

Application Tooling

AMP-O-LECTRIC Model "G" Termination Machines



A totally new design of our most popular machine for bench-top operation. It features a quiet and highly-reliable direct motor drive, electronic controls for ease of setup and operation, and improved guarding and lighting for operator convenience and safety. All versions also include either manual or automatic precision adjustment for crimp height. For use with miniature style applicators only.

(Shown with optional Crimp Quality Monitor.)

Specifications

- Weight** — Approximately 240 lb [110 kg]
- Height** — 20 [508] without reel
- Width** — 18.7-25.3 [475-643] depending on type of applicator used
- Depth** — 21.5-28.1 [546-713] depending on type of applicator used
- Electrical** — 120 or 220 VAC, 50 or 60 Hz
- Air** — 90-110 psi [6.21-7.59 bar] when required for use with air-feed applicators

For complete information, request Catalog 65828.

AMP-3K/40 and AMP-5K/40 Terminating Machines



The AMP-3K/40 and AMP-5K/40 Terminators are designed for customers that require the increased output and quality of a semiautomatic machine at a competitive price. By incorporating the most commonly requested features as standard and offering a long list of optional equipment, these terminators offer flexibility to meet the specific needs of various applications at the lowest possible cost.

- 3,000 lb [1361 kg] max. crimp force (AMP-3K/40)
- 5,000 lb [2268 kg] max. crimp force (AMP-5K/40)

- Tool-less removal of applicators and guards
- Jog capability
- Quiet, fast operation — 80/76 dBA and cycle time less than 0.400 seconds
- Accepts Heavy Duty Mini style applicators
- Wide range of optional equipment such as tool-less precision crimp height adjust, batch counter, CQM capability and work light
- Order Catalog 1654856 for specs and part numbers

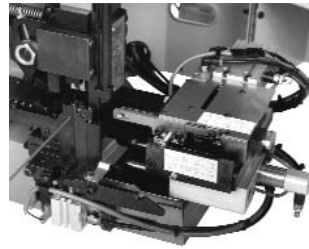
Specifications

- Height** — 20 [510] (without reel support)
 - Weight** — Approx. 150 lb [68 kg]
 - Capacity** — AMP-3K/40 — 3,000 lb [1361 kg] max. crimp force; AMP-5K/40 — 5,000 lb [2268 kg] max. crimp force
 - Noise** — 76 dBA maximum at 3,000 lb [1361 kg] full capacity; 80 dBA maximum at 5,000 lb [2268 kg] full capacity
 - Electrical** — 100-240 VAC, 50/60 Hz (6A) • Average <1 A at 120 VAC when used as a bench-top unit at 2 000 cycles per hour operating rate
 - Air** — 90-100 psi [6.21-6.90 bar], 6 scfm [0.00282 m³/s] (when required for use with air-feed applicators)
- Note: Optional Air Feed Valve Assembly required.*

Electronics

Optional Stripping Module for the AMP-3K/40, AMP-5K/40 and AMP-O-LECTRIC Model G

Application Tooling (Continued)



The combination of the Stripping Module with the AMP-O-LECTRIC Model G Terminator or the AMP 3-K/40, AMP 5-K/40 provides an economical, proficient method of stripping wire and crimping terminals on the same machine. Wires are stripped moments before crimping,

meaning there is virtually no chance of damaging wire conductors during handling or storage. Once the wire is fed into the start sensor the Stripping Module does the rest, improving placement accuracy.

For more information, request Catalog 1309085.

Crimp Quality Monitor (CQM)



This system provides 100% on-the-fly crimp inspection. It measures the crimp height of each termination, and evaluates the quality of each crimp. If a crimp is questionable, the monitor alerts the operator with both

visual and audible alarms. It also provides ports for printing and networking.

When used with AMP-O-LECTRIC Model "G" Termination Machines, the monitor is mounted to the machine. When used with AMPOMATOR CLS IV Lead Making Machines, it is integrated into the machine's operating system, with the information displayed on the machine's touch screen.

Specifications

- Height** — 4.5 [114]
- Width** — 8.5 [216]
- Depth** — 9 [229]
- Electrical** — 120 VAC, 50 or 60 Hz, or 220 VAC, 50 or 60 Hz
- Printer Port** — Serial Interface

For further information, request Catalog 82275.

Application Tooling

AMP-O-LECTRIC Model "K" Termination Machines



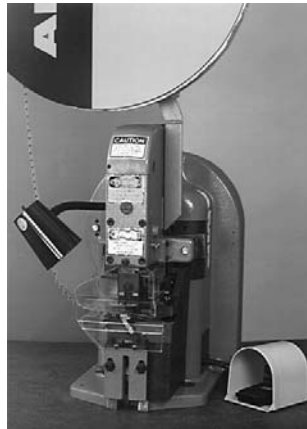
These machines are used with standard style applicators, generally to apply one size and type of terminal without the need for frequent changeovers of applicators or adjustment of crimp height. The basic model is Part Number 1-471273-2. Part Number 1-471273-3 is equipped with a mechanical feed assembly for applicators requiring this type of feed for advancing the terminal strip.

Specifications

- Weight** — Approximately 230 lb [104 kg]
- Height** — 24 [610] without reel
- Width** — 21 [533]
- Depth** — 20 [508]
- Electrical** — 120 VAC, 60 Hz, 6 A
- Air** — 90-110 psi [6.21-7.59 bar] when required for use with air-feed applicators

Application Tooling (Continued)

**AMP-TAPETRONIC Machine,
Part No. 69875**



AMP-O-LECTRIC Model "K" Terminating Machine with a permanently-mounted applicator that accepts interchangeable die sets to apply a variety of tape-mounted terminals and splices. Many of the die sets can also be used in AMP-O-LECTRIC Terminating Machines with a tape applicator.

For more information, contact Tyco Electronics.

Modular Insertion System (MIS) Bench Machines, 217600 Series, 662820 Series (shown)



Bench machines for inserting a variety of products into pc boards. Uses the same interchangeable insertion heads as the Comp-U-Sertor II Machines. Series 217600 features a manually-operated X-Y positioning fixture and locator spotlight. The machine cycles when the board hole is placed on the anvil and both triggers on the dual handles attached to the X-Y fixture are depressed. Series 662820, without board fixturing, cycle automatically when the hole is properly located. A stabilizing disk over the anvil helps keep the board level.

Specifications

- Width** — 18 [457]
- Depth** — 24 [610]
- Height** — 18 [457]
- Weight** — 250 lb [113 kg]
- Electrical** — 120 to 220 VAC, 50 or 60 Hz (217600); 120 or 240 VAC, 60 Hz, single phase, 120 VA (662820)
- Air** — 80 psi [5.52 bar] min., 15 scfm [0.00708 m³/s] min.
- Insertable Area** — 18 x 22 [457 x 559] max.

For more information, request Catalog 296059.

SDE Electric Terminator



The SDE Electric Terminator applies a broad range of products, in the 6 - 0.3 mm² (10-22 AWG). This small, bench top power unit offers many features found on

more expensive models, and is well suited for low- to medium- volume bench production and harness assembly operations.

The simple, logical arrangement of control switches and connections provide easy set-up and require minimal training to enhance your productivity capability. The power unit is foot actuated, and includes a jog step position with available adjustment for various product types, and also a crimp height adjustment. Other features include a safety reverse switch, a safety lock foot pedal, and a cycle counter. The unit is compatible with all SDE Dies (refer to catalog #82276).

Specifications

- Weight** — 29 lb [13 kg]
- Dimensions** — 15.5 x 10 x 8 [390 x 260 x 200]
- Power Supply** — 220V/240V or 110V/120V
- Power Consumption** — max. 0.7 KVA

For more information, request Catalog 1654714.

**AMPOMATOR CLS IV+
Lead-Making Machines,
356500-1, -2**



Fully-automatic machines that measure, cut, strip and terminate single leads. Microprocessor-controlled, and programmed and operated using an easy-to-follow, menu-driven touchscreen. Features include direct-drive terminating units with precision crimp height adjustment, fully programmable setups, wire runout and splice detection, and motorized pre-feed with wire straightener. Crimp quality monitoring is also available.

Specifications

- Width** — 159 [4 040]
- Depth** — 68 [1 730]
- Height** — 86 [2 185] with 24 [610] dia. reel
- Weight** — 2 000 lb [907 kg]
- Electrical** — 220 VAC, 50 or 60 Hz, single phase, 25 A, with neutral and ground
- Air** — 90 psi [6.21 bar], 15 scfm [0.0071 m³/s] sustained
- Wire Range** — 26-10 AWG [0.12-6 mm²] stranded, 26-16 AWG [0.12-1.4 mm²] solid
- Lead Lengths** — 3-90 [76.2-2 285], 90-1 000 [2 285-25 400] with long lead conveyors

For more information, request Catalog 124324, Video 198142 (NTSC), 199609 (PAL).

Application Tooling

P300 Automatic Insertion Machine



Automatic machine equipped with an insertion tool (comprised of product-specific insertion head, anvil, and product feed mechanism). Stepper-motor driven X-Y table positions PCBs under insertion head. Surface Mount Equipment Manufacturers Association (SMEMA) compatible inline PCB Insertion Station for posts, tabs, receptacles or sockets. Stand-alone unit is field upgradeable to Pass Through. Mounts up to four pneumatic insertion heads. Modem diagnostics standard, vision system optional.

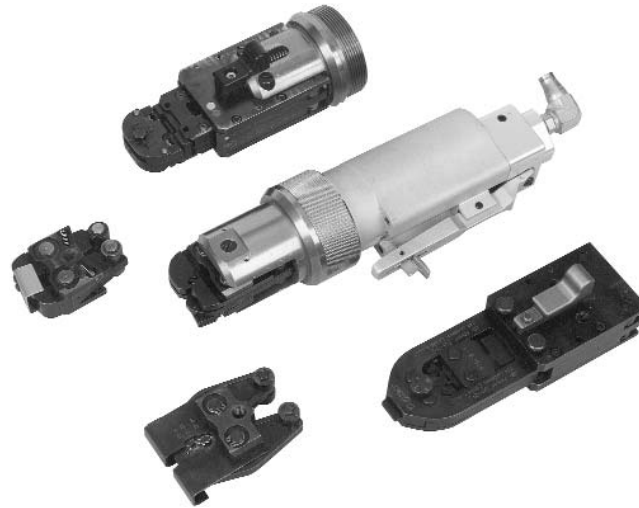
Specifications

- Width** — 57.5 [1,460]
- Depth** — 64.5 [1,640]
- Height** — 60 [1,520]
- Weight** — Depending on configuration
- Electrical** — 110 V, 60 Hz
- Air** — 87 psi [6 bar]
- Insertable Area** — 24 x 16 [600 x 400]

For more information, contact Tyco Electronics.

Application Tooling (Continued)

Micro Pneumatic System



The new micro-pneumatic power unit provides minimal weight and minimal tool size, with maximum production. The power unit is compatible with the small tool and adapter holders used in the 6-26 system. Only available in a hand actuated version. This unit and compatible heads will terminate 26-14 AWG products, with the exception of the SOLISTRAND head combination, which crimps 22-10 AWG combinations.

See Catalog 1654684 for more information.

Battery Crimp Tool Kit, 1725837-1



- Compatible with all SDE dies
- Completely portable (approx. 100 crimps per charge)
- Terminates wire range of 10-22 AWG (6 - .03mm²)
- Weighs 3.46 lb [1.57kg] w/battery, 14 [360] long
- Kit includes tool, 2 batteries & charger
- Pressure sensitive, cycle control

Application Tooling (Continued)

CERTI-CRIMP Straight Action Hand Tool (SAHT)



Our premium line of hand tools featuring ratchet control to help eliminate partial crimps. This style also features straight-line die closure, terminal locator and support, and insulation crimp adjustment. They are used to apply selected 110, 187, and 250 Series FASTON Terminals.

CERTI-CRIMP Double Action Hand Tool (DAHT)



The dies on these tools travel in an arc-like path. The tools feature ratchet control, a locator, and an insulation crimp adjustment pin. They are used to apply selected 250 Series FASTON Terminals.

TETRA-CRIMP Hand Tool Part Number 59824-1



Similar to DAHT, the dies travel in an arc-type path. The tool features ratchet control with emergency release, multiple color-coded crimping cavities, and a terminal locator and wire stop. It is used to apply PIDG FASTON Receptacles, part number series 6409xx only as shown on page 95 and 96.

Platform Style Die Hand Tool, Part Number 58078-3



This tool has the same frame configuration as the TETRA-CRIMP Hand Tool. The dies are interchangeable, and the terminal locator is adjustable. It is used to apply Ultra-Fast and Ultra-Fast Plus FASTON Terminals.

PRO-CRIMPER II Hand Tool



Using interchangeable dies, this mid-priced, commercial tool can crimp a vast array of AMP products. It also features ratchet control with emergency release. The new design is more durable, and requires dramatically less hand force. Currently, it can be used to apply selected FASTON Receptacles.

AMP Universal Handle, Part Numbers 465629-1 (Short) and 465629-2 (Long)



This tool with interchangeable tips is used to mate standard and Tab-Lok Flag FASTON Receptacles to tabs. It features an adjustable strap. The short tip holder is 1.87 [47.5], the long is 5.87 [149]. For further information, request Instruction Sheet 408-7141.

Model 626 Pneumatic Tool



This modular system consists of a hand- or foot-actuated power unit plus interchangeable tool holders, crimp head assemblies, and die sets, when applicable. It is light weight, and features an optional positive-cycle control that helps eliminate partial crimps. The tool can be easily held or bench mounted.

Specifications

- Weight** — 2.3-3.3 lb [1.0-1.5 kg]
- Length** — 11.6-12.9 [295-327]
- Outside Diameter** — 1.83 [46.5]
- Grip Span** — 2.19 [55.6] over button or handle
- Air** — 90-100 psi [6.21-6.89 bar], 11.4 in³ [0.00018 m³] displacement
- Cycle Time** — 0.7-0.8 sec (16-14 AWG [1.3-2 mm²] PIDG Terminals)

For further information, request Catalog 124208.

Application Tooling