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Software solutions for programming  
plasma cutting machines

# SwiftCAM

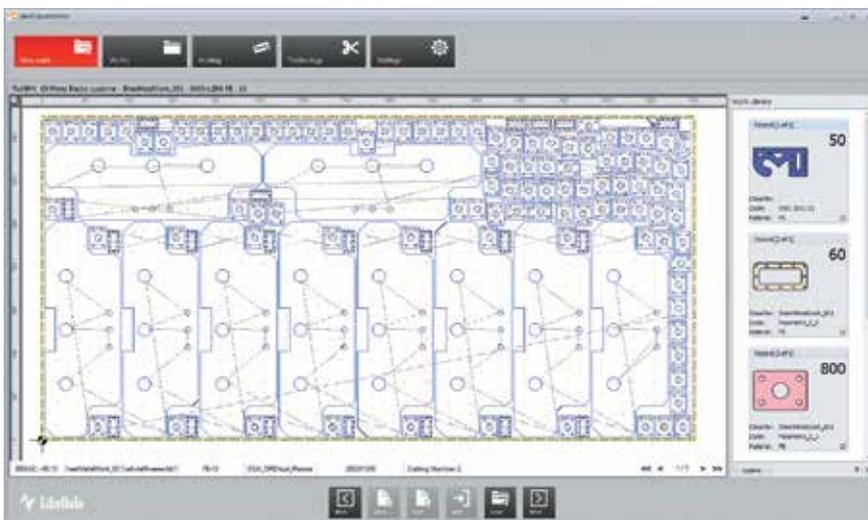
Software solutions for programming plasma cutting machines

SwiftCAM is a CAD/CAM application dedicated to the programming of any type of sheet metal cutting machines. The software is available in three versions, depending on the machine configuration.

It allows to directly import DXF/DWG and offers a wide library of parametric patterns to rapidly draw parts for configuration.

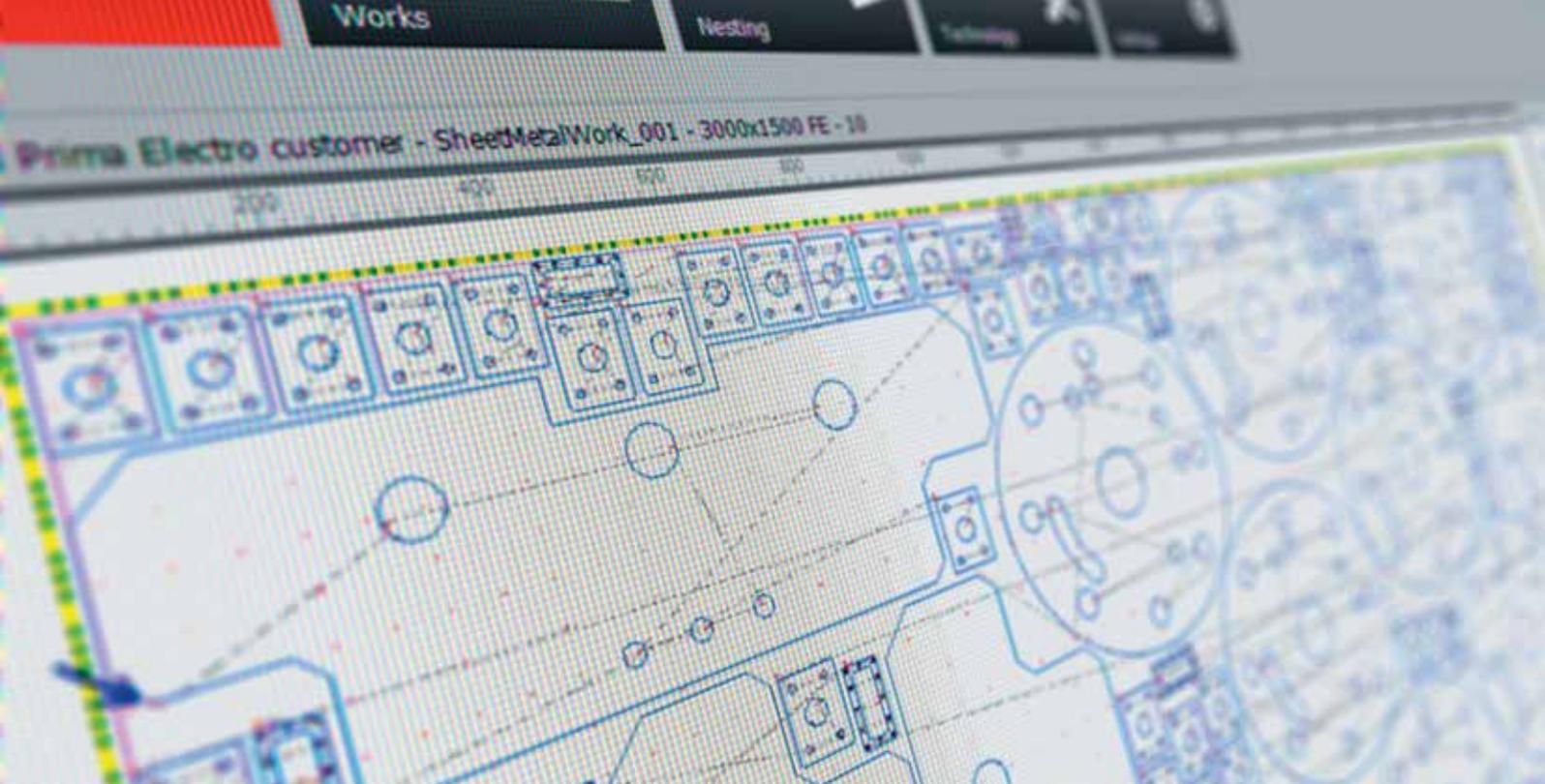
The guided procedure ensures an easy and fast loading procedure.

The production cycle can be displayed before machine start by means of a realistic 3D simulation, in order to verify its compliance with the real cutting process.



## Multi-touch interface

Libellula.WIZARD has an intuitive and ergonomic interface, specifically tailored for touch-screen input



#### **Touch screen**

SwiftCAM has a very modern user interface ready to be used on touch and multi-touch screens.

#### **User friendly**

SwiftCAM is an extremely easy-to-learn product and has been developed by our Engineers to target a **Zero Training** requirement.

#### **OneClick**

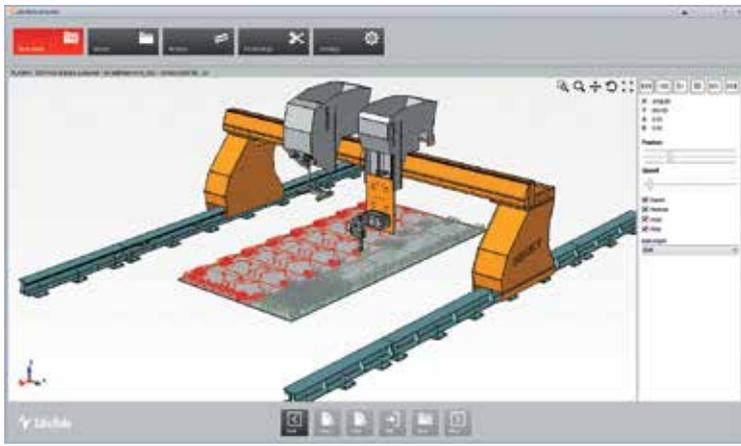
SwiftCAM guides the user to production through a simple path and minimizes the time dedicated to programme preparation. By passing to the next page, user quickly gets to machine programming.

#### **Realistic simulation**

In the complete version, SwiftCAM allows you to verify the recently created production cycle in a realistic environment to test its functionality.

#### **Parametric shapes**

A wide number of parametric shapes commonly used in the sheet metal production is made available in parametric mode in order to speed up drawing for the parts to be manufactured.



# SwiftCAM 1

## CAD/CAM software - single icon handling

This is the entry-level configuration of SwiftCAM.

This environment allows you to import DXF/DWG files, to place them one by one on a single plate and to duplicate them according to a matrix pattern, in order to reduce scrap.

As far as the cutting path is concerned, the type and application of lead-in shall be defined on each single part. All

identical parts will be automatically handled accordingly.

Before creating the post-processor, the user shall input the FEED parameters or any other instructions to be applied during cutting.

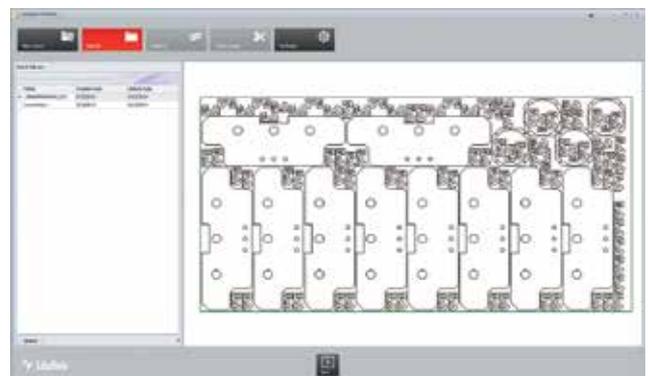
# SwiftCAM 2

## CAD/CAM software - multiple icon handling

This versions includes all functions described for version 1, but additionally it allows you to create a list of parts to be cut and matched with respective quantities.

An automatic nesting will position the parts on a plate of the selected format in order to reduce scrap.

For any single different part, the position of the lead-in shall be indicated by the user.



# SwiftCAM 3

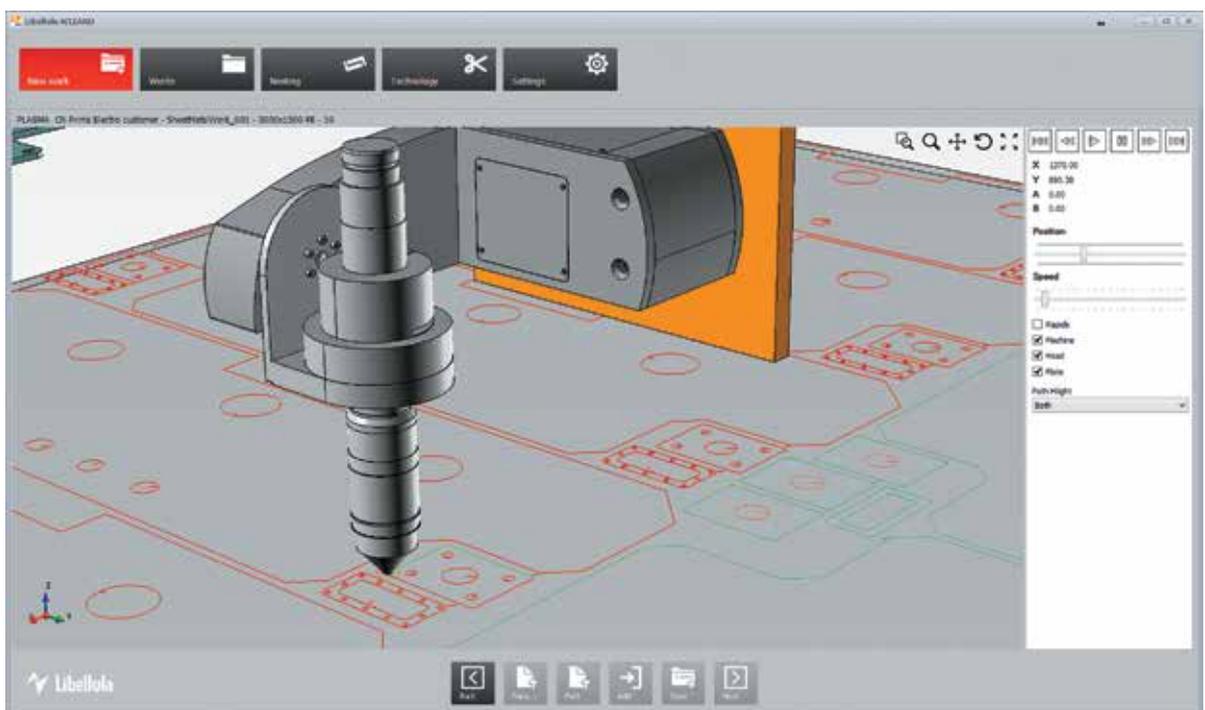
## CAD/CAM software - multiple icon handling with automatic cutting path

This is the complete configuration of SwiftCAM, offering automatic nesting and automatic calculation of the cutting path.

The system automatically selects and applies the best type and position of lead-ins for any of the parts available on the plate.

Furthermore, all optimal parameters to handle the cutting technology will be automatically compiled thanks to specific parameters tables.

This configuration allows any operator to get to a correct programming of the machines in your workshops without any investment efforts that might be required to learn a new system.





# Configurations

Three versions - to meet any possible requirement

	SwiftCAM 1	SwiftCAM 2	SwiftCAM 3
DXF/DWG import	yes	yes	yes
2D icon parametric library	yes	yes	yes
Sheet properties description	yes	yes	yes
Icon handling	single	multiple	multiple
Nesting type	matrix	automatic	automatic
Cutting technology calculation	manual	manual	manual/automatic
Technological tables	-	-	yes
Cutting path visualization	yes	yes	yes
Cutting path check	-	-	yes
Path error correction	manual	manual	automatic
Post-processor	yes	yes	yes
2D cycle simulator	yes	yes	-
Realistic 2D cycle simulator	-	-	yes
Cutting time calculation	-	-	yes
Interface customization	yes	yes	yes
Mod.HVAC optional module	-	yes	yes
Mod.BEVEL optional module	-	-	yes
Mod.STORAGE optional module	-	yes	yes
Mod.VISIO optional module	-	yes	yes

# Additional modules

## mod.HVAC

mod.HVAC is huge a library of parametric shapes for ventilation and conditioning.

It includes three groups of shapes: round and conical, square-type (rectangular, rectangular with radius, hopper-type) and oval ones. Furthermore, several other 2D shapes provide the user with the most used shapes among duct manufacturers (rings and flanges).

Once a shape is selected, dimensional and technologic parameters will be shown, allowing to unfold the part, to choose the unfolding point, to set the notch lines generation points



## mod.STORAGE

mod.STORAGE is fully integrated to the Libellula environment focusing on plate and scrap stocks. mod.STORAGE allows to get a detailed and up-to-date situation about the availability of the sheet stock and know its value in economic terms.

Through material traceability and the value estimate delivered by the manufacturing control software, the operator is constantly informed about the status of warehouse and can execute nesting jobs properly on plates of any shape.





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