



▲ AUTOMATED ASSEMBLY

PAR's extensive experience automating the assembly of implantable and wearable devices smaller than the tip of a pencil to larger than a standard shipping box makes us the right fit for any job. PAR has automated processes from sorting and feeding to assembly and part inspection on thousands of systems using the latest technology in vision, motion control, and sensing to improve finished goods quality for hundreds of customers.

BENEFITS OF AUTOMATED ASSEMBLY

- Significantly improves cycle time, reduces labor costs and improves productivity
- Ergonomic improvements for repetitive tasks, miniscule parts, or precise movements
- Consistent finished goods quality and accurate assembly
- Ease of operation using our standard software for all systems
- Automated logging with 21 CFR part 11 compliance
- ISO 9001 and 13485 certified project management and documentation approach



TECHNICAL INFORMATION

Features

- Assembly machines regularly feature the following technologies
 - Die punches, laser cutting, adhesive dispense, spring winding or feeding, resistance welds, dial plates, laser welds, ultrasonic welds, solder, braze, milling, grinding, cleaning, laser ablation, marking, screwfeeding, riveting, swaging, bending or shaping, web handling, weighing, and stringing
- Intended for production and R&D environments with multiple software access levels
- Integration experience with a variety of PLC and Industrial PC controls
- Semi-automated and fully-automated systems

Materials

- Organic solids
- Molded plastics
- Thin films
- Extruded tubes (Silicone, polyurethane, polyimide)
- 3D-printed materials
- Carbon fiber composites
- Fiberglass and Kevlar
- Stainless steel
- Steel alloys
- Aluminum
- Titanium
- Nitinol
- Glass
- Ceramic

Supporting Technologies

- Part feeding
- Vision inspection and vision-guided motion and pick and place
- Unique sorting requirements
- Incoming and outgoing conveyance

INDUSTRIES SERVED



Research, prototyping & development



Medical Device



Pharmaceutical



Diagnostics



Consumer Goods



Food & Beverage



Automotive



Aerospace



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