

High Quality, Flexible Point-to-Point Soldering Solution



When a leader in the electronic industry needed to automate their control module, they looked for an experienced designer and builder of custom automation equipment known for their innovative automated solutions and found Edgewater Automation in St. Joseph, Michigan.

The challenge was to create a flexible soldering solution that was capable of soldering circuit boards at a higher quality and faster production speed than previously realized.

The Solution came when Edgewater Automation provided a robotic 8-station rotary dial that allowed “point-to-point” soldering of the electrical switches to circuit boards. The high number of current and future models required a high-degree of flexibility and programmability. Each of the four robots are equipped with special heads that are programmed to solder up to four points on each of the models, and any of the robots can perform the work of the other. Future models can be accommodated with additional robot programming, and a nest changeover.

The customer benefited by having a higher-quality product with increased flexibility, as well as lowering production cost by only requiring one operator for part loading.



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CUSTOM SERVOPRESS WITH HEATER PLATES



Fancort was approached by a well known government agency with a requirement for a very accurate, low force, assembly press that incorporated heater plates for compressing and heating semiconductor materials. The press was for R&D, and had to incorporate extreme versatility to handle the broad range of materials they were working with.

The customer was unable to find an off-the-shelf solution, and after calling on several press manufacturers, were basically told no quote by all of them. They contacted Fancort and one of our sales engineers decided this was something Fancort was willing to tackle. The end result was a programmable servopress with three, easily interchangeable actuators with different force ranges: one was from .2to 20kgf, the second was from .4 to 40kgf and the last was from .6 to 60kgf. The customer also needed to heat his material to temperatures of 400C, but it was critical that the heat did not distort the die set which held the parts.

The system had to be easy to use with software that allowed easy programming of force, distance and time variables, and then storing these programs on a PC. Fancort’s solution included a teach pendant and software for operating the press, and a simple control box for setting temperatures on the heater plates.

The final package was delivered on time and the customer was very pleased with its performance. For further information on this application, or customizing any other Fancort press, contact rantonelli@fancort.com or visit www.fancort.com.