# **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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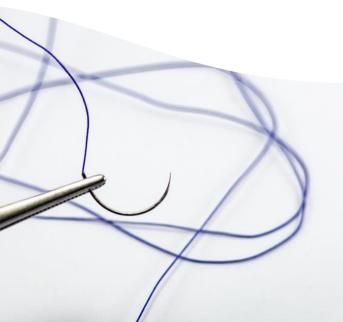


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Automated Suture Assembly & Packaging

### 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, monofilament, 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