

# Welding Automation for Productivity and Revenue

Welding automation demands the usage of machines to raise speed and precision while producing high quality welds. These systems are easy to integrate in a production environment and cut the potential risk of errors and inconsistent welds, leading to higher productivity. This approach allows companies to get more green that assist end the need to send jobs overseas. For businesses on a tighter budget, you have the option to rent or lease various kinds of welding related equipment.

When Quality Welds are Critical. Welding is probably the most complex manufacturing processes. Both manual and automated welding has their distinct advantages. For several assemblies, manual fusing might still function as the ideal alternative. However, welding automation is really a recommended process where excellence of the joint is important. It's also a viable alternative when soldering done repeatedly on same parts.



Semi-Automatic vs. Fully Automatic. There are 2 kinds of welding automation namely, semi-automatic and fully automatic. In semiautomatic soldering, parts loading to the soldering fixture, can be a manual process, while a weld controller keeps motion of torch and stillness from the parts at preset parameters. After the fuse is completed the operator removes the assembly and repeats the process. In fully automatic soldering, a personalized machine or series of machines loads the work-piece, places the part or torch in place and completes the weld. The device also monitors excellence of the weld and unloads the welded product. A number of quality checks can even be designed into the machine. Companies that assemble products in limited quantities but must correct welds may benefit from a semi-automatic system.

The main advantages of Welding Automation. Welding automation offers four distinct advantages including quality, increased productivity, decreased labor costs, and less wastage. Quality achieved by combining mechanized torch and part motions with electronic recall of parameters. By reduction of a persons reason from the welding process both semi-automatic and fully automatic systems aid in increasing output. With high speeds and minimal setup time, automated soldering systems can easily outpace manual soldering.

Welding Automation Apparatus. Welding automation includes several systems including positioners, manipulators, turning rolls, bed rollers, cutting machines, wire feeders, and remote monitoring, to name a few. A soldering positioner is really a convenient aide to increase productivity and quality. With the help of a positioner creating work-pieces on the best possible positions can increase productivity by as much as 70 percent. It also provides for ergonomic working comfort, which can be needed for welders that otherwise may fit in stressful environments.

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