

X-PEN LAB

SIMPLY PRECISE



POWERED BY
IMA AUTOMATION

IMA  **MED-TECH**
Technologies for Medical Devices

X-PEN LAB

The smart way to injectable assembly

X-PEN LAB designed by IMA MED-TECH is part of the X-PEN Series, the wide range of machinery for the final assembly of pens and autoinjectors. It's a precise, semi-automatic solution for clinical trials and small-scale production, ideal for early-stage production, with an output up to 20 ppm.



CLINICAL TRIALS & SMALL-SCALE PRODUCTION

X-PEN LAB ensures high-quality results with accurate press-in and force-distance measurement, supporting multi-variant manufacturing with manual loading and offloading.



INJECTABLE ASSEMBLY

It's designed for testing and assembling various product variants, such as injector pens, autoinjectors and needle safety devices. Both industry standards and newly designed can be assembled, tested and packaged.



SEMI-AUTOMATIC ASSEMBLY MACHINE

X-PEN LAB provides efficient solutions for assembling standard devices with varying output speeds from 10 up to 20 ppm, ensuring high-quality results and improved efficiency.

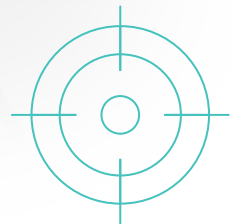


FLEXIBILITY AND PRECISION

This machine combines operator flexibility with automated processes and ensures efficiency and precision in multi-variant manufacturing, guaranteeing precise assembly quality at every step.



SIMPLY PRECISE



KEY PROCESSES

Achieve more with X-PEN LAB



INJECTOR PENS

- Cartridge loading and insertion
- Pen engine press-in
- Priming



AUTOINJECTORS

- PFS press-in
- RSA press-in



NEEDLE SAFETY DEVICES

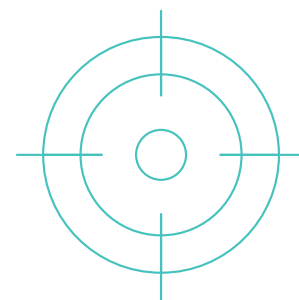
- Spring assembly
- Plunger assembly
- PFS in safety device assembly

Depending on the product type to be assembled, X-PEN LAB allows the integration of various process options.

X-PEN LAB provides an effective solution for clinical trials and small-scale production, ensuring high standards of assembly quality. It is designed for the assembly and testing of injector pens, autoinjectors and needle safety devices, making it suitable for both established products and newly developed concepts.

X-PEN LAB allows several key features:

- PRESS-IN WITH FORCE-DISTANCE MEASUREMENT
- LABELLING INCLUDED
- VISION INSPECTION OF FINAL DEVICE
- HEIGHT CONTROL





X-PEN SERIES

The wide range

X-PEN Series by IMA MED-TECH offers a variety of assembly machines designed to meet the needs of different production environments, from manual to fully automated systems. These machines provide efficient solutions for assembling standard devices with varying output speeds and levels of automation. The flexibility of the X-PEN portfolio allows for seamless integration into various production lines, ensuring high-quality results and improved efficiency.



X-PEN LAB | 2-3 PPM

Benchtop systems for internal testing

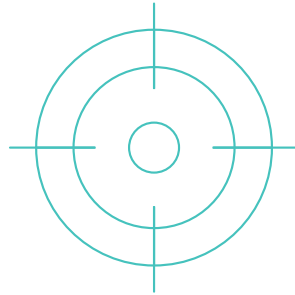
- Designed for internal testing with manual feeding.
- Standalone tabletop units for space efficiency.
- Size: 700mm x 700mm x 1000mm.



X-PEN LAB | UP TO 8 PPM

Machine for internal tests

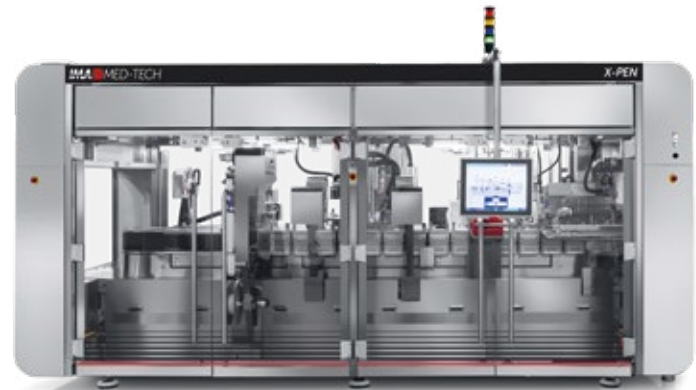
- Enables easy testing of different product variants.
- Offers flexibility in multi-variant manufacturing processes.
- Size: 1100mm x 1000mm x 1900mm.



X-PEN LAB | UP TO 20 PPM

Semi-automatic assembly machine

- Designed for testing and assembling various product variants.
- Combines operator flexibility with automated processes.
- Ensures efficiency and precision in multi-variant manufacturing.
- Size: 2500mm x 3900mm x 2300mm.



X-PEN | FROM 40 TO 160 PPM

Modular assembly platform

- Modularity: based on a Linear Magnetic Transport System (LMTS) which allows flexibility and speed.
- Integrated processes, such as cartridge/PFS vision inspection, PFS handling with no glass-to-glass contact, force-distance controlled assembly, priming, labelling.
- Quick time-to-market, compact design, fast ROI.



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