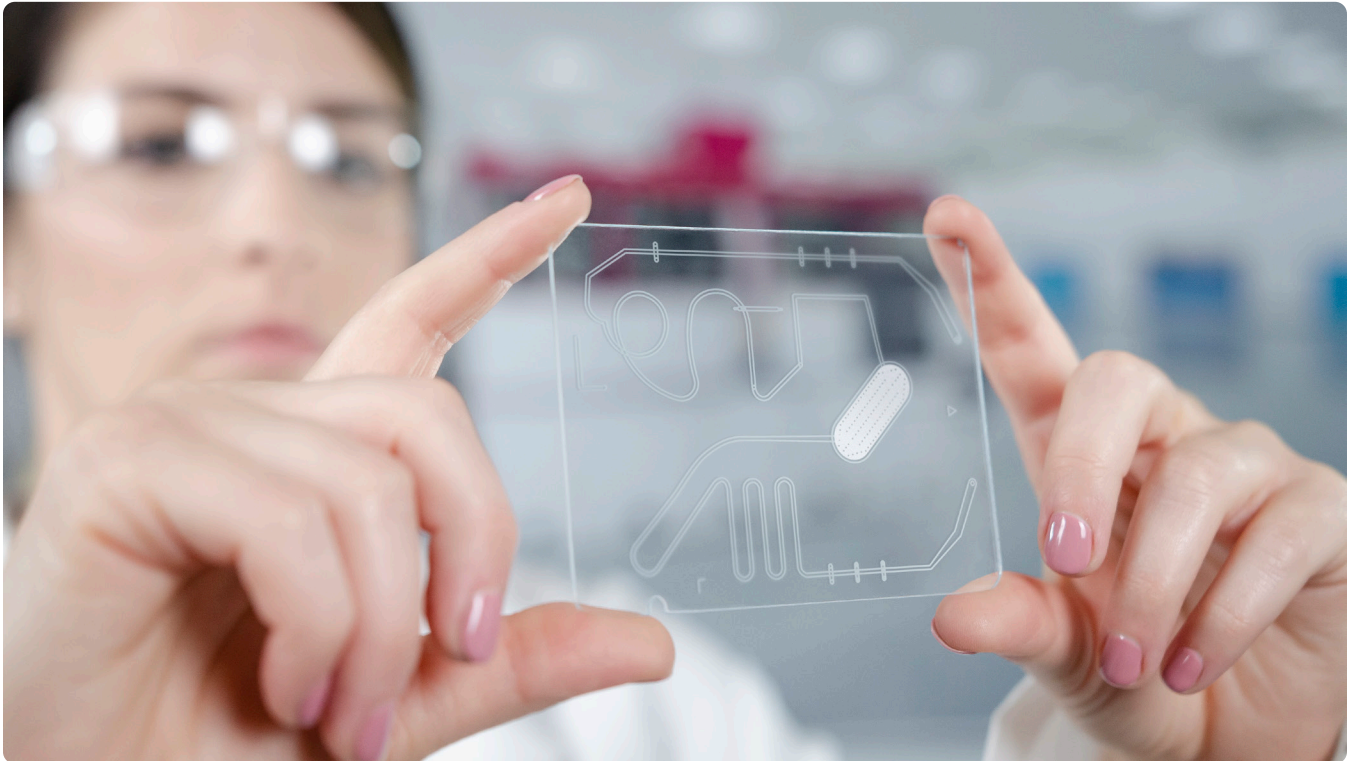




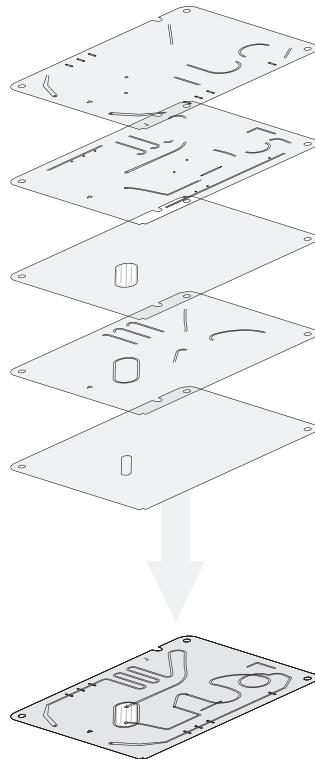
Microfluidic Devices Lab-on-a-Chip



Production Solutions for Lab-on-a-Chip (LoaC)

Our automated stacking and lamination technologies efficiently assemble your cards, cassettes and cartridges from design concept to commercialization. Preco specializes in polymer laminated devices which, when coupled with laser processing, produce high quality, low cost consumables. Together, we have developed innovative production and laminating techniques which have met our customers demanding designs, quality volume increases.

Involving us prior to your clinical trials allows production processes and process capabilities to be established and documented in our ISO 13485:2016 contract manufacturing facility. We provide complete device assembly, including: blister pack fill with insertion of reagent and buffer packs, testing, labeling, boxing and inventory of your completed device. This single source solution provides a seamless and simple supply chain offering for your device.



Applications

- Point of care diagnostics
- Life sciences
- Food safety
- Toxicology

Materials

- Polyester (PET)
 - Melinex®
 - Mylar®
- Polyurethane films (PU)
- Acrylic adhesives
- Acrylic sheets (PPMA)
- Hydrophilic sheets

Preco Systems

- Flat bed die cutting
- Rotary die cutting
- Laser cutting
- Stacking with vision
- Chemistry dispensing

Providing laser, die cutting, laminating, assembly & packaging solutions

Clinical Life Science Paths to Production

Preco Inc. is a contract manufacturer and system supplier, it is important to involve us during the design and development phase of your device. This forward looking strategy assures you that your material selection, device dimensioning and tolerances, and assembly techniques will provide a robust production solution at the lowest possible cost.

Contract Manufacturing Services

As you prepare to launch your device to the market, Preco is poised to address your ramp-up schedule. Our Contract Manufacturing Services group will work with you to develop a contract manufacturing agreement that provides the basis for the relationship and product deliverables.

- Our production team is knowledgeable in the techniques required for producing laminated polymer cards. With Preco's production team involved prior to clinical trials, your production, work instructions, documented operator training, quality programs/protocol, bill of materials and established processing techniques are established, allowing for a seamless transition to production.
- Our robust ISO 13485 environment assures your devices are produced with the required traceability, record retention, document revision control, operator training and documented procedures.
- Our Contract Manufacturing Services group operates in a 24/7 environment so as your sales grow, we can leverage the capital investment you have in the equipment by operating extended shifts of production. This alone has the ability to drive your price points down dramatically as your sales volume increases.

Complete Device Assembly

In addition to the production of the laminated structure, Preco can also provide complete device assembly, reagent dispensing, packout, testing, labeling, boxing and inventory of your completed device. This single source solution provides a seamless and simple supply chain offering for your device.

Technology and Techniques

When it comes to production solutions, nobody compares to the strength and breath of Preco's offering. Preco can provide a full array of material handling platforms ranging from sheet processing to web based systems that incorporate laser or die cut processing. Preco is the only company that can offer you the correct unbiased solution because we have in-depth knowledge of the advantages and disadvantages of each process. Our Contract Manufacturing Services (CMS) currently processes diagnostic test devices incorporating all of these process options. To further drive your production costs down and improve part quality, we also offer a range of lamination capabilities to build up your device layers using automated techniques. Preco can offer multiple laser heads on a rotary web handling system to combine processed layers that exhibit like features to provide sub-assembly layers for downstream lamination.

Process Capabilities

- Laser, flat bed die cutting & rotary die cutting

Material Handling Capabilities

- Sheet-fed
- Roll-fed
- Pick and place
- Precision lamination of stacked layers



FlexStacker™ robotic layer assembly system

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