



ADVANTAGE CONVERTING

Advantage Converting Improves Design and Manufacturing Process of Liquid Delivery Pouch



Industry: Industrial

Application: Bonding & Joining, Packaging, Paper & Pads

Services: Custom Die Cutting, Laminating

Materials: Fabrics & Mesh, Films & Plastics

Case Study

Challenge

A company was designing a new consumer product and needed assistance with the development and production of a liquid delivery pouch. The pouch was complex and consisted of many different layers of material, including a layer of internal mesh that wasn't to be sealed. The company's engineering team had built a rudimentary prototype in-house with tabletop sealers, but the seal was breaking and causing leakage. The team sought a manufacturing partner to test and qualify other materials, make upgrades to the design, and make the pouch bond more consistent.

Solution

Advantage Converting helped the company with the development and production of its liquid delivery pouch. We tested new materials to achieve a better bond and a more consistent product. The heat seal materials consisted of bonding polypropylene, Ildpe, EVA, and polyester mesh all cut to customer specifications prior to bonding.

To produce the liquid pouches, we heat-sealed and die cut film and mesh layers. The challenge was to maintain registration after the pouch was sealed to maintain tight perimeter dimensional tolerances. We developed tooling and a process to layer multiple materials together and then thermally bond them in a custom pouch shape to create a pouch with a filter layer inside of it. The control of heat ensured that the pouch section remained open and the internal mesh did not get sealed. This was achieved with an in-line/automated roll-to-roll production process that allowed us to scale production.

Results

- Advantage Converting built successful prototypes that met use case and production requirements
- Scaled manufacturing for pilot line volumes
- Achieved a better bond and delivered a more consistent product

Tell Us Your Challenge: info@advantageconverting.com

Call Our Team: 650.802.6800

Come See Us: 266 Industrial Rd. Suite A · San Carlos, CA 94070

advantageconverting.com



Our Mission

Advantage Converting strives to serve our customers' every need. You're our lifeblood. We value every opportunity to learn about you, collaborate, and build a lasting relationship. From A to Z, our team is dedicated to understanding and realizing your challenge.

Our customer commitment:

- Produce the highest quality products at a fair cost
- Provide exceptional product turnaround time
- Offer unsurpassed customer service and support
- Ensure sensitivity to all customer privacy needs

We want to contribute to your success. By partnering in all steps from product development to delivery, Advantage Converting will make every effort to ensure you accomplish your goals.

Our Services

- Custom Die Cutting
- Precision Slitting and Rewinding
- Multi-layer Laminating
- Thermal Laminating
- Cleanroom Manufacturing
- Controlled Environment Printing
- RF Welding
- Island Placement
- Packaging and Assembly
- Engineering and Prototyping



Our Process

No matter what stage you're at, we can help you. Whether it's a scratch of inspiration on a napkin, or a fully designed and blueprinted idea, our creative engineers will work with you to make your idea a reality.



Building Relationships

Our customers are our lifeblood. From our initial consultation, and through each step of the process, we value every opportunity to learn about you, your business, and your challenge.



Engineering & Prototyping

Our highly skilled R&D team collaborates with your top engineers on the most difficult design challenges and incorporates your application, quality and cost requirements into a streamlined process and solution.



Manufacturing

To meet your quality, cost, and delivery expectations, we use our comprehensive capabilities, from basic assembly to the highest levels of automation and clean room expertise.



Quality Control

With over 30 years of experience, we incorporate the uppermost quality standards and unparalleled process management from initial consultation to final delivery.



Packaging & Distribution

We utilize our broad logistical knowledge and industry resources to ensure we meet your packaging and distribution requirements, regardless of type and scope.



Service & Support

Our customer service team is committed to providing you highest-quality support and satisfaction for every inquiry and request, whether it's broad or specific, about designing, manufacturing, or shipping.