

Silverstone Automation

Silverstone's SilverCATH series allowed for the same operator to produce three times their normal rate of catheter tips in half the space, which resulted in six times the production from the same clean room area compared to competitor machines.

Introduction

Silverstone Automation has been in the automated manufacturing equipment business since 2000. Their reputation is in delivering outstanding automated manufacturing equipment, meeting their customer's needs through innovative designs, robust engineering, quality fabrication and thorough testing.

If you've ever required hospitalization, odds are you've received an IV. Most patients remember this part of their visit because it's often the first event that happens after admission—it can also be painful if the provider has a hard time finding a vein. But rest assured, there are ways to maximize comfort in this when you need it most. Take for example the plastic tubing that runs from the IV bag into your arm. Have you ever wondered why your IV stopped hurting once placed? Aside from being on the receiving end of the good medicine, this added comfort is mainly attributed to the way the catheter tip (plastic tubing) was shaped to glide into your arm. The folks at Silverstone Automation have perfected equipment used for tipping these essential medical devices with their SilverCATH 1100 and 2200 series catheter tip forming machines.

The fundamental idea behind creating Silverstone Automation was to help manufacturers reduce production costs by creating operator friendly, reliable and compact automated assembly equipment. For their standard SilverCATH 1100 and 2200 catheter tipping machines, the machine's purpose is to accurately form introducer and catheter tips so that when used, a smooth and gentle transition is provided for each and every patient.

Customer Requirements

When Silverstone designed their standard SilverCATH 1100 and 2200 series, they had high expectations for the display, requiring:

- ✓ High-Resolution Touch Screen
- ✓ Built-In Recipe Functionality
- ✓ USB Port for Saving Recipe Data
- ✓ Friendly Programming Software
- ✓ Password-Protected Screens
- ✓ Competitive Pricing
- ✓ Complimentary Local Technical Support





Silverstone met these requirements by integrating Maple Systems HMI5100L into Silverstone's design for their Precision Catheter Tip Forming Machines. The HMI5100L offers a slim form, sleek look, and an affordable price. The 1.57" depth of this HMI granted an easy mounting experience and the 10" color touch screen allowed for quick parameter setting and selection for the end user.

Benefits Achieved

Much of this increased efficiency was related to the machine's design. With the 10" easy-to-read Maple touchscreen and separate screens for operators and technicians, the operator's interactions were simplified and unintended interactions were mitigated. In addition, using pre-programmed recipes, operators had less information to enter reducing changeover time and minimizing errors.

In addition to Silverstone's popular SilverCATH 1000 and SilverCATH 2000 series, Silverstone has integrated Maple HMIs into a number of custom one-off machines for their proprietary customers. Having an established relationship proved to be rewarding when creating these custom designs since Maple offers controllers in a range of sizes from 4.3"-15" for any size project. This has made Maple Systems the sought-out name for displays at Silverstone.

With such success in their standard SilverCATH series, Silverstone has no plans of slowing down anytime soon. Silverstone Automation likes the benefits of Maple HMIs for their customers and for Silverstone's bottom-line.

For more information on Silverstone Automation, please visit their website at: www.Silverstoneinc.com

See the Machines in Action

SilverCATH 1100 Series: <https://www.youtube.com/watch?v=z6YbqxTeqbg>

SilverCATH 2200 Series: <https://www.youtube.com/watch?v=y4tx04Lat2c>

Additional Resources

Silverstone Automation YouTube Channel: <https://www.youtube.com/channel/UCBOW9UG0E2pZWMvrMWxtZ0Q>