



Medallion Technology, LLC.

TWI-2200 AUTOMATIC INSERTION MACHINE

U.S. PATENT PENDING

The TWI-2200 is an automatic insertion machine designed for use with Twisted Wire Interconnects [TWI]. The TWI-2200 is loaded with TWI's and the target media such as a PCB or MCM stack. The TWI-2200 then picks a TWI, and automatically places, inserts, and seats it into the appropriate via. The leader is then trimmed and removed. The process repeats as required.

BASE MACHINE

Assembly rate up to 3,600 CPH
Media dimensions – 18.000" x 18.000"
Assembled stack thickness up to 2.000"
TWI cartridge system – 10K+ capacity
TWI product changeover – minutes
7-Axis system – 5 servo / 2 stepper
Insertion positional accuracy +/-0.0002"
Vision system w/cameras & lighting
Self contained scrap removal system
Keyence safety light curtain system
SMEMA® production line compatible

SOFTWARE FEATURES

Rackmount PC control w/Intel Pentium V
Microsoft Windows® operating system
Microsoft Visual Basic.NET GUI
Productivity reports
Machine utilization reports
Maintenance diagnostics & tracking
Network ready

PHYSICAL

Size: 54" L x 60" D x 78" H
Weight: 2,400 lbs.
Power: 120V/60Hz/single phase/20Amp
Pressure: 80 PSI CDA/Nitrogen
Environment: cleanroom class >10,000
Noise level: <60dB
Installation: forklift/roll-in-place

OPTIONS

PCB/MCM material pallet
TWI component cartridges
Customizations per application
Application hardware – .005/.010/.015
In-line conveyor – SMEMA® compatible
Bar coding

TWI COMPONENT RANGE

Size	0.005	0.010	0.015
Bulge Ø	0.010	0.020	0.030
Bulge length	0.025	0.050	0.075
Via Ø*	0.008	0.018	0.028
Max. length	2.000	2.000	2.000

*Note: "Via Ø" is the finished plated through-hole recommended by MTLLC



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