case Packers

Miscellaneous Modules

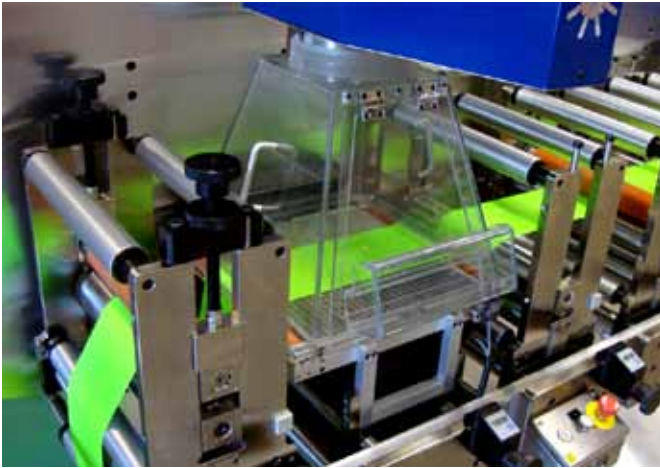
- Auto Splicers
- Chill Roll
- Clean Room Filtering Systems
- Corona Treatment
- Embossing
- Extruder
- Ionizing
- IR Web Dryers
- Laser Ablation
- Plasma Treatment
- Snap Placement
- Static Elimination
- Turret Rewinders
- UV Curing
- Web Cleaning

This Delta Mod-Tech® custom medical converting system runs in-line with a Delta Mod-Tech® reciprocating heat seal packager and a MGS sort/stack/carton unit. Bring us your application, we will design a custom solution.



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What would you do with your Delta Mod-Tech® ?



Edge™ Laser Technology



Vision



Die-cut and score



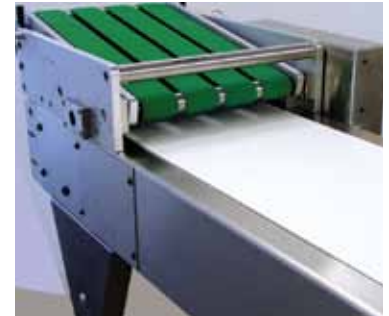
Slitting



Flexo Print



Stack/Sheet



Conveying



RFID



Island Placement



Heat-Seal Package



Punch



Spreading



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