

ExactFlat

DESIGN STUDIO

THE GAME IS CHANGING

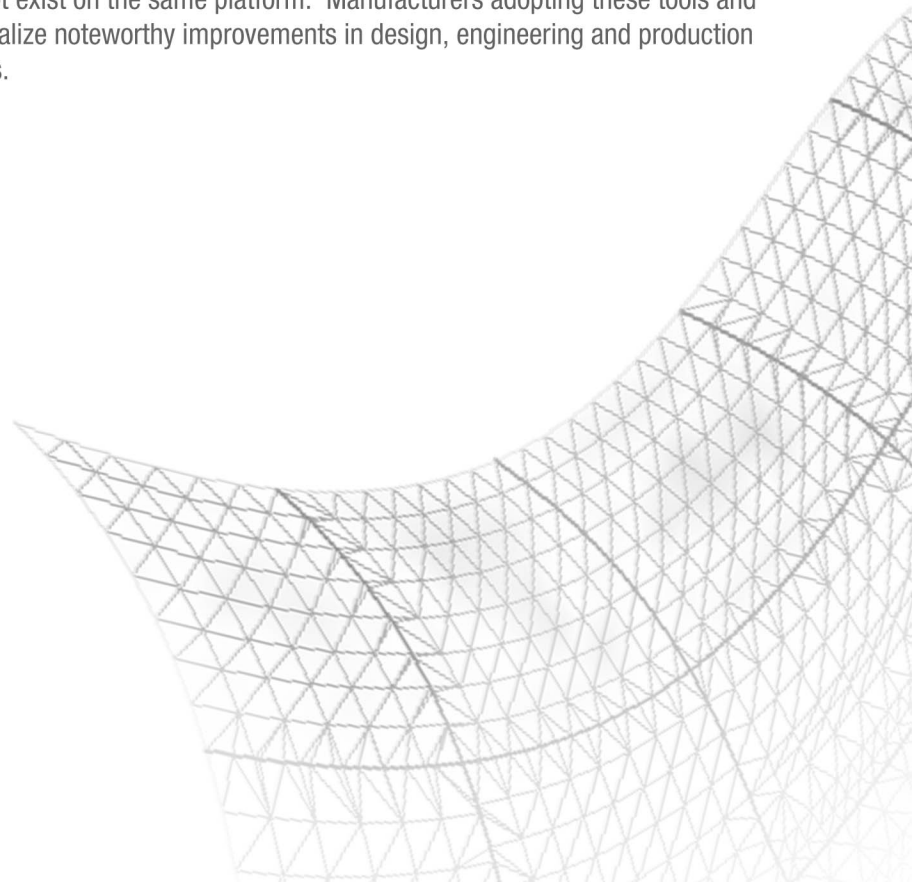
**FOR MANUFACTURERS USING
INDUSTRIAL FABRICS,
GETTING MORE DONE IN LESS TIME
HAS NEVER BEEN EASIER**

CHASING COMPETITIVE ADVANTAGE

Rigorous management of fixed costs, flexible production systems, and streamlined design & engineering operations are critical strengths present within all leading manufacturing organizations. Aligning people, processes, and technical systems in pursuit of ongoing improvement in these areas results in competitive advantage across a number of dimensions:

- **Better product performance & differentiation**
- **Lower unit cost & increased productivity**
- **Reduced time-to-market & improved response times**

For manufacturers working with industrial fabrics, such as those in automotive, marine, aerospace, furniture, apparel, architecture, etc., a new breed of tools is emerging –tools that have integrated functionality that previously did not exist on the same platform. Manufacturers adopting these tools and related processes are poised to realize noteworthy improvements in design, engineering and production speed while containing fixed costs.



THE GAME IS CHANGING

THE DREAM OF “SCREEN-TO-MACHINE” IS NOW A REALITY

3D CAD-to-Cutter, also known as “screen-to-machine” software tools are set to shake the very foundation of how products are created. They offer the functionality, interoperability, speed and flexibility asked for, but until recently, not available. Early adopters of these tool sets are poised to realize dramatic productivity gains.

What is the problem? For starters:

- **Fragmented software packages and offerings mean files must be trafficked from one system to another, with inevitable losses of data integrity and limiting the opportunities to accelerate downstream activity from upstream inputs.**
- **Computer-enabled digital workflows are often interrupted by manual processes (e.g. creating flat patterns, costing) which slows overall design speed, limits flexibility, and can increase costs.**
- **The various manufacturing skill sets are spread across separate platforms which limits team collaboration and also requires the maintenance of multiple product licences.**

These challenges add considerable time, money and effort, limiting the very elements that lead to competitive advantage: fixed cost containment, flexible production, and streamlined design processes.

Lastly - and perhaps most importantly - many tools in widespread use are poorly suited to the tasks at hand or have not evolved significantly in many years. Leading solid modelling 3D CAD packages are rich in features and function, however they are not optimized for industrial fabrics and sewn products in general, and many of the 2D CAD-based offerings purpose-built for industrial fabrics severely limit the screen-to-machine automation, flexibility, and speed many manufacturers demand.

7 YEARS IN THE MAKING

THIS IS VERY BIG NEWS AND EVERYONE ASKS US HOW WE DID IT

Our design goal was to help you do twice the amount of work in half the allotted time.

We started by deconstructing each stage in the workflow and re-thinking every task. We looked at the tools that were available and then considered the ones that needed to be created. We dropped all the unnecessary elements, the poorly implemented functionality and counter-intuitive interfaces. Then we started to put things back together. Now you have exactly what you need in a way that makes sense. The result: blazing improvements in productivity.

Steven McLendon
Executive Vice President

We wanted it to be simpler to learn and faster to implement than any other product in the market.

We evaluated existing platforms and products, ranking their advantages. We also carefully examined their related sales and service ecosystems. The schools that educate, the resellers that implement and train, and the professional associations and their members that bring the expertise to new levels. We narrowed our selections around the bullseye and created a package with an existing base of millions of trained users across a spectrum of industries, together with an entire infrastructure for service that is already in place and serving geographies world-wide. Lastly, we adapted our tools to the way customers think and work so they don't have to re-invent internal processes just to get started.

Mark Jewell
CTO

Customers told us they want one platform for Design and Data so all team members can better collaborate.

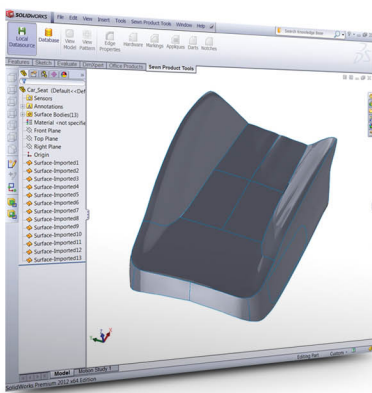
We heard our customers loud and clear - the proliferation of different software packages can lead to less collaboration as work gets fragmented across departments and geographies. With one platform, the work completed in one area can be used to automate and accelerate work done in another. Also, with part assemblies being parametrically defined and fully linked across design, flatten, pattern, nest and costing, feature changes propagate automatically through the design, prototyping and production process. Getting more done in less time with lower effort is just the beginning - the real innovation will be when customers apply their extra time and effort to creating, winning and growing new business opportunities.

Matt Smith
Director of Marketing

EXACTFLAT DESIGN STUDIO IS A

REVOLUTIONARY NEW PRODUCT WHICH BRINGS DIGITAL DESIGN DIRECTLY TO PRODUCTION & MANUFACTURING

ExactFlat Design Studio works inside the SolidWorks CAD environment and brings exceptional productivity benefits to users - up to 400% faster or twice the amount of work in half the allotted time for many design tasks.

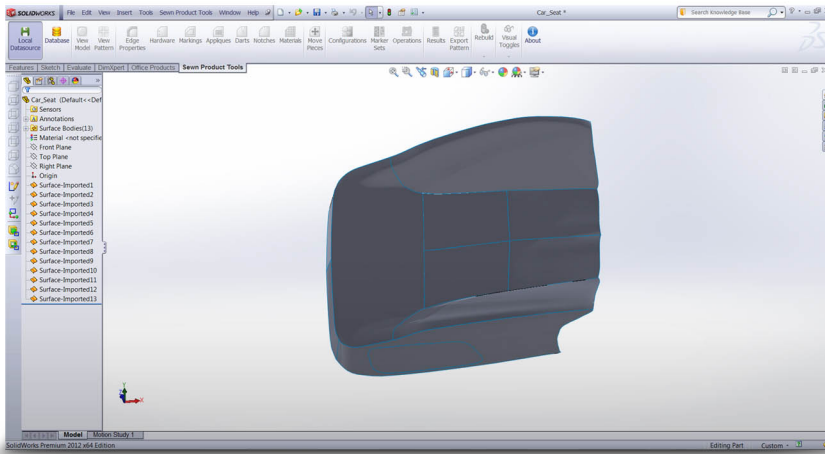


3D CAD-TO-CUTTER

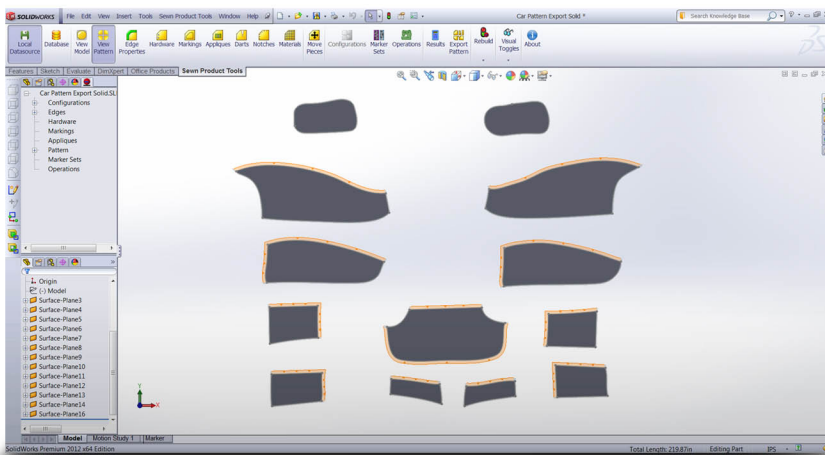


FOR THE FIRST TIME EVER ON A LEADING 3D CAD PLATFORM A FEATURE SET THAT MAKES "SCREEN-TO-MACHINE" A REALITY

- **Sewn Product Design Tools:** Enable you to design fabric and solid components on one platform with tools tailored for both material types. An industry first.
- **3D-to-2D Fabric Flattening:** Take 3D designs directly into production-ready flat patterns in minutes - not days or weeks - using the most advanced algorithms for industrial fabrics and all within a software tool you already know how to use.
- **Nesting:** Minimize material costs with integrated automated nesting - another industry first. Nesting integrated into a leading CAD package and parametrically linked to 3D designs. You can now go from CAD-to-Cutter faster, and more easily, than ever before.
- **Real-Time Costing:** Real-time costing, as you design. Pricing a job? Everyone (Accounting, Sales, Design, Purchasing and Production) can know the cost down to the level of each part in real time. It is business intelligence that leads to intelligent business.

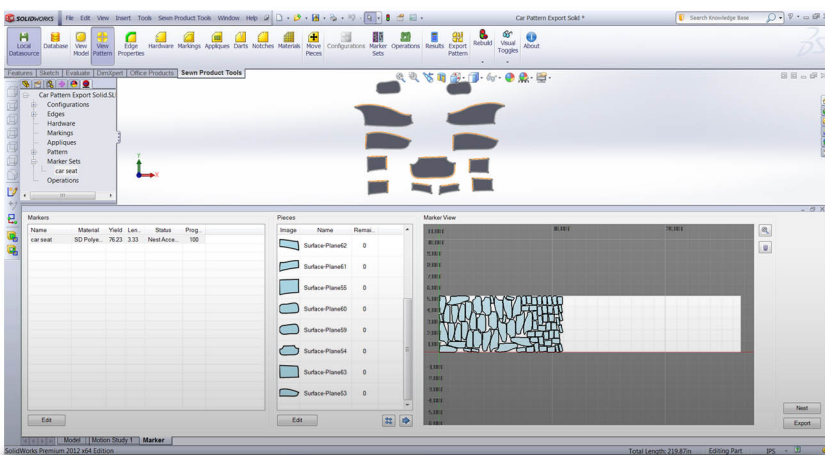


**For the first time,
3D design, 3D-to-2D
flattening, nesting
and costing are fully
integrated on a
leading CAD
platform.**



For manufacturers
working with industrial
fabrics the benefit
is simple:

**Get more done,
in less time,
with lower effort.**



CONCLUSIONS

THE NEEDS OF MANUFACTURERS WORKING WITH INDUSTRIAL FABRICS ARE NOT CURRENTLY BEING MET.

Problem

Limitations of the current tools are driving manufacturers to look for alternatives.

Solution

New processes and technologies are fuelling new opportunities for these manufacturers.

ExactFlat Design Studio is the first product to integrate 3D design, 3D-to-2D flattening, nesting and costing on a leading CAD platform. This means:

Integrated Platform

Sewn product features are parametrically defined and fully linked from 3D design, to 2D flat pattern, to nest, and cost.

Team Collaboration

Design, data, and creativity are on one platform, bringing excellence, speed and flexibility to design, prototyping, and production.

Up & Running in Hours

Built directly into SolidWorks for fast ramp-up, a large talent pool, and a network of resellers for support.

**For manufacturers working with industrial fabrics the benefit is simple:
Get more done, in less time, with lower effort.**

Contact ExactFlat to learn how your business can realize these benefits.



Phone

647.933.9099



Toll-Free

1.877.977.7776



Email

sales@exactflat.com



Web

exactflat.com



ABOUT TRI-D TECHNOLOGIES

MAKERS OF EXACTFLAT AND EXACTFLAT DESIGN STUDIO

Tri-D Technologies is a Toronto and Atlanta-based software company. We develop and market software for the CAD/Industrial fabrics marketplace with a special emphasis on reducing time, effort and cost for CAD-to-Cutter workflows.

Our capabilities are best expressed as the convergence of 3 skillsets:

- **Domain expertise in industrial fabrics for use in manufactured goods such as automotive seats, furniture, marine products, fashion, architecture, etc.**
- **Advanced research-level mathematics for creating proprietary algorithms**
- **Programing development and integration skills with leading CAD platform APIs such as Autodesk Inventor, SolidWorks, Rhino, etc.**

We are venture-backed with a strong management team with excellent reputations in the CAD and Industrial Fabrics communities.

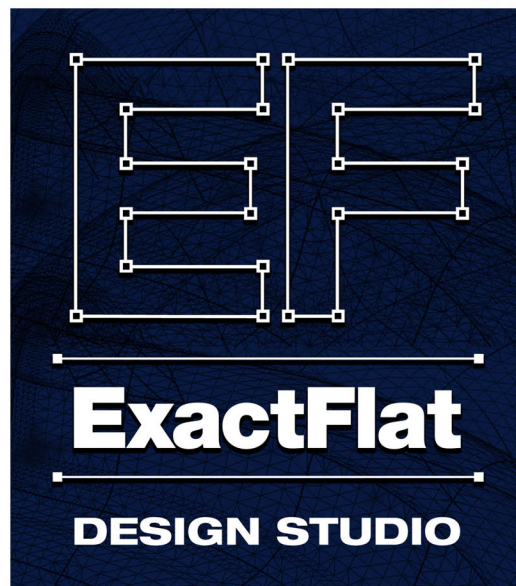
Our principals have a track record of writing excellent software, some of which has been sold and is incorporated into Autodesk and SolidWorks products. Customers such as Johnson Controls, Ford Motor Company, Daimler, Lear, Gerber Scientific and others have used products created by our principals.

We endeavor to be the best and we get better every day.

Our goal is to claim and own the emerging 3D-to-2D, CAD-to-Cutter opportunity. We estimate this category to be in excess of 1.5 Billion USD and we are moving aggressively to be the dominant player. We have aligned our management, technical, partner, and sales resources in support of this objective. No company is more focused on this niche than we are.

Our flagship product line – ExactFlat – has 7+ years of development, more than 6 million lines of computer code, 3 years of customer trials, and more than 2 dozen proprietary algorithms created specifically for the industrial fabrics customer segment.

With the forthcoming release of ExactFlat Design Studio we are projecting to enable our customers to do twice the amount of work in half the allotted time.



exactflat.com