



AMP-O-LECTRIC Model G Terminating Machine

Fast Facts

- Quieter
- Improved guarding and lighting
- Toolless changeover of applicators
- Precision manual- or auto-adjust for crimp height
- Total and batch counter
- Accepts all existing Tyco Electronics miniature applicators, with minor modifications
- Reduced maintenance requirements
- Split-cycle operation for both lead-making and bench-top use
- Standardized 1⁵/₈ [41.3] stroke
- Cannot be operated during normal production with guards open
- Operates on either 120 or 220 VAC, 50 or 60 Hz
- Available with CQM G-Adapter for crimp quality monitoring using miniature applicators
- Produced under a Quality Management System certified to ISO 9001

The Model "G" is the most advanced design in the long-standing series of AMP-O-LECTRIC machines for terminating wire using reeled terminals and contacts. It features a reliable direct motor drive system. Its modular construction also enables us to provide versions for use either as bench-top units, or in combination with fully-automatic lead-making equipment.

For operator convenience, we've improved access to, and lighting in the target area, and moved the Crimp Quality Monitor (CQM) to eye level for bench-top use. The Model "G" is also quieter, plus improved guarding meets applicable European and domestic safety requirements.

All Model "G" versions include precision adjustment for crimp height — an important feature, which, in combination with the optional CQM, will enable you to maintain the tight tolerances required for today's demands for higher levels of quality. By simply resetting a dial, an operator can adjust crimp height in .0005 [0.013] increments over a .018 [0.457] range. When used with CQM, automatic adjustment is also available.

Another user-friendly feature is its control system. At the push of a button, you can power the motor on or off, jog forward or reverse, switch to split-cycle operation, turn the work light off or on, power the air feed on or off, or reset the batch counter. And, it's all reported on an LCD display. The controls will also detect and report errors in the machine, and stop cycling when a bad crimp is detected by the CQM. The operator must then push the reset button to continue.

The Model "G" will accept all existing Tyco Electronics miniature applicators, with minor modifications. See Applicator Instructions 408-8053, *Conversion Guide for Tyco Electronics Miniature Quick-Change Applicators*, for details.

Most of our existing applicators may be used for crimp quality monitoring on versions equipped with CQM and CQM G-Adapter. To use CQM for Tab-Lok, FASTON flag terminals, a CQM hinge-bar applicator is required. You can't use CQM to monitor the application of closed-barrel pre-insulated terminals.

Technical Documents

Customer Manuals

409-5842 — AMP-O-LECTRIC Model "G" Terminating Machine
409-5804 — Crimp Quality Monitor (CQM)

Instruction Sheets

408-4050 — CQM G-Adapter
408-4279 — CQM-Jr.
408-8053 — Conversion Guide for Miniature Quick-Change Applicators



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Our commitment. Your advantage.

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Specifications and Dimensions

AMP-O-LECTRIC Model "G" Machine Versions

Part Number	Precision Adjust*	CQM G-Adapter
354500-1	Manual	Not Included
354500-9	Manual	Included with Machine
1-354500-1	Automatic	Included with Machine

* Subassembly Part Number 354531-1 available to convert from manual to automatic precision adjust.

Note: To operate air-feed applicators with this machine, order Air Feed Assembly Kit, **P/N 354578-1**.

For crimp quality monitoring using Model "G" Machine versions equipped with CQM G-Adapter, order, in addition, CQM Monitor Assembly P/N 1320420-2, plus CQM Interface Kit P/N 1320431-2. Regular Tyco Electronics miniature applicators may be used with this system. To use CQM applicators, you also require Sensor Cable Assembly P/N 354452-2. For CQM-Jr., order P/N 318483-1 (120 VAC) or 318483-2 (220 VAC). CQM-Jr. does not support automatic precision adjust.

To equip older Model "G"s with CQM G-Adapter requires Field Engineering Service assistance. Call the Technical Support Center for more information at 1-800-522-6752.

Specifications

Capacity: 5000 lb
[2268 kg] maximum
crimp force

Deflection: .003 [0.076]
maximum per 1 000 lb
[454 kg] crimp force

Noise: 76 dB maximum at
5000 lb [2 268 kg] full
capacity

Weight: Approx. 240 lb
[110 kg]

Height: 20 [510]

Electrical: 120/220 VAC, 50/60 Hz

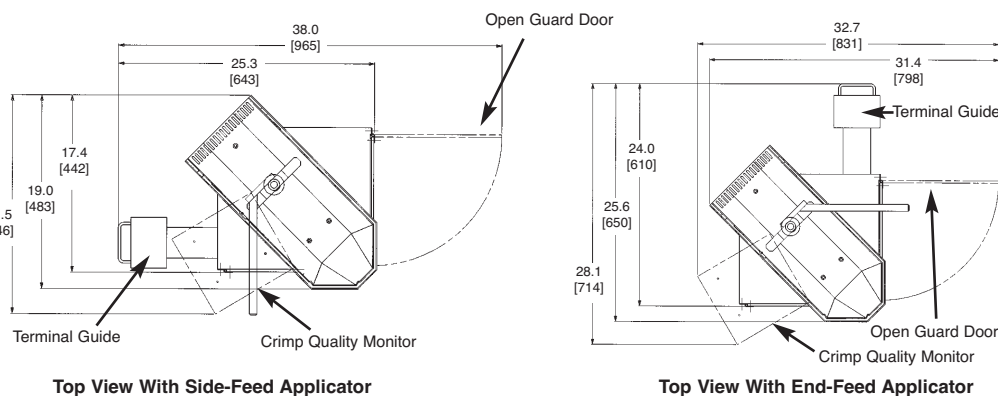
- Avg 2.6 A at 120 VAC when used as a bench-top unit at 2000 cycles per hour operating rate
- Avg 6.5 A at 120 VAC when used in combination with automatic lead-making equipment at 5 000 cycles per hour operating rate

Air: 90-100 psi [6.21-6.90 bar], 6 scfm [0.00282 m³/s] (when required for use with air-feed applicators)

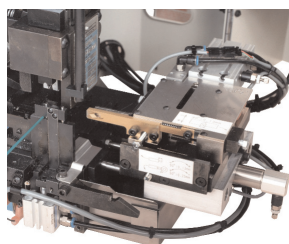
CQM:

- .0002 [0.0051] avg error, .0002 [0.0051] standard deviation for crimp height measurements using CQM applicators
- .0005 [0.0127] avg error, .0005 [0.0127] standard deviation for crimp height measurements using regular applicators in a CQM G-Adapter system

Error is the difference between CQM measurements and measurements using a micrometer. These specifications are based on properly following the applicable procedures for wire preparation and termination.



Optional Stripping Module



The combination of the Stripping Module with the AMP-O-LECTRIC Model G Terminator provides an economical and 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. Order Catalog 1309085 for more information.

AMP-O-LECTRIC Model G Terminator with Stripping Module

1490501-1	Manual Precision Adjust
1490501-9	Manual Precision Adjust and CQM Sensors ¹
1-1490501-1	Auto-Precision Adjust and CQM Sensors ¹

Field Retrofit Kits for Model G Terminator²

1490503-1	G Terminator without CQM
1490503-2	G Terminator with CQM ¹

¹ Does not include CQM Monitor 1320420-2 or Interface Cable 1320431-2

² Model G Terminators with a revision before "R" may need to be updated with 1 each of P/Ns 356130-1, 986921-1 and 3-21028-3