

**LZ-PRESS-FIT MACHINERY RANGE**

***Terminal Insertion machine***



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**LZ-PRESS-FIT Machinery range**

# **Terminal Insertion Machine**

**High speed servo drives for insertion rates up to 5 cycles per second at 0.2 in (5.08 mm) pitch.**

**Rotary insertion table can apply products at up to 4 different angles rotating PCB.**

**Real time insertion force monitoring for 100% quality assurance on press-fit applications.**

**Able to process any manufacturer's reeled through-hole or press-fit products.**

**The LZ-PRESS-FIT:2MI is a fully automatic pin insertion machine capable of applying reeled products from any manufacturer. With inline operation, and insertion rates up to 5 per second, it is focused at fully automatic high speed operation to maximize through put while minimizing costly scrap.**

**A servo powered XY table positions the PCB under 1,2 or 3 servoactivated insertion heads.**

**A rotary table allows the application of products at up to 4 different angles.**

**An activate lower anvil provides support to the PCB during insertion, allows for real time force monitoring for 100% quality assurance on press-fit applications.**

**Finally, icon driven software with touch screen provides a simple to use and intuitive operator interface.**

**The LZ-PRESS-FIT MACHINERY RANGE provides a wide range of solutions for pin insertion applications. Board size capacity up to 350x350mm, quick change system and a wide range of options make it a flexible high speed platform.**

## **Fast Facts**

**Insertion rates up to 5 per second at 0.2 in (5.08 mm) pitch.**

**Up to 3 different components can be applied in one machine**

**Apply products at up to 4 different angles**

**Active anvil for PCB support, insertion verification and force monitoring. (Optional)**

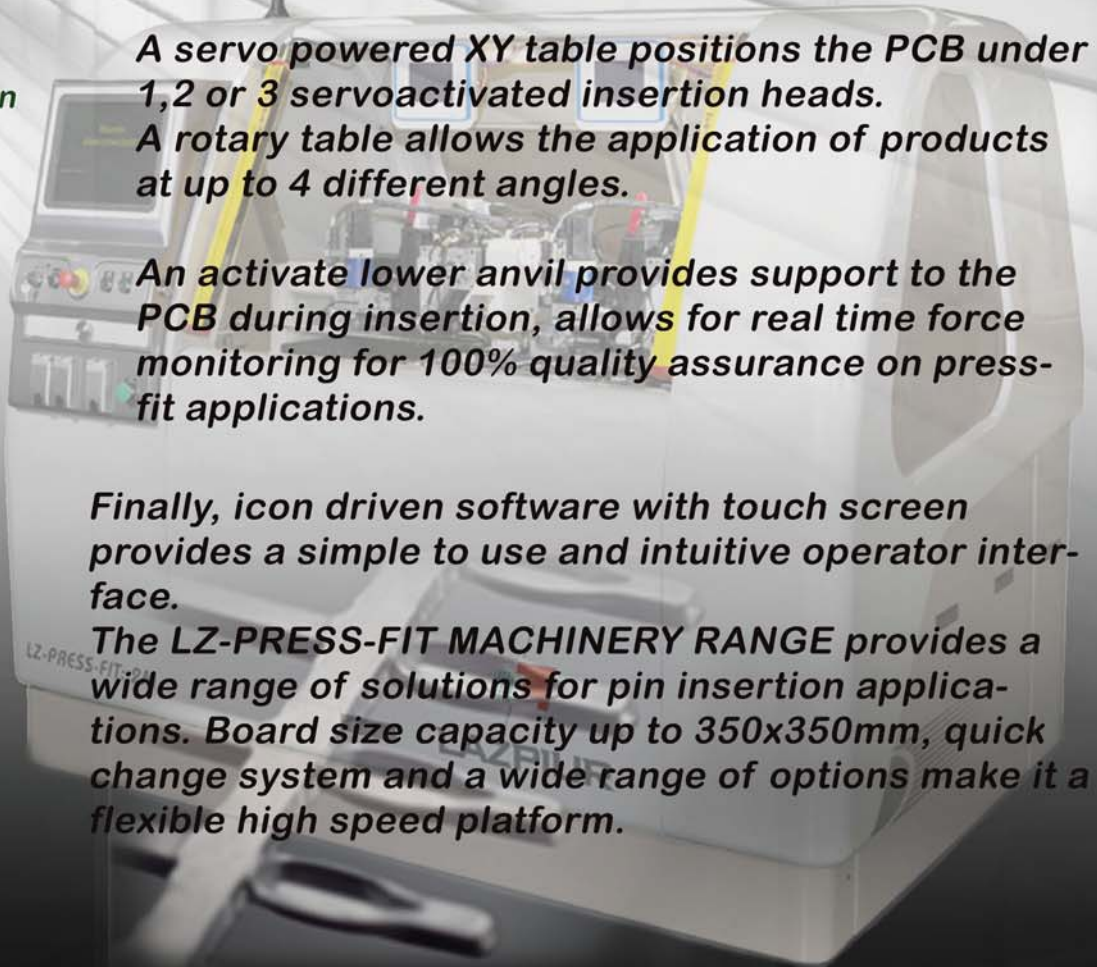
**Windows based touch screen interface.**

**Quick change head system, allow production flexibility. (Optional)**

**Able to process any manufacturer's reeled thorough-hole or press-fit products.**

**Range of options including PCB vision system and board thickness measurement.**

**SMEMA interface**





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# **Terminal Insertion Machine**

## **Machine description**

Fully automated inline pin insertion machine for the application of reeled pins, tabs, receptacles and similar productions into PCBs.

## **Physical Dimensions**

Width.-from 2280 to 2870mm.  
Height.-1800 mm  
Weight.- from 1800 Kg to 2110kg.

## **Component Capability**

Reeled components. Can be press-fit or through-hole solder components such as pins, tabs and receptacles.

## **Performance**

Maximum insertion rate 5 cycles per second at a pitch of 0.2 in (5.08 mm).

Press Force monitoring of every component applied

Insertion Head Change Less than 2 minutes.

Board Load-approx 5 sec.  
Board Unload-approx. 5 sec.  
Fully SMEMA compatible.

## **Vision**

Optional downward looking vision system for automatic insertion location correction.

## **Board Capacity**

Max. Board Size 350x350 mm  
Max. insertion Area 350x 350 mm  
Standard left to right feed.

## **Insertion Heads**

The machine can hold one, two or three insertion heads.

The insertion head is a servoactivated which provides a very fast insertion speed.

A quick change system is provided in order to change quickly.

## **Required Services**

### **Electrical**

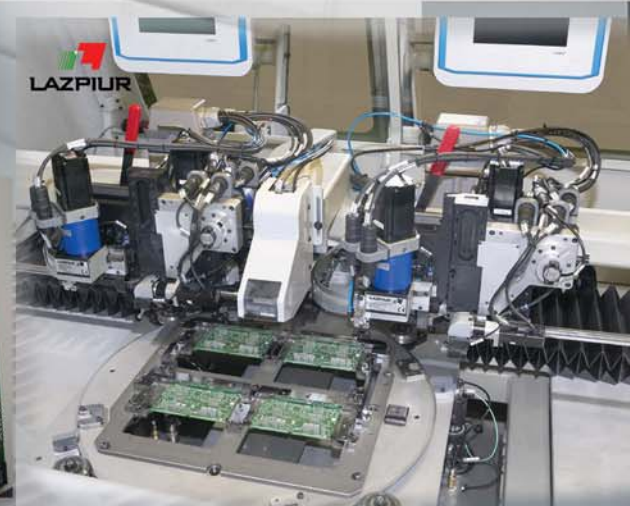
230 V, 50-60 Hz, 10 A

### **Air Supply**

600 kPa dried air

## **Operator Interface**

Touch screen monitor and keyboard  
Network ready.





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**LZ-INSERT-1M (in line-off line)**  
1 Mechatronic insertion head



**LZ-INSERT-2M (in line-off line)**  
2 Mechatronic insertion heads



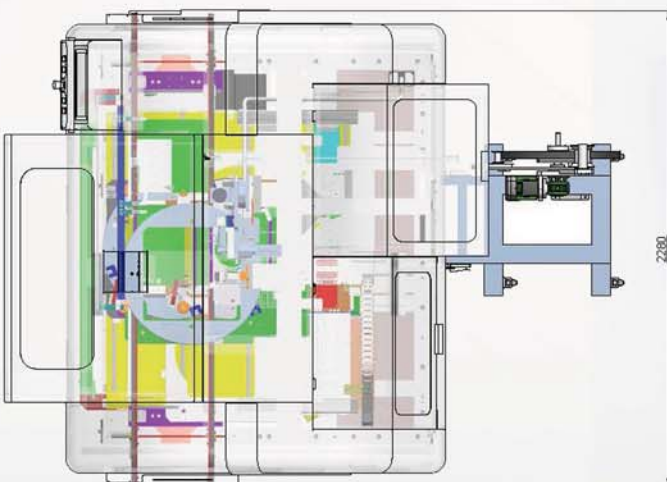
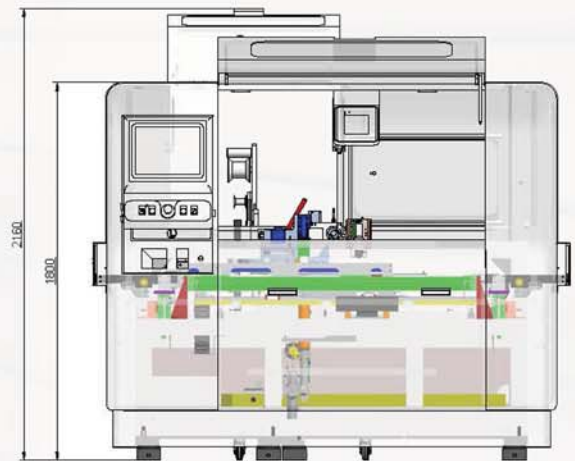
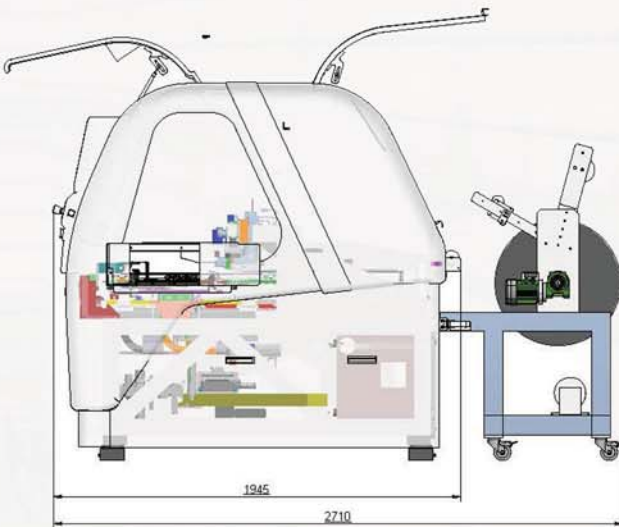
**LZ-INSERT-3M (in line-off line)**  
3 Mechatronic insertion heads





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## **LZ-INSERT-1M (in line)** **1 Mechatronic insertion head**

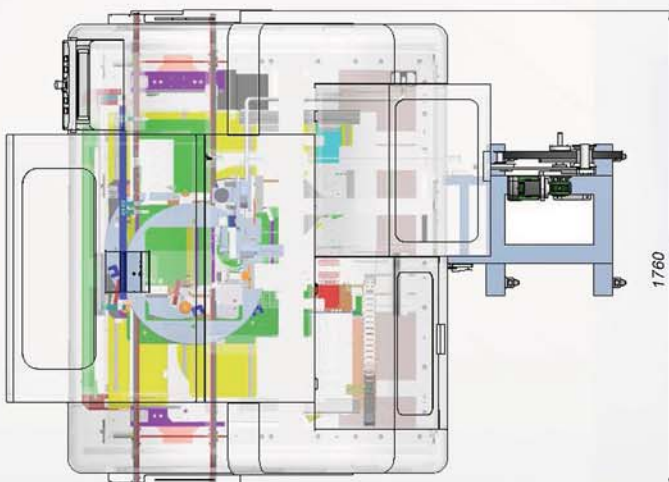
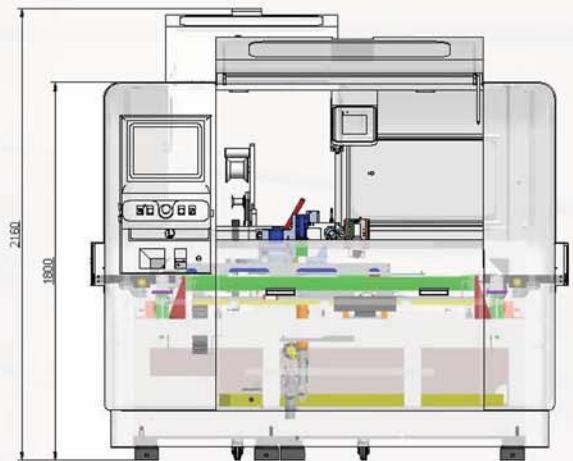
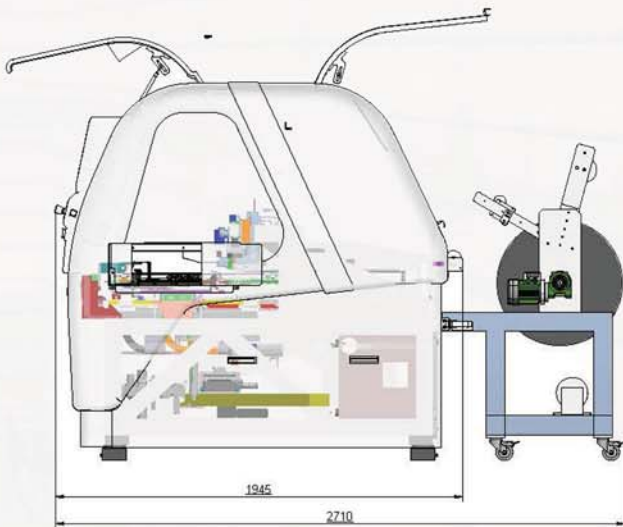


**Physical dimensions.**  
**Width: 2280 mm**  
**Height: 1800mm (door close)**  
**Depth: with out reel feeder 1945mm/ with roller 2710 mm.**  
**Weight: 1900 kg.**



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## **LZ-INSERT-1M (off line)** **1 Mechatronic insertion head**

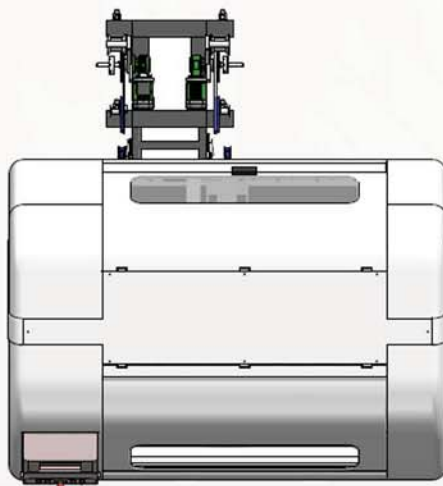
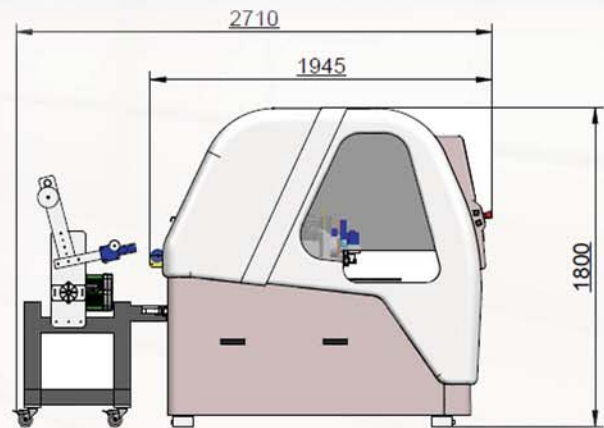
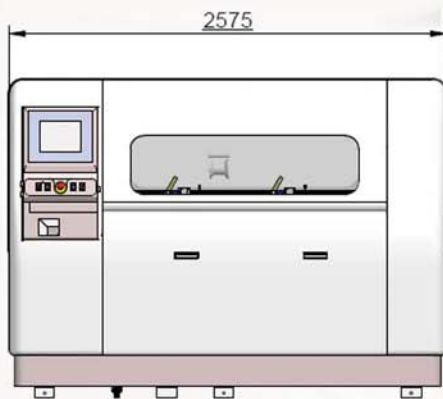


**Physical dimensions.**  
**Width: 1760 mm**  
**Height: 1800mm (door close)**  
**Depth: with out reel feeder 1945mm/ with roller 2710 mm.**  
**Weight: 1900 kg.**



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**LZ-INSERT-2M (in line)**  
**2 Mechatronic insertion heads**

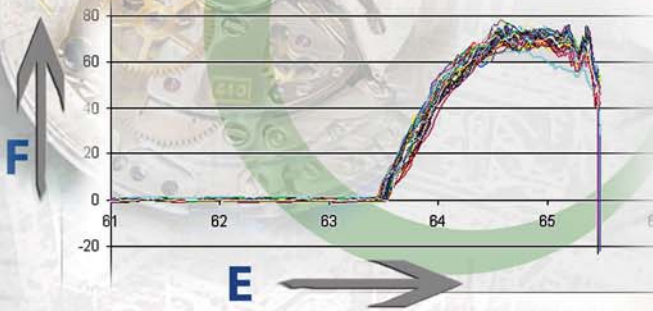


**Physical dimensions.**  
**Width: 2575 mm**  
**Height: 1800mm (door close)**  
**Depth: with out reel feeder 1945mm/  
with reel feeder 2710 mm.**  
**Weight: 2000 kg. (with out reel feeder)**  
**Reel feeder weight: 110 kg**

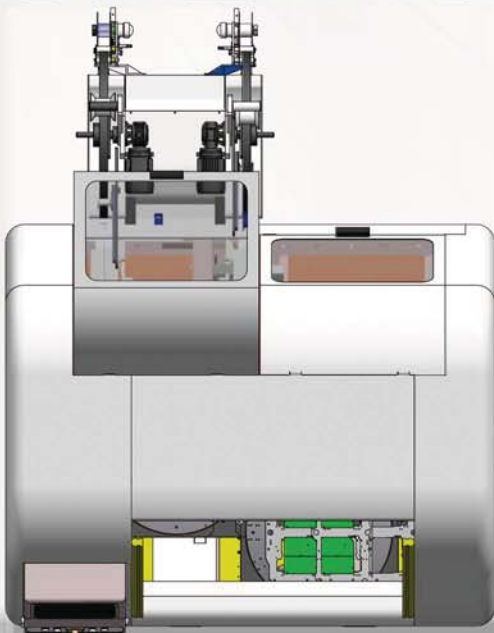
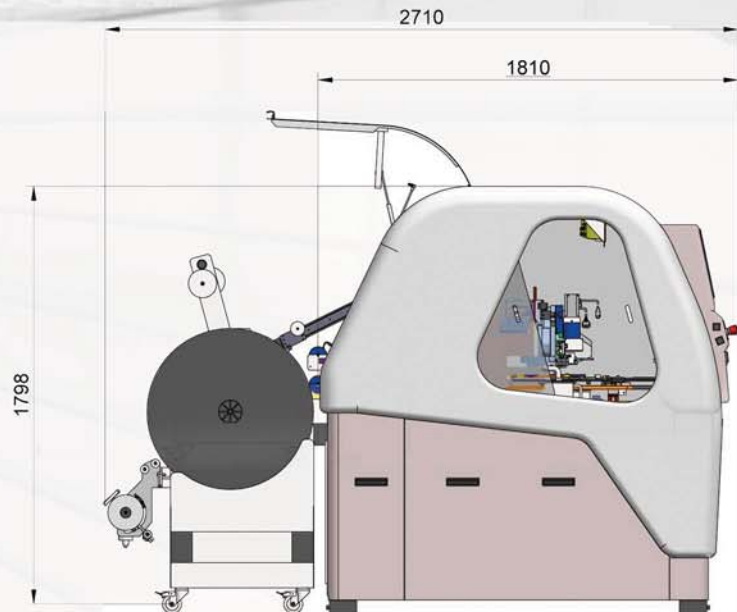
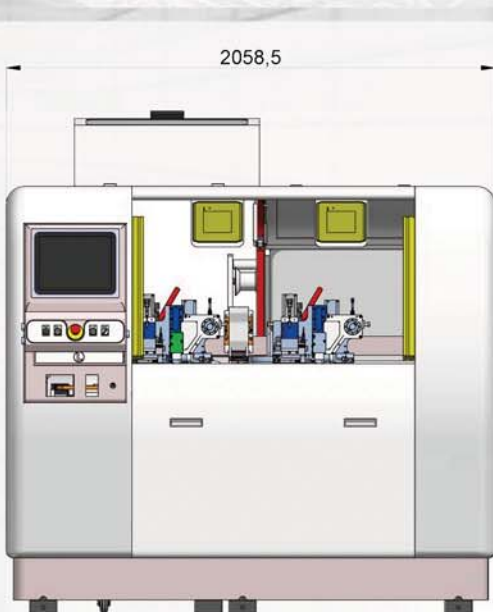


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## LZ-INSERT-2M (off line) 2 Mechatronic insertion heads



**Theoretical insertion force: 73 N ± 15 N**  
**Real insertion force: 70 N ± 10 N**



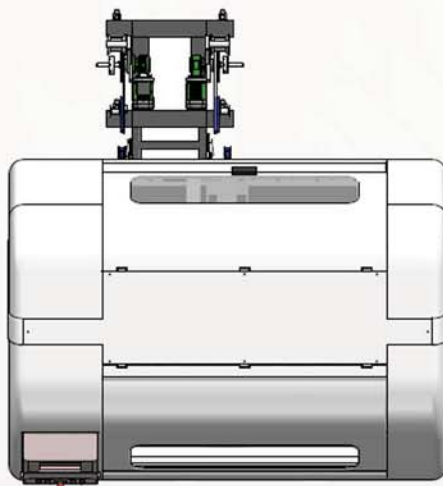
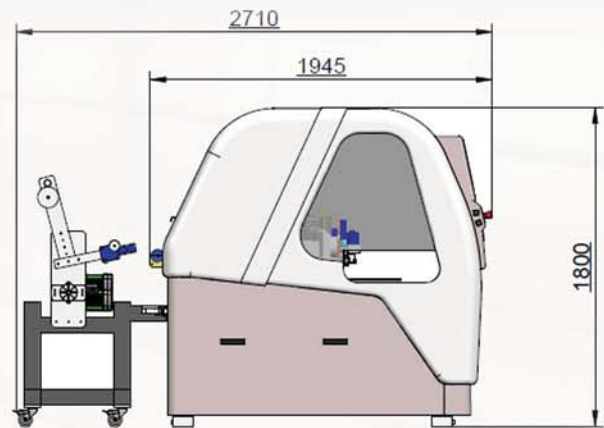
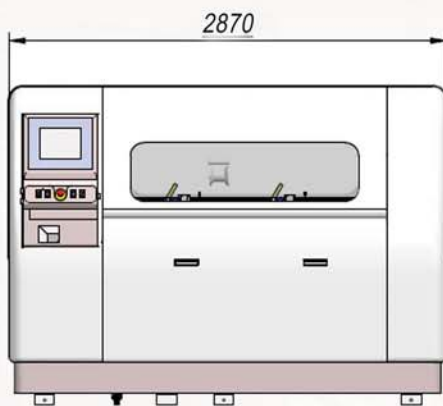
**Physical dimensions.**  
**Width: 2058.5 mm**  
**Height: 1798 mm (door close)**  
**Depth: with out reel feeder 1810 mm/  
with reel feeder 2670 mm.**  
**Weight: 1800kg. (with out reel feeder)**  
**Reel feeder weight: 110 kg**





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**LZ-INSERT-3M (in line)**  
**3 Mechatronic insertion heads**

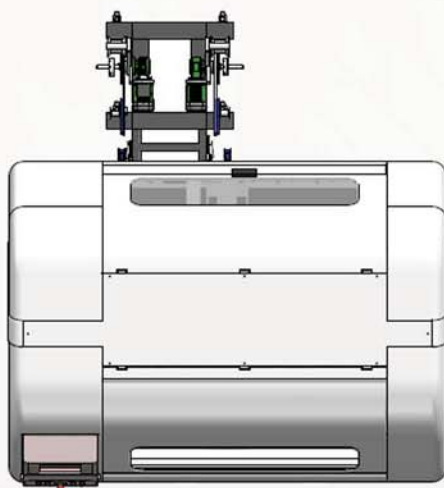
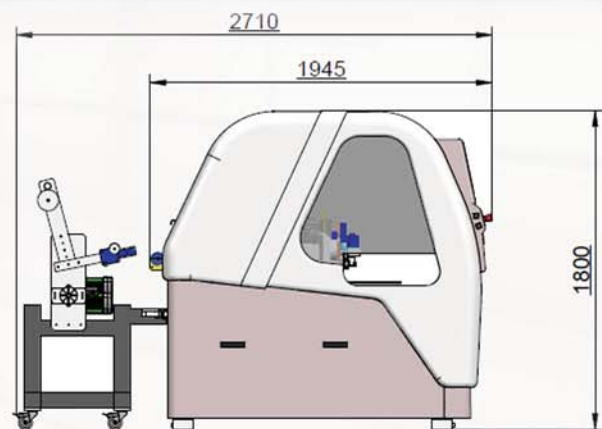
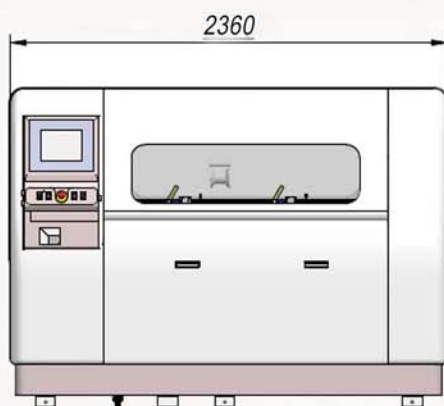


**Physical dimensions.**  
**Width: 2870mm**  
**Height: 1800mm (door close)**  
**Depth: with out reel feeder 1945mm/  
with reel feder 2710 mm.**  
**Weight: 2000 kg. (with out reel feeder)**  
**Reel feeder weight: 110 kg**



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**LZ-INSERT-3M (off line)**  
**3 Mechatronic insertion heads**



**Physical dimensions.**

**Width: 2360 mm**

**Height: 1800mm (door close)**

**Depth: with out reel feeder 1945mm/  
with reel feder 2710 mm.**

**Weight: 2000 kg. (with out reel feeder)**

**Reel feeder weight: 110 kg**