Application Tooling > Pin Insertion Machines

Our fully-automatic P300 automatic machine processes reeled press-fit and thru-hole components. As a stand-alone unit or in an SMEMA compatible production line, it increases throughput by lowering cycle times and scrap. A multi-tasking control unit controls and monitors the entire system throughout the production cycle and an optional insertion force monitoring system allows the verification of every component applied for quality assurance.

Features
For Your Current and Future Tooling Needs

- Board capacity up to 420 x 360mm [16.5" x 14.2"]
- Up to four insertion heads on automatic changer
- Tool conversion kit for changeover in less than 10 minutes (compatible with P100/P300/P360/P550)
- Freely programmable insertion angle (rotation of up to ±90-degree has no influence on insertion rate)
- Insertion rate up to five cycles/second (up to three contacts per stroke)
- Single, double and triple pin insertion
- Active lower anvil provides support to the PCB during insertion and offers special actions such as clinching (when applicable)
- Flexible PCB and lower support tool equipped with pin presence check support for enhanced productivity
- Corresponding anvil changer is available for huge variety of supporting geometries
- Real-time force monitoring for 100% quality assurance (maximum force and force vs. distance monitoring)
- Maximum Insertion Force 900N (more possible on request)
- Vision system for PCB alignment accuracy
- Servo Motors for XY
- Fully-automated, inline capable
- Up to two different contacts on one tool position with twin feed tool
- Touch screen provides simple programming and an intuitive operator interface
- Able to process any manufacturer’s reeled contacts (including Nano contacts)
Contact bending feature allows for the bending of contacts up to 90-degrees
- PCB thickness tolerance compensation
- Full traceability capabilities
- Industry 4.0 ready with modularization options

Pin Insertion Machines Overview (English)
Learn more about our Pin Insertion Machines, which are engineered to apply products from TE and other manufacturers to meet your diverse production requirements.

Applications
- Printed circuit boards (PCBs) + housings

Reeled Products Processed
- Press-fit contacts
- Solder contacts
- Pins and tabs
- Sockets
- Spring contacts
- Continuous wire
- F-Post

TE P Series

P550 Pin Insertion Machine
Engineered for high-volume PC board processing, our P550 Pin Insertion machine offers multi-head, high-speed performance at 5+ strokes/second on a 30mm pitch.

P360 Pin Insertion Machine
Our modular, high-speed P360 Pin Insertion Machine is engineered for high volume production and suited for a wide variety of line configurations.

P100 Pin Insertion Machine
Our semi-automatic P100 Machine was designed with a focus on mid-volume production and provides a broad range of features, including a touch-screen for simple programming and automatic setup.

P10 Single Pin Insertion Station
Suited for repair of very low volumes and designed for convenience and ease of operation.
P300 PIN INSERTION MACHINE
TE Model #: CAT-P300
TE Internal #: CAT-P300

Other

<table>
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<tr>
<th>Maximum Contacts (seconds)</th>
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Related Materials

Catalog Section
Pin-insertion-and-Press-Fit-Machines_2-1773452-6
English

Catalog Section
TE Pin Insertion Machines
English