

## Industry Overview

- Suture applications mainly include feeding of needles and filament, barb, loop, crimp (attach), weld, and package (winding)
- Surgical sutures and alternative wound closure methods (adhesives, staples, and sealants) are expected to grow at an accelerated rate. As such, demand for automating the production/packaging processes will increase rapidly



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Empowering Global Assembly



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Automated  
Suture  
Assembly &  
Packaging

## At A Glance

- 1000+ PPH capable
- 1 hr. autonomy period - no operators are required
- Automated changeover adjustments with electric actuation, reducing changeover time
- Completed and sellable product from start to finish, requiring minimal manual intervention
- Modular design allows customization to meet specific needs and future expansion

## Lanco Service

Pro-active Productivity Improvement through:

- Commissioning and Final Acceptance of machines at customer facilities, augmented with hands-on machine training
- Improved OEE facilitated by data management methodologies: Real-time production data is used to access a machine's performance and product quality trends to allow for remote diagnostics
- Preventative and Predictive Maintenance plans and spare parts lists
- On-demand service with technicians available for support within 24 hours of request, on-site or remotely

With DNA going back to 1873, Lanco has been advancing in the automation industry since 1984, expanding our design-build and integration experience and specializing in modular, expandable, powered, and free assembly systems.



### NEEDLE

- *Flexible feeding control to accommodate many different product types*
- *Vision-guided selection and acquisition of needles*
- *On-the-fly inspection for correct product type, gross quality check, and correct singulation*
- *No tool change is required to handle different sizes and types of needles*



### FILAMENT

- *Filament handling, de-reeling, cutting, heat tipping and barbing*
- *100% automatic barb inspection of pitch and geometry*
- *USP 1 to 4-0, 45-120 cm length*
- *Optional diameter confirmation and knot detection*
- *Absorbable or non-absorbable, mono-filament, and braided filament capabilities*



### ATTACH

- *Swaging style crimp, flexible to accomplish different pull-out forces and needle sizes*
- *Tight control of needle and filament in the joining process*
- *No funnel is required for joining filament to needle*
- *Swaging to different forces and distances, servo and recipe control*
- *Pull test and 360° vision inspection of each product to ensure joint quality*



### PACKAGE

- *Winding of Suture into a package, figure 8 or Racetrack format and needle placement*
- *Precise snap joining of package assembly together (if applicable)*
- *Printing of lot/batch and product code information*
- *Inspection of Product, outside dimensions, print characters, and snap completeness*