

High quality, cost-effective solutions delivered with laser precision.

With a superior attention to detail and quality, the precision Converting Services group is able to provide high performance electronic and industrial components using advanced digital laser converting technology. Laser processing provides the opportunity to adapt to unique geometries because of the laser's ability to process in unlimited cutting paths. As a result, lines are more smoothly contoured and higher intricacy parts are attainable than through the use of metal tooling.

The patented controller which manages our LaserSharp® systems constantly monitors and adjusts laser power in response to web speeds, ensuring consistent, precise laser processed shapes without burn through. Additionally, by offering multiple processes in a single production run, delays for machine downtime are reduced and production efficiency increases. These benefits allow you to send your components to market faster.

In alignment with our commitment to quality, even printing inaccuracies are accounted for, saving you time and resources. Our correction software ensures that even slightly distorted printed features are cut with precision. Using the workstation's vision cameras to analyze registration points on the material, the software is able to adapt to printing discrepancies and adjust the path of the laser. As opposed to a static die that cannot respond to print cues, the flexibility of our digital technology delivers increased accuracy while reducing the material waste that results from incorrectly processed parts.

Electronic Applications:

- Membrane switch components
- Flexible circuits
- Graphic overlays
- Touch screens
- RFID

Laser converting is able to process flexible circuits with tighter tolerances than traditional methods due to superior vision registration capabilities of our digital laser converting systems. Create precise, accurate circuits with dimensional tolerances measured on the micron scale using conductive coating ablation. Tolerances down to ± 0.005 " are achievable, depending on material and design. This method is suitable for stacked, layered, and laminated structures up to .06" thick.

Laser ablation is ideal for the removal of metalized layers (conductive inks, sputtered films, and thin foils) because of its dry, non-contact, digital, single step process. When utilizing camera vision systems, these patterns may be matched to other components all while continuously moving through the process area. Metalized materials can effectively be removed with minimal damage to the carrier substrate and can be completed on either side of a material.

Industrial Applications:

- Gaskets
- Spacers
- Abrasives
- Adhesive tapes