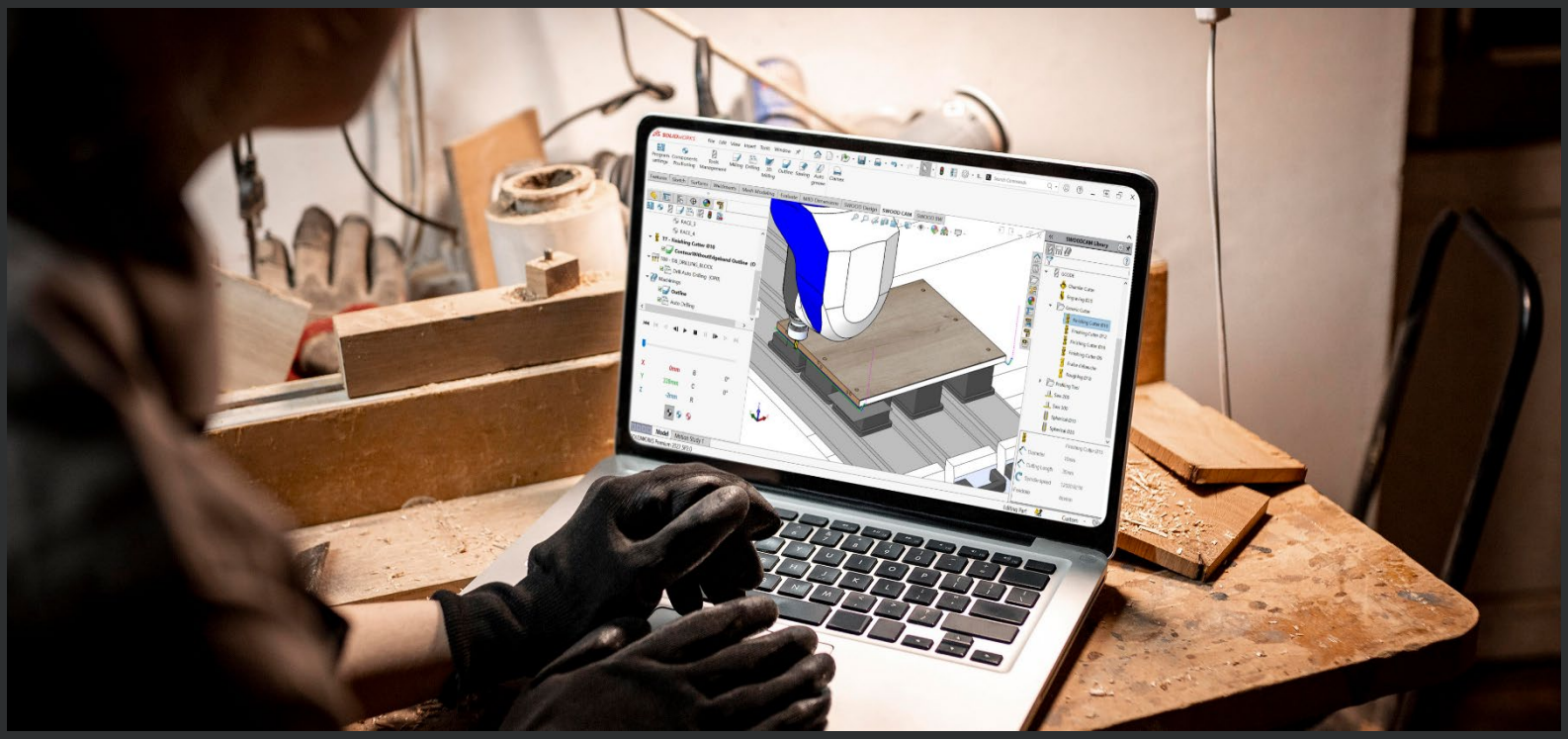
SWOOD by EFICAD

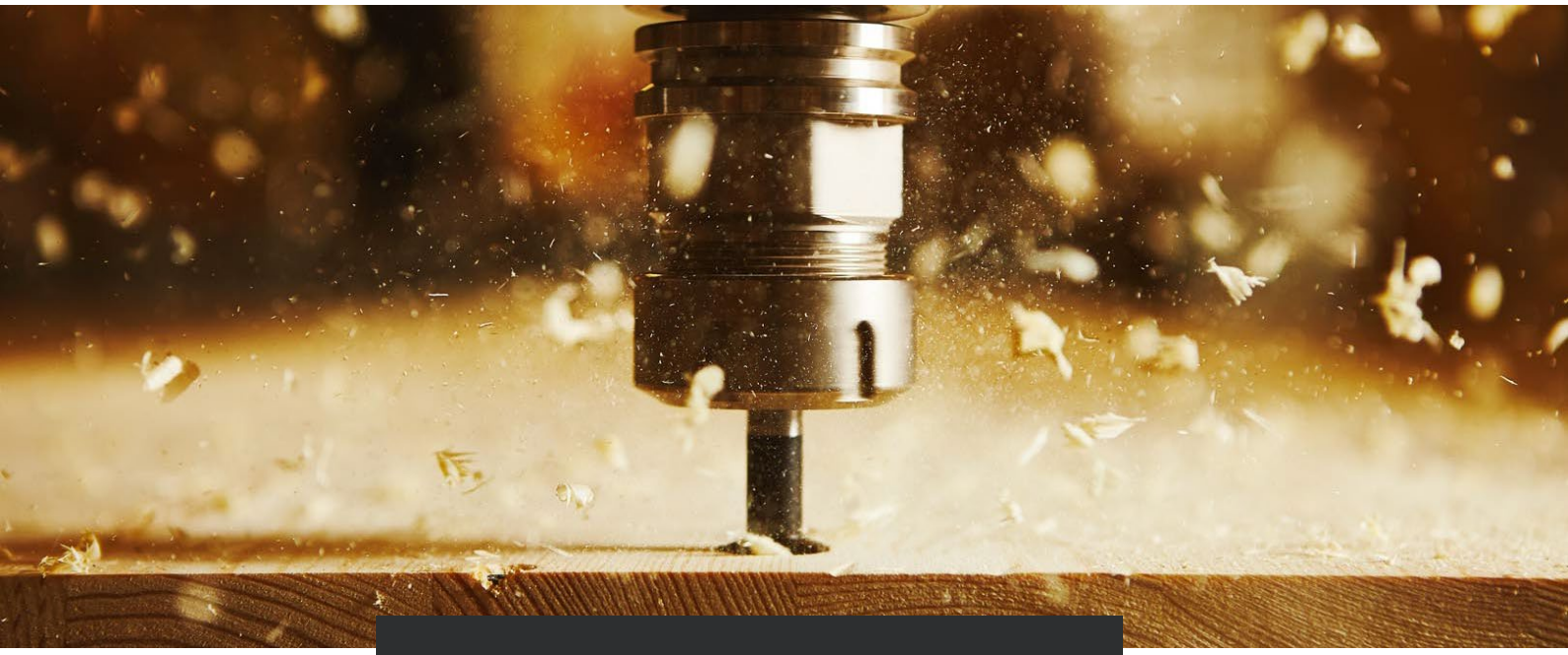
Manufacturing software

SWOOD CAM is a woodworking CAM software to easily link design information to CNC routers



SWOOD e-guide

Woodworking software
from design to manufacturing



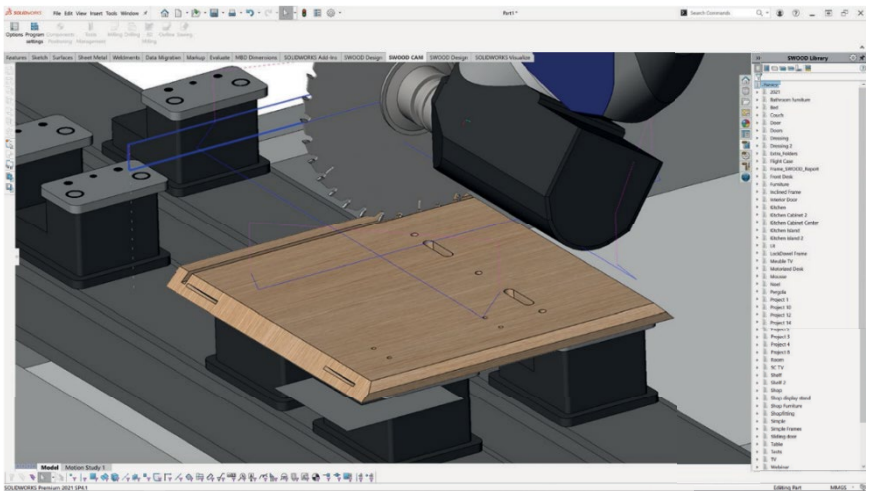
SWOOD CAM Presentation and features

SWOOD CAM is the perfect answer to the woodworking needs to help you handling daily tasks

• Easily create complex machining strategies

Our software offers the possibility of defining custom and complex machining strategies in a few clicks. Saves all this know-how in a library usable with simple drags and drops. It considers your material and especially modulates the feed rate based on grain direction on solid wood material.

The programs are automatically updated for each change of dimension or parameter on the design. It streamline the connection from 3D models to CNC routers.

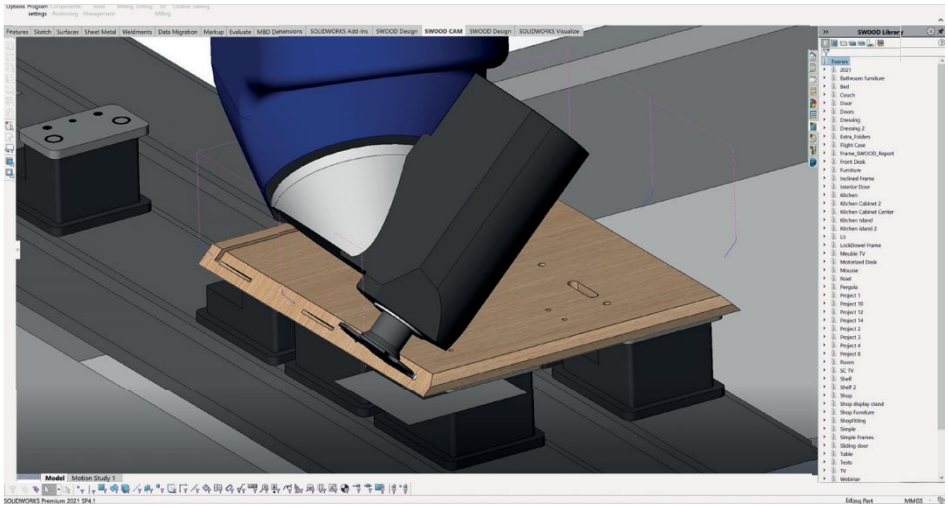


• Geometric analysis

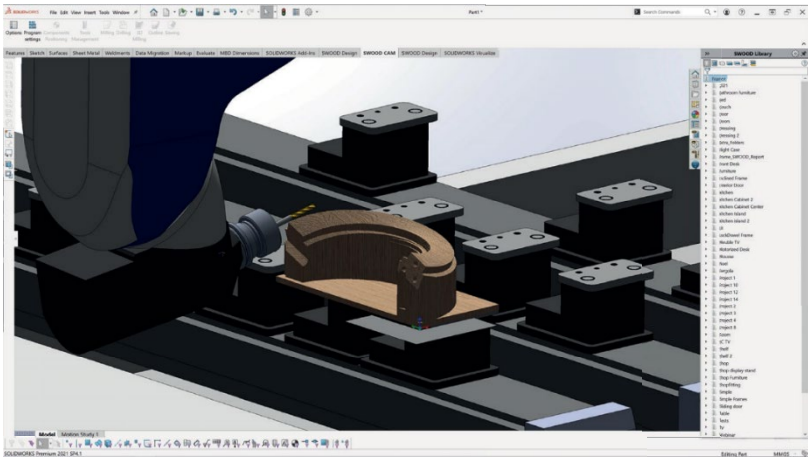
Thanks to its geometric analysis, SWOOD CAM automatically detects many machining used in this industry such as contouring, pocketing, drilling, grooving, sawing and specific hardware milling (such as Lamello biscuits or Clamex). A huge part of common machining operations can therefore be easily programmed.

As SWOOD CAM's core is based on the 3D model analysis, you will be able to deal with several files format such as all the exchange file formats (.step, .iges, .sat, .x_t, etc.). The other advantage of this smart analysis is that it drastically decreases production errors.

Even last-minute design changes are considered and are updated in the program generation, for instance if a new pocket is added to the panel, it will be automatically taken into account.



• Creating programs up to 5 axis



The software is natively compatible with up to five axis machines, allowing the creation of programs for all CNC machine tools with different languages (.hop, .cix, .bpp, .iso, .pgmx, .mpr, etc.).

On complex 5 axis parts, which need to be double-checked, we have developed a simulation feature with material removal and collisions detection.

• Management of specific tools

Moreover, our CAM solution also deals with specific woodworking tools such as drilling blocks, horizontal spindles, edge banding aggregate, profiling tool for joinery purpose, etc.



Horizontal spindle



Drilling block



Clamping system



Beam and pod vacuum

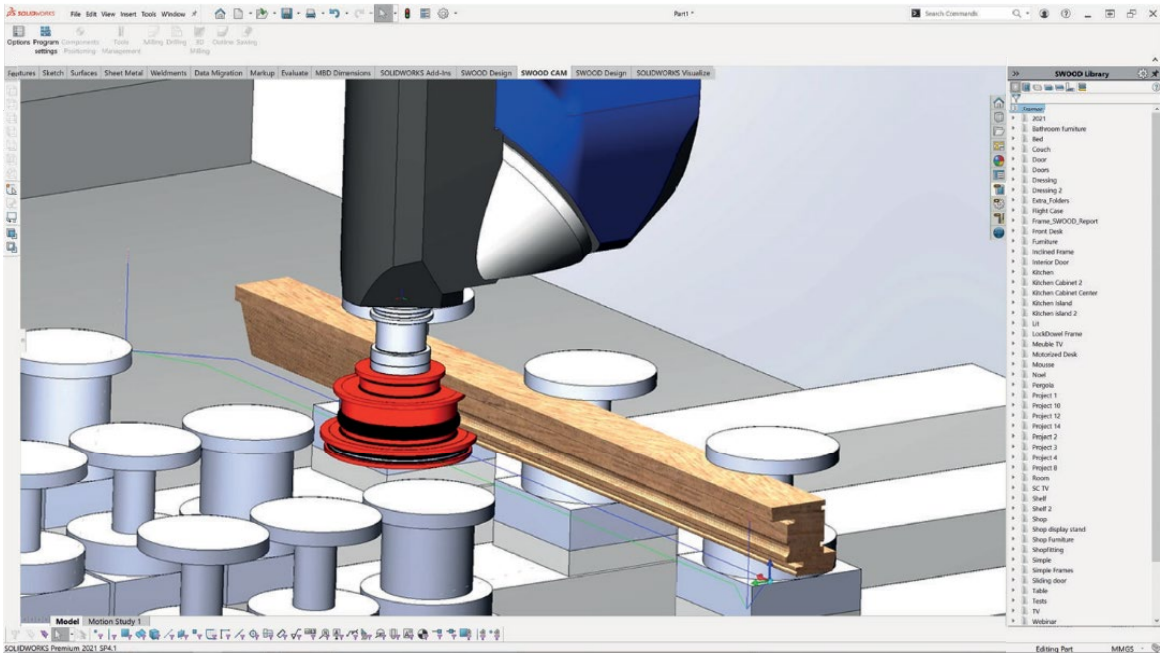
It is also possible to manage motorized tables, whether with a suction cup or presser (clamp or pods), and laser projection systems.

• Piloting of numerous CNC machines

With our 30+ years of experience in the wood industry, we have always kept our CAD/CAM solutions up to date with all the latest machine technologies (Homag, Biesse, SCM, Felder, Holzher, etc.).

Thanks to that, we can generate programs for all numerical control machine brands in the woodworking industry up to five axes (WoodWOP, bSolid, BiesseWorks, Maestro, Xilog, TPA,NC-Hops, GCODE, OSAI etc.).

SWOOD CAM allows you to preview the full program within the simulation with the material removal feature. This simulation includes the whole machine environment that can detect all collisions between the head, the table, the tool and the part.



• Program export

Export your toolpaths/trajectories to CNC routers with post-processors directly from SWOOD. Exports are available for HOMAG (WoodWOP), BIESSE (BiesseWorks, bSolid, ISO), SCM (XILOG, MAESTRO, ISO), Felder (TPA, F4Integrate), HOLZHER (NC HOPS), and many more.



SWOOD CAM advantages

Finally, SWOOD CAM allows to optimize and automate the entire manufacturing process by facilitating modifications and improving the speed of execution.

Using SWOOD CAM coupled with SWOOD Design (our design software) increases your efficiency in the full workflow. Indeed, with panels from the SWOOD Design library and integrating intelligent operations, you can automatically create programs from the design step. This link between the two modules ensures complete reliability, from design to manufacturing, and meets the need for efficiency in today's economic climate.

More reliability

Any changes made in the design are automatically relayed to the manufacturing : path, program, production data, etc. are updated. This avoids many errors due to last-minute changes and maintains consistency between the different parts of the assemblies.

Automatic machining

SWOOD CAM is a specific tool for the woodworking industry. It automatically detects the most common wood machining operations : drilling, grooving, pocket machining, sawing, contouring, Lamello biscuits or Clamex type machining, etc.

Time saving

All these automations allow you to create machining programs for CNC machines much faster and to update them in case of modifications on parts and assemblies.



THANK YOU

for reading this guide!

SWOOD is an all-in-one CAD/CAM solution
from design to manufacturing that speeds up
all your woodworking projects within SOLIDWORKS

SWOOD DESIGN
SWOOD CAM
SWOOD NESTING
SWOOD CENTER
SWOOD BW

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