



# P350 Insertion Machine for PCB Positioning

## Features

- AC servo motors for X/Y-Table, Lower Tool and Insertion Tool
- Insertion Tool Changer with three Base Tools (Conversion Kits are not included)
- PCB Transfer Belts for Integration into Production Line
- Insertion Force Monitoring System
- Touch-Screen with Windows based, easy-to-use operator interface
- Bar-Code Scanner for Reel and/or PCB
- Capture of Production Data

## Options

- Vision system for automatic position correction
- PCB thickness measuring and adjustment of insertion depth for consistent quality
- Full production traceability

## Technical Data

### Dimensions [mm]

Width x Length x Height  
1560 x 3000 x 2200 including Reel holder

### Electrical Supply

230 V, 50 - 60 Hz, 10 A

### Compressed Air Supply

600 kPa, dried air

### PCB Size [mm]

max. 450 x 450

### Insertion Area [mm]

350 x 350

### Transport Direction

left to right

### Interface

SMEMA

### Weight

1600 kg

### Insertion Rate

4.5 cycles per second  
at a pitch of 5.08 mm

## Compatible

### Tyco Electronics Terminals

Conversion kits for a large variety of Tyco Electronics ACTION PIN terminals and solder contacts are available, for instance

- Press-Fit Pins and Tabs
- AMPMODU sockets
- JT with ACTION PIN
- Flat solder tabs
- ACTION PIN F-post
- E-O-N Contacts

Tooling for other contacts will be made available on request.

This machine combines highest productivity and flexibility with a state-of-the-art touch screen operator interface.

Besides product specific conversion kits the machine is fully equipped and ready for operation.

The P 350 is a fully automatic insertion machine with the ability to handle a large variety of Tyco Electronics terminals as well as customer specific terminals.

A standard P 350 machine comes with three base Insertion Tools mounted onto an automatic Tool Changer.

These base tools can easily be equipped with existing or customer specific conversion kits for a large range of terminals.

All heads are equipped with rotary insertion fingers to allow the insertion of terminals at different angles without the need to rotate the board.

The PCB transfer belts enable the machine to be incorporated into an automatic production line.

A standard Insertion Force Monitoring system guarantees a 100 % quality check for each press-fit terminal.

All production relevant data e.g. insertion force, PCB bar-code and contact bar-code can be collected due to a traceability tool which provides an ASCII file enabling the customer for use in HOST systems.

The operator interface has been designed for easy use.

With a maximum insertion rate of 4.5 cycles per second Tyco Electronics provides a production capacity which is difficult to match in the market place.

The programmable insertion of two .63 mm pins per cycle doubles the output.

#### **Standard Machine PN 1372200-2**

Pin to be inserted must be specified when ordering the machine.

## Global Application Tooling Contacts EMEA

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