

Silverstone Automation

AN INTRODUCTION

Twenty years ago, Silverstone Automation was founded to bring cost effective automation solutions to medical and consumer product manufacturers. Since founding, we have designed and commissioned over 400 machines that are operating on four continents. Our customer base ranges from fortune 500 companies to startups.



TWO DECADES OF AUTOMATED MACHINE DESIGN

Scope: 24-7 production cells, pilot line development, R&D process development.

Machine sizes: Factory floor to bench top.

Resources. Mechanical Engineers, Electrical Engineers, Controls Engineers, Master assembly technicians, Machinists, Business manager

Documentation. SolidWorks mechanical, AutoCAD electrical, pneumatic, control software



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EXPERTISE

Processes

- Automatic component feeding
- Catheter/cannula assembly
- Conveying
- Crimping
- Cutting
- Dipping and curing
- Dispensing (adhesive and lubricants)
- Electronic testing
- Florescent vision inspection
- Flow testing
- Fusing
- Heat curing
- Heat sealing
- Heat staking
- Induction heating
- Laminating
- Laser etching
- Leak testing
- Measurement (vision and contact)
- Packaging
- Pad printing
- Printing
- Punching
- Slitting
- Tip forming
- Torquing
- UV curing
- Vision inspection (2 and 3D)
- Winding



Platforms

- Indexing dial
- Gantry
- Robotic
- Operator loaded
- Power and free conveyor
- Walking beam

Hardware

Silverstone integrates high quality industrial hardware including; Alicat, Allen-Bradley, Applied Motion, Banner, Camco, Cincinnati Test, Cognex, Denso, Dorner, EFD, Epson Robotics, Eurotherm, Fanuc, Festo, General Electric, Heraeus, IVEK, Keyence, Linmot, Loctite, Maple Systems, Microscan, NB, Nexen, Omron, Parker, Q-Industries, Red Lion, Rexroth Bosch, Schunk, Sick, Siemens, SMAC, SMC, THK, Yaskawa, Parker, PHD, Watlow, ViscoTec, Weiss, Zaxis, Zumbach.

