

Servo Ultrasonic Welding System With Melt-Match Technology

This servo ultrasonic welding system is designed with Melt-Match technology. Current pneumatic ultrasonic technology poses several areas for improvement, such as process repeatability, ability to validate/calibrate, and higher manufacturing costs. This solution significantly improves these challenges. Testing of the Melt-Match technology has proven that both bond strengths and process repeatability are drastically improved over current pneumatic welders on the market. This is accomplished through several innovations of the servo press. Servo actuation and precise control over the travel distance and speed is now possible. Tests have shown that a standard deviation on collapse distance of 0.0004 can be achieved. Rigidity of the mechanical structure ensures that minimal deflection occurs during the welding process.

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