

TOPFLIGHT INNOVATIONS

RFID Solutions



Topflight has over two decades of experience with RFID (radio frequency identification) development, printing, converting, inlay insertion, laminating, and antenna and tag production. RFID offers advantages over traditional bar coding, relaying more information with greater accuracy without the need for a direct line of sight.

Antennae, one of the key components of RFID, can be printed or etched in varying combinations of silver, copper or aluminum to achieve the exact transmission and range for each project, from 13.56 MHz to 2.45 GHz. The ability to print trace lines and spaces as narrow as 3 mils allows for lower resistivity in a smaller space. Multiple in-line stations print flexo, screen or a combination using custom formulations of silver or carbon polymer thick films, graphene, or nanoparticle silver inks.

Topflight's high-yield RFID converting equipment has short web paths to drive down costs, interchangeable stations, intricate die & laser cutting, and ESD protection. Our in-house R&D team can suggest material and adhesive options for custom RFID tag development, or help incorporate added technologies such as tamper evidence, security markers, or printed features. Key applications have included wireless sensing components, reagent dispensing verification, positive sample identification, and blood bag tracking.

- ✓ All types of tags – from EPC class 1 to Gen 2, both rewritable and read-only
- ✓ Extreme environments – from golf balls to cryogenic storage in liquid nitrogen
- ✓ All frequencies – from LF/HF, HF extended performance, near field UHF, UHF, & Microwave
- ✓ Delivery formats – singulated, sheets, or rolls

