PIN INSERTION MACHINES
A WIDE RANGE OF PRODUCTION EQUIPMENT FOR COMPLIANT PIN TECHNOLOGY
LINE OF PIN INSERTION MACHINES

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Quality Management
• Fitting into Industry 4.0 trend of automation
• Customized for individual Manufacturing Execution Systems (MES) solutions
• Tool management to support optimum quality management
• Quality monitoring functions, like
  - Pin penetration sensing
  - Pin presence detection
  - Electrical continuity sensing
  - Force vs. distance monitoring
  - Vision system for accuracy
• Quality control data stored in the system for future traceability
• No loss in time, since going parallel to pin insertion

Flexibility for Production
• Modular machine concept
• Modular tool concept
• Extremely wide range of conversion kits available
• Application of up to 6 different contacts on one machine
• Easy and quick change product tool pack

TE Connectivity (TE) insertion machines
• Flexible configuration of machines
• Full range of machine portfolio from manual repair and low volume systems up to highly configurable systems with all grades of automation and max performance of up to 15 pins per second
• Accessories enhancing flexibility and productivity
• Highest performance and quality
• World wide field service available to maximize uptime

Applied Cost Savings
• Rotary insertion finger applies products at different angles without decreasing insertion rate
• Product specific tooling
• Easy change from one product to another
LINE OF PIN INSERTION MACHINES

P10 Single Pin Insertion Station

Machine
• For repair of very low volumes
• Manual press with ratchet mechanism
• Adapter for product specific insertion fingers
  (also used on TE Connectivity P300 and P350 insertion machines)
• Force versus distance monitoring on touch screen monitor
• Application of a single pin, manually loaded into the insertion finger
• PCB positioned on support tool
• Separate tool available to cut contacts from carrier strip

Product Features
• Convenient and easy operation due to a touch screen monitor
• Single pins can be interchanged on a complete equipped PCB
• High insertion quality due to press cycle monitoring with PQM

Products which can be processed
• ACTION PIN contacts
• AMPMODU contacts
• Cross contacts
• EON board to board
• EON board to housing
• FEC pins
• GDS contacts
• Junior Timer
• Junior Power Timer
• MQS pins
• PCB contacts
• PCB coupler
• Solder tabs
• Spring contacts
• Tabs
• Please contact your local TE Connectivity representative for your special requirement
LINE OF PIN INSERTION MACHINES

P100 Pin Insertion Machine

Machine
• Stand alone
• Manual PCB/panel loading
• For mid-volume level production up to 5 million contacts per shift and year
• Up to 2 insertion heads

Standard Features
• Servo driven base insertion head
• Conversion kits compatible with P50/P300/P350/P360
• Freely programmable insertion angle
• Easy changeover of the conversion kits within < 10 min
• Adjustable PCB support to provide production flexibility
• Lower support tool equipped with pin presence check
• Clinching in lower tooling possible
• Easy-to-use touch screen allowing simple programming and automatic setup

Quality Management
• In line with Industry 4.0 standards
• Customized for individual Manufacturing Execution Systems (MES) solutions
• Force monitoring
• Force vs. distance monitoring
• Pin presence detection
• Vision system for accuracy
• Tool management
• Machine capability study

Products
Tools for wide range of TE and non-TE contacts available for:
• Press-fit contacts
• Solder contacts
• Pins and tabs
• Sockets
• Spring contacts
• Continuous wire
• F-post

Options for P100
• 1.5 insertion cycles per second at 5.08 mm pitch
• Fixed base tool
• Max number of base tools: 2
• Reel unwinder
• XY table
• Manual loading of PCB
• Light curtain
• Pneumatic anvil
• Vision system
• Insertion force monitoring
• Force vs. distance monitoring
• Tool setup check
• PCB scan
• Data collect
• MES connector
• Production data
Machine Performance of P100

- Insertion force max 900 N
- PCB size max 420 x 360 mm (16.5 x 14 in)
- PCB size min 30 x 30 mm (1.2 x 1.2 in)
- Insertion area 300 x 310 mm (11.8 x 12 in)
- Camera inspection area without tool changer 400 x 310 mm (15.8 x 12.2 in)
- PCB thickness: 1 - 1.9 mm (.04 – .075 in)
- Max height of components/top side: 30 mm (1.2 in)
- Max height of components/bottom side: 25 mm (.985 in)
- Insertion speed of pin: max 150 mm/sec (5.9 in/sec)
- Reel/outer diameter: < 800 mm (31.5 in)

General Machine Data of P100

- Supply voltage: 230 V
- System frequency: 50/60 Hz
- Phases: 1
- Power consumption during production: 1.8 kW
- Power consumption during standby: 600 W
- Air pressure: 500 – 800 kPa
- Air consumption: 100 l/min
- Operating temperature: 10 – 50 °C
- Storage temperature: 10 – 50 °C
- Humidity: 10 – 60 % (non-condensing)
- Footprint (W x D x H): 143 x 110 x 170 cm (56.3 x 43.3 x 67 in)
- Sound pressure level (machines with light curtain): < 80 dB(A)
- Painted surfaces RAL 7035
LINE OF PIN INSERTION MACHINES

P300 Pin Insertion Machine

Machine
- Automatic pin insertion machine for the application of reeled pins, tabs, receptacle and similar products into PCBs
- Flexible and fully automatic insertion machine
- Available either as stand alone unit or integrated into a production line
- For mid and high volume level production (up to 15 million insertions per shift and year)
- Up to 4 insertion heads (up to 6 different contacts with Twin Feed)
- Double and Triple pin insertion

Standard Features
- Servo driven base insertion head
- Conversion kits compatible with P50/P100/P350/P360
- Freely programmable insertion angle (rotation having no influence on insertion rate)
- Easy changeover of the conversion kits within < 10 minutes
- Adjustable PCB support to provide production flexibility
- Lower support tool equipped pin presence check
- Clinching in lower tooling possible
- Easy-to-use touch screen allowing simple programming

Quality Management
- Fulfilling Industry 4.0 requirements
- Customized MES solutions
- Force monitoring and Force vs distance monitoring
- Pin presence detection
- Vision system for accuracy
- Tool management
- Machine capability study

Options for P300
- 1.5 insertion cycles per second at 5.08 mm pitch
- Tool changer
- Fixed base tool
- Max number of base tools: 4
- Motor driven feed of pins
- Twin feed tool
- Triple pin mode
- PCB flip unit
- Simultaneous PCB transfer/Inline
- Manual loading
- Light curtain
- Servo anvil
- Servo Anvil with Rotation
- Anvil changer
- Vision system
- PCB thickness measurement
- Insertion force monitoring
- Force vs. distance monitoring
Machine Performance of P300
• Insertion force max 900 N
• PCB size max: 420 mm x 360 mm (16.5 x 14 in)
• PCB size min: 80 mm x 80 mm (3.15 x 3.15 in)
• PCB size max for P 300 with flip unit: 340 mm x 220 mm (13.4 x 8.7 in)
• Insertion area (P 300 without flip unit): 410 mm x 340 mm (16.15 x 13.4 in)
• Camera inspection area without tool changer: 330 mm x 340 mm (13 x 13.4 in)
• PCB thickness: 1 – 1.9 mm (.04 up to .075 in)
• Max height of components/top side: 30 mm (1.18 in)
• Max height of components/bottom side: 25 mm (.985 in)
• Insertion cycles per second in a pitch of max 5.08 mm: 3
• Insertion speed of pin: 0 – max 300 mm/sec (max 11.8 in/sec)
• Reel / outer diameter: < 800 mm (31.5 in)

Machine Data of P300
• Supply voltage: 400 V
• System frequency 50/60 Hz
• 3 Phases
• Power consumption during production: 2.8 kW
• Power consumption during standby: 700 W
• Air pressure: 500 – 800 kPa
• Air consumption: 100 litres/min
• Operating temperature: 10 – 50 °C
• Storage temperature: 10 – 50 °C
• Humidity: 10 – 60 % (non-condensing)
• Sound pressure level (machines with light curtain): < 75 dB (A)
• Sound pressure level (machines with light curtain): < 80 dB(A)
• Painted surfaces: RAL 7035

Physical Dimensions of P300 insertion machine
• Width: 1.500 mm (60 in)
• Depth: 1.700 mm (67 in)
• Height: 2.200 mm (87 in)
• Weight: Approx.: 1.600 kg (3520 lb)

Products processed by P300
• Press-fit contacts
• Solder contacts
• Pins and tabs
• Sockets
• Spring contacts
• Continuous wire
• F-post

Tools designed for wide range of reeled components (TE and non-TE contacts.) Processing of loose piece components and continuous wire is also possible and available upon request.
LINE OF PIN INSERTION MACHINES

P350 Pin Insertion Machine

Machine
• Flexible and fully automatic high speed operation machine for application of reeled components
• For integration into production line
• For high volume level production
  - Up to 4 insertion heads
  - Up to 6 different contacts with Twin Feed
• Double and triple pin insertion

Standard Features
• Servo driven base insertion head
• Conversion kits compatible with P50/P100/P300/P360
• Freely programmable insertion angle
  (Rotation has no influence on insertion range)
• Easy changeover of the conversion kits within < 10 minutes
• Adjustable PCB support to provide production flexibility
• Lower support tool equipped with pin presence check
• Clinching in lower tooling possible
• Easy-to-use touch screen allowing simple programming

Quality Management
• Fulfilling Industry 4.0 requirements
• Customized MES solutions
• Force monitoring and Force vs distance monitoring
• Pin presence detection
• Vision system for accuracy
• Tool management
• Machine capability study

Component Capability
Reeled components. Can be press-fit or through-hole solder components such as pins, tabs and receptacles. Can apply products from TE Connectivity or other manufacturers. Processing of loose piece components and continuous wire is available upon request.

Physical Dimensions
• Width: 2.600 mm (102 in)
• Depth: 3.000 mm (118 in)
• Height: 2.200 mm (87 in)
• Weight: Approx. 2.000 kg (4410 lb)
**Options for P350**
- 4.5 insertion cycles per second at 5.08 mm pitch
- Tool changer
- Fixed base tool
- Max number of base tools: 4
- Motor driven feed
- Twin feed tool
- Triple pin mode
- PCB flip unit
- Simultaneous PCB transfer/inline
- Servo anvil
- Servo anvil with rotation
- Anvil changer
- Vision system
- PCB thickness measurement
- Insertion force monitoring
- Force vs distance monitoring

**Machine Performance of P350**
- Insertion force max 900 N
- PCB size max: 420 x 360 mm (16.5 x 14.2 in)
- PCB size min: 80 x 80 mm (3.15 x 3.15 in)
- PCB size max with flip unit: 200 x 200 mm (7.85 x 7.85 in)
- Insertion area (P 300 without flip unit): 410 x 340 mm (16.15 x 13.4 in)
- Camera inspection area with tool changer: 410 x 340 mm (16.15 x 13.4 in)
- Camera inspection area without tool changer: 330 mm x 340 mm (13 x 13.4 in)
- PCB thickness: 1 – 1.9 mm (.04 – .075 in)
- Max height of components/top side: 30 mm (1.2 in)
- Max height of components/bottom side: 25 mm (.985 in)
- Insertion cycles per second in a pitch of max 5.08 mm (.2 in): 4.5
- Insertion speed of pin: 0 – max 450 mm/sec (0 – 17.7 in/sec)
- Reel/outer diameter: < 800 mm (31.5 in)

**Machine Data of P350**
- Supply voltage: 400 V
- System frequency 50/60 Hz
- 3 Phases
- Power consumption during production: 2.8 kW
- Power consumption during standby: 700 W
- Air pressur: 500 – 800 kPa
- Air consumption: 100 litres/min
- Operating temperature: 10 – 50 °C
- Storage temperature: 10 – 50 °C
- Humidity: 10 – 60 % (non-condensing)
- Footprint: W x D x H: 240 x 190 x 220 mm (9.5 x 7.5 x 8.7 in)
- Sound pressure level (machines with light curtain): < 75 dB (A)
- Painted surfaces: RAL 7035

**Products processed by P350**
- Press-fit contacts
- Solder contacts
- Pins and tabs
- Sockets
- Spring contacts
- Continuous wire
- F-post

**Tools designed for wide range of reeled components (TE and non-TE contacts.) Processing of loose piece components and continuous wire is also possible and available upon request.**
LINE OF PIN INSERTION MACHINES

P360 Pin Insertion Machine

Machine
• Modular high speed insertion machine
• Available as stand alone unit or integrated into production line
• Fully automatic and flexible
• For high volume level production (up to 25 million insertions/shift and year)
• Ideal for broad variety of line configurations
• Single insertion head (up to 2 different contacts with twin feed)
• Double and triple pin insertion

Standard Features
• Servo driven base insertion head
• Conversion kits compatible with P50/P100/P300/P360
• Freely programmable insertion angle (Rotation has no influence on insertion range)
• Easy changeover of the conversion kits within < 10 minutes
• Adjustable PCB support to provide production flexibility
• Lower support tool equipped with pin presence check
• Clinching in lower tooling possible
• Easy-to-use touch screen allowing simple programming

Options for P 360
• 4.5 insertion cycles per second at 5.08 mm (.2 in) pitch
• Tool changer
• Fixed base tool
• Max number of base tools: 1
• Motor driven feed
• Twin feed tool
• Triple pin mode
• PCB flip unit
• Simultaneous PCB transfer/inline
• Servo anvil
• Servo anvil with rotation
• Anvil changer
• Vision system
• PCB thickness measurement
• Insertion force monitoring
• Force vs distance monitoring

Line Configurations
Stand alone

Modular line

with inlet conveyor
without inlet conveyor
Line Configurations

Extension of 3 Head Machine

Machine Performance of P 360
- Insertion force max 900 N
- PCB size max: 420 x 360 mm (16.5 x 14.2 in)
- PCB size min: 80 x 80 mm (3.15 x 3.15 in)
- PCB size max with flip unit: 200 x 200 mm (7.85 x 7.85 in)
- Insertion area (P 300 without flip unit): 410 x 340 mm (16.15 x 13.4 in)
- Camera inspection area with tool changer: 410 x 340 mm (16.15 x 13.4 in)
- Camera inspection area without tool changer: 330 mm x 340 mm (13 x 13.4 in)
- PCB thickness: 1 – 1.9 mm (.04 – .075 in)
- Max height of components/top side: 30 mm (1.2 in)
- Max height of components/bottom side: 25 mm (.985 in)
- Insertion cycles per second in a pitch of max 5.08 mm (.2 in): 4.5
- Insertion speed of pin: 0 – max 450 mm/sec (0 – 17.7 in/sec)
- Reel/outer diameter: < 800 mm (31.5 in)

Machine Data of P 360
- Supply voltage: 400 V
- System frequency 50/60 Hz
- 3 Phases
- Power consumption during production: 2.8 kW
- Power consumption during standby: 700 W
- Air pressure: 500 – 800 kPa
- Air consumption: 100 litres/min
- Operating temperature: 10 – 50 °C
- Storage temperature: 10 – 50 °C
- Humidity: 10 – 60 % (non-condensing)
- Footprint: W x D x H: 240 x 190 x 220 mm (9.5 x 7.5 x 8.7 in)
- Sound pressure level (machines with light curtain): < 75 dB (A)
- Painted surfaces: RAL 7035

Products processed by P 360
- Press-fit contacts
- Solder contacts
- Pins and tabs
- Sockets
- Spring contacts
- Continuous wire
- F-post

Quality Management
- Fulfilling Industry 4.0 requirements
- Customized MES solutions
- Force monitoring and Force vs distance monitoring
- Pin presence detection
- Vision system for accuracy
- Tool management
- Machine capability study

Extension of 4 head Machine
LINE OF PIN INSERTION MACHINES

Insertion Heads – Conversion Kits

• Modular insertion tools for P50/P100/P300/P350
• Quick tooling change on the insertion head possible by concept of product specific conversion kits
• Conversion kit consisting of cutting unit and feeding mechanism
• Product specific insertion finger mounted onto base head
• Base tool provides the power for all movements of the conversion kit
• Simple coding system for automatic identification by the machine control
• Wide range of conversion kits for various TE Connectivity and non TE Connectivity products

Please contact your local TE Connectivity representative for details on tooling for a specific product.
<table>
<thead>
<tr>
<th>Base Machine</th>
<th>Pin Insertion Machine</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Option</strong></td>
<td><strong>P100</strong></td>
</tr>
<tr>
<td>Pneumatic Anvil</td>
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<tr>
<td>Servo Anvil</td>
<td>—</td>
</tr>
<tr>
<td>Servo Anvil with Rotation</td>
<td>—</td>
</tr>
<tr>
<td>Anvil Changer</td>
<td>—</td>
</tr>
</tbody>
</table>

**Pneumatic Anvil**

**Servo Anvil**

**Servo Anvil with Anvil Changer**

**Servo Anvil with Rotation**
LINE OF PIN INSERTION MACHINES

Maintenance and Service

Customer Service
• Error/Malfunction Diagnosis and Repair
• On site support
• Software upgrades and updates

Maintenance
• Contracts for regular maintenance on yearly basis
• Base insertion head maintenance and reconditioning
• Analysis and documentation of machine condition
• Frame contracts about maintenance on request

Training Service
• Training for operators
• Training for process and production engineering
• Training for maintenance personnel

Calibration
• Calibration check of force meters by comparative measurement
• ESD Audit
• Machine capability studies based on standardized procedures

Upgrading Service
• Upgrade of operation system up to complete change of computer system
• Upgrade of waste disposal system
• Upgrade double pin feeder system
• Upgrade to simultaneous transport

Spare Parts Service

Field Service
TE Application Tooling has a broad network of field service engineers who cover almost all the countries worldwide. The engineers have all the knowledge to help you on a professional level with your equipment and may be able to improve the manufacturing efficiency. In addition to installation and repair service, we can assist with equipment selection, training, troubleshooting, service contracts and spare parts.

Field Service Main Categories
• Standard Service
• Express Service
• Installations
• Operating, Maintenance and Training
• Repair
• Contract Service
• Standard Training Courses

Technical questions or problems?
Contact the EMEA Field Service Hotline.
Opening Hours
Monday – Thursday 08:00 – 16:00
Friday 08 – 14:00
Phone: +49-6151-607-1518
E-Mail: FieldServiceEMEA@te.com
Please note that the service hotline staff speaks English or German.
<table>
<thead>
<tr>
<th>Base Machine</th>
<th>P100</th>
<th>P300</th>
<th>P350</th>
<th>P360</th>
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<tbody>
<tr>
<td>Insertion Cycles per Second (5.08 mm Pitch)</td>
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<td>Tool Change</td>
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<td>Fixed Base Tool</td>
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<td>Maximum Number of Base Tools</td>
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<td>Twin Feed Tool</td>
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<td>Triple Pin Mode</td>
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<td>Reel Unwinder</td>
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<td>XY Table</td>
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<td>PCB Flip Unit</td>
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<td>Simultaneous PCB Transfer / Inline</td>
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<td>Manual Loading</td>
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<td>Light Curtain</td>
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<td>Pneumatic Anvil</td>
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<td>Servo Anvil</td>
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<td>Servo Anvil with Rotation</td>
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<td>Anvil Changer</td>
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<td>Vision System</td>
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<td>PCB Thickness Measurement</td>
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<td>Insertion Force Monitoring</td>
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<td>Force vs. Distance Monitoring</td>
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<tr>
<td>Tool Setup Check</td>
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<td>PCB Scan</td>
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<td>Reel Scan</td>
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<td>Data Collect</td>
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<td>MES Connector</td>
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<tr>
<td>Production Data</td>
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</table>
# REQUEST FOR QUOTE

## Details of requested Insertion Machines

<table>
<thead>
<tr>
<th>requested (x)</th>
<th>comments</th>
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<tbody>
<tr>
<td>Servo driven anvil with freely programmable rotation</td>
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<tr>
<td>Anvil changer for 3(4) anvils</td>
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<tr>
<td>Insertion force monitoring</td>
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<td>Force vs distance monitoring</td>
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<td>PCB thickness measuring (inlet)</td>
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<td>PCB thickness measuring (XY)</td>
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<tr>
<td>Vision system</td>
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<td>PCB transfer belts</td>
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<td>PCB flip unit</td>
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<td>Cata collect</td>
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<td>PCB barcode scan</td>
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<td>Reel scan</td>
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<td>Connection to MES system</td>
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<td>Production Data Acquisition</td>
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<tr>
<td>i-Button for conversion kits</td>
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<tr>
<td>Tool setup check</td>
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<tr>
<td>Offline programming tool</td>
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<tr>
<td>Transformer (if 3 x 400 V supply not available at final location)</td>
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<tr>
<td>Translation into other Language</td>
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<tr>
<td>Warranty extension to 24 month</td>
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<td>Packaging</td>
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<td>Transport</td>
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<tr>
<td>Training in Feuchtwangen</td>
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<tr>
<td>Training on site in final location</td>
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<tr>
<td>Installation on site</td>
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</table>
REQUEST FOR QUOTE

Questionnaire for Insertion Machines

To get a budgetary quote for an insertion machine P100/P300/P350/P360, please answer the following questions and fax the questionnaire to TE Connectivity Europe +49(0)7964-201-6002 or -6004 or email a copy to our Tooling Assistance Center, email address: tac-emea@te.com.

Company Name

Customer Contact    Title

Address

City    State    ZIP Code    Country

Phone Number    Fax Number

TE Customer Acct Number    E-Mail Address

TE Representative

Product to apply:    P/N:

Product to apply:    P/N:

Product to apply:    P/N:

Size of PCB(s):    Please attach drawings, CAD models (stp files) of printed circuit boards and contacts

Number of printed circuit boards per year or expected cycle time:

Position of the PCB in the panel, positions of the contacts to be placed (x,y,rotation, height), clamping hole positions, position of PCB barcode, position of thickness measuring, already existing components with their dimensions (might interfere with tools), flow direction of PCB.

Height of components already on PCB:    Application side:    [mm]    Solder side:    [mm]

Number of products per PCB:    Number of PCBs per year:
Let's Connect

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