New generation High-speed Pin-insertion machines.
IT’S TIME FOR A CHANGE

It’s an evolution, it’s a revolution. Industry evolves with The Internet of Things, the Industrie 4.0 and the Smart Production,... An even if the name varies internationally, the main idea stays the same.

Focused to be the best business partner and to add value to any production line, Lazpiur sets the path in terms of design, productivity, control, user friendly and digital interaction concepts.

The all new INSERT H2 (two double heads) and INSERT H1 (one double head) have been developed entirely re-thinking the holes process and setting the new standard of pin insertion machines.
NEW MACHINE GENERATION

For Lazpiur, future is today.

The new generation pin insertion machines are faster, more compact, more modular, adaptative, intuitive and user friendly.
Lazpiur embraces the co-creation +
customer listening and the work of the
last years is now available in the new pin
insertion machines.

We've listened to our customer needs and
demands and launched a future ready
machine program.

**ADDING VALUE**

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**1/ FOR BUSINESS**

- Quick ROI
- Multi - Project machines
- Adaptability
- Customization
- Space Optimization
- High-tech factory

**2/ FOR PRODUCTIVITY**

- Faster Speed
- New Head
- Modular Configuration
- New Visual Quality Control

**3/ FOR PEOPLE**

- User friendly Interface
- Full Ergonomics
- Easy Access
- Improved Easy Roll Change
- Light Alerts and Interaction
- Safe

**4/ FOR MAINTENANCE**

- Remote Assistance
- Front Accessibility
- Rear Accessibility
- Upper Accessibility
- Access Stair
1/ FOR BUSINESS

HIGH-TECH FACTORY

Tech Image

Lazpiur opts for our modern compact design in order to optimize and modulate processes. Customizable light control which offers collaboration setting to the client.

Adaptability and Customization

Lazpiur masters the customization of each machine and every project needs. The new generation of machines integrates the concept "Conversion-Kit" allowing a quick change of terminals to be inserted in each clamp and making each machine a multi-project platform.

This concept also allows to easily integrate future projects in this production line or adapt and reuse the same machine on different lines.

Space Optimization

The new generation of Lazpiur’s inserting machines will allow to insert a higher number of terminals in a minor space of your line

- **Insert H1** up to 2 terminals.
- **Insert H2** up to 4 terminals.

Color customization for better customer focused integration.
New clamp

The new innovative clamp developed by Lazpiur allows to insert as far as two different terminal models. It also allows to insert paired terminals with different roller pitch and terminal distance in PCB.

Production

The new clamp and its optimized system now allow to insert terminals in the desired orientation rotating the insertion handle.

The option of inserting two terminals in one clamp eliminates the down time within the movement between clamps, reducing fixed times up to 30%.

Ratio of insertion increment up to 25%

Vision Quality Control

Always in pursuit of optimal results, INSERT gamma offers a new terminal insertion quality control through optimized vision cameras.

- Dimensional control before cut
- Cut symmetry

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Insertion rate</td>
<td>Max. 390 insertion strokes/min</td>
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<tr>
<td>Loading and unloading total</td>
<td>4 sec.</td>
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<tr>
<td>Positioning accuracy</td>
<td>Cmk ≥ 2 with +/-0.025 mm</td>
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<tr>
<td>Insertion angle</td>
<td>360° by servomotor</td>
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<tr>
<td>Board capacity</td>
<td>350 x 350 mm</td>
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<tr>
<td>Standard left to right feed</td>
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<tr>
<td>Changeover time</td>
<td>1-6 min</td>
</tr>
<tr>
<td>Compressed air</td>
<td>5-7 bar</td>
</tr>
<tr>
<td>Machine power consumption</td>
<td>43 Kva</td>
</tr>
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</table>
Modular design.

The new machine generation Insert H2 and Insert H1 allow to set the production line composition in function of cycle time goals, space availability and quantity of terminals to be inserted.
USER FRIENDLY & ERGONOMICS

Easy Interaction
The machine comes with an easy recognizable light alert code and as a result, facilitates efficient maintenance optimizing each process timing.

Easy roller change
Each roller is extracted with a robust double-rail system to an exterior position with total accessibility for the operator. The change is now faster, simpler and more comfortable.

Safety
New Lazpiur’s Machine Generation is compliant with ESD and CE regulations, and has been designed to maximize the user’s security.

Visual ergonomics and color alerts
The easy visual identification of the processes different moments and needs is a functional and strategic breakthrough as a new way to relate the operator-machine duality.
IMPROVED USABILITY

3/ FOR PEOPLE

Touch interface, intuitive, interactive and user friendly

The new insert interface offers wide screen that, thanks to a software redesign, are friendly and intuitive with a faster learning curve than ever.

New Generation Software

Multi language programming allows its use to different operators from different regions or reusing the machine in different production centers. Furthermore, the interface allows to visualize production data in real time.
**3/ FOR MAINTENANCE**

**IMPROVED ACCESSIBILITY & CONNECTIVITY**

**Total access**

The broad front gate is opened with a reduced space need, making the machine’s full front side accessible. The back gate also makes full back side accessible and both laterals are removable for this purpose.

**Steps**

With the front gate open, the machine provides a folding step, on top of which the operator will be able to easily reach the totality of the front side space, facilitating the user’s maneuvers, comfort and security.

**Remote assistance**

Insert H2 machine is equipped with a remote access option. This will allow Lazpiur’s technicians from their work station and provide a reliable diagnosis in case of any possible incident.
TECHNICAL DATA.

<table>
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<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
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<td>Insertion rate</td>
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<td>Loading and unloading time total</td>
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<td>Positioning accuracy</td>
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<td>Insertion angle</td>
<td>360° by servomotor</td>
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<tr>
<td>Board capacity</td>
<td>350 x 350 mm</td>
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<tr>
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**Physical dimensions INSERT H2**
- Width: 2500mm
- Depth: 1800mm
- Height: 2200mm
- Weight: 2500kg.

**Physical dimensions INSERT H1**
- Width: 1850mm
- Depth: 1800mm
- Height: 2200mm
- Weight: 2000kg.

GENERAL SPECIFICATIONS.

- Real time insertion force monitoring or force-distance monitoring for quality assurance on press-fit applications
- Active anvil for pcb support, insertion verification and force monitoring
- Pin height measuring protrusion from pcb bottom side (optional)
- Hand scanner for change tooling and material verification (optional)
- Top board dmc scanner
- Bottom board dmc scanner (optional)
- Top and bottom insertion by external panel flipping system (optional)
- Quick change product specific conversion kits allow product flexibility
- Scalable production solutions through modular design
- Noise pressure level: ≤75 db(a)
- Smema interface
- Re work mode to reduce production reject rate
- Terminals automatic expulsion system
- Measurement of panel thickness for automatic insertion depth adjustment (optional)
- Specific programmable insertion depth adjustment per stroke (optional)
- Vision inspection for an early detection of geometric material deviations (optional)
- Vision inspection for terminal symmetric cut line inspection (optional)
- Capable of up to 4 different terminals with 2 double servo activated insertion heads
- Conveyor and pcb table automatically width adjustment (optional)
- Downward looking vision system for automatic board position correction
- Data provision for customer’s data management system
- Accessible and esd proofed guards
- User friendly and intuitive HMI
- Insertion force max. 1,200 N
- Reel/outer diameter ≤600 mm
- Fulfilling Industry 4.0 requirements
- Possibility of line configuration for takt time balance
- Double and triple pin insertion mode
- Double pin insertion mode (hole distance ≠ pitch)
- Emergency spare part kit (optional)
- Remote desktop connection
Customer service and international operations have been key on the strategy of the company.

Today Lazpiur is a world wide service company providing the best solutions anywhere in the world.

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- U.S.A.
- Mexico
- Brazil
- France
- Italy
- Portugal
- North Africa

**Sales**

- England
- Sweden
- Hungary
- Czech Republic
- Poland
- Romania
- China

- Philippines
- Korea
- India
- Bulgaria
- Chile
- Tunisia

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