



# EasySTONE

Stone working is Easy



# EasySTONE

The CAD/CAM software for stone working

The CAD/CAM for marble, granite, stone and similar materials CNC processing.



**Top**



**Molding**



**Lathe**



**5 Axes and  
Sculpture**



**Tombstone**



**Funeral Art**



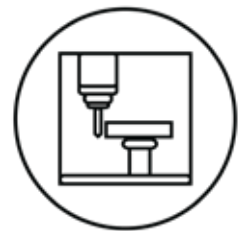
**WaterJet**



**Photo and  
Nesting**



**HMI**



**Simulation and  
Collision Detection**

# Software levels

## EasySTONE Light

The essential

## EasySTONE Basic

3D Project and machining for up to 5 axis CNC

## EasySTONE Advanced

Lathe, probing and all the functions of the Basic level

## EasySTONE Premium

Top level

# Additional modules

## Automatic CAM processing

It allows to enter machining automatically

## 3D Simulation and Collision Detection

Perfect 3D model representation of your machine

## DDXPhoto

Slab picture import in 1:1 scale via digital camera

## Template detection

Template import in 1:1 scale via digital camera

## Nesting True Shape

Optimize your production

## Vertical lathe machining control

Achieve maximum use of your machine Z stroke

## Waterjet 3 and 5 axis

For water jet machines

## Slab lifter control

Slab lifter control and automatic calculation of cutting sequence and positioning

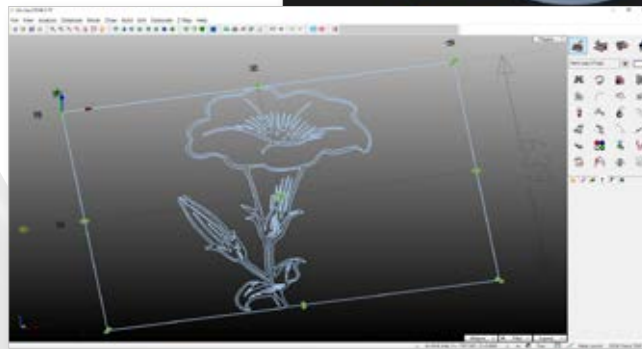
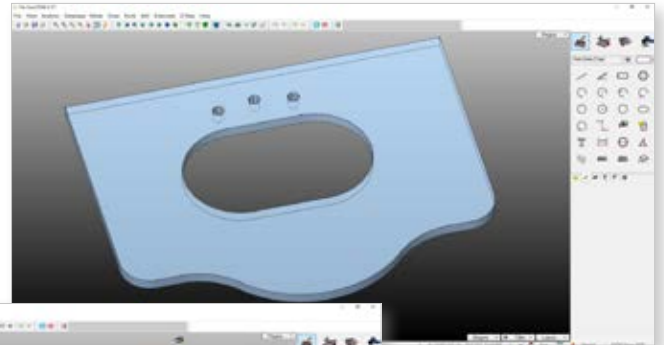
## Cutting and drillings control from underneath with Lifter

# CAD functions

Below a short description of EasySTONE CAD main functions:

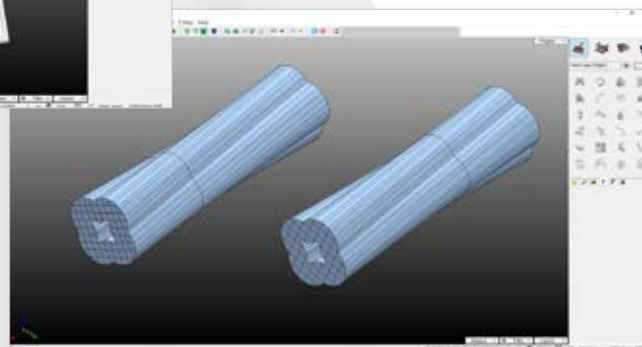
## 2D functions

- Lines
- Arcs
- Circles
- Rectangles
- Writing
- Polygons
- Nurbs Curves
- Dimensions
- Parametric components: vanity tops, kitchen tops, tables, funeral art
- DXF, CAL, HPGL, PNT and ISO import
- Pictures vectorialization



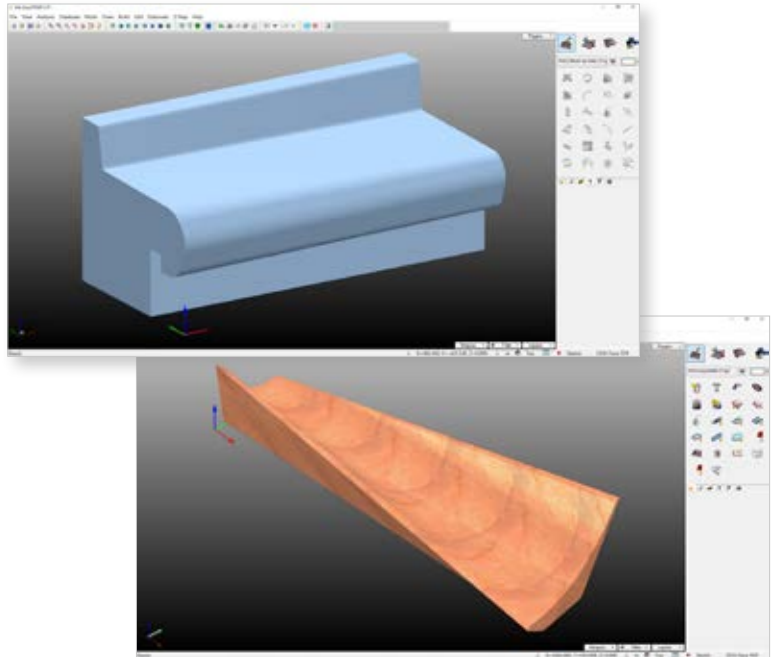
## Graphic modification functions

- Rectangle selection
- Move
- Rotate
- Join
- Cut
- Interpolate
- Scale

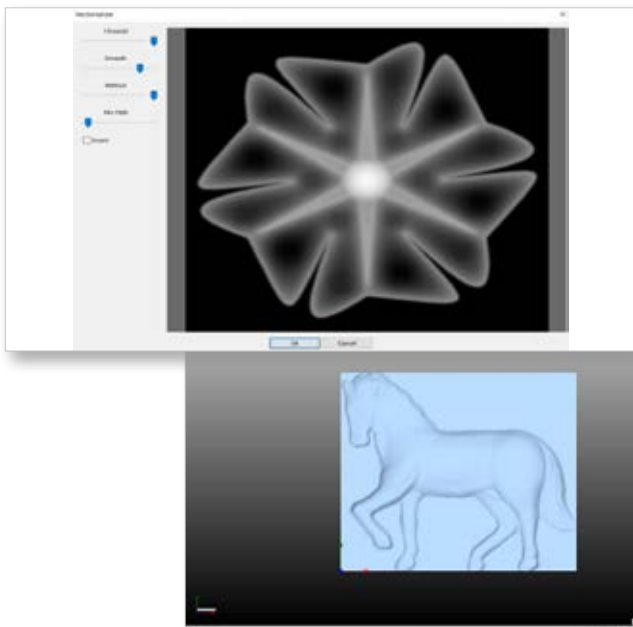


## 3D functions

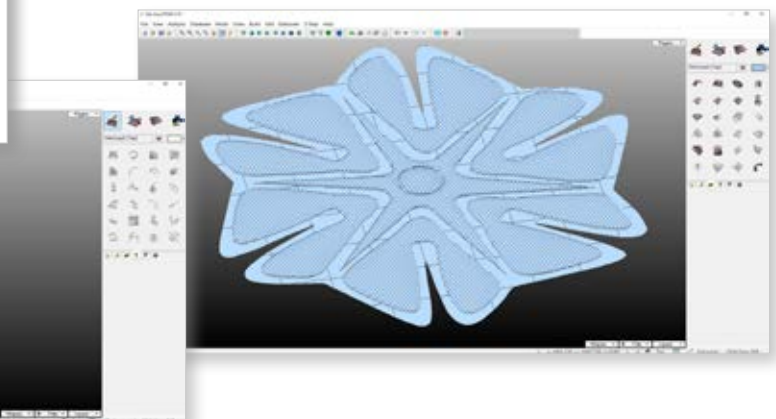
- Frames and columns with fixed and variable section/torsion
- Shower dishes and multiple section sinks
- Surface modification functions
- Ruled surfaces
- Loft surfaces
- Swept surfaces
- Gordon surfaces
- Polimesh surfaces
- IGES, STL, STEP import, etc.



## ART module



- Bitmap import
- Boolean operations
- Intersections
- Z Map pictures



## Parametric functions

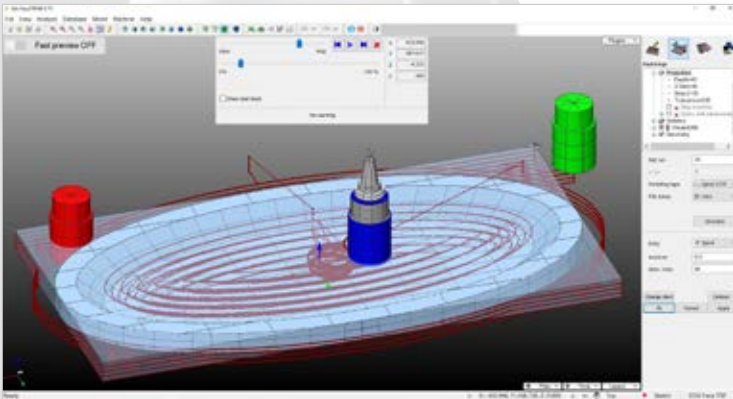
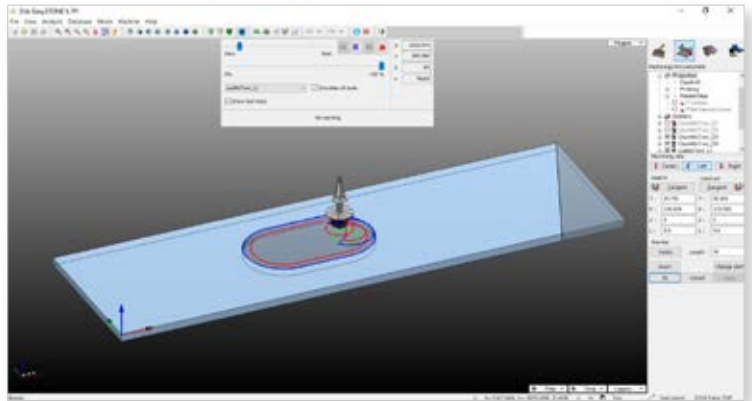
- Parametric components
- Arithmetic functions
- Variables list

# EasySTONE Light

The essential

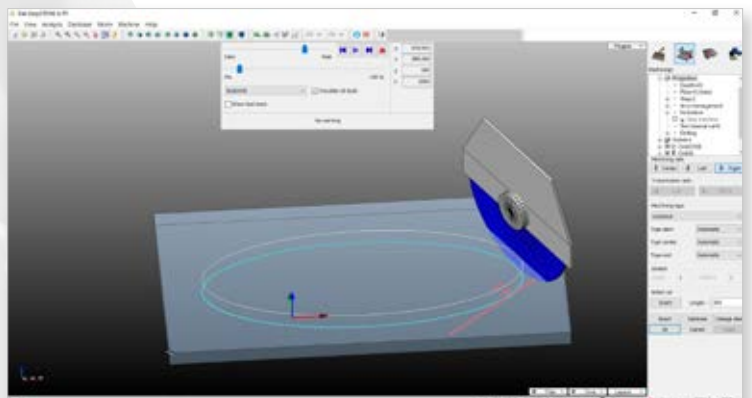
## Machining

- Contouring
- 3 axis blade cutting
- Surface roughing with mill
- Surface finishing with mill



## Options

- Multi CNC machines management



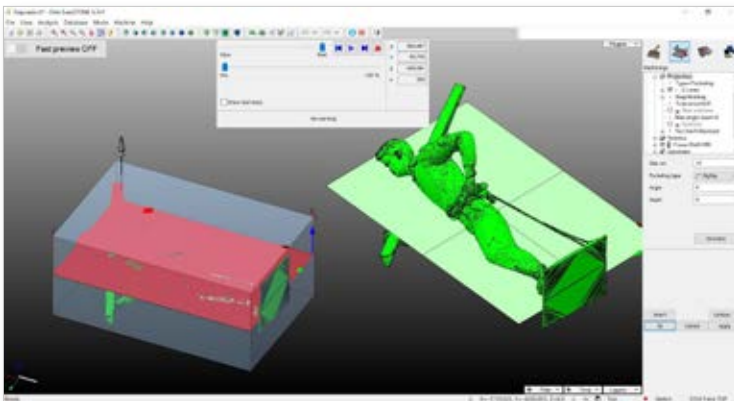
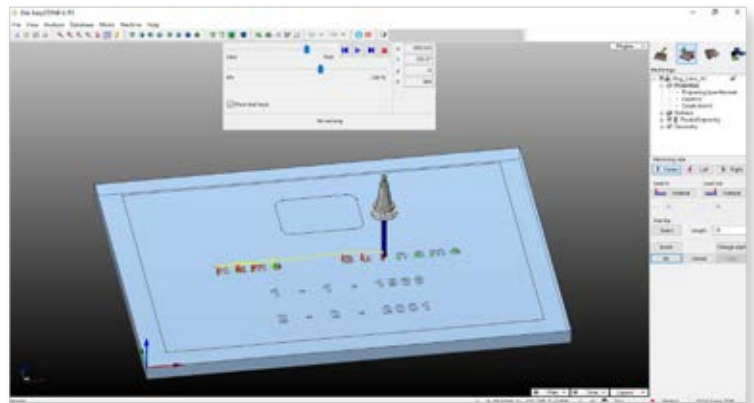


# EasySTONE Basic

3D Project and machining for up to 5 axis CNC machining centers

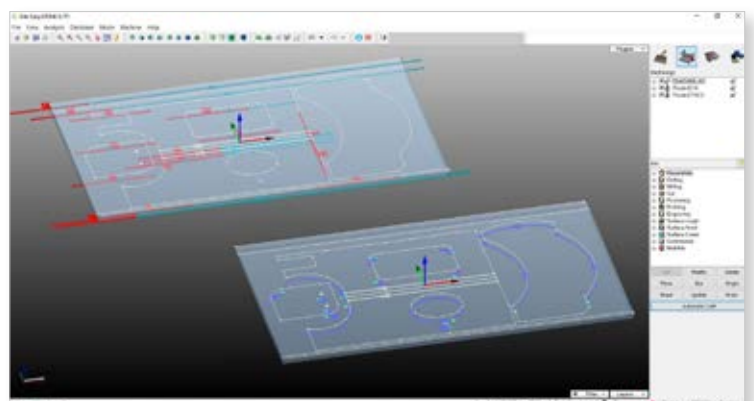
## Machining

- Drilling
- Contouring
- Profiling
- Engraving and grooving
- 3 axis blade cutting
- Pocketing
- Beveling
- Surface roughing with mill and saw blade
- Surface finishing with mill and saw blade



## Options

- Multi CNC machines management
- Automatic CAM processing
- Slab lifter control
- Cutting and drillings control from underneath with lifter
- Waterjet 3 axis
- Virtual milling
- 3D Collision detection
- Nesting
- DDXPhoto

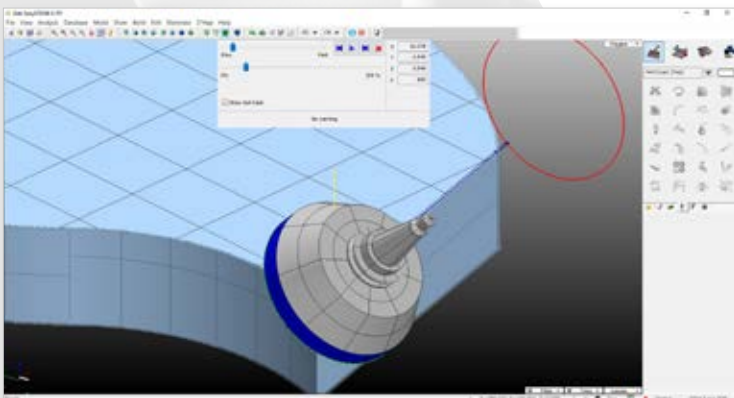
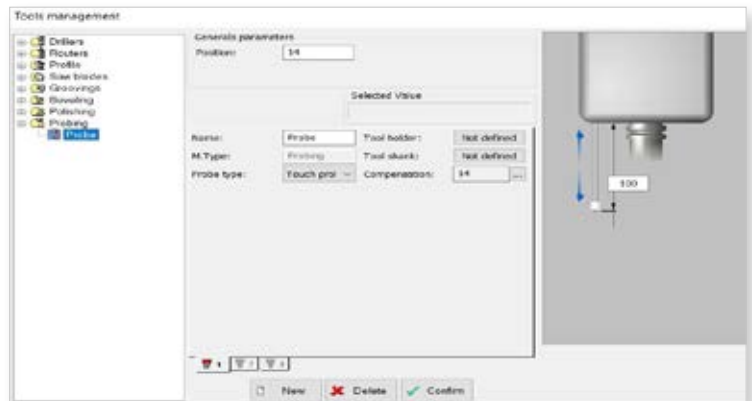


# EasySTONE Advanced

Lathe and probing with all the Basic level functions

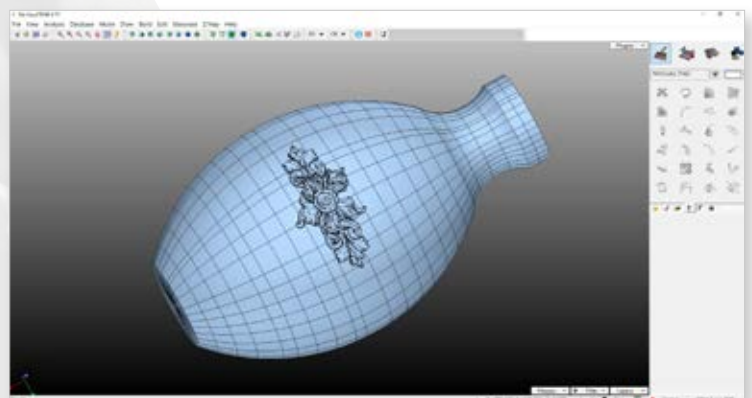
## Machining

- Drilling
- Contouring
- Profiling
- Engraving and grooving
- 3 axis blade cutting
- Pocketing
- Beveling
- Surface roughing with mill and saw blade
- Surface finishing with mill and saw blade
- Lathe machining control (interpolated and continuous)
- Probing



## Options

- Multi CNC machines management
- Automatic CAM processing
- Slab lifter control
- Cutting and drillings control from underneath with lifter
- Waterjet 3 axis
- Virtual milling
- 3D Collision detection
- Nesting
- DDXPhoto



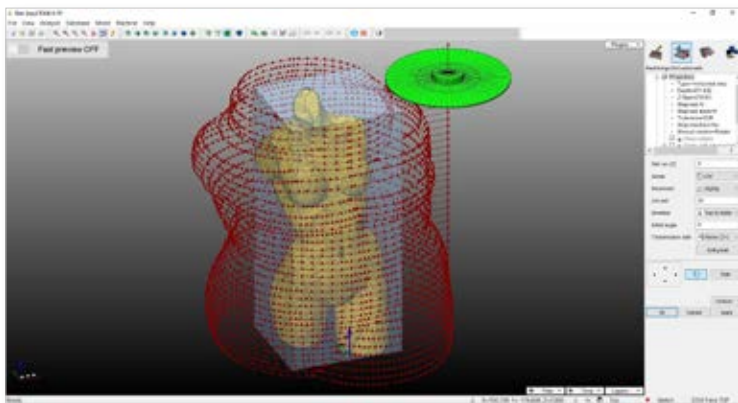
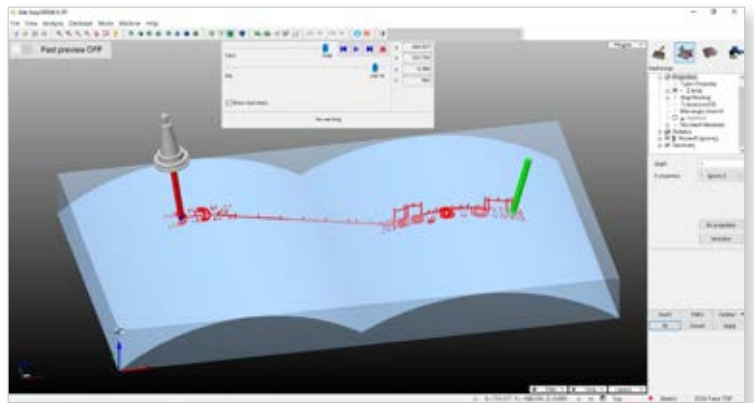


# EasySTONE Premium

Top level

## Machining

- Drilling
- Contouring
- Profiling
- Engraving and grooving
- 3 axis blade cutting
- Pocketing
- Beveling
- Surface roughing with mill and saw blade
- Surface finishing with mill and saw blade
- 5 axis machining with tools and saw blade
- Lathe machining control (interpolated and continuous)
- Probing





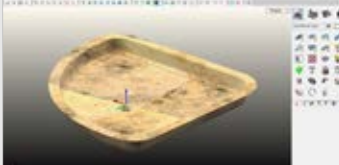
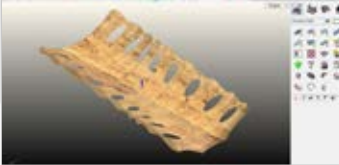
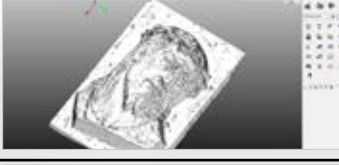
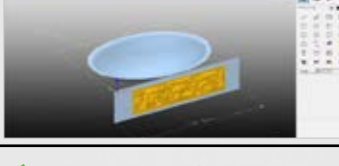


## Options

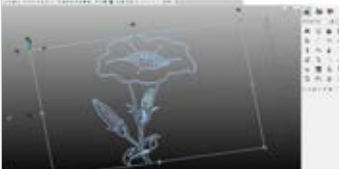

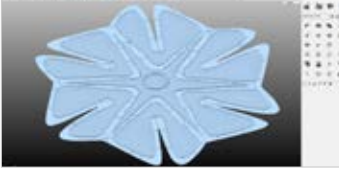




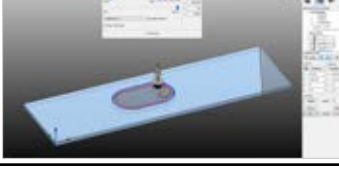
- Multi CNC machines management
- Automatic CAM processing
- Slab lifter control
- Vertical lathe machining control
- Cutting and drillings control from underneath with lifter
- Waterjet 3 and 5 axis
- Virtual milling
- 3D Collision detection
- Nesting
- DDXPhoto



# Function List

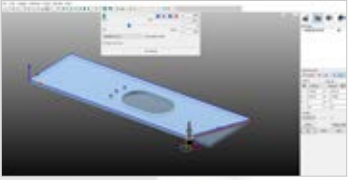
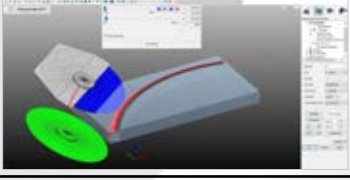
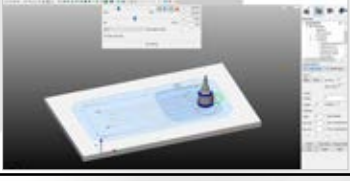
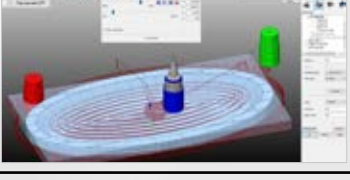
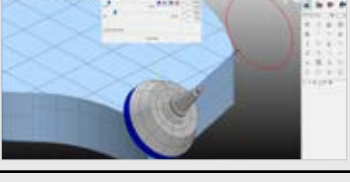
Features	Light	Basic	Advanced	Premium	
	3D graphics and photo-realistic rendering of the project	✓	✓	✓	✓
	Automatic e-mail setting for request of assistance	✓	✓	✓	✓
	Free design of geometrical entities (arcs, biarcs, lines, rectangles, squares, ellipses, circles, regular polygons, fillets, chamfers, construction plans, nurbs, etc.)	✓	✓	✓	✓
	Design from predefined parametric models in library: vanity tops, kitchen tops, tables	✓	✓	✓	✓
	Design of basic 3D surfaces: frames, shower dishes, multiple section sinks, columns with fixed and variable section/torsion	✓	✓	✓	✓
	Design of advanced 3D surfaces: ruled, loft, swept, gordon, polimesh) and surface drawing from curve grid		✓	✓	✓
	Surface definition by laser scanning (points file)		○	○	✓
	Dimensions	✓	✓	✓	✓

✓: included    ○: optional

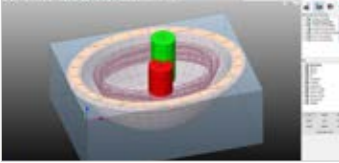
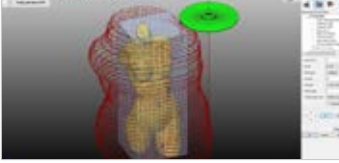
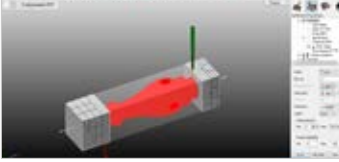
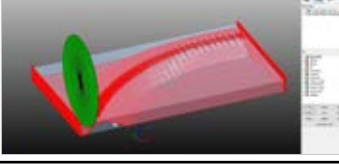
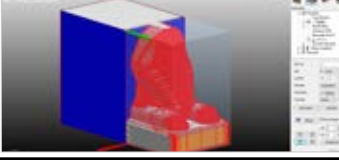
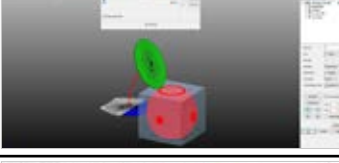
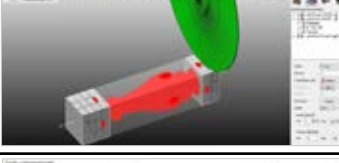

Features	Light	Basic	Advanced	Premium	
	DXF, CAL, HPGL, PNT and ISO import	✓	✓	✓	✓
	IGES, STL, STEP, SAT, 3DM (Rhinoceros) import		○	○	✓
	Pictures vectorization: BMP, JPG, DIB, PCX, TGA	✓	✓	✓	✓
	ART Module (ZMAP)		○	○	✓
	Graphic tool database	✓	✓	✓	✓
	Customized profiled tools, spindle and tool holder management	✓	✓	✓	✓
	Drilling		✓	✓	✓
	Contouring: step, spiral, one way	✓	✓	✓	✓

✓: included ○: optional

# Function List

Features	Light	Basic	Advanced	Premium
 Profiling		✓	✓	✓
 Engraving: normal and V engraving		✓	✓	✓
 Grooving: normal and drop		✓	✓	✓
 3 axis blade cutting	✓	✓	✓	✓
 5 axis blade cutting				✓
 Polishing		✓	✓	✓
 Pocketing		✓	✓	✓
 Fixed angle bevelling		✓	✓	✓

✓: included    ○: optional

Features	Light	Basic	Advanced	Premium	
	Surface roughing with mill	✓	✓	✓	✓
	Surface roughing with saw blade		✓	✓	✓
	Surface finishing with mill: scallop, flowline, Z constant, projection, pocketing	✓	✓	✓	✓
	Surface finishing with saw blade: horizontal or vertical		✓	✓	✓
	5 axis machining with tools: scallop, flowline, develop, projection, pocketing				✓
	5 axis machining with saw blade: flowline or blade side working				✓
	Lathe machining control (interpolated and continuous)			✓	✓
	Probing 3 axis		○	✓	✓
	Laser projection		○	✓	✓

✓ : included    ○ : optional


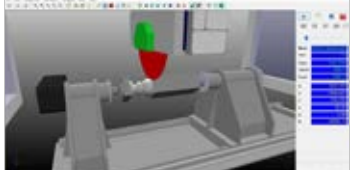
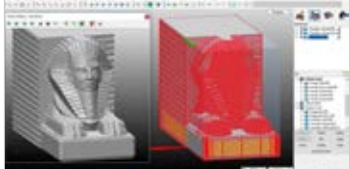
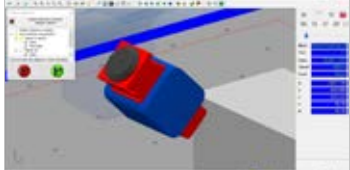
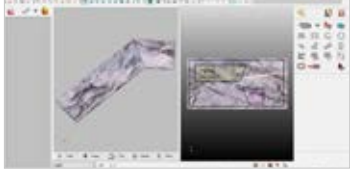




# Function List

Features	Light	Basic	Advanced	Premium
 Pop-up vacuums control		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
 Automatic CAM processing		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
 Slab lifter control with the definition of cutting break and gripping, both automatic or manual		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
 Cutting and drillings control from underneath with lifter or referral aggregate		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
 Vertical lathe machining control (Mill only)				<input type="radio"/>
 Waterjet 3 axis		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
 Waterjet 5 axis		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
 Machining time, cost estimation and automatic generation of piece programs for CNC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

✓: included    ○: optional



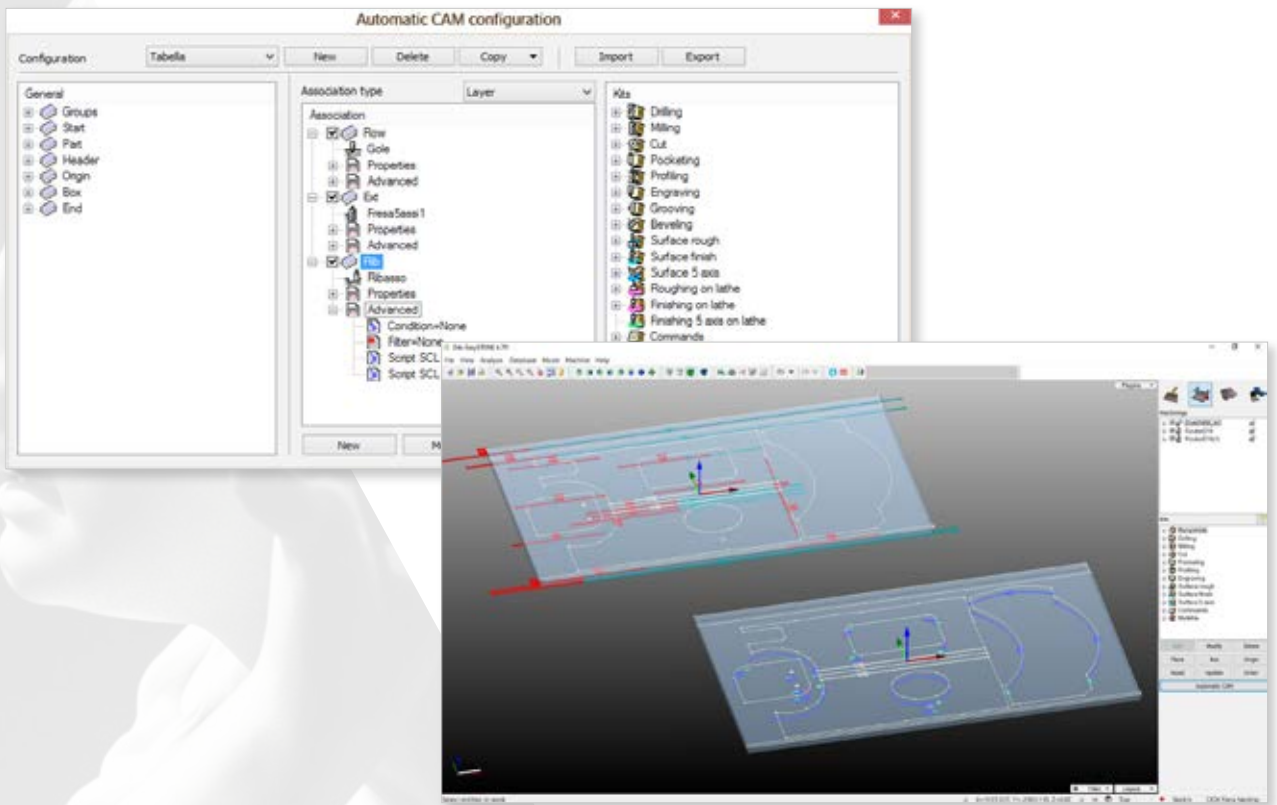
Features	Light	Basic	Advanced	Premium
 <p>Disposition of pieces on the machine table with automatic check of the interferences between the machining and the sub-pieces</p>	✓	✓	✓	✓
 <p>Graphic 3D simulation of the machining process, using the real three-dimensional model of the machining center, of the table, of the engines, of the tools, of the sub-pieces and of the pieces</p>		○	○	○
 <p>Virtual milling</p>		○	○	○
 <p>3D collision detection of the machining centre with pieces, sub-pieces and tools (requires 3D Graph Simulator)</p>		○	○	○
 <p>Nesting with plate grain visualization and plate warehouse management</p>		○	○	○
 <p>DDXPhoto: Slab picture import in 1:1 scale via digital camera</p>		○	○	○
 <p>Template detection</p>		○	○	○
	✓	✓	✓	✓
			✓	✓
				✓
	○	○	○	○

✓ : included    ○ : optional

# Additional modules

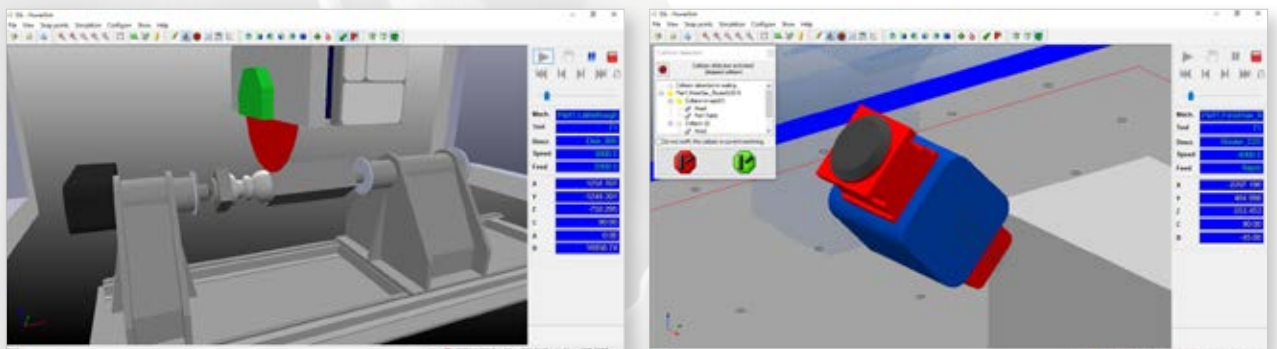
## Automatic CAM

It allows to enter machining automatically making the machining process automatic and reducing production time and costs.



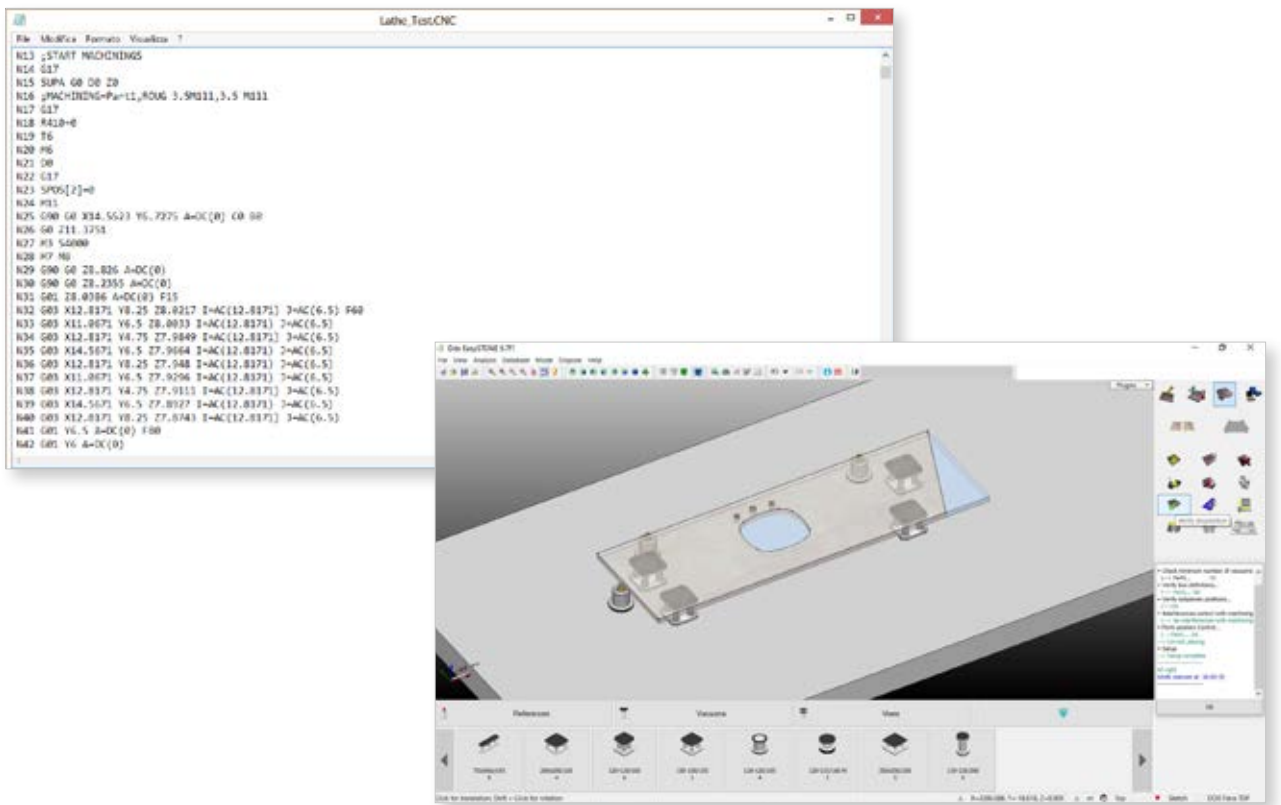
## 3D Simulation and Collision Detection

Perfect 3D model representation of your machine.



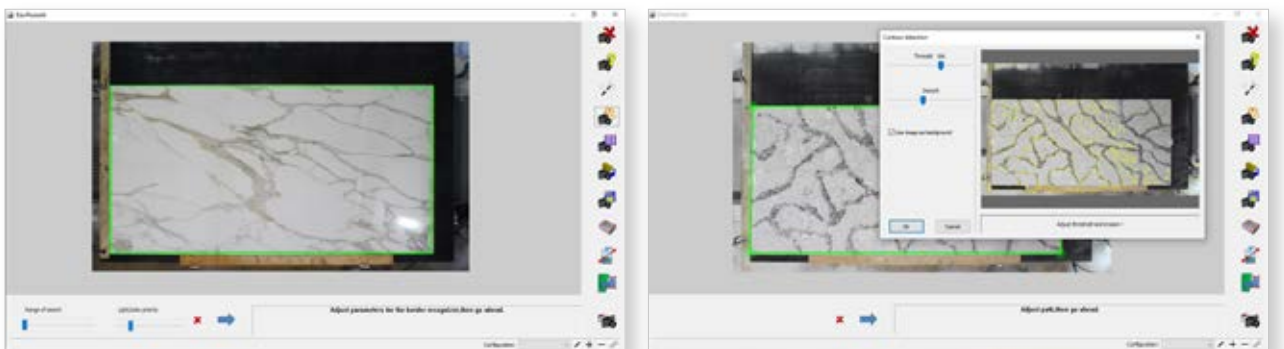
## Post-processor

Specific for your machine.



## DDXPhoto

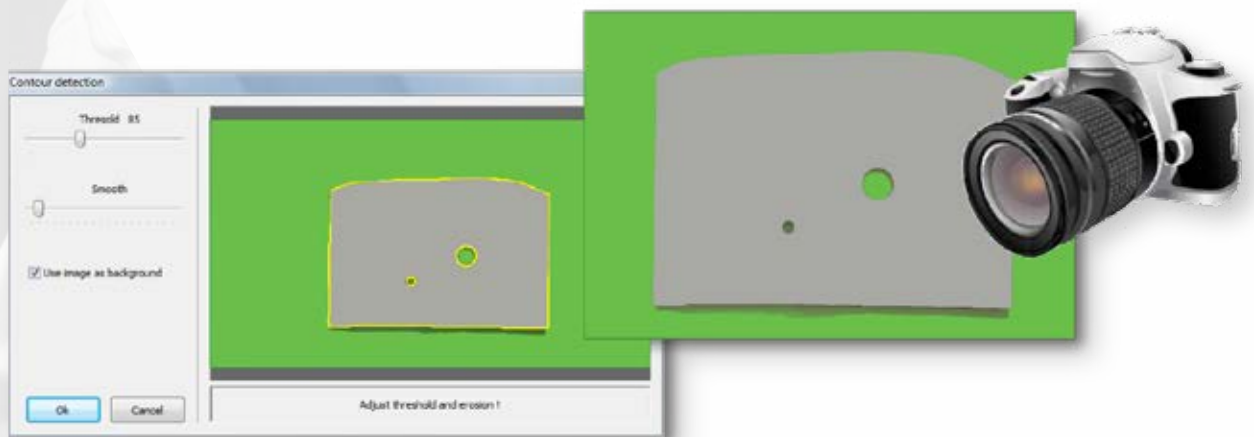
Slab picture capture in 1:1 via digital cameras.



# Additional modules

## Template detection

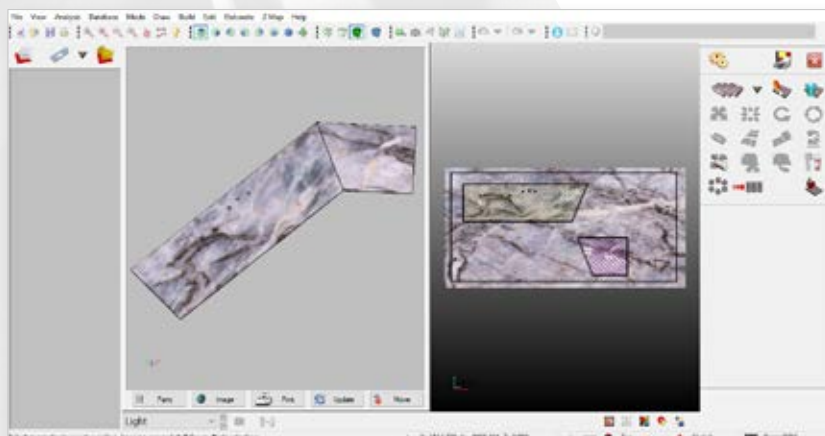
Template import in 1:1 scale via digital cameras.



## Nesting

Reduce your waste and optimize your production

- Selection of elements from production list (\*.csv file)
- Nesting from DXF file
- Generation of bar-code labels
- Panels store management
- Scrap Recovery control
- Possibility to manually modify the optimization made by the software
- Customizable output



## Slab lifter control

Make the shifting of pieces easier.

Slab lifter control and automatic calculation of cutting sequence and positioning.

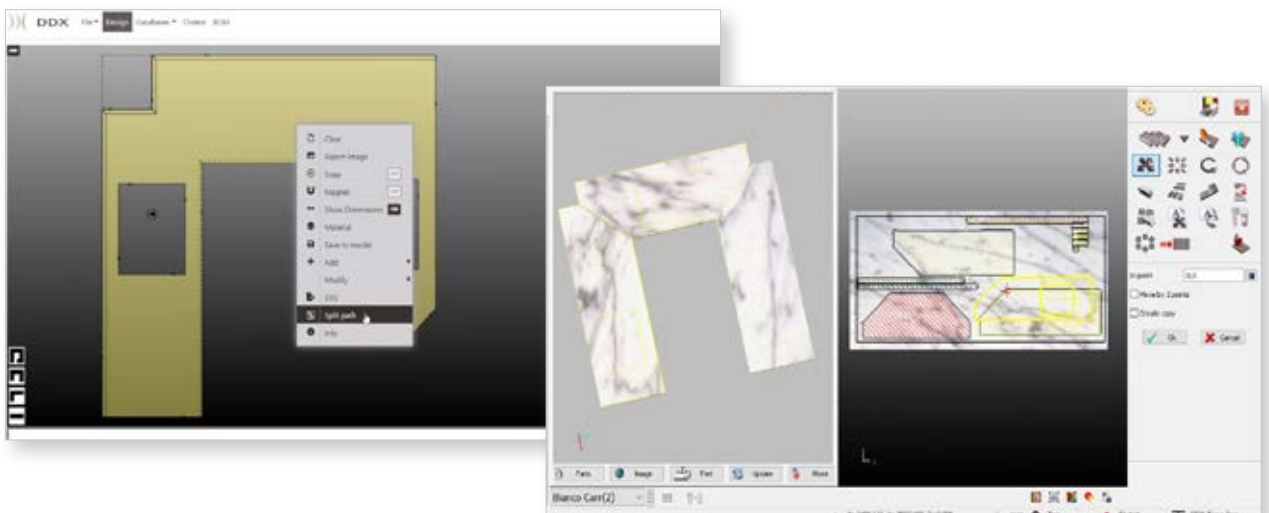


## Cutting and drillings control from underneath with Lifter



## PowerTOP

The ideal solution to quickly design and manufacture bathroom and kitchen countertops.

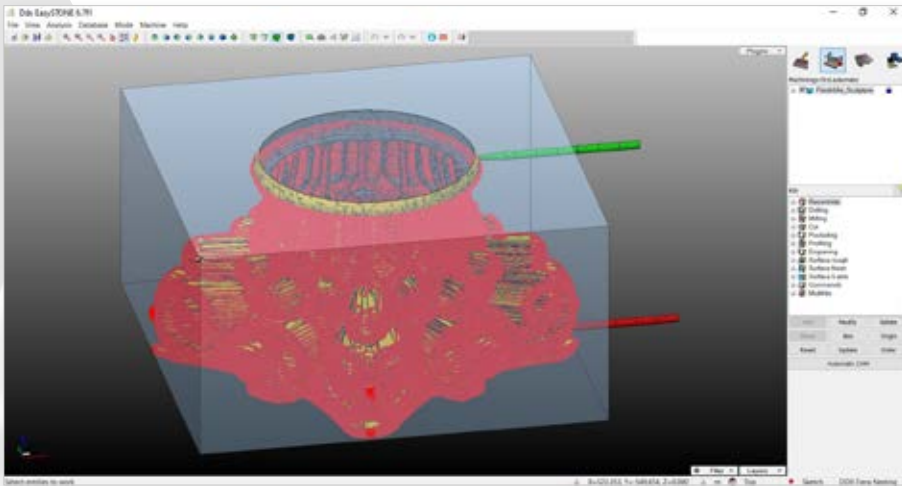




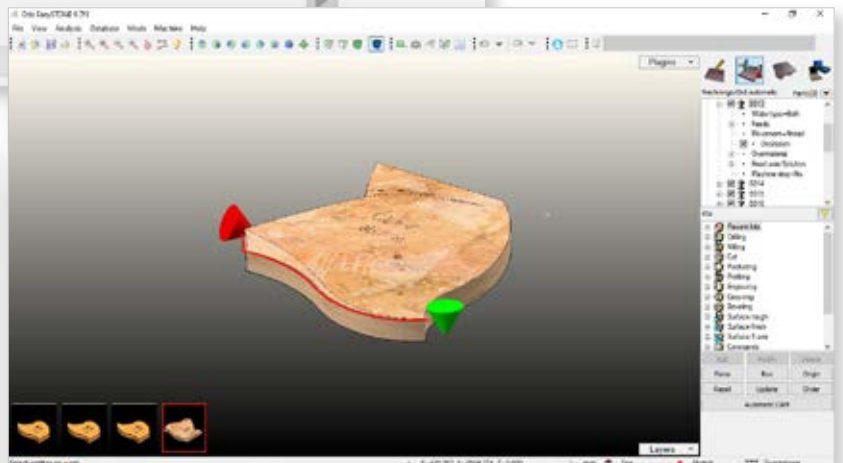
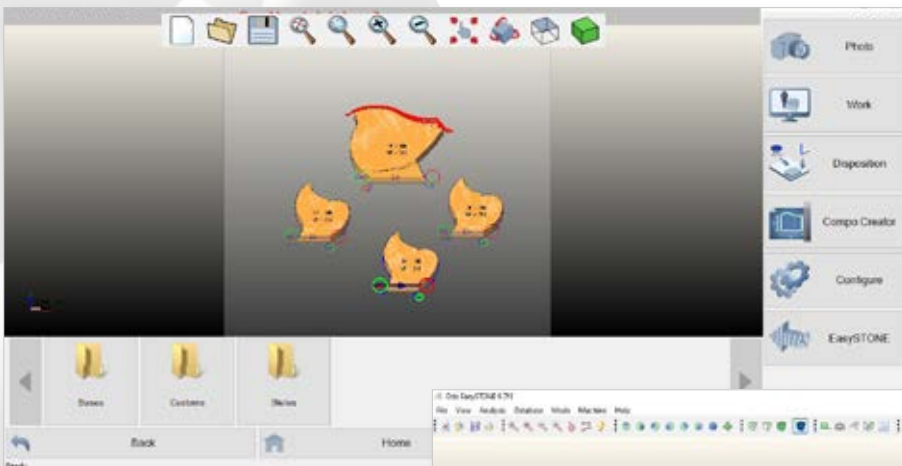
# Additional modules

## Vertical lathe machining control

Achieve maximum use of your machine Z stroke.



Specific for funerary art.

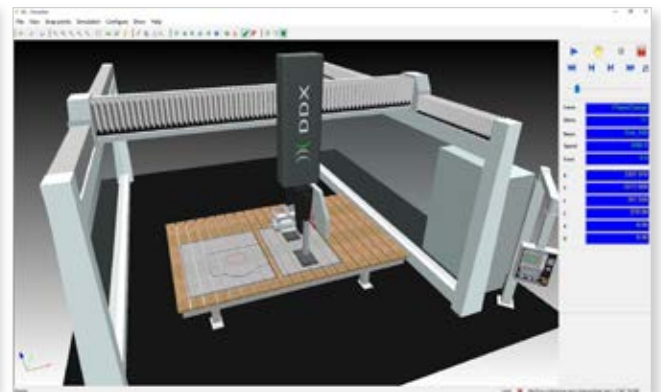
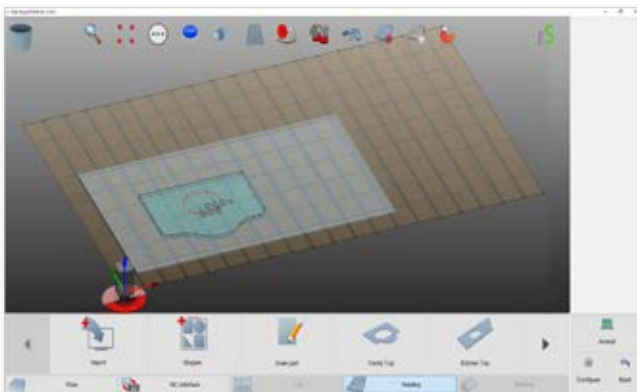
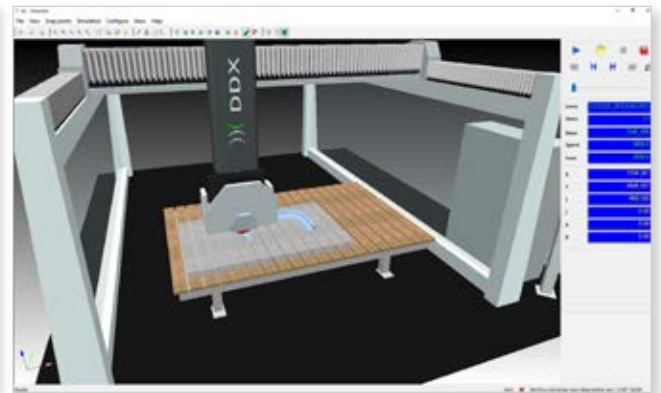
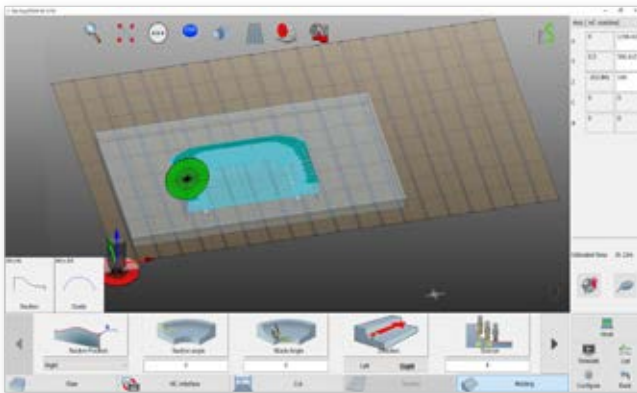
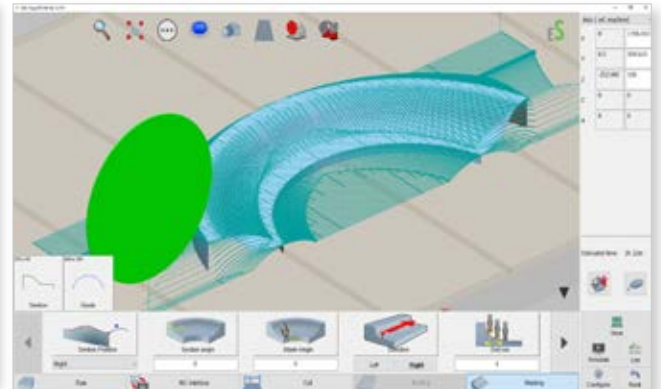




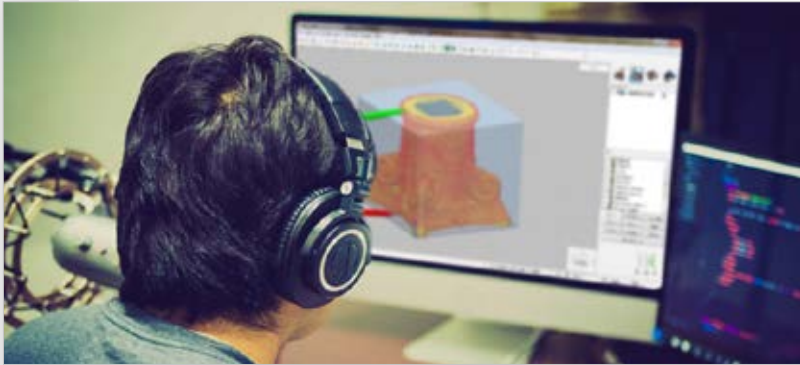
# EasySTONE <sup>NC</sup>

One software, one configuration, one training: only advantages.

The touch CAD/CAM for stone processing onboard the CNC router.



# Service and Assistance



DDX customers can count on a competent and reliable partner. Our assistance service can be reached by phone and by remote support.

Software updates can be downloaded from our website [www.ddxgroup.com](http://www.ddxgroup.com).

# Partner

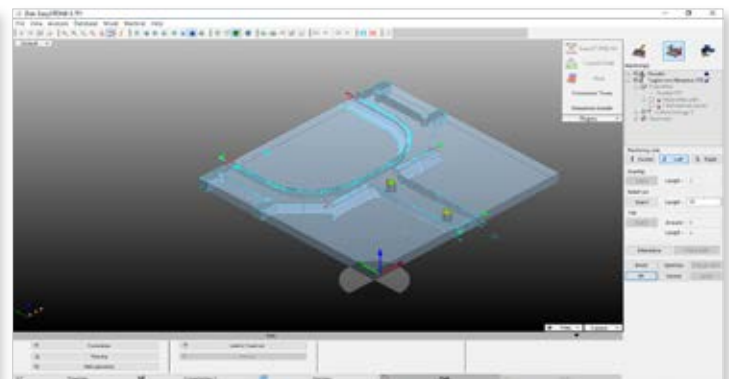
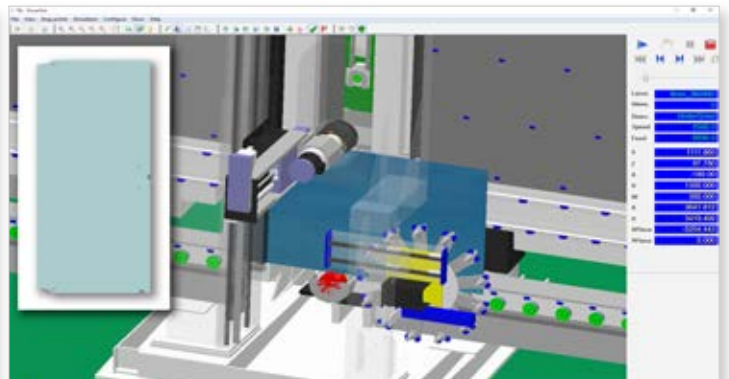
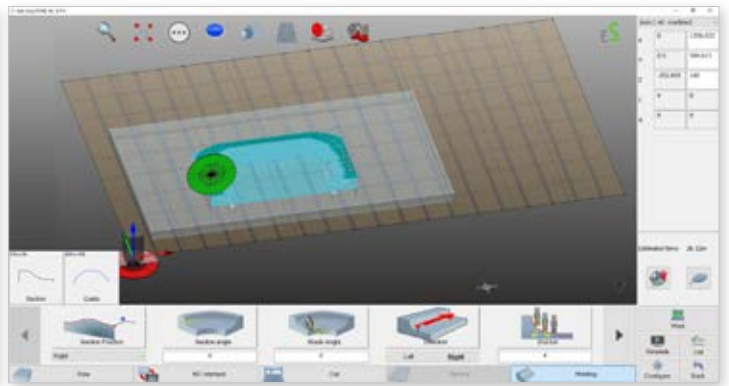
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# Other DDX products

Stone, glass, waterjet field







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