



DDX CAD-CAM-CIM-CMM Solutions

s.r.l. socio unico

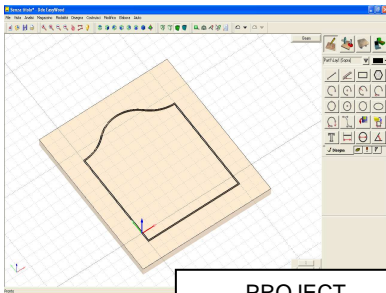
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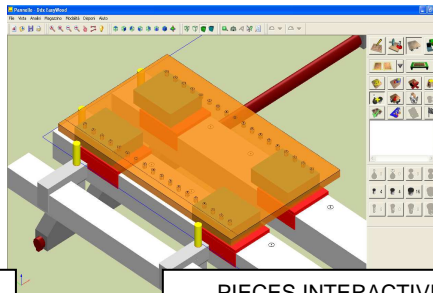


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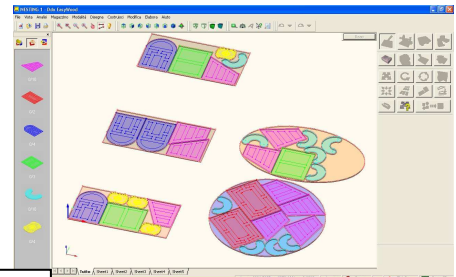
EasyWOOD 4.5 Info Sheet



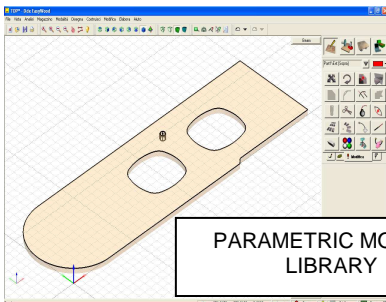
PROJECT



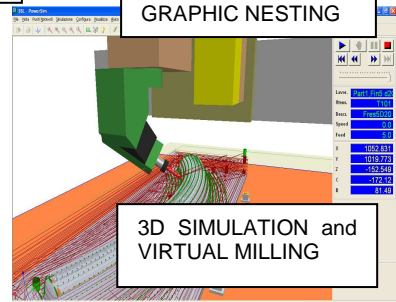
PIECES INTERACTIVE
ARRANGEMENT



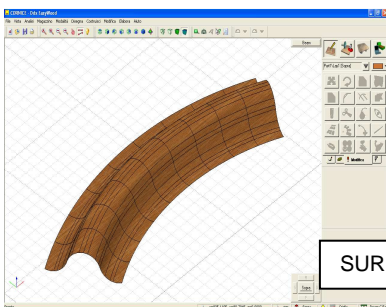
INTERACTIVE and
AUTOMATIC
GRAPHIC NESTING



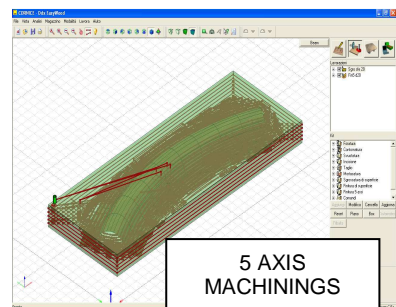
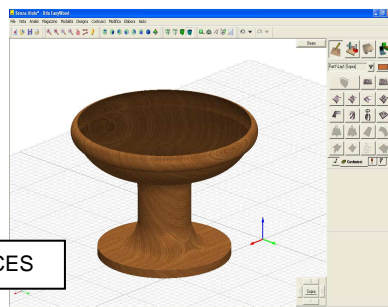
PARAMETRIC MODELS
LIBRARY



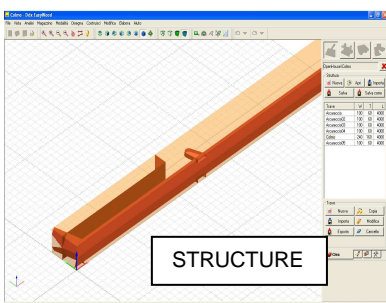
3D SIMULATION and
VIRTUAL MILLING



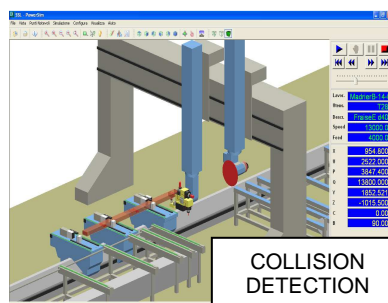
SURFACES



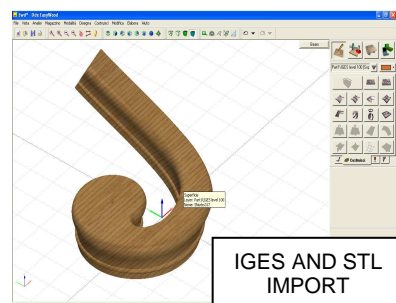
5 AXIS
MACHININGS



STRUCTURE



COLLISION
DETECTION



IGES AND STL
IMPORT





EASYWOOD is the ideal CAD/CAM for wood and similar materials working industry by numerically controlled machining centres.

EASYWOOD is available in four different levels:

1. *BASIC*;
2. *ADANCED*;
3. *PREMIUM*;
4. *LATHE*.

The **BASIC** level has the following functions:

- o free design of geometrical entities (arcs, bi-arcs, lines, rectangles, squares, ellipses, circles, regular polygons, fillets, chamfers, construction plans, nurbs etc);
- o design from predefined parametric models (libraries): vanity tops, kitchen tops, openings, tables, etc...;
- o dimensioning;
- o sensing from drawings or patterns by means of measurement (drafting machines, graphic tablets, measuring arms);
- o on line manual with index of research;
- o 3D view and photo-realistic rendering of the project;
- o zoom and pan functions;
- o rotation of the point of view;
- o every single project path can have its own color;
- o mathematical functions of measure by remarkable points and analysis of the single entities;
- o import and export from and for other CAD/CAM systems by the current standard formats (DXF, ISO, etc.);
- o writings in various fonts even on profiled surfaces (italics, recesses, reliefs, and sharp edged engravings included);
- o modification and elaboration of designs (cut, extend, split, join, interpolate, copy, move, mirror, rotate, delete, etc...);
- o undo and redo multi-level;
- o pieces graphic interactive arrangement on the machine table (one or more even different each other);
- o possibility to set the origin of the raw-part;
- o graphic interactive arrangement, on the machine table, of sub-pieces (modules, vacuum-pods, vices, references, etc...);
- o automatic check of the interferences between the machinings and the sub-pieces;
- o definition, modification and saving of the machining kits (tools sequences);
- o control of three interpolated axis with the possibility to add three axis more;
- o drilling unit control with optimisation of drilling phases.



- o automatic generation of cutting, drilling, finishing, profiling, emptying cycles;
- o automatic generation of lead in and lead out paths, interactive modification is available;
- o customized profiles mills management;
- o graphic 2D and 3D simulation of the machining process, idling included; the simulation is realistic because it shows the 3D model of the machining centre, of the table, tools, motors, sub-pieces and of the workpiece;
- o machining time, length and cost estimation;
- o automatic generation of ISO programs for CNC;
- o it is possible to use EasyWOOD on local net with a common database of parameters. This guarantees that the tools, the kits and the machine configurations are the same on every PC.
- o the NC programs can be transferred to the machine by floppy disk, serial line, ethernet.

The **ADVANCED** level adds to the BASIC level the following functions:

- o basic 3D surfaces project and machining based on sections and/or lines of reference drawn on the XY plan (frames, posts with variable twist and section, etc.);
- o automatic generation of roughing and surface finishing cycle;
- o lathe machining control (interpolated and continuous)
- o probing
- o laser projection

The **PREMIUM** level adds to the ADVANCED level the following functions:

- o advanced surfaces project and machining;
- o surface drawing from curve grid;
- o surface definition by laser scanning (point file);
- o projection and development of curves on surfaces;
- o STL and IGES import;
- o five axis machinings (with blade, mill etc.);
- o control of five interpolated axis with the possibility to add one axis more.

The **LATHE** level is specific for lathe machining.

There are also more options available as automatic CAM processing, collisions detection, virtual milling, interactive and automatic nesting.



The **BEAM** option (for ADVANCED and PREMIUM levels only) adds the following functions:

- o control of beams production on NC machining centres;
- o automatic import of beams geometry and features made by other software for wooden structure project (BTL 10.0 or superior files import)
- o specific machinings for beams (tenon and mortise machining, drillings, cut into cubes, long drillings, block house, etc...).
- o project of single wooden beams.

WHY?

- *BECAUSE IT IS VERY EASY AND USER-FRIENDLY*
- *BECAUSE IT IS USED EVEN BY PEOPLE WITHOUT PARTICULAR KNOWLEDGE IN INFORMATICS*
- *BECAUSE IT REDUCES THE TRAINING TIME AND COSTS SINCE IT NEEDS A SHORT LEARNING TIME*
- *BECAUSE IT SIMPLIFIES THE USE OF CNC MACHINING CENTRES*
- *BECAUSE IT STEPS UP PRODUCTIVENESS*
- *BECAUSE IT INCREASES COMPETITIVENESS*
- *BECAUSE IT INCREASES PRODUCT DIFFERENTIATION*
- *BECAUSE IT GUARANTEES QUALITY AND PRECISION OF THE FINISHED PRODUCT*
- *BECAUSE IT REDUCES THE POSSIBILITY TO MAKE MISTAKES*
- *BECAUSE THE ASSISTANCE SERVICE IS PROMPT AND QUALIFIED*
- *BECAUSE IT GOT THROUGH THE TEST OF THE MOST IMPORTANT CNC MACHINING CENTRES MANUFACTURERS*