WOODTECH

PYTHA
The 3D - CAD SYSTEM
PLANNING - PRESENTATION - PRODUCTION

OVERVIEW OF MODULES

WOODTECH WOODWORKING MACHINES

Giving New Dimensions to Wood

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AUTOMATIC BEAM SAW

Animation

Video files in full HD quality can be saved within minutes. Of course, they can also be equipped with surround sound right away.

Real Time Presentation

Create presentation files that play automatically and can be viewed on any computer- no matter where.

Photo-realistic Images

PYTHA saves high-resolution, full color images that are ready for print, or just for being attached to an email, in less than 10 seconds.

Visualization

→ Real-time

← Real-time

2 minutes*

Estimation software

The PYTHA parts list offers an extremely flexible interface to almost any management and estimation software.

Parts list

Cutting list

Power User: Private client / Living room cabinet   Job number: 122-201 06/30/2011

Count	Name	Length	Width	Length	Width	Height	L	L	S	S	Material	Veneer	Unit price	Total price
1	Door LH	584	523	594	533	19	AH, S	AH, S	AH, S	AH, S	Chipboard	Indian Apple Tree	€ 23,00 /m²	€ 7,28
3	Stretcher	562	157	562	160	19	ABS,3				Chipboard		€ 12,00 /m²	€ 3,24
2	End	710	547	710	550	19	ABS,3				Chipboard		€ 12,00 /m²	€ 9,37
1	Drawer front	584	158	594	168	19	AH, S	AH, S	AH, S	AH, S	Chipboard	Indian Apple Tree	€ 23,00 /m²	€ 2,30
1	Back	716	581	716	581	8					Chipboard			
1	adj. Shelf	561	507	561	510	19	ABS,3				Chipboard		€ 8,00 /m²	€ 2,30
1	Bottom	562	522	562	530	19					Chipboard			

2 seconds*

Printing and Plotting

All information in your PYTHA CAD project can be printed out on printers and plotters in all sizes, or be exported in the file formats PDF, EMF or DWG.
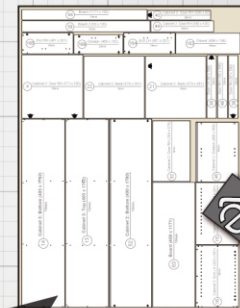
technical Drawings

Section C-C

5 minutes*
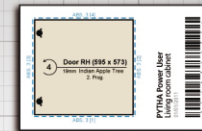
Label plot

Automatically generated labels and component drawings, with an integrated bar code if needed.

CNC-Programs

| Door RH (595 x 573) | Door RH (595 x 573) |
| 19mm Indian Apple Tree | 19mm Indian Apple Tree |

2 minute*

CNC machines

Connectivity to CNC machines of all major manufacturers.

Nesting

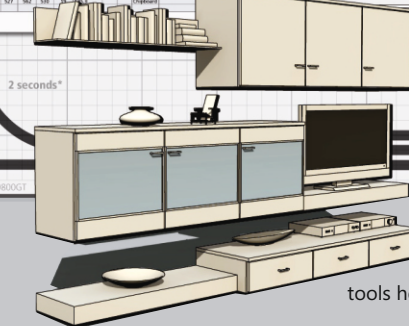Cutting optimization including bore hole patterns and and CNC programs at the push of a button.

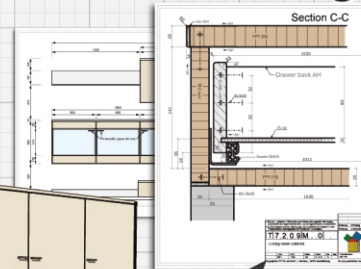PYTHA can also be used to optimize the positions of free-form parts on supply of any shape.

20 seconds*

* Intel Core 2 Quad Q9450 @2.66GHz | 4GB RAM | GeForce 9800GT

With PYTHA, you choose a high-performance visualization software, with which you can not only generate photo- realistic images in incredibly short times, but also interactively walk trough them. This means that, together with your customer, you can examine your design from all angles, test the combination of different materials, and open doors by the click of a mouse. Your presentation turns into a perfect show!

PRESENTATION

After just a short learning phase, you will plan your projects faster than ever- and in three dimensions! The easy user interface and the comprehensive tools help you to bring any of your designs to life.
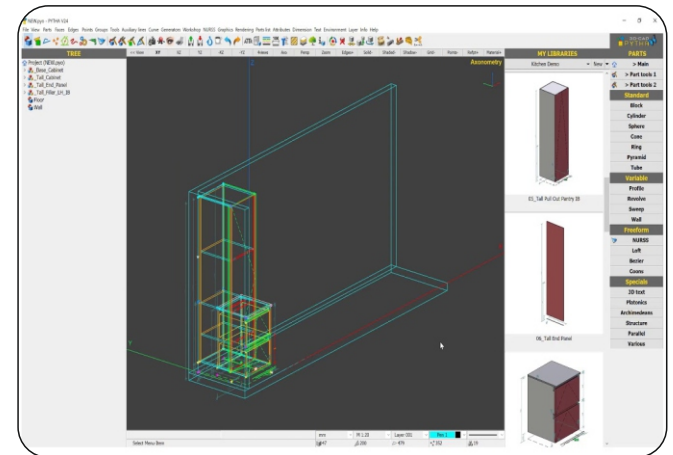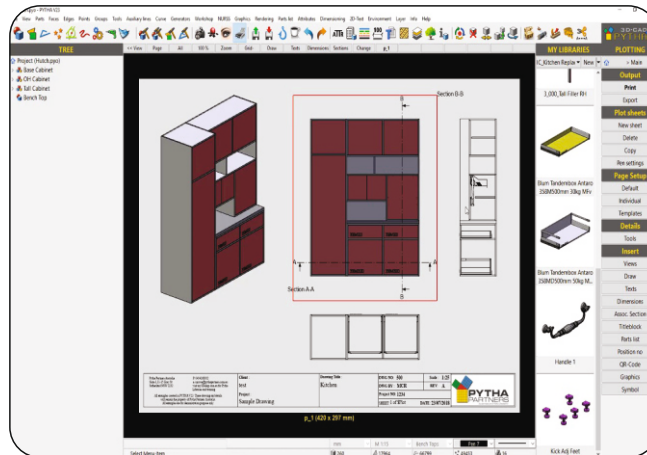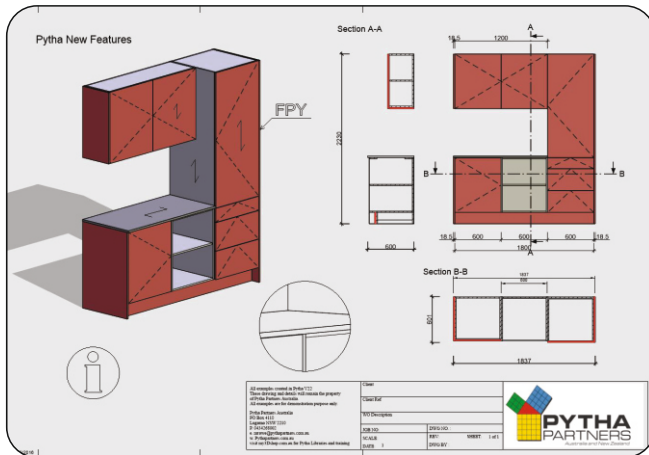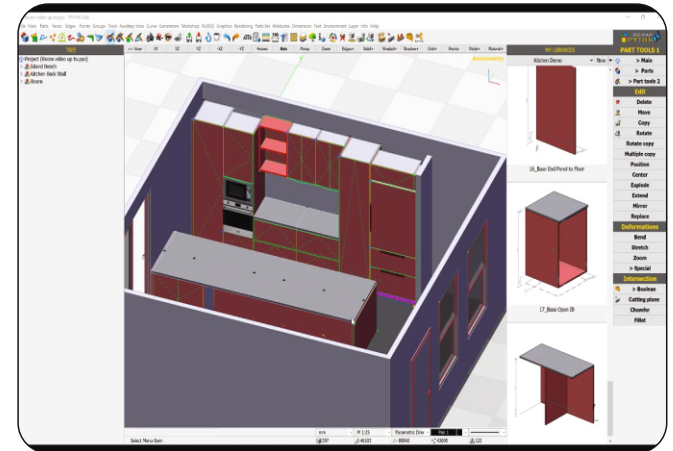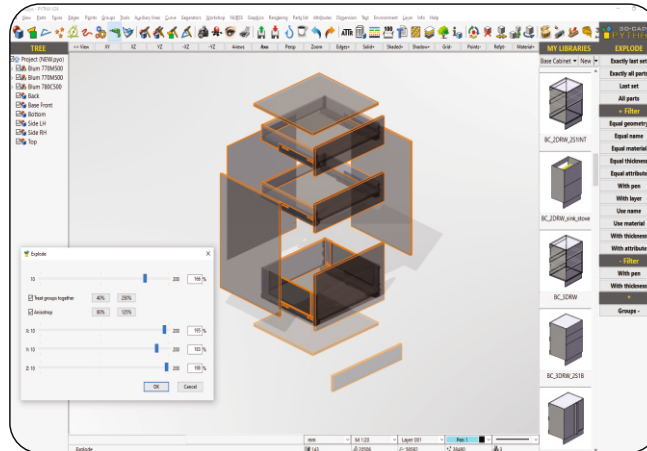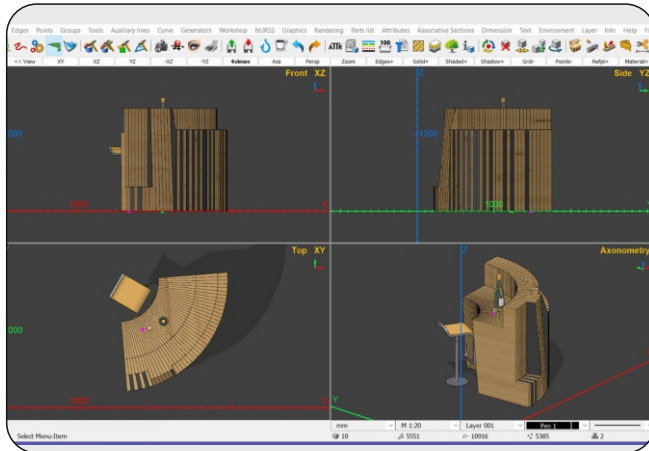
PLANNING

No matter whether you have to transfer data to a CNC machine only occasionally or this is an essential part of your everyday work, PYTHA will create CNC programs for you and make your work easier than ever.

PRODUCTION

OVERVIEW OF MODULES

Modler

All you need for the professional entry Into the world of 3D CAD, to become productive Immediately, to make your visions real.

- Intuitive modeling in 2D and 3D
- Structured organization of your projects using names, layers, groups etc.
- Clearly laid out technical drawings with labels, dimensioning, hatching, symbols, associative sections and QR codes
- Impressive visualization with integrated high-performa nee raytracer
- Create and use libraries

And use the most Important file formats:

DWG, DXF, 20-DXF, 305, SKP and STL for 3Dprinter

Versatile special tools and Innovative modelling functions for sophisticated 3D designs.

- Curve, outline recognition, 3D text,
- Special tools for deformations,
- Comfortable auxiliary lines,
- Automatic 20 revolve
- Dynamic actions of parts (e.g. open doors or drawers)

SMART PARAMETRICS:
- Smart extend,
- Change number
- Edit complex radii

Parts List

Flexible evaluation of your projects in lists and tables:

- User defined attributes
- Cut size, Finished size, extra length
- Edge banding, Core material, Face coating
- Position numbers
- CNC program name

Easy calculation using price per piece, per length or per area.

Export to printer or csv file.

Full flexibility of export formats to

spreadsheet software, ERP, CRM, Excel, Word, XML, HTML, user defined layout, File import

Workshop

Prepare your 3D model for machining Connectors as e.g.

- Cam&Dowel, hinges or dowels can be assigned automatically, according to your rules
- Print labels with barcode or QR code
- Customized to individual principles of design
- Miter, grooves and shapes that require 5 axes machining can be exported.

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Parametrics

- Parametrize your parts and create your own variable library.
- Variable dimensions
- Placeholder for variant designs
- Replace function

Generators

- Use the cabinet generator to create any type of cabinet with subdivisions, various fronts, bases, back and with roof slope.

Additional generators for: doors, drawers,

shelves and bottle shelves.

Library

- Over 25000 library elements to be used in:
- Architecture, wood working,
- Exhibition design, shop fitting,
- Lighting design, decorative accessories and plants

Free form faces

Special tools to create objects with curved surfaces.

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CAM interface

- The Ideal completion of the PYTH A workshop:
- WoodWop.mpr, WoodWop.dxf,
- Alphacam,
- BiesseWorks .cix, bSolid / b.works .dxf,
- NC Hops, En Route, Cobus Ncad,
- Format-4, lmawop, SCM Maestro,
- G-Code

others on request

Nesting

- Efficient and fast optimization of parts on a supply part, even for any shape of outline: Rectangular, saw and free form optimization.

Allows for different materials and panel thickness.

RadioLab

Real time rendering with Radiosity technique, for stunning presentations:

- Interactivly move through the scene
- Simulation of lightning situation
- Indirect light, daylight, LED, ...
- Turn on/off lights in real time
- Easily create, assign and edit textures, materials and surfaces
- Quick modifications within a scene
- Professional lighting planning
- Manual hatching + numerous filters
- App for iOS and Android

PYTHA Viewer

Free download at www.pytha.com

KDT Optimizer

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OVERVIEW OF MODULES

Pyogram (With Service Contract)
Your Pytha Support Partner

- Login to get free libraries, training & Support
- Panorama 360 views with your company logo

Scan Here

High -End Rendering

- Upgrade your real time presentation by HDR functions, for a photorealistic image of your scene.
- Image based lighting (IBL} for image compositions and quick illumination
- VR support, Oculus Rift

CAD Bid

Bid on your Job online now
- Data centralized at one location on cloud.
- Admin can give specific rights to each employee, dealer or franchisee.
- Dashboard for each individual user for
- data analysis, order won ratios, top 10 customers etc.
- Change materials or hardware right in front of customer.
- Get your process and manufacturing cost with a click
- Desktop, Mobile & iPad friendly

Animation

- Save an animation fully automatic as video file.
- Combined real time actions
- Animated daylight simulation

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