

**Product Facts
Insertion System**

- Interchangeable insertion modules fit Bench and Comp-U-Sertor II Machines
- Insert posts, tabs, pins, barrels, mini spring sockets, terminals, etc
- Both machines produced under a Quality Management System certified to ISO 9001

A copy of the certificate is available upon request.



- CE conformance machines are available

MIS Bench Machine

- Up to 2,000 cycles per hour
- Machine cycles only when hole is properly located
- Available with board fixture and two-hand trip
- Optional scrap chopper

Comp-U-Sertor II Machine

- Up to 14,000 cycles per hour
- Fully automatic sequencing, microprocessor-controlled X-Y positioning table
- Mount two heads to insert two different products in one sequence
- Touchscreen menu
- Lower tooling — clinch or non-clinch
- Checks continuity to verify insertion
- Options include powered dereeler, splice run-out detector, paper tape take-up winder and scrap chopper

Technical Documents

Customer Manuals

- 409-5863 — Comp-U-Sertor II Insertion Machine
- 409-5872 — MIS Bench Machine

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MIS Bench Machine



Comp-U-Sertor II Machine

For inserting pins, sockets, tabs, and other small products into individual holes in printed circuit board, the Modular Insertion System (MIS) includes machines for two levels of production and a variety of interchangeable insertion head modules. Two styles of heads — designated small and large — insert a variety of products ranging from sockets and posts to tabs and receptacles. To minimize inventories of spare parts, the various heads use many common components.

The air-powered, electronically controlled MIS Bench Machine is available with or without board fixturing. The fixture is a manually operated X-Y positioning system with two handles, each equipped with a trigger. Insert product either by depressing the triggers each time a hole is properly located, or by holding the triggers for the entire board sequence. Either way, the machine won't cycle unless the hole is correctly located over the anvil. Locating pins

and lighting simplify this process.

Machines without the fixture cycle automatically when a hole is correctly located. For products such as FASTON tabs, a stabilizing disk over the anvil helps keep the board level. Other features include a convenient push-button control panel with LCD display, clinch lower tooling with vacuum for scrap removal, and an optional scrap chopper for convenient disposal of continuous carrier strips.

The fully automatic Comp-U-Sertor II Machine inserts products within a maximum insertion area of 12 x 18 [305 x 455]. An easy-to-follow touchscreen menu simplifies programming and operation. A 1.44 MB floppy drive allows off-line programming and back-up storage.

For greater productivity, two small insertion heads can be mounted side-by-side on the Comp-U-Sertor II to insert two different products during a single sequence.

For quality control, the machine verifies each insertion by checking continuity. Options include powered dereeler, splice run-out detector, take-up winder for paper tape used to protect some contacts on the reel, and scrap chopper.

The Comp-U-Sertor II can cycle as many as 14,000 times per hour. Production rates depend on variables such as the insertion heads used, duration of table moves, and loading operations.

Need more information?

For more information, specifically about tooling, call the Technical Support Center at 1-800-522-6752.

Insertion Heads

The Modular Insertion System (MIS) consists of a series of modular insertion heads that can be used interchangeably in either a semiautomatic bench machine or an automatic X-Y positioning table. The heads are designed to insert a wide variety of terminals to printed circuit boards and housings.

Product Facts

- High speed, low cost, reliable solution for applying components to PCBs
- Modular tooling design allows for rapid change-over time
- Designed for standardization of components to minimize spare parts inventories
- Air operated and electrically controlled
- Mechanical actions achieved through slides, cams and links
- Electrical switches signal the machine of extension and retraction of air cylinders
- Counter maintains record of cycles
- Lower cylinder on machine supports the board during insertion of terminal
- Heads can be designed for specific application needs

Types of Insertion Heads

Post/Tab Insertion Head

- Variety of Posts and Tabs (Center Carrier Terminals)
- Cycle time: 2.0 cycles per second
- Customer Manual: 409-5886

Pin/Barrel Insertion Head

- Variety of Pins and Barrels (Bottom Carrier Terminals)
- Cycle time: 1.9 cycles per second
- Customer Manual: 409-5890

On-Strip Miniature Spring Socket Insertion Head

- Variety of Miniature Spring Socket sizes (On-Strip Carrier)
- Cycle time: 2.6 cycles per second
- Customer Manual: 409-5888

Bandolier Post Insertion Head

- Variety of Post sizes (Bandolier Carrier)
- Cycle time: 1.9 cycles per second
- Customer Manual: 409-5889

Applicator Type Insertion Head

- Variety of terminal types (Receptacles and Clips, etc.)
- Cycle time: 1.9 cycles per second (may vary on type of terminal)
- Instruction Sheet: 408-4416

Continuous Post Insertion Head

- Variety of square and round wire with and without retention features
- Cycle time: 2.0 cycles per second
- Customer Manual: 409-10009

