



## SMARTID Ingenious Product™ ID Solutions





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LTHD Corporation's core business is providing premium products & services for our customers with a diverse geographical reach in business traceability, safety, production, logistics & more. Using the latest materials and technologies gives our partners the technical and commercial advantage in their leading industries.

All our solutions are supported by a dedicated and trained team that helps our key customers from the NPI = New Project Implementation stage to full production followed by the specific industry documentation in our focus areas: EMS in Automotive, Medical, Aerospace & Defense. All materials, equipment, consumables and services proved are supplied by worldwide known and established suppliers. Our industry leading solutions help our partner's development in technically advanced and sustainable business model. SMART ID is the right solution.

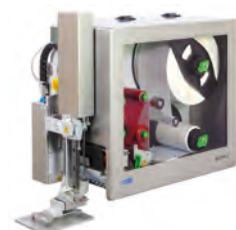
Labels with durable materials compliant to the latest specific regulations for product identification and traceability, meeting customer requirements at the highest levels in the industrial sector.



Our production portfolio is completed by our worldwide known distribution partners that helps LTHD and it's customers with complete solutions for labeling applications, from a blank simple logistics label, to a facility Safety & Sign Marking, until a complete Print & Apply solution which includes equipment, label, ribbon, consumables, label design software, installation/integration and on-site support. Our team is specialized to provide the perfect match for customer specific demands.



**MatchPOINT** - It's LTHD's Concept - that not only to provide a leading materials, technologies and equipment but matching them in perfect technical harmony and compliance. Best raw materials, printing & conversion technologies and equipment does not necessarily mean most efficient final product. But choosing from a portfolio of hundreds of materials combined with tens of technological possibilities followed by compliance and suitability makes Match POINT LTHD's best know-how product.



[www.lthd.com](http://www.lthd.com)



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Die cutting is a fabrication process which employs specialized machines and machine tools to convert sheets or rolls of non-metallic and flexible materials by cutting, forming, and shearing it into custom shapes and designs, offering speed, uniformity, and accuracy. It is cost-effective over a wide range of part sizes and quantities. Both versatile and customizable, the die cutting process is suitable for a wide range of materials, including tape, adhesive, foam, sponge, silicone foam, mesh, fabric, thin metals, plastic, film and rubber.

The numerous application-specific tool systems of our LTHD cutters enable high-quality flat bed Die or Kiss-cutting, Punching, Scoring, Creasing, Multilayer laminations, Zoned adhesive lamination, Pull tabs and extended liners.

**Die Cutting:** This process cuts the custom design through the entire material. For example, when die cutting plastic with adhesive backing, the die cuts through the plastic face, adhesive, and backing material layers. The die cut design is fully separated from the stock material.

**Kiss Cutting:** For adhesive lined materials, kiss cutting cuts the custom design through the face and adhesive layers, but not the backing material layer. The die cut design is not fully separated from the stock material, but can be easily removed from the intact backing layer.

**Perforating:** Perforating produces a series of punched-in holes which holds the die cut design in place on the stock material. The design is not fully separated from the stock material, but can be easily detached along the perforated lines.

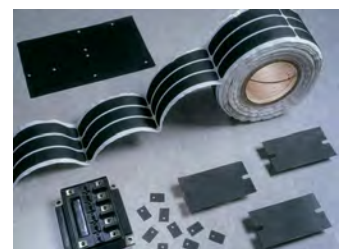
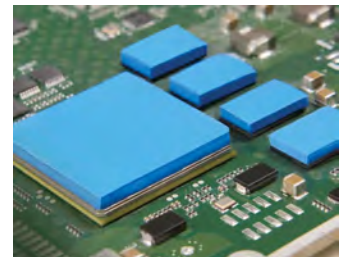
**Scoring:** Rather than cutting entirely through the stock material, scoring leaves a die impression, indent, or partial cut at a single stress point. The score produced typically only penetrates or cuts through  $\leq 50\%$  of the material which reduces the thickness at the stress point, allowing for square profile folds.

**Creasing:** Similar to the scoring process, creasing creates a fold line on the stock material. However, unlike scoring, creasing reshapes the material to have an inward bending bulge between two parallel stress points. Having two stress points, increases the flexibility of the material at the crease and reduces the amount of stress on the material at each point when it is folded.

**Multilayer laminations:** Multiple webs come together in a single pass to create a complex multilayer part.

**Zoned adhesive lamination:** Custom patterns of adhesive are laminated to material during the die cutting process, leaving adhesive only in the specified area(s).

**Pull tabs and extended liners:** Materials with top and bottom liners are cut so that a portion of the liner is cut to extend the material to leave a pull-tab. This pull-tab contributes to ease of handling and placement.





We provide **Specific** and **Measurable**,  
**Achievable** but **Relevant**, **Time-based**  
industry solutions.



**SMARTID** Ingenious Product™  
ID Solutions

**SMARTEMS** High Performance™  
EMS Solutions

**SMARTESD** Sustainable Safety™  
ESD Solutions

**SMARTMTL** METAL Converting™  
Solutions

**SMARTCHE** High Precision™  
CHEMICAL Solutions

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