

## Lanco Medical

Automated Suture Assembly and Packaging



### AT A GLANCE

- 1000+ PPH capable
- 1 hr. autonomy period where no operators are required
- Automated changeover adjustments with electric actuations, 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

### INDUSTRY OVERVIEW

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

### LANCO SERVICE

Pro-active Productivity Improvement:

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



#### 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 required to handle different size 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 joining process
- No funnel 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 assure joint quality



#### PACKAGE

- Winding of Suture into 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



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