



## Precision Textile Cutting

### Program and die-cut Custom Fabric, Filter, and Pad Solutions for Diverse Industries

#### PROGRAM CUTTING



For over six decades, Fairway Products has been a leading provider of precision die-cut and program-cut components, specializing in fabrics, filters, and pads for a wide range of industries, including medical, automotive, and pharmaceutical. Our commitment to quality, innovation, and customer satisfaction has made us a trusted partner to businesses worldwide.

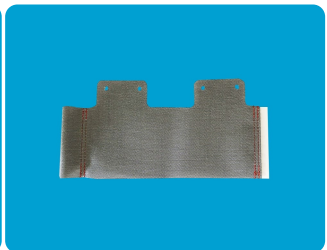
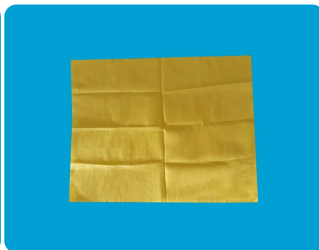
Leveraging state-of-the-art CAD systems, our expert team optimizes material usage to deliver cost-effective and high-quality die-cut and program-cut components. From intricate shapes to complex patterns, we offer tailored solutions to meet your exact specifications. Whether you require small-batch prototypes or large-scale production runs, we have the capacity and expertise to handle your project efficiently.

#### DIE CUTTING



Our Filpaco filter papers renowned for their exceptional performance and versatility are available in a variety of grades, which can all be custom cut to suit the unique requirements of your filtration process. From fine particulate removal to liquid clarification, we have the ideal filter paper solution that can be cut to fit your exact application.

Our comprehensive services extend beyond die cutting and program cutting and filter paper production. We offer expert consultation to help you select the optimal materials and configurations for your specific needs. Our prototyping capabilities allow you to visualize and refine your product before committing to full-scale production. Additionally, our experienced technicians provide ongoing support to ensure your complete satisfaction.



## The Power of Fairway

Do you need custom fabric, filter, or pad solutions? Fairway Products offers a comprehensive die cutting and program cutting service for various industries. We utilize advanced technology and expertise to deliver precise cuts, reduced waste, and efficient production. From medical dressings to automotive gaskets, our capabilities cater to a wide range of applications. Explore the benefits of Fairway's precision cutting and discover how we can streamline your manufacturing process.



## Applications

### MEDICAL & HYGIENE

Dressings, filters, swabs, wipes, bandages

### SEATING & SEAT COVERS

Buses, Airplanes, RVs, ATVs, Trucks

### FILTRATION

Dust collection, oil mist, fabric/textile pre-filters, HVAC filters

### INDUSTRIAL MANUFACTURING

Gaskets, wipes, insulation

## Features

### PRECISION CUTTING:

- Gerber and Pathfinder cutters for accurate results
- Handles materials up to 90" wide and 1.5" thick
- Drilled holes from 1mm to 6mm
- Tension-free spreading for textiles

### CUSTOM SOLUTIONS:

- No tooling required for program cutting
- Easy program modifications
- Steel rule dies for intricate designs
- Multi-ply cutting capabilities

### MATERIAL VERSATILITY:

- Processes a wide range of textiles, non-wovens, films, and papers
- Cuts materials up to 2" thick (slitting)
- Handles roll widths up to 104" (slitting & rerolling)

### ADVANCED CAPABILITIES:

- Nesting for material optimization
- Slitting and rerolling with tight tolerances (+/- 1.5mm)
- Duplex slitting for thin films and paper

## Benefits

- ✓ **Reduced Waste:** Optimizes material usage through CAD systems and nesting
- ✓ **Cost Savings:** Eliminates tooling costs with program cutting
- ✓ **Faster Production:** High-speed computer-guided technology
- ✓ **Increased Efficiency:** Multi-ply cutting and slitting capabilities
- ✓ **Improved Quality:** Precision cutting for consistent results
- ✓ **Customizable Solutions:** Tailored products to meet specific needs
- ✓ **Streamlined Logistics:** Co-packing, warehousing, and drop shipping services
- ✓ **Simplified Process:** Expert technicians assist with material selection and configuration

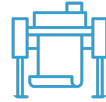


## Key Capabilities



### Program Cutting

- Gerber and Pathfinder cutters
- Material widths up to 90" wide
- Textile layers up to 1.5 "
- Computer guided technology
- Drilled holes 1mm-6mm
- Tension free spreader of textiles
- Easy Cut program modifications
- No tooling required
- Process a wide range of textiles



### Die-Cutting

- Traveling head die cut press
- Multi-ply cutting capability
- 39" X 39" cutting head
- Material width up to 78"
- Steel rule dies
- Nesting capabilities



### Converting

- Material widths to 70"
- Cut part size up to 70" X 50"
- Steel rule dies
- Multi-ply material cutting



### Slitting

- Processes material up to 2" thickness
- Utilizes air score slitter knives
- Heavy duty unwind capability
- Processes material on 3" cores
- Roll width to 60"



### Slitting & Rerolling

- Wovens, non-wovens, vinyls, carpet, screen, and plastic mesh
- Roll widths up to 104"
- Roll diameters up to 53"
- Core sizes 2"-6" on the unwind
- Core sizes 2"-3" on roll put ups
- Cut tolerances +/- 1.5mm



### Duplex Slitting

- Unwind diameter up to 55"
- Unwind core size range 3"-7"
- Unwind roll weight up to 4000 lbs
- Rewind diameter up to 31.5"
- Rewind core sizes 2" & 3"
- Cut widths - 1" min.
- Material: .001 - .010 in thick film (PP, PET, PE), .007 - .017 in thick paper

## Materials & Equipment

### Materials

- |            |                |           |                     |
|------------|----------------|-----------|---------------------|
| • PET      | • EPDM         | • Vinyl   | • Foam              |
| • Woven PP | • Spun PET     | • Leather | • Non-Wovens        |
| • HDPE     | • Woven Screen | • Scrim   | • Specialty Fabrics |
| • Paper    | • Polyester    | • Kevlar  |                     |

### Key Equipment



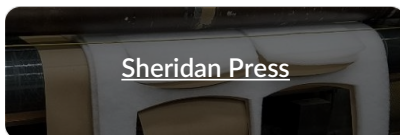
Pathfinder CNC Machine



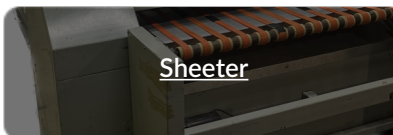
Duplex Slitter Machine



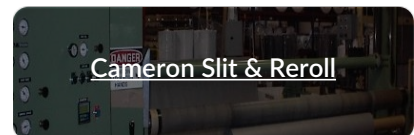
ATOM F1 EDI Die Cut Machine



Sheridan Press



Sheeter



Cameron Slit & Reroll



## Key Markets



Automotive



Industrial

## Case Study

### Precision in RV Screen Manufacturing: Fairway Products Collaborates with a Leading Outdoor Solutions Provider to Deliver High-Quality RV Screens



**Summary:** Fairway Products, an expert in textile and material conversion, partnered with a leading outdoor solutions provider to deliver high-quality RV screens. This project entailed die-cutting aluminum screens and attaching them to molded plastic frames through an innovative heat-staking process. The resulting product met stringent quality standards and was seamlessly integrated into the customer's assembly line, demonstrating Fairway's capabilities in precision manufacturing and value-added services.

#### Project Specifications

- Material: Aluminum screen
- Frame: Molded plastic
- Process: Die-cutting and heat-staking
- Product: RV screens
- Certifications: ISO 9001:2015



## Uses and Applications

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The RV screens manufactured in this project are designed for installation in recreational vehicles, providing durable and reliable screening solutions. These screens are essential components for RV windows, ensuring ventilation while keeping insects and debris out.

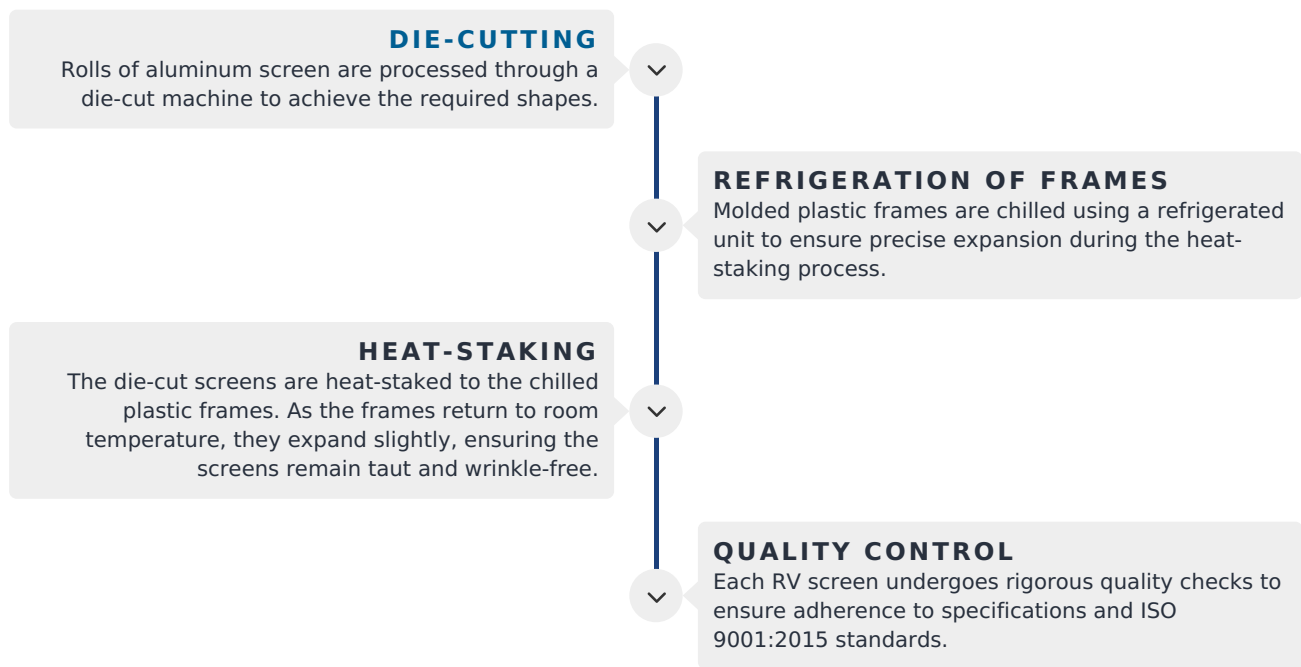
## Scalability of the Project

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The initial run of this project demonstrated Fairway Products' ability to scale production efficiently. Starting with a pilot batch, the process was refined and optimized to handle larger volumes, ensuring consistent quality and timely delivery. The scalability of the project underscores Fairway's capability to meet increasing demands without compromising on precision or performance.

## Manufacturing Process

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## Quality Control Steps

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Fairway Products adheres to strict quality control measures throughout the manufacturing process:

- ➔ **Material Inspection:** All incoming materials, including aluminum screens and plastic frames, are inspected for defects and compliance with specifications.
- ➔ **Process Monitoring:** The die-cutting and heat-staking processes are continuously monitored to maintain precision and consistency.
- ➔ **Final Inspection:** Completed RV screens are inspected for structural integrity, proper attachment, and overall quality. This includes checking for wrinkles, alignment, and durability.
- ➔ **Certification Compliance:** Adherence to ISO 9001:2015 standards ensures that all processes meet the highest quality benchmarks.



**Value to the Customer:** By handling both the die-cutting and the heat-staking processes, Fairway Products provided a turnkey solution that streamlined the customer's supply chain. This integration allowed the customer to receive ready-to-install RV screens, reducing assembly time and costs. The innovative use of refrigeration to maintain screen tension added a unique value, ensuring a superior product that enhances the end-user experience.

Fairway Products' ability to deliver high-quality, scalable solutions with strict adherence to quality standards exemplifies their commitment to excellence in manufacturing. This project not only met but exceeded the customer's expectations, solidifying Fairway Products as a trusted partner in the RV industry.

## Contact Fairway

Need assistance in maximizing manufacturing efficiencies to ensure quality and optimize costs? Call or email us today and one of our skilled team members will lead the way. [\(517\) 437-8940](tel:5174378940) ~ [Fairway@acmemills.com](mailto:Fairway@acmemills.com)