

High-speed Pin-insertion machines.



LAZPIUR

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,...
And 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 —
embracing digital transformation and the rise
of artificial intelligence as part of tomorrow's industry.

SMART



Featuring a single double
head capable of inserting
two different components
– designed for less com-
plex projects that demand
high precision.

LZ



High versatility, capable
of inserting any
component – a machine
with over 20 years of
proven performance
in the market.

H4



Combining production perfect balance capacity with flexibility, it offers the perfect balance for manufacturers seeking efficiency and adaptability.

H2²



Built for high-volume production, offering the ability to insert up to four different terminals – the top-of-the-line model.

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SMART INSERTION MACHINES



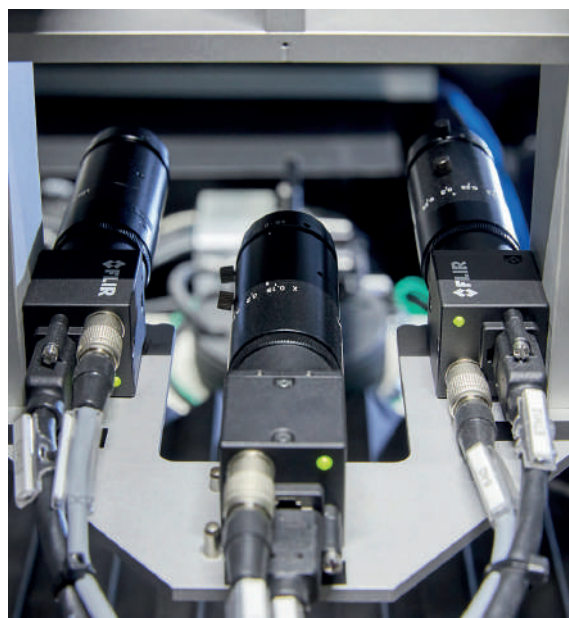
**Featuring a single double head of inserting two different components
– designed for less complex projects that demand high precision.**

PERFORMANCE

Operates at 300 strokes per minute with the capacity of inserting 3 pins per stroke. Designed to handle up to 4 terminals with 2 double heads and a 360° insertion angle

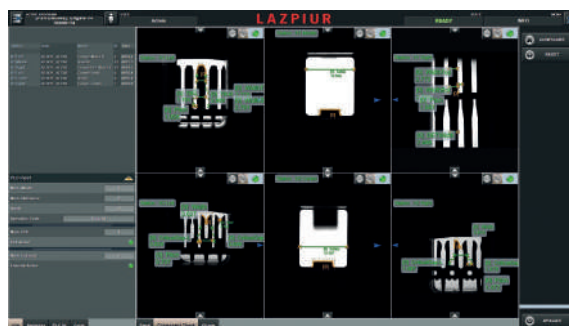
QUALITY CONTROL

Vision inspection for both early detection of geometric material deviation and terminal symmetric cut-line inspection.



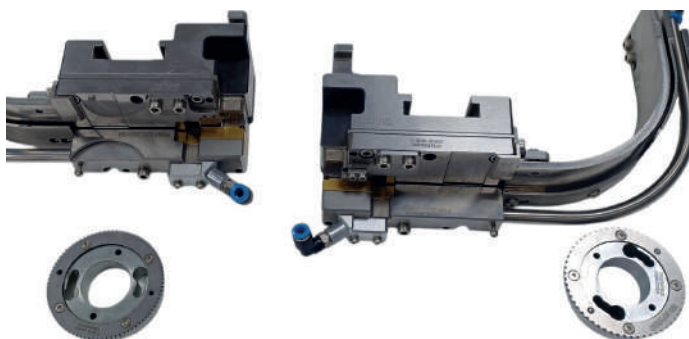
ACCESSIBLE AUTOMATION SOLUTION

With a compact and modular design, it is a user-friendly machine that offers the most accessible solution to automate the press-fit insertion process and achieve a fast ROI.



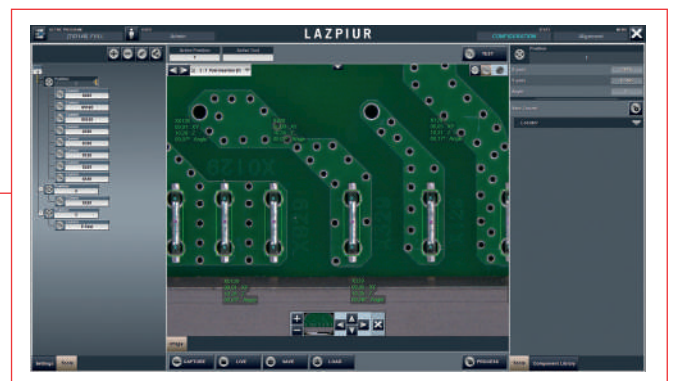
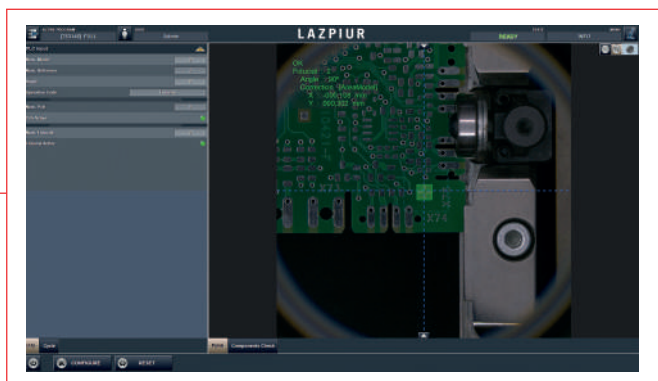
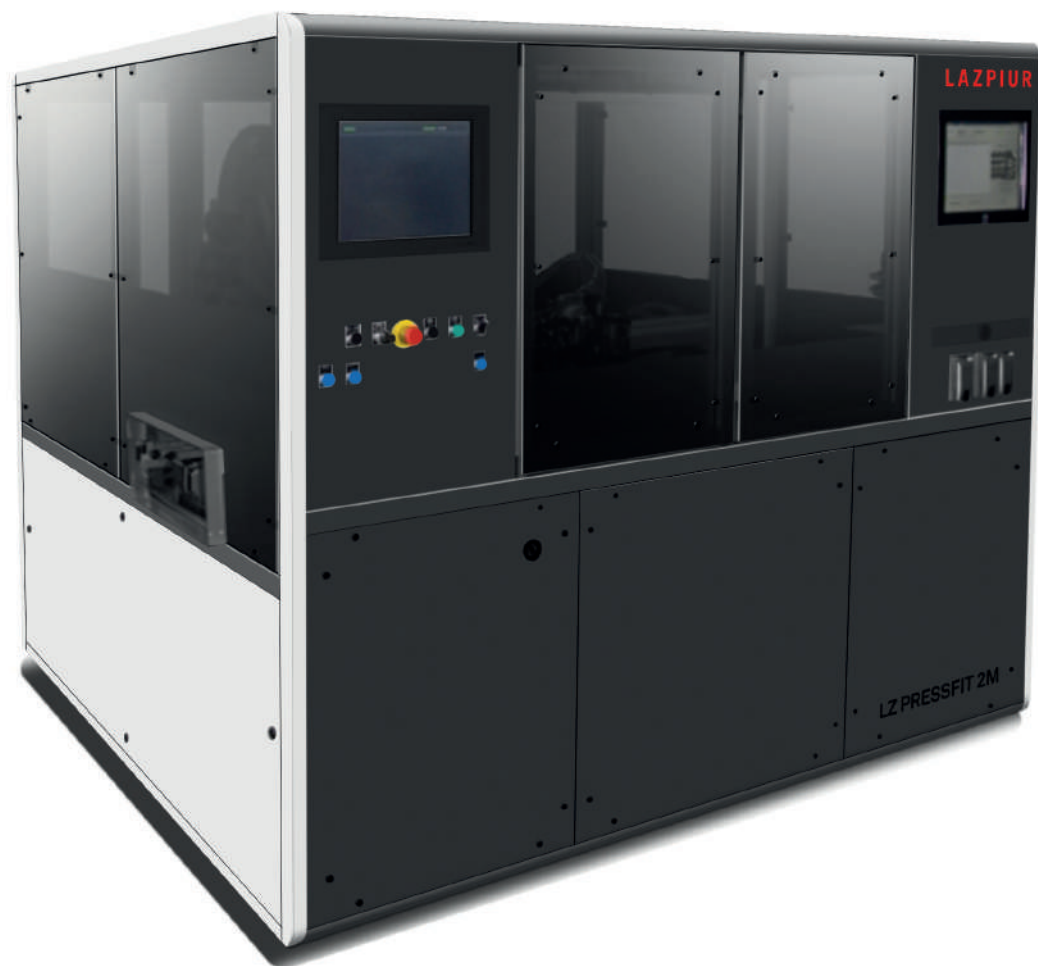
CONVERSION KIT

Equipped with the quick-change system philosophy of the conversion kit compatible with the H2² model.



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LZ INSERTION MACHINES



High versatility, capable of inserting any component – a machine with 20 years of over proven performance in the market.

SPEED

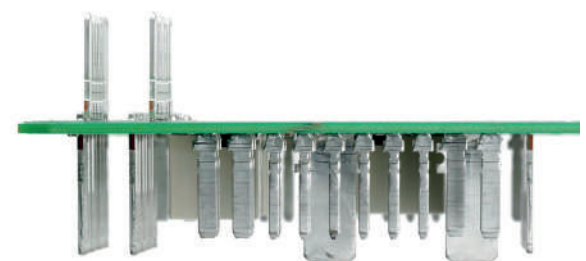
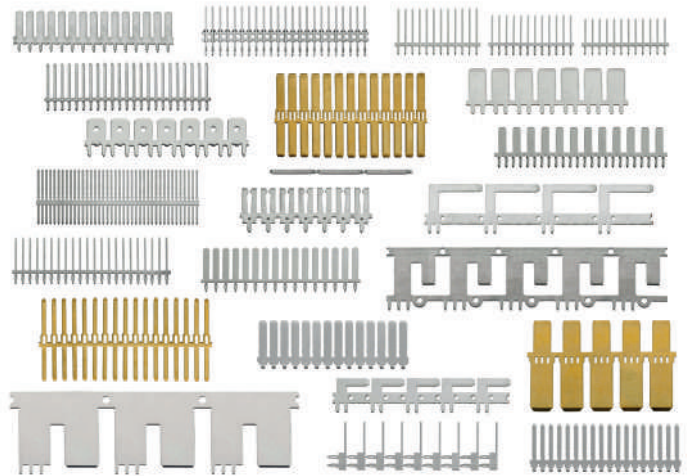
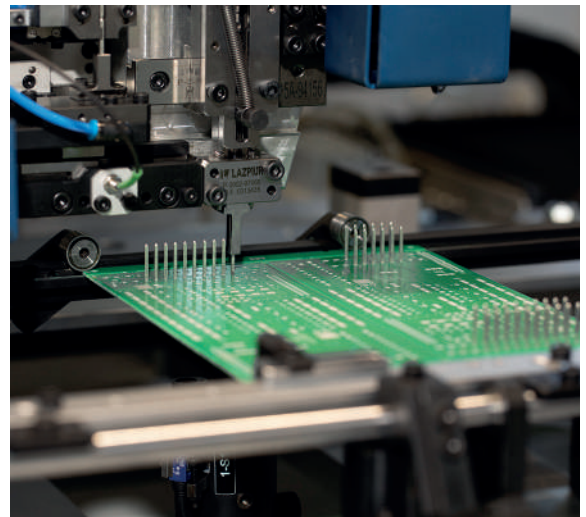
Operates at 220 strokes per minute with the capacity of inserting 3 pins per stroke.

FLEXIBLE TERMINAL INSERTION

This machine supports a maximum insertion area of 350 mm X and 340 mm Y, allowing the precise insertion of complex terminals such as bridges, forks, and L-Shaped types and others.

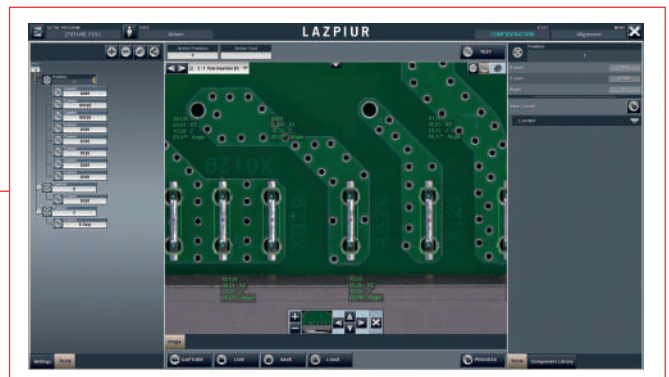
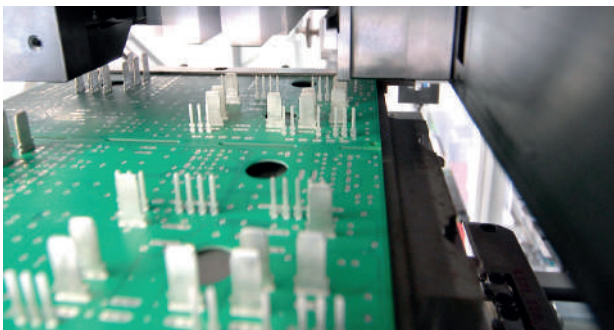
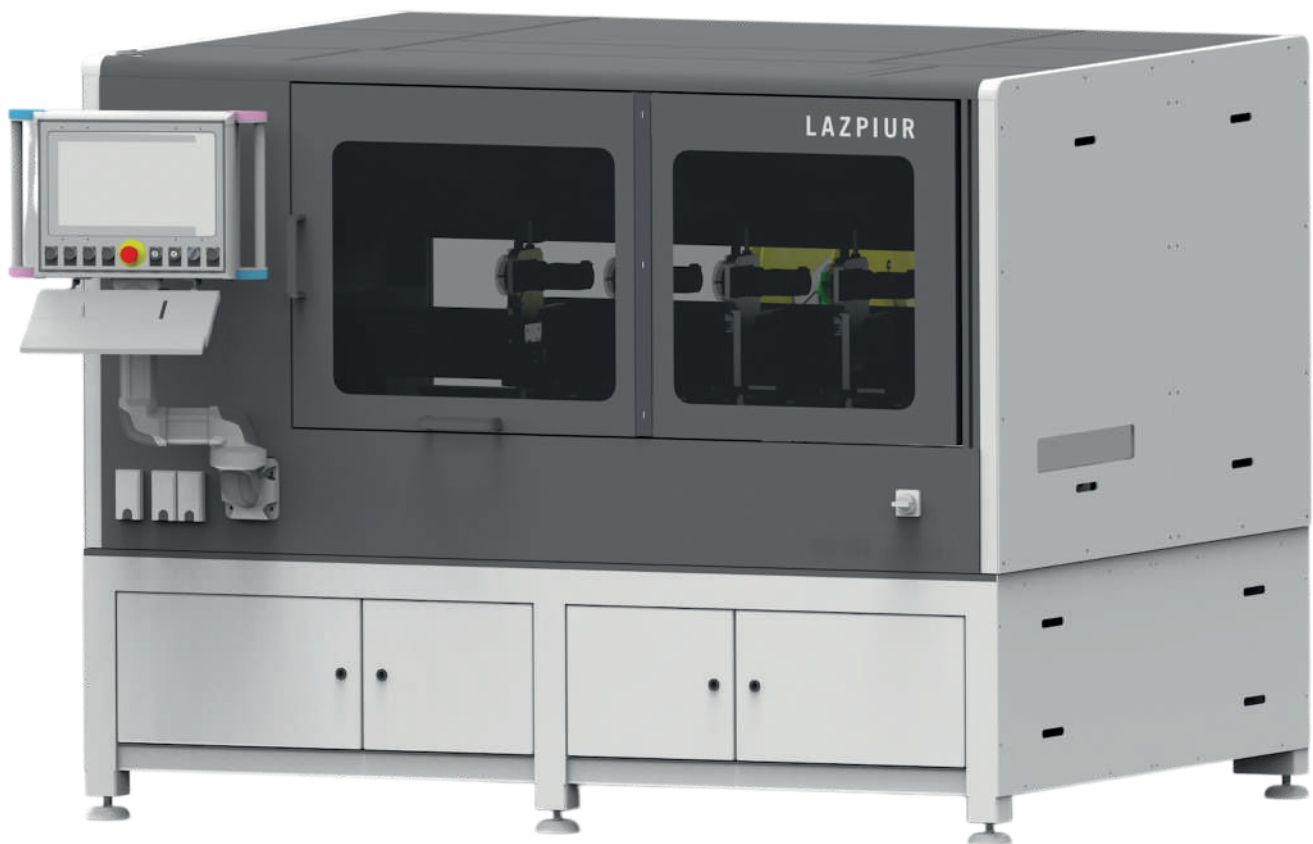
FAST, SIMPLE AND RELIABLE

Features a quick-change system with of 2 complete heads. Designed to be simple, durable, compact, and fully integrated for efficient and reliable operation.



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H4 INSERTION MACHINES



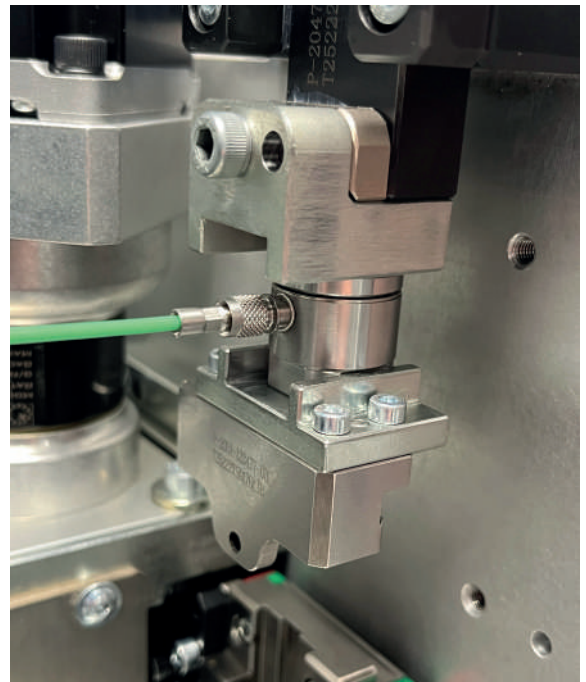
Combining production capacity with flexibility, it offers the perfect balance for manufacturers seeking efficiency and adaptability.

SPEED

Operates at >300 strokes per minute with the capacity of inserting 3 pins per stroke. Equipped with the quick-change system philosophy of the conversion kit.

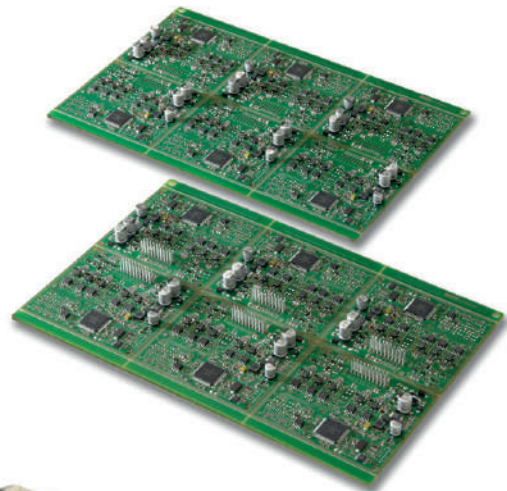
TERMINAL INSERTION AREA

This machine supports a maximum insertion area of 380 mm X- and 380-mm Y, complemented with a force cell in the insertion axis and capability to insert at 360° with servo activated table.



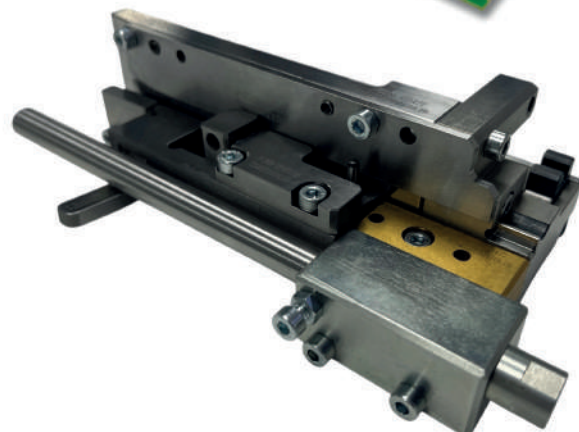
LESS IS MORE

This machine provides simple terminal guiding between feeders and the head, embracing a 'less is more' philosophy while remaining economical and highly efficient for everyday operations.



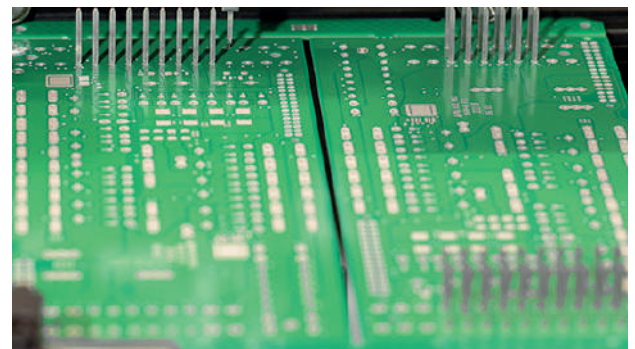
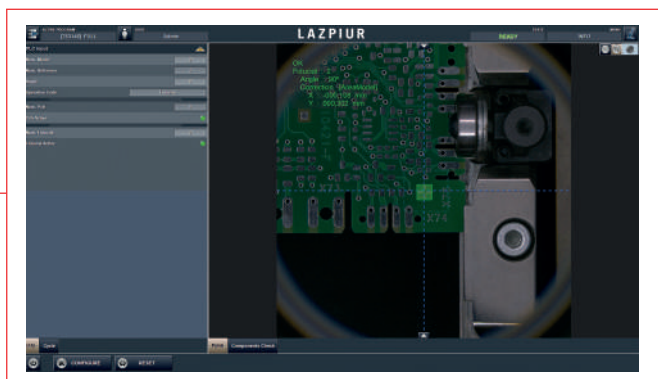
CONVERSION KIT

Equipped with the quick-change system philosophy of the conversion kit. You will be able to change the head to one terminal to the other in less than 5 minutes.



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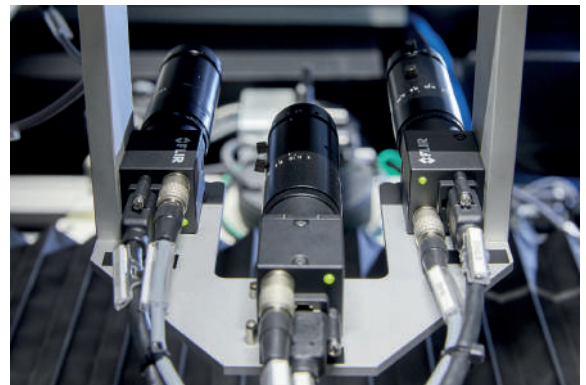
H2² INSERTION MACHINES



Built for high-volume production, offering the ability to insert up to four different terminals – the top-of-the-line model.

PERFORMANCE

Operates at 300 strokes per minute with the capacity of inserting 3 pins per stroke. Designed to handle up to 4 terminals with 2 double heads and a 360° insertion angle.



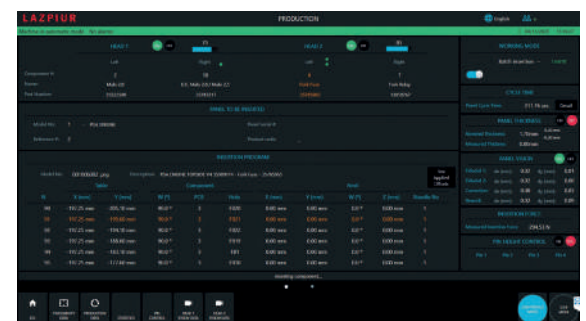
QUALITY CONTROL

Vision inspection for both early detection of geometric material deviation and terminal symmetric cut-line inspection.



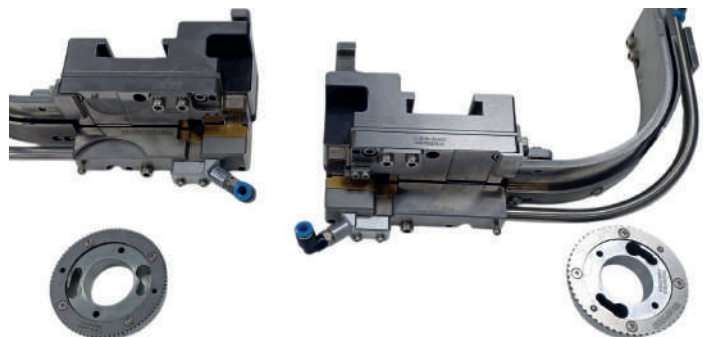
OPERATION

With an integrated design, it is a user-friendly machine that offers multiple working modes including rework, retry, batch and test panel



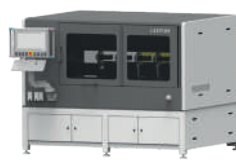
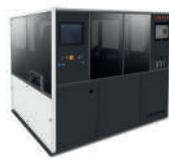
CONVERSION KIT

Equipped with the quick-change system philosophy of the conversion kit compatible with the SMART model.



MACHINE SPECIFICATION

Group Info	Parameter	Description/Units
PCB	Cmk	mm
PCB	PCB MAX. size X	mm
PCB	PCB MAX. size y	mm
PCB	PCB MIN. size X	mm
PCB	PCB MIN. size y	mm
Machine size	Length	mm
Machine size	Width	mm
Machine size	Height	mm
Machine size	Reel feeder MAX. Size	mm
Machine weight	Total weight (Gross/net)	kg
Machine	PCB Flow Upline/Downline Interface SMEMA	Standard
Machine performance	Insertion angle	°
Machine performance	Anvil	-
Machine performance	Anvil	Type
Machine performance	PCB thickness measurement	Yes / No
Machine performance	Insertion Heads	-
Machine performance	Insertion Mode	pin/stroke
Machine performance	Max. Insertion Force	N
Machine performance	Max. Insertion Rate	stroke/min
Terminals	MAX. Insertion area X	mm
Terminals	MAX Insertion area Y	mm
Terminals	Different terminals	MAX. Different terminals to insert
Machine characteristics	Quick Change System Philosophy	Yes / No
Machine characteristics	PCB Handling	Conveyor
Machine characteristics	Conveyor and table width adjustment	Automatic / manual
Quality	Force monitoring and Force vs distance monitoring	Monitoring
Quality	Pin height measuring protrusion	Type of control
Vision characteristics	Vision Inspection for early detection of geometric material desviation	Optional / No
Vision characteristics	Vision Inspection for terminal symmetric cut line inspection	Optional / No
Other characteristics	User friendly and intuitive	Yes / No
Other characteristics	Downward looking vision system for automatic board position correction	Optional / No
Other characteristics	Data provision for customer's data management system	Yes / No
Other characteristics	Accessible and ESD proofed guards	Yes / No
Power suply	Pressure	Bar
Power suply	Voltage	V
Power suply	Frecuency	HZ
Service	Official warranty	Months
Service	Extra optional warranty	Months
Service	Remote Trouble Shooting Support	-
Machine box size	Length	mm
Machine box size	Width	mm
Machine box size	Height	mm
Machine Environment Conditions	Operating Temperature	°C
Machine Environment Conditions	Relative Humidity (non-condensing)	%
Machine HMI/PC/Control System	Configurable User Levels	-

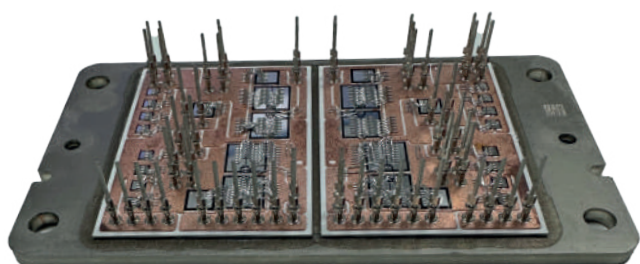
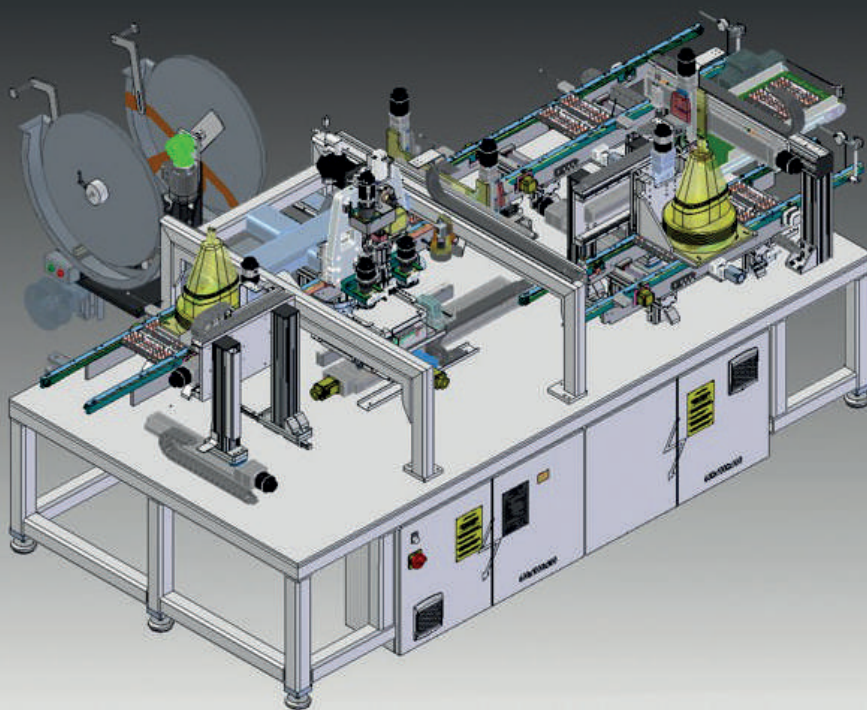


SMART	LZ	H4	H2²
$\leq 2 \pm 0,025$	$\leq 2 \pm 0,025$	$\leq 2 \pm 0,025$	$\leq 2 \pm 0,025$
380	350	420	360
365	350	400	350
50	70	70	70
80	60	60	60
1400	2450	2400	2500
1400 + reel feeder	1800	1800 + reel feeder	1800
1955	2095	1785	2105
800	800	600	600
1100	2200	2500	2900
Standard	Standard	Standard	Standard
0°-360°	0°, 45°, 90°, 135°, 180°, 225°, 270°, 315°	0° - 360°	0° - 360°
1	3	4	1
Active anvil for PCB support	Active anvil for PCB support	Active anvil for PCB support	Active anvil for PCB support
Yes	Yes	Yes	Yes
1	3	4	2
1, 2 or 3	1, 2 or 3	1, 2 or 3	1, 2 or 3
1200	1200	1000	1200
300	180 - 220	>300	300
356	350	380	350
352	340	380	340
2	3	4	4
Yes	No	Yes	Yes
Conveyor	Conveyor	Conveyor	Conveyor
Automatic	Manual	Automatic	Automatic
Optional	Optional	Optional	Optional
Optional	Optional	Optional	Optional
Optional	Optional	No	Optional
Optional	Optional	No	Optional
Yes	Yes	Yes	Yes
Optional	Optional	Optional	Optional
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
5-6 Bar	5-6 Bar	5-6 Bar	5-6 Bar
3 x 400V+N	3 x 400V+N	3 x 400V+N	3 x 400V+N
50-60	50-60	50-60	50-60
12	12	12	12
24 or 36	24 or 36	24 or 36	24 or 36
Optional	Optional	Optional	Optional
1700	2750	2700	2800
1700 + reel feeder	2100	2100 + reel feeder	2100
2255	2395	2085	2405
15-30	15-30	15-30	15-30
$10 \leq 60$	$10 \leq 60$	$10 \leq 60$	$10 \leq 60$
3	3	3	3

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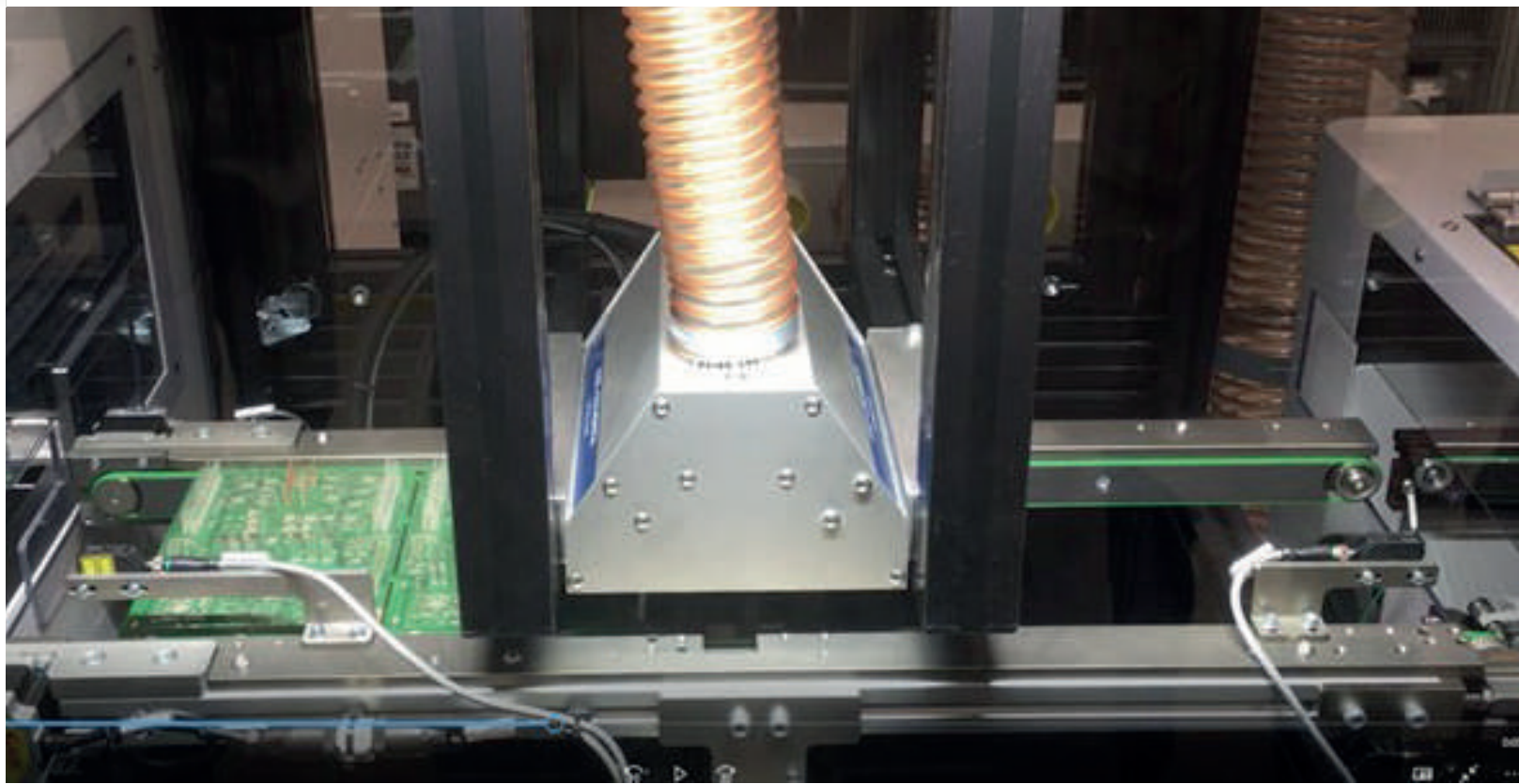
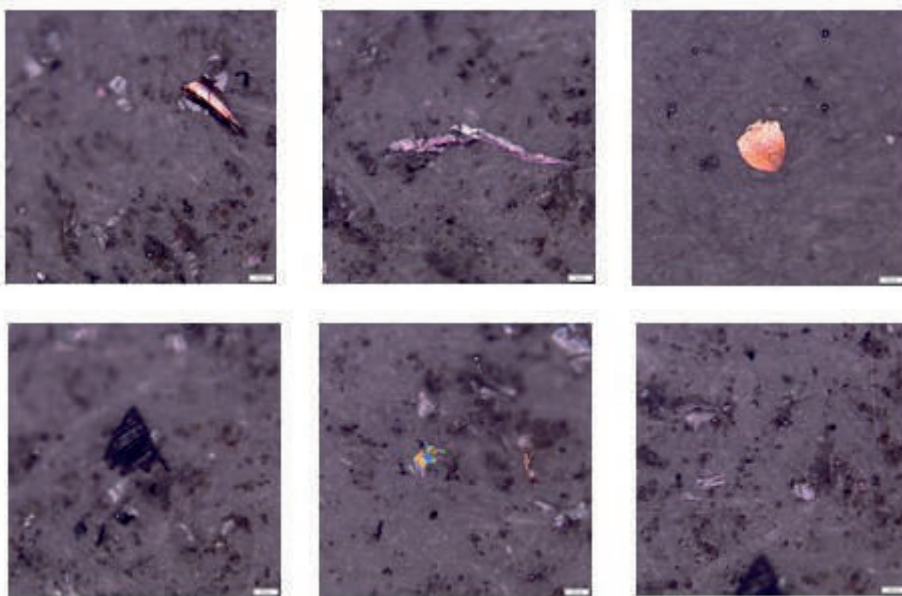
IGBT

Thanks to our expertise in manufacturing insertion machines, Lazpiur also offers turnkey projects for carrying out terminal insertion on IGBTs.



CLEANING MACHINE

Cleaning of PCB assemblies after the insertion process significantly improves the reliability of electronics devices. We design our automatic cleaning machine based on typhoon technology to clean any size, shape and complexity of electronic circuit boards under fully controlled cleaning conditions.



WHAT DOES LAZPIUR OFFER TO THE CUSTOMER?

At Lazpiur, we work to ensure the highest reliability, productivity and durability of our solutions.

Our after-sales service is designed to support the customer throughout the entire lifecycle of the equipment, offering specialized support, customized maintenance and close, efficient assistance.

WARRANTY

We offer an **extended warranty of 2 additional years**, subject to the contracting of a **periodic maintenance plan** with Lazpiur. An option that strengthens security and confidence in every piece of equipment.



SPECIALIZED TECHNICAL SUPPORT

We manage **daily incidents** quickly and efficiently, offering:

- Diagnosis and problem resolution.
- **Remote and on-site assistance** according to customer needs.

Our goal is to provide fast and effective support in any situation.



PREVENTIVE AND CORRECTIVE MAINTENANCE

We develop **maintenance programs tailored to each customer**, formalized through specific service contracts. These programs allow:

- **Reduction of downtime.**
- **Extension of the useful life** of equipment or solutions.
- **Maintenance and performance reports** that promote continuous improvement.



CERTIFIED CALIBRATIONS

We offer **periodic calibration programs** to ensure accuracy and regulatory compliance. They include:

- **Equipment calibration** performed by qualified technicians.
- **Traceable certificates** that guarantee process reliability.

SPARE PARTS MANAGEMENT

We provide the **supply of original Lazpiur spare parts**, ensuring full compatibility, performance, and durability for each component.

TRAINING AND QUALIFICATION

We offer **technical training** tailored to machine users, both in **production** and **maintenance**, including:

- **Training certificates.**
- Programs designed to optimize the use and efficiency of our equipment.

OUR COMMITMENT

- **Proximity:** We are close to our customers, understanding their context and needs.
- **Rapidity:** We respond with agility and efficiency.
- **Quality:** Every intervention seeks excellence.
- **Trust:** We build long-term relationships based on results.



CONTACT.

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.

● Headquarters and manufacturing in Europe

Barrio Murinondo s/n
Apartado 131
20570 Bergara. Spain
+34 943 769 016
info@lazpiur.com

● Manufacturing and sales in China

East gate of Plant No. 41 Guangyuan Road,
Wuqing Development Zone,
P.C. 301700 Tianjin, CHINA.

Room 949, 9th Floor, Building A
Longfor Tianjie, No. 1156
Shenbin South Road
Minhang District, Shanghai.

● Sales and Technical Partners

Germany
U.S.A.
Mexico
Brazil
France
Italy
Portugal
North Africa
China

● Sales

England	Philippines
Sweden	Korea
Hungary	India
Czech Republic	Bulgaria
Poland	Chile
Romania	Tunisia
China	





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