

Performance

Item	Specification
Maximum operational line speed	600 m/min, 1 p/mm encoder gearing
Maximum pulse frequency	100 kHz
Encoder resolution	0.1 p/mm – 20 p/mm
Bead resolution	1.0 mm
Adhesive placement accuracy	± 1.0 mm under the following conditions: <ul style="list-style-type: none"> a. Encoder resolution at least 1 p/mm b. Acceleration levels $+2.0$ m/s² and -2.0 m/s² (0 – maximum line speed) c. Gun compensation (on/off) 5.0 ms or less d. All triggers activated simultaneously
Gun compensation range	0 - 500 mm in steps of 0.1 mm at a prescribed speed
Trigger setup time	Processes all trigger inputs and generates the initial gun output within 1 ms
Line speed sensor input (encoder or MSD)	One encoder input that accepts single and quadrature type encoders
Number of channel and gun output	Four programmable channel (or gun) outputs
Maximum number of beads per channel	Four beads per programmed channel
Maximum pattern segment length	32768 encoder pulses
Minimum bead delay (gap)	0 mm
Maximum bead duration	Equal to the maximum pattern segment length
Minimum programmable gun-to-trigger offset (GTO)	2 mm
Maximum gun-to-trigger offset (GTO)	Equal to maximum pattern segment length minus the first bead offset
Digital circuitry I/O insulation	All remote inputs and outputs are electrically insulated from the internal digital circuits