POWERSFUL, RELIABLE, EASY TO USE.

PEGASUS CAD-CAM is the CAD/CAM software developed by Tecno Program for the wood manufacturing industry.

From the 3-axis machines up to the more complex 5 continuous axes machining centers, PEGASUS CAD-CAM is the best solution for any need.

The software is very user friendly and it does not require any advanced computer skill; also, it is provided with an online help which supports the user during the training and the use of the software.

PEGASUS CAD-CAM is organized in modules with specific operating sections – CAD 2D and 3D, CAM, Simulation and Post-Processing (creation of the CNC machine program) – so that the user is guided through each step of the process.

**PEGASUS CAD-CAM**

**ESSENTIAL**
Entry-level version with 2D machinings that suits 3-axis machine tools.

**STANDARD**
Basic version for panel 2D and 3D machinings, suitable for machine tools with vertical tool holders and horizontal spindles.

**ADVANCED**
This edition can be used for 2.5D and 3D machinings, perfect for machines with 3/4/5 axes with indexed orientation.

**ULTIMATE**
This is the top edition, the essential version for those who use 5-axis continuous machines.

Rotary versions (that handle rotary axis) are also available:
- **ESSENTIAL ROTARY** (for 2D machinings)
- **STANDARD ROTARY** (for 2.5D machinings)
- **ADVANCED ROTARY** (for 2.5D and 3D machinings)
- **ULTIMATE ROTARY** (for 5-axis continuous machines).
**DESIGN**

Pegasus CAD-CAM includes 2D and 3D CAD modules for the drawing, editing and transformation of 2D and 3D geometric entities.

### 2D CAD

- Drawing and editing of 2D geometries placed on 3D work planes
- Geometries Construction mode
- Text outline generation along lines and curves, using Windows TrueType font mapping
- 2D geometric macros for the simplified drawing of mouldings, locks, hinges, windows, holes
- Manual and automatic true-shape nesting
- Dimensions
- Printing functions supporting PDF, printer and plotters

### 3D CAD

- Drawing and editing of 3D primitives, NURBS based solid models and surfaces, triangular meshes
- Projection and wrapping of 2D geometries on surfaces
- Simplified creation for caps and frames

### EXTERNAL CAD IMPORTS

It’s possible to import the following formats: DXF, DWG, IGES, 3DS, STEP, STL, OBJ, Rhino3D.

### NESTING

With Pegasus CAD-CAM’s automatic nesting functions it is easy to nest a set of shapes maximizing the use of the material.

The shapes to be nested are defined in a cut list where the user can set priorities, quantity, rotation etc.

The areas within the shapes can be used to place other smaller shapes.

The cut is performed with a specific strategy that optimizes the execution order by reducing the total machining time.
TOOLS TABLES
The software is provided with a specific environment to manage the tools archives. The user, depending on his equipment, can archive his tools in one or more tool tables that can be arranged and customized depending on his needs.

Supported tools:
- mill cutters: cylindrical, spherical or thoroidal cutters, tapers and engraving cutters, cut drills, lollipop, chain mortising;
- custom shaped tool defined by the user through a CAD drawing or an imported file;
- cutting blades.

Additional accessories that can be combined with the tools: tools-holders and gearbox.

MULTIDRILL HEAD
With the multidrill machining developed for the use of drilling units with multiple drills, the drilling sequence is optimized so that the greatest number of adjacent holes is machined at each descent, depending on the configuration of the set drilling group.

BLADE MACHININGS
Blade management for 2D machinings:
- planar disk roughing
- linear cut and notch
- grooving

2.5D MACHININGS
A complete set of 2.5D milling machining strategies.
- Contouring: cutting, vertical walls, shaped walls
- Grooving: vertical walls, shaped walls, sloping e chain mortising
- 3D engraving of artistic details and texts with automatic rest machinings
- Face milling
- Hole/circle machinings
- Drill tap and oriented drilling
- Cut and pre-drill corners
**3+2 3D (FIXED FRAMES) AND 4/5 INTERPOLATED AXES MACHININGS**

Module dedicated to the 3D surfaces machinings with roughing and finishing strategies.

- Roughing strategies: Z levels, parallel cuts, multiaxis roughing
- Advanced functionalities for the automatic recalculation of rest material
- Finishing strategies: parallel cuts, Z levels, Z helicoidal, between 2 curves, flat-lands, pencil
- Projected curve finishing: curves offset, radial and spiral finishing, along guide curves
- SWARF machinings up to 5 axis
- 3D curve machinings up to 5 axis
- Sculptured surfaces strategies: basreliefs and complex mesh models
- Conversion of 3D machinings into 4/5-axis machinings

**SIMULATION**

Pegasus CAD-CAM is bundled with an integrated graphic simulation environment for the immediate verification of the machining result on the material (material simulation), and a virtual simulation environment based on the real model of the machine (machine simulation).

**MATERIAL SIMULATION**

Verification of all kind of machinings, from 2.5D up to 5 axes, with collision checking on both the stock material and the finished model.

Two possible simulation modes are available:

- toolpath (showing only the tool trace)
- material removal

**MACHINE SIMULATION**

This is an optional module that provides the virtual representation of the entire machine, showing the movement of all axes, both linear and rotary.

This module is useful to avoid problems on the machine during the CNC program execution; it checks the limits of the axes and detects potential collisions with the moving parts or the fixtures.

**POST PROCESSOR**

This is an integrated module to convert the applied toolpaths into the language of the specific CNC. Usually there are one or more custom post-processors available for the machines present in a workshop.
The ultimate software choice for your CNC machine.