

TOPFLIGHT INNOVATIONS

Fast Prototyping

Topflight's prototype lab gives designers and engineers the opportunity to test performance on pre-commercial quantities of parts before committing to expensive production tooling and setup costs. Prototyping offers the flexibility of evaluating and changing a design with the assurance of future scalability to production quantities.

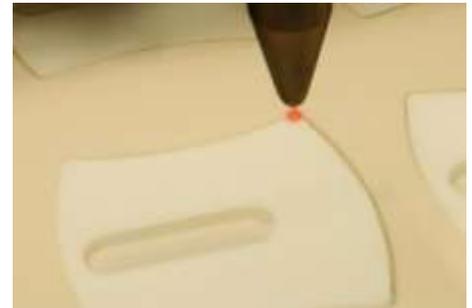
SAMPLE MATERIALS – Topflight can provide samples of hundreds of adhesives and substrates including skin-contact adhesives, wovens, non-wovens, papers, films, foams, filter media, membranes, hydrocolloids, hydrogels, plastics, and foils. These samples can be used to test both technical properties and appearance even before die-cutting a single prototype.

DIE-CUT PARTS & MULTI-LAYER LAMINATIONS – Components can be cut, kiss-cut, scored, perforated, marked, channeled or etched in multiple layers to produce a fully functional piece. Parts such as medical device components, gaskets, seals, overlays, faceplates, and labels can be produced within days on in-stock substrates and adhesives.

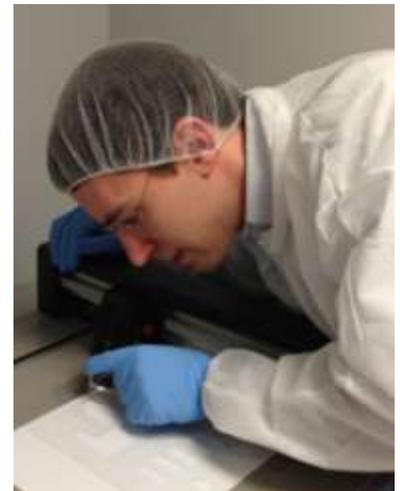
Flatbed Cutter Plotter – cuts most materials without the need for backing. Tangential controls ensure accurate, clean corners on thicker materials or intricate designs on more delicate materials. Sizes up to 23.2"x16.9" can be produced. Heads are interchangeable, allowing for marking (pen); cutting; perfining; or flapside scoring/creasing.

CO₂ Laser – has the benefit of cutting or laser ablating complex designs without investing in tooling. Maximum part size is 14.6"x26.75". Proof of concept designs can be tested on a prototype laser before being transferred to an in-line production laser. Common applications include channels for microfluidics; via holes and circuits for printed electronics; test strips; biosensor and diagnostic components; and consumer products samples.

Punch Press – prototype simulation of matched-metal press suitable for foams and other materials where high degrees of cutting precision are required. Tooling for this press is very inexpensive, allowing for multiple design iterations.



Prototype parts can be used for functional or visual testing and are designed for manufacturability.



Engineers can utilize an existing Illustrator ai, Corel Draw, DWG AutoCAD or DXF file to produce a prototype, or can assist in creating a piece according to your specifications. Engineer-to-engineer communication allows for innovative design collaboration. Your Account Manager can coordinate a call.