



by EFICAD

WOODWORKING CAD/CAM SOFTWARE FROM DESIGN TO MANUFACTURING

www.swood.eficad.com



Scale and optimize your woodworking projects

EFICAD is the editor of SWOOD. For over 30 years, we have been applying our CAD/CAM expertise and our knowledge to provide the best in class solution for your woodworking needs.

SWOOD is now present in over 50 countries and is expanding at a really fast pace as more and more woodworking experts are shifting towards software solutions.

With its extensive network of resellers, SWOOD also provides top customer service for our clients. Our customer support works around the clock to train you and help you realize any personalized projects.



Table of Content

03

About Us

04

SWOOD Portfolio

05

SWOOD Design

07

SWOOD CAM

09

SWOOD Nesting

11

SWOOD Center

12

SWOOD BW

13

Why choose SWOOD?

14

Customer testimonials

About Our Company

We help you realize your woodworking ideas and concepts.

A complete woodworking solution

SWOOD is a woodworking CAD/CAM software, integrated seamlessly within SOLIDWORKS. SWOOD portfolio is composed of 5 distinct products that make it the all-in-one solution from design to manufacturing. Scale, automate and save your time by using SWOOD.

Our solution is for anyone designing and producing in the wood industry. The users can easily produce furniture, shop fittings, interior designs for different types of vehicles (boats, trucks, vans), interior fittings such as kitchen, wardrobe, bathroom cabinets, joinery, office furniture, point of sale and many other projects.

This software is flexible and scalable, thus it is being used from international mass manufacturers to small woodworking shops.

SWOOD also boasts a partnership with CNC machines providers like BIESSE, HOMAG, SCM, HOLZHER, FELDER, and many more. Not only that, we also have partnerships with many hardware providers like BLUM, FASTEN LINK, GRASS, HETTICH, IF, LAMELLO, LMC, LOCK-DOWEL, OVVO and many more.

CERTIFIED
Gold
Product

 SOLIDWORKS

SWOOD Portfolio

A COMPLETE CAD/CAM SOLUTION FROM DESIGN TO MANUFACTURING

SWOOD portfolio is composed of 5 solutions which are SWOOD Design, SWOOD CAM, SWOOD Nesting, SWOOD Center and SWOOD BW (Beam & Wall). Each of these products tackles different aspects of the woodworking process.

01

DESIGN

SWOOD Design helps you make your design process efficient.

02

CAM

Use SWOOD CAM to generate specific CNC programs to manufacture the designs that you created.

03

NESTING

SWOOD Nesting, being an add-on to SWOOD CAM, optimizes your nesting process and reduce any raw material wastes.

SWOOD covers all the industry needs and thus enables you to succeed in your business at the same time.

SWOOD Center, allows you to accomplish any of your projects on a large scale by introducing automation.

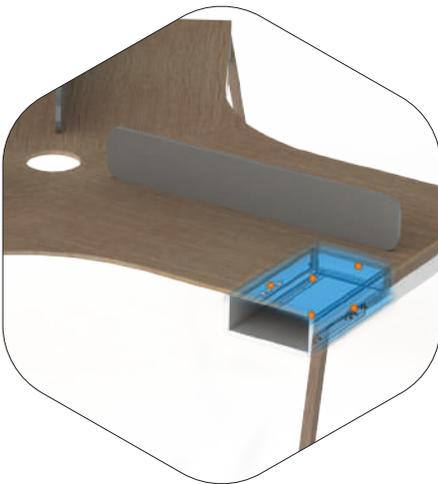
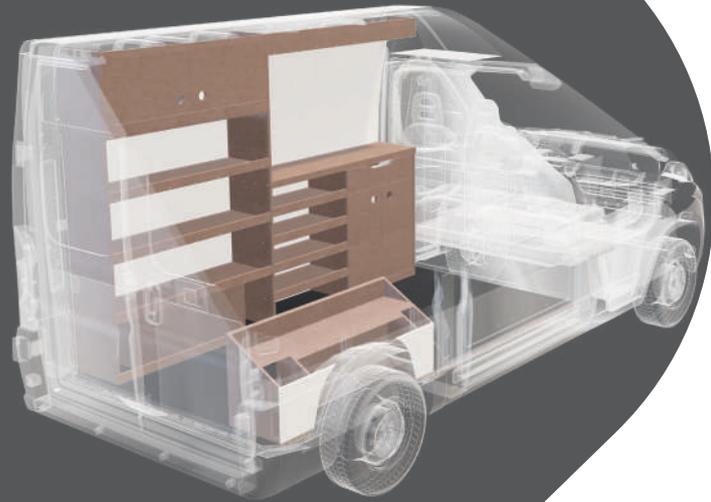
You can even benefit from SWOOD BW to help you with any of your construction or timber based projects.

CENTER

BW

SWOOD Design deals with the efficiency of the design process. Our CAD solution allows you to design your projects in a 3D environment using parametric modelling and drag and drop insertion.

SWOOD Design allows you to quickly model furniture, furnishings, interior fittings, and others, by using features dedicated to the woodworking industry in SOLIDWORKS.



01 SWOODBOX

SWOODBoxes are SOLIDWORKS parametric sub-assemblies that allow you to drag-and-drop hardware elements such as drawers, hinges, shelves, dividers, cable grommets and any 3D elements you wish to reuse (including using SOLIDWORKS functions such as sheet metal or weldment tools). The machining associated with these components are also included.



02 CONNECTORS

Allows you to add assembly functions such as Lamellos, dowels, excentrics, tenons / mortises, etc. to your projects by automatically detecting the contact surfaces between your panels and wood parts and by controlling them via parametric functions.

**03**

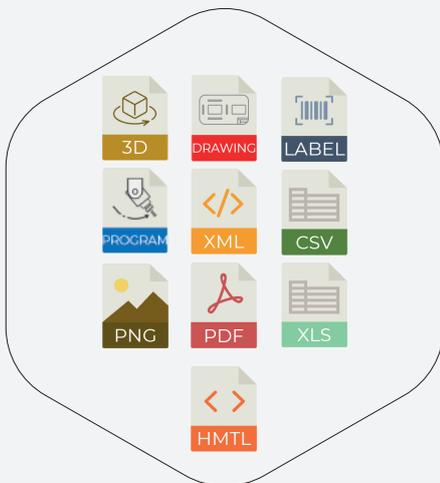
MATERIAL MANAGEMENT

With SWOOD Design, you can manage all the parameters related to the wood material such as the direction of the grain, the thickness of the panel, the extensions of the stock, the curved panels, the composite panels, and the components such as edgebands or laminate by simple drag and drop.

**04**

LAYOUT MODE

Create entire rooms using the layout mode (kitchen, store fitting, dressing room, etc.) by reusing your frames templates and easily change the dimensions of the various pieces of furniture that make up the assembly.

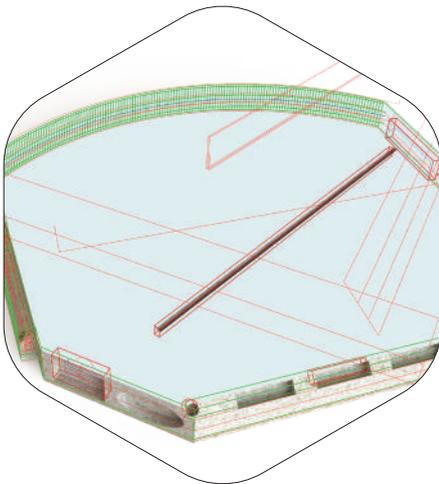
**05**

AUTOMATIC DATA EXPORT

Once the design is finished, it is possible to export all the project data: automatic drawings, cutting list, hardware list, program list with label information, bills of material, costs of the different components, optimization software for beam saw export. The export is completely customizable and allows to output documents with various file format: XLS, PDF, CSV, HTML, XML, TXT etc.²

SWOOD CAM solution supports woodworking CNC machines and their specific technologies.

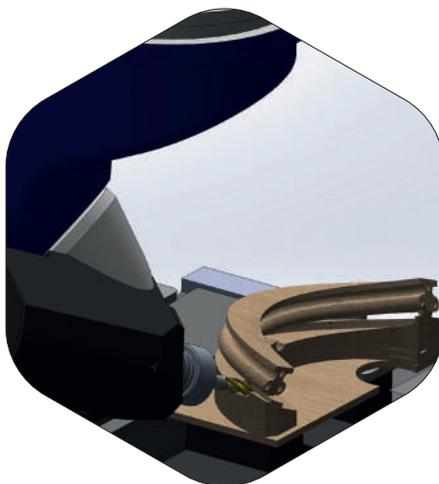
It allows you to link the design information to the CNC machines by generating the necessary programs and production documents for your machining operations.



01

SHAPE RECOGNITION

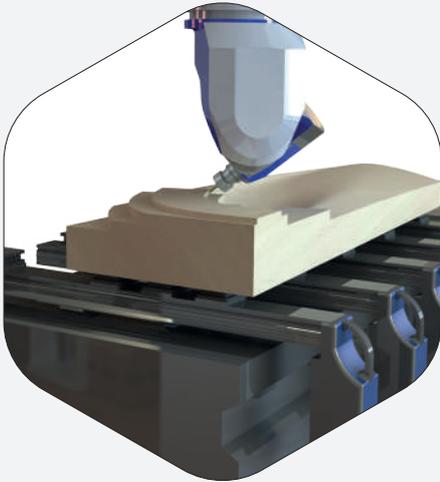
Thanks to the geometric recognition algorithm, most of the common machining operations are detected automatically: pockets, contours, grooves, drills, saw cuts, and Lamello cuts. As a result, most programs can be created automatically and consistently.



02

CNC SIMULATION TRAJECTORIES

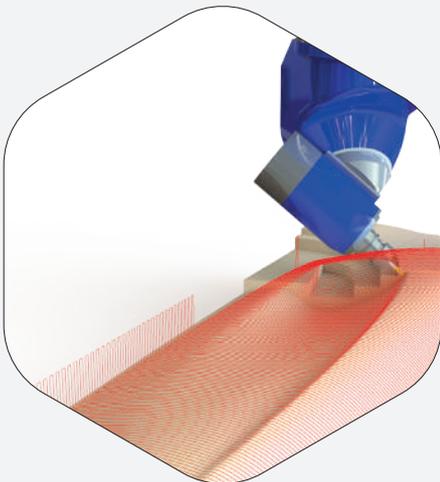
Preview the full program within the simulation with material removal feature. This includes the whole machining environment, where you can detect all the collisions between the head, the table, the tool and the part.



03

MANAGEMENT OF MACHINING TOOLS

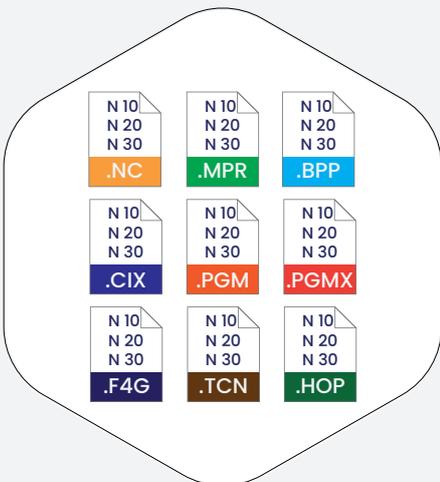
SWOOD can be used to control motorized machining tables: suction cups, bars, clamps ; and manage special tools: edge banding units, profiling tools for joinery, drilling blocks, and many others.



04

UP TO 5 SIMULTANEOUS AXIS

As a complete woodworking CNC software, SWOOD CAM can create and manage 3 to 5 axis programs based on your project's needs.



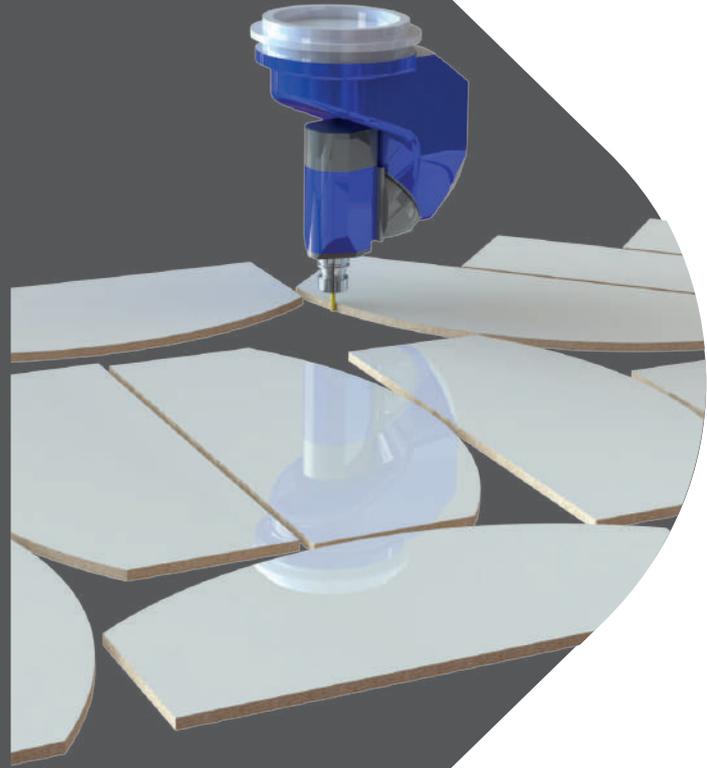
05

PROGRAM EXPORT

Export your paths to your CNC with our post-processors. Post-processors available for : HOMAG (WoodWOP), BIESSE (BiesseWorks, bSolid, ISO), SCM (XILOG, MAESTRO, ISO), Felder (TPA, F4Integrate), HOLZHER (NC HOPS), and many more.

CNC nesting software to nest and optimize projects parts onto a nesting panel to reduce material waste. SWOOD Nesting is a bolt-on to SWOOD CAM.

Reducing preparation time, material consumption and most importantly, saving you money, SWOOD Nesting is the ideal CNC nesting software for your needs.



01

NESTING FROM 3D MODELS

Nest 3D models to optimize raw material. SWOOD Nesting allows you to accurately nest your project's parts onto wood panels for manufacture and optimise output with several strategies.

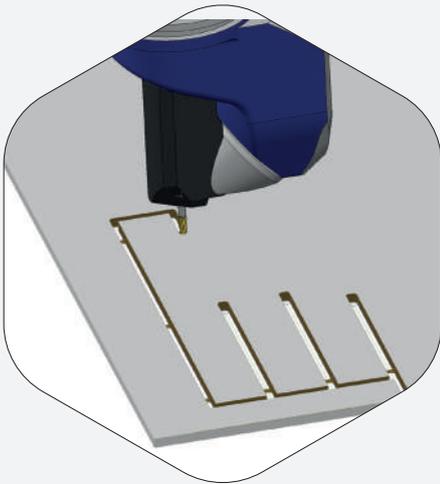


02

GRAIN MATCHING ON PANELS

Linked to SWOOD Design, you have the possibility to match grain direction of front panels for aesthetic finishing.

These front panels are now considered as a single entity, thus making it easier to nest them (front panels grouping).

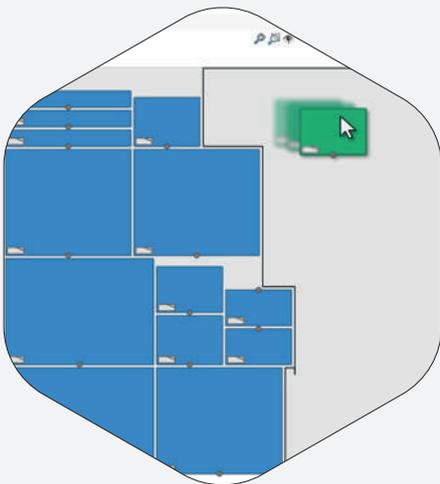


03

OPTIMAL HOLDING

With these features you can optimize the holding of your parts by applying specific strategies:

- Cutting order (from the smallest to the largest part)
- Optimized trajectories to let material as long as possible on the part
- Automatic bridges insertion
- Avoid parts from board edges



04

MANUAL NESTING

With SWOOD Nesting, it is possible to:

- Modify the position of automatically defined parts
- Add trajectory jumps (bridges)
- Modify the lead in/lead out point
- Modify panel numbering (labels)



05

REPORTING

SWOOD Report allows you to automatically create your workshop documents with Nesting sheet list, programs and labels in different formats such as .HTML, .EXCEL, .PDF and other related formats.

SWOOD CENTER

SWOOD Center is the perfect tool to automate your process from design to manufacturing. It allows to link your models created with SWOOD to a database to capture the necessary information and automatically create your projects.

TOP FEATURES

01

CONFIGURATOR

Drive your model at a top level by creating your dimensions, parameters, features and modifying them at any moment.



02

LINK WITH YOUR COMPANY DATABASE

Creation of a link between your company's tool such as ERP, online configurator, MES or any external database and your SWOOD models.

03

AUTO GENERATE SWOOD REPORT

Automatically create your report with cutlist, stock list, hardware list, costing information, labels, nesting layout, etc.

SWOOD
BW

SWOOD BW is a module developed to create programs for CNC machines used for timber construction to mill beams and panels for walls.

TOP FEATURES

01

PARAMETRIC DESIGN

Use SOLIDWORKS capabilities and features to create parametric design for your timber constructions project.

02

3D GEOMETRIC ANALYSIS

Thanks to its geometric analysis capabilities, it is possible to automatically detect the shape on your 3D models (Mortise, Tenon, Saw cut, Dovetail, Birds mouth etc.) and generate the corresponding CNC programs for your CNC machines.



03

MULTIPLE MACHINE LANGUAGE OUTPUT

SWOOD BW allows to create CNC programs for a range of machine manufacturer (Hundegger, Weimann, Uniteam, etc.) by creating files such as BTL, BVN or BVX files.

WHY CHOOSE SWOOD?

WHAT ARE THE ADVANTAGES?



SAVE TIME

One of the primary advantages of SWOOD is the time it saves. Both in the design and manufacturing modules, SWOOD saves considerable time thanks to various functionalities such as the creation and reuse of “models”, the automatic propagation of changes all the way to the manufacturing phase with the reconstruction of programs and manufacturing documents.



EASY COLLABORATION

All SWOOD products are accessible through a single interface - SOLIDWORKS. As a result, all users are using the same tool, allowing for efficient collaboration between design and manufacturing teams and easy sharing of information.



CAPITALIZATION OF KNOW-HOW

All SWOOD users can share their models, which makes it possible to reuse design rules, automate redundant tasks and make the most of the company's know-how.



RELIABILITY

SWOOD improves the reliability of the in-house methods, by automating many manual tasks, which considerably reduces errors, both in design and in manufacturing.

SWOOD is a ‘Gold certified’ product of SOLIDWORKS and thus provides a seamless integration. We have a team of woodworking experts who have 30 years of experience and are working on providing a scalable solution which is updated with each year. Boasting a reseller network in 50+ countries, SWOOD experts can help you around the clock to solve any of your questions.





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THEY TRUST US
FOR THEIR
WOODWORKING
PROJECTS

CUSTOMER TESTIMONIALS



Loïc Gaden
Managing Director

“Thanks to SWOOD the finish quality of our products has really improved. The SWOOD products are high quality they open space to imagine a lot of possibilities for our projects. The every year updates are also highly appreciated.”



KINZEL
WOOD PRODUCTS LLC

Jesse Kinzel
Partner

“SWOOD CAM is wood industry specific and runs inside of SOLIDWORKS. The company is great to work with. If you have an issue they're there to help and they're always improving the program.”



DIAM

Eduardo Rodríguez Gutiérrez
Manager shop fitting Engineering

“SWOOD is a tool that allows us to create lean information by creating a shorter bridge between the design process and the production process. This makes us more efficient in the total development of our projects.”

SWOOD

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