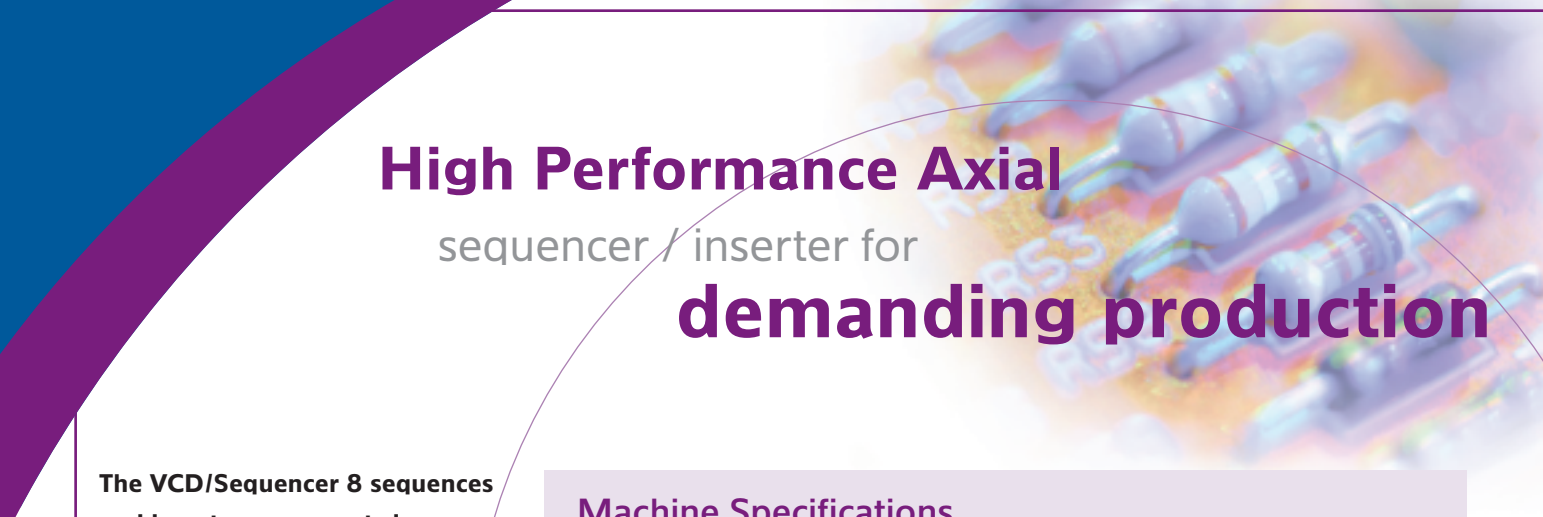
VCD/Sequencer 8

Axial Lead Component Sequencer / Inserter



High Performance Axial

sequencer / inserter for

demanding production

The VCD/Sequencer 8 sequences and inserts components in one process at an insertion speed of 25,000cph (0.14seconds/insertion). Universal's VCD/Sequencer 8 inserts class A-52mm axial components and jumper wires in a predetermined pattern at the highest throughput rates in the industry. Highly refined machine design and manufacture makes the VCD/Sequencer 8 extremely reliable with an error rate of 200ppm or less. The expandable sequencer provides up to 220 input stations which reduces component changeover by allowing dedicated stations for the most frequently used components.

The simple to use, operator environment provides machine operation, diagnostic support, management data, and a graphical product editor for easy pattern generation and maintenance. Commonality with the other Generation 8 series of equipment makes training, operation and maintenance as simple as possible.

Machine Specifications

Cycle Rate	25,000 cph (0.14 sec. per insertion)
Reliability	200 ppm or better 95% Intrinsic Availability

Component Types

Capacitors, resistors, diodes, jumper wire, etc.

Component Specifications

Distance Between Tapes	**Component Class I** 52.4mm +/- 1.5mm (2.063" +/- 0.059")	**Component Class II*** 63.54mm +/- 1.5mm (2.50" +/- 0.059") **Quantity of locations for Class II components is limited.*
Pitch	5.08mm (0.200") or 10.16mm (0.400")	10.16mm (0.400") pitch not recommended for Class II input
Replenishment	Components may be replenished without stopping production	
Hole Span	**Standard Tooling** Minimum – 7.62mm (0.300") Maximum – 24.13mm (0.950")	**5mm Tooling** Minimum – 5.00mm (0.197") Maximum– 21.59mm (0.850")
Component Body Diameter	**Standard Tooling** Minimum – Wire lead diameter Maximum – 10.69mm (0.420") minus 2 times board thickness	**5mm Tooling** Minimum – Wire lead diameter Maximum – 11.68mm (0.460") minus 2 times board thickness *(At 5mm span, max component body diameter is 2.29mm (0.090"))*
Lead Wire Diameter	**Standard Tooling** Minimum – 0.38mm (0.015") Maximum – 0.81mm (0.032")	**5mm Tooling** Minimum – 0.38mm (0.015") Maximum – 0.81mm (0.032")

Options

Board Handling	Manual or Automatic PCB load/unload
Sequencer Size	Up to 220 inputs (in 20 station increments)
Insertion Tooling	Standard or 5mm
Jumper Wire	Bulk Jumper Wire Dispenser System – processes jumper wires from a continuous spool of wire
Component Verification	Expanded Range Verifier (ERV) – ensures operator accuracy of component loading
Networking	Ethernet, TCP/IP

PCB Specifications

	With Automated Board Handling	With Manual Board Handling
Length x Width (minimum)	102mm x 80mm (4" x 3.1")	51mm x 51mm (2" x 2")
Length x Width (maximum)	483mm x 406mm (19" x 16")	559mm x 470mm (22" x 18.5")
Insertible Area	483mm x 406mm (19" x 16")	508mm x 470mm (20" x 18.5")
PCB Transfer Time	2.5 seconds	
Board Error Correction (BEC)	BEC feature compensates for variation between PCB's	

Service Requirements

Electrical	180 to 264 VAC, Single phase, 47 to 63 HZ
	Uninterruptible Power Supply (UPS) unit filters power and during power outage can keep production running up to 10 minutes
Pneumatic	85 liters/minute @ 6.21 bar (3.0 CFM @ 90 PSI)

Machine Dimensions

Machine dimensions and weight vary per machine configuration. Please refer to VCD/Sequencer 8 General Specification document GS-394-02

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