



SOLUTIONS FOR
Aerospace

PRECISION CONVERTING & OUTSOURCE MANUFACTURING

 **webindustries**
Ingenuity with a personal touch

Change is the new status quo.

Change is unrelenting. We are in an era marked by increased globalization, a superabundance of competition, and escalating customer expectations. Over time, decisions to simply run faster just to keep up will become increasingly inadequate. Companies need to evaluate and make modifications to how they deliver value by applying new strategies and operating models.



Why outsourcing is in.

The aerospace industry continues to increase its reliance on suppliers for a variety of services, from design to assembly. This strategy gives rise to a wide array of benefits:

- It leverages outside perspective, enabling you to interject new thinking about technologies and material options.
- It maximizes flexibility, allowing you to be more nimble in adapting to evolving customer needs.
- It equips speed-to-market with a whole new gear, affording you the opportunity to accelerate the adoption of new solutions – a critical factor in markets facing increasing competition and commoditization.
- It reduces costs, helping companies like yours improve both competitiveness and profit margins.

Ultimately, by removing the burdens of sourcing and component manufacturing, outsourcing enables you to concentrate on your core competencies – precisely those areas where you add the most value.



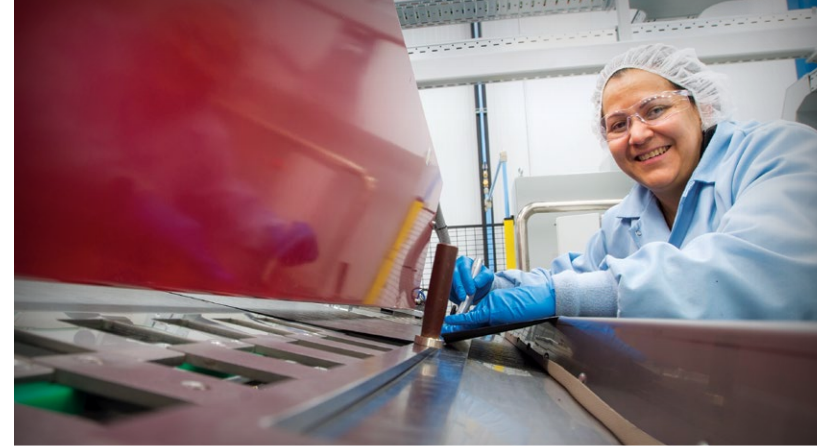
A **commitment** to **excellence**, from **development** to **delivery**.

At Web Industries, we evaluate composites for our customers and develop optimized formatting processes for pre-production at commercial-scale capacity to support OEMs and Tiered Suppliers. It is a specialty we come by quite naturally. Having spent a half-century processing, manufacturing, and innovating with flexible materials, we have more experience in formatting composites than anyone else in the world. The fact is, we practically defined certain aerospace composite standards that make the latest generation of commercial aircraft possible. And with multiple facilities in both the U.S. and Europe, we're where we need to be to support our customers.

Reputation. Innovation. Accountability. It's why the world's top aerospace companies trust Web Industries to bridge capability gaps and accelerate go-to-market success. They appreciate how easy it is to work with us as we assertively address both product and process challenges. And they value our ability to make them more productive and profitable. Trust us to do the same for you.



**We are the only
composite formatting
company with the
proven ability to
simultaneously
support multiple
major aircraft
development
programs.**



Reducing risks. Improving outcomes.

At Web Industries, we realize the importance of our role in your success, which is why we apply a simple, consultative approach to creative problem solving. We listen to your needs. We develop close, collaborative relationships with you and your team. We share what we've learned from our years in the business. And we innovate.

When you work with Web Industries, know this: You're working with a partner, not a supplier.



Aerospace composite solutions are made in plants. Trust is a product of relationships.

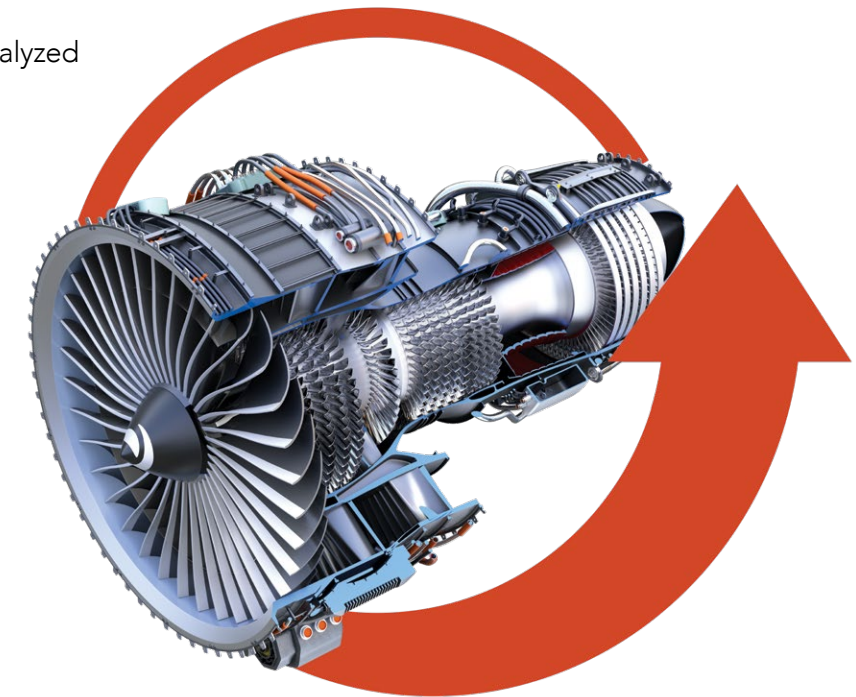
AIRCRAFT ENGINE MANUFACTURER SAVES NEARLY \$4 MILLION.

A major aircraft engine manufacturer, interested in increasing production throughput, contacted Web Industries to discuss outsourcing their composite ply formatting operation. They decided to outsource the entire process to us after calculating prospective savings and productivity gains related to supply chain, raw material inventory, material management, and ply cutting / kitting activities. Most important to their objective was the recovery of valuable assets – floor space, personnel, and freezer space – which they were able to reallocate to final production.

The tipping point? When the manufacturer analyzed how the cost, productivity and increased operational benefits of outsourcing the supply chain and preproduction formatting operations could lead to strategic benefits in winning new business.

“This is exactly
what we needed
to do.”

- Manufacturing Engineer Lead



PRIMARY BENEFITS

- Inventory management costs were cut by nearly \$4 million annually.
- Valuable floor and freezer space was freed up for other purposes.
- Important engineering resources were redirected to their core business.

What Web Industries can do for you.

As a genuine pioneer in composite formatting, we employ an entire spectrum of technologies and services to optimize fabrication rates by custom-tailoring the material to your manufacturing process, production flow, supply chain, and quality reporting needs.

RELY ON US FOR A VARIETY OF SERVICES.

The following technologies and systems increase manufacturing throughput while providing the material management and quality assurances that the aerospace market demands:

DEVELOPMENT CENTER FOR COMPOSITE AUTOMATION

Our unique testing facility provides new material processability and fabrication suitability analysis. This accelerates end-to-end material development and qualification cycles, reduces capital and labor costs, and speeds products to market.

PRECISION SLIT TAPES

Qualified on all major AFP and ATL lines, our unique PrecisionSlit™ cutting technology allows us to slit and spool prepreg tape as narrow as .125" (3.2mm) while holding to your exacting tolerances.

CUSTOM SLIT TAPE SPOOL PACKAGE DESIGN


We match tape length, winding patterns, liner materials, and spool sizes to meet your specific manufacturing requirements to provide custom-formatted material that can streamline fabrication workflow, increase production rates, and reduce overall waste.

AUTOMATED PLY CUTTING

Customized, automated table cutting processes produce perfectly cut plies faster and more consistently than traditional hand-cutting methods. Advanced shape-nesting ensures efficient material usage.

PRECISE PLY KITTING

Using our PlyScan™ technology, precision-cut plies are labeled and sequenced into pre-assembled kits that are ready to go from our inventory to the production floor. This ensures that kits arrive per specification for final product manufacturing and helps maximize throughput rate.



We maintain nine facilities with a broad range of capabilities. In total there are more than 65 processing lines performing large and small-scale materials converting, contract manufacturing and engineering services.



THERMOPLASTIC FORMATTING

Thermoplastic material is precisely slit, spooled, chopped, or pre-formed, optimizing it for automated fabrication processes.

COMMERCIAL SCALE CAPACITY

We are the only composite formatting company with the proven ability to simultaneously support multiple major aircraft development programs. From early-stage trials through ramp up to full production rates, we keep you supplied as needed.

VENDOR MANAGED INVENTORY SERVICES

Industry-leading material management, freezer storage, and inventory control services eliminate the need for you to invest in non-core production infrastructure and labor.

FULL LOT TRACEABILITY

From material manufacturer through formatting – our systems track temperature, out-time, and defect removal across every stage of processing. This allows for unprecedented historical traceability and yield analysis.

CUSTOM REPORTING & MATERIAL LABELING

Customized material history reporting reduces your quality assurance overhead. Fabrication process-specific material labeling also facilitates more efficient workflow on the production floor.

QUALITY ASSURANCE & FOD CONTROL

Our AS/EN9100C and Nadcap certified facilities, aerospace-grade processes, and exacting quality assurance systems provide controlled receiving, formatting, and shipping environments.



Put us to **work for you.**

Web Industries enables go-to-market success through technological and manufacturing ingenuity. Far more than just products, we deliver the best total solution. Contact us to find out how our industry-leading composites formatting technologies and services can help you get the most out of your mix of materials, machines, and manufacturing processes.

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Web Industries is 100% employee-owned.

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Year
Anniversary

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