



MPT-5 Machine for Mag-Wire Coil Termination

Fast Facts

- Single, dual and triple insertion
- Two-reel, two-product capability, with alternating feed capability
- Available as horizontal bench, vertical bench or independent module
- Module easily integrates into production lines using simple handshake signals
- Fine adjustment mechanism for insertion depth (.001 increments)
- Tube-type insertion tooling for standard MAG-MATE terminals
- Microprocessor controlled operation
- Holding fixture for bobbin can be designed and built by Tyco Electronics or the customer

Technical Documents

- Customer Manual 409-10008; MPT-5 Machine Assembly

For quick, easy and reliable termination of magnet wire without pre-stripping the insulation or soldering, Tyco Electronics offers the MAG-MATE product family and the MPT-5 (MAG-MATE Product Terminator) air-operated insertion machine with micro-processor control. The MPT-5 machine inserts a MAG-MATE terminal into a customer-designed cavity in the coil bobbin or similar magnet-wire housing, terminating the wire and providing an I/O terminal or other connection. The MAG-MATE system can create a termination that is very close to the coil.

Dual reel capability of the MPT-5 allows insertion of two different MAG-MATE terminals, with the capability to alternate between inserting one and two terminals at a time. Two terminations per second are possible with dual insertion. Loaded with two different terminals, a single MPT-5 can cover a range of 8 AWGs.

A fifth generation machine, the MPT-5 is lighter and quieter than previous versions. The MPT-5 is available as a horizontal or vertical bench machine or as a discrete module for integration into automated lines. The discrete module also can be used to make a custom horizontal or vertical bench machine. A fixture to hold the coil assembly, which is required for bench operation, can be designed and built by Tyco Electronics or the customer.

The MPT-5 uses three or four air cylinders to feed terminals from one or both reels, cut terminals from the carrier strip, and insert terminals into the cavities. The display shows the operating conditions of the machine such as the batch count, total count, error messages, and ready state. The display also lets the operator step through the machine sequence or manually cycles the machine for set up or easy diagnosis of problems.

Solderless MAG-MATE terminations:

- No need to pre-strip the magnet wire
- No wire embrittlements due to solder
- No soldering fumes
- Compact, clean termination
- Perfect for automation
- Fast magnet wire connections: Up to two per second with dual insertion.

 **Tyco Electronics**

Our commitment. Your advantage.

Rotary Index Table



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