Table of Contents

magCUT	1
Omagcut Introduction	1
MAIN MENU	2
Table	3
Project/Slab definition	4
HOW TO: Define new raw slab	5
HOW TO: Capture slab image	7
HOW TO: Define damaged area	8
HOW TO: Use Plan Probe	8
Raw Slab Confirmation	9
Current Machining	9
CAD View Tab	. 10
Direct Cuts	. 11
Manual Move	. 12
Single Cuts	. 13
Multiple Cuts	
Grid Cuts	
Leveling Cuts	
Polishing	
Copy Template	
Saw Test	
Cad Cuts	
Visual Management and Machining Tab	
Directional Buttons	
Part Manager	
File and Machining Management Tab	
Work Parameters	
HOW TO: Create parametric drawings	
Parametric Drawings Examples	
Nesting Options	
Whole Cuts Guard On	
Whole Cuts Guard Off	
HOW TO: Managing the Machining	
HOW TO: Configure the cuts	
Sawing Management Buttons	
Simulating the Machining	
Simulation Info	
HOW TO: Add internal features to parts	
HOW TO: Drilling and cutting sink with 90° corners	
HOW TO: Add shapes from DXF files	
HOW TO: use Vein Match	
Frames	
Importing frame profile	
Frame Machining Setup	
Machine Machining Setup	
Machine	
Tool DB	
Machining DB	
	. 00

Polishing DB	65
Machine	66
Settings	67

OmagCUT

V. 2.3e1

Omagcut is our advanced bridge cutting software developed for usage with 5 Axes Cnc Cutting Centers.



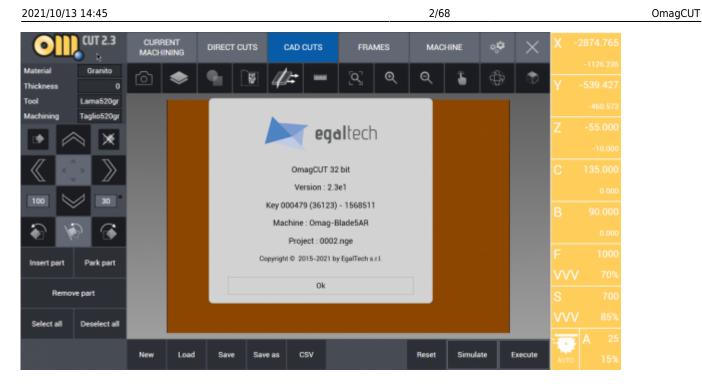
In order to launch this software the user have to click the icon link.

IMPORTANT: Not every function described in this manual is always available on the software. Functionalities depends from the user license and the utilized machine.

Omagcut Introduction

01	CUT 2.3	CURF MACH		DIRECT CU	лs	CAD CUTS	FRA	MES	MAC	HINE	°.	×		-2874.765
Material Thickness	Granito 0	ര	۲	•	¥ 4	(z=) =	• <u>[</u> Q]	Q	Q	-	\$	٩		-1126.235
Tool	Lama520gr													-460.573
Machining	Taglio520gr													-55.000
	\mathbb{A}													-10.000
_														135.000
100	30													0.000
N) ()													90.000
														1000
Insert part	Park part													
Remo	we part													700
Select all	Deselect all													∨ 85%
													1	A 25
		New	Load	Save	Save as	CSV			Reset	Simula	te I	Execute		15%

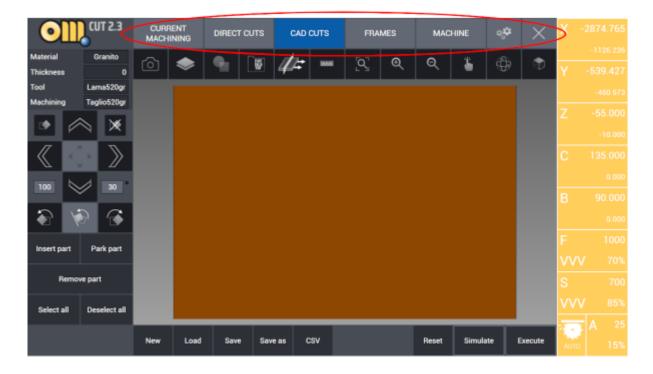
This is the software interface when you launch Omagcut. Now we will explain any aspect and any possibility given to the user.



By clicking the logo in the top left corner it will be shown a new window containing the software version along with the key, the machine set and the copyright details. This window will be closed by clicking "OK".

MAIN MENU

CURRENT MACHINING	DIRECT CUTS	CAD CUTS	FRAMES	MACHINE	್ಧಂ	×



At the top margin of the interface are located the buttons used to navigate the software functions. Each section will be analyzed and explained.

- Current Machining
- Direct Cuts
- Cad Cuts
- Frames
- Machine
- Settings

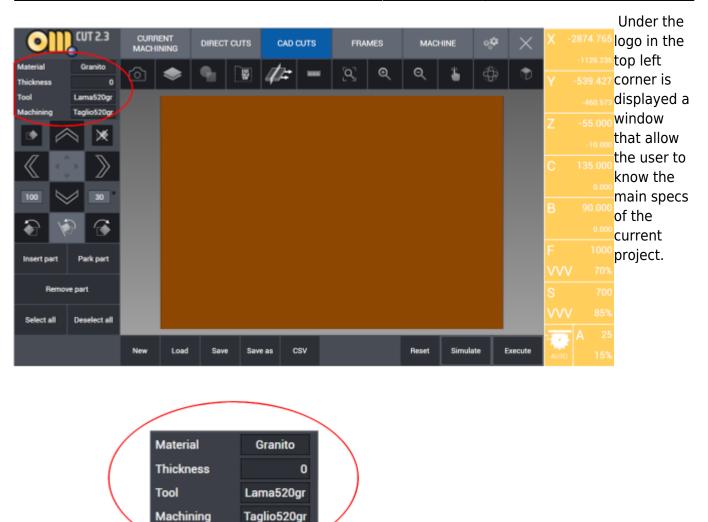
Table



The brown region in the middle of the interface represents the machinery worktable. Therefore it is dimensioned exactly as it, depending from the machine.

Here the user can work and preview any slab, project or part to be cut. Also, work simulations are done here and the user can create cutting programs and blade or milling tool paths.

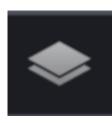
Project/Slab definition



More specifically, in this box the user can find:

- Material: define the material to be worked (Granite, Marble, Ceramic, ...)
- Thickness: define the thickness of the material (expressed in millimeters)
- Tool: specify which tool is used (Saw, Mill, Drill, ...)
- Machining: set the kind of cut or machining made by the tool

HOW TO: Define new raw slab



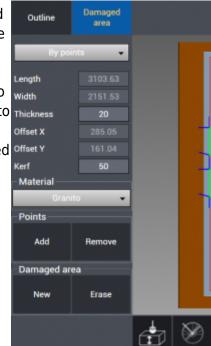
Raw Stock Definition: This button opens a new page where is possible to define width, lenght, thickness and kerf of the slab currently on the table. It is also possible to define damaged zones on the slab which will not be cut due to cracks, imperfections or colours. Here is displayed the Raw Stock Definition page: divided in two tabs, Outline and Damaged Area which allow the user to

set the parameters relatives to the current slab. It is also possible to specify the current slab's material and draw on the screen the damaged area.

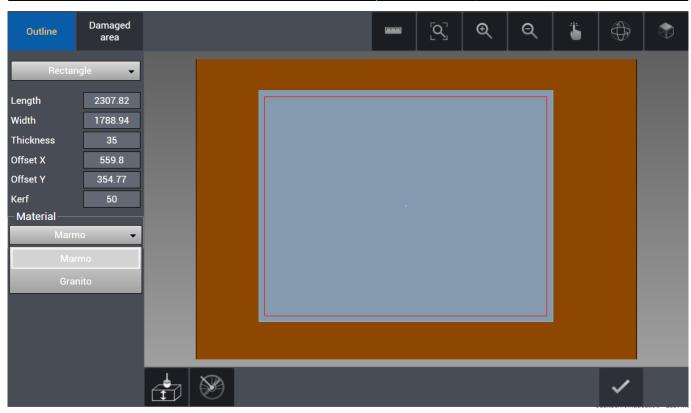
By pressing the Raw Slab button it is possible to define the specifications of the slab on the work table. Material outline can be drawn by three different methods:

- Rectangle: Slab Length Width Thickness values can be entered in mm units. Distance from lower left corner of work table can be measured by a meter precisely to lower left corner of slab in X and Y axes and these measurements can entered to Offset X and Offset Y boxes. In this way slab position is defined parametrically. Kerf value is the clearance value in mm from sides of the slab. After a value is entered in Kerf box, a working perimeter is drawn in red offset by that value from the sides. Slab that is defined as rectangle can be modified also by pressing and dragging the sides, can be moved by panning, this is especially useful for machines on which camera option is available so that drawing overlaps slab image.
- By Points: In the program corners of the slab can be pinned by mouse. If this method is preferred, every pinned corner points are connected by linear lines and a closed cutting geometry is formed.
- 3. **From Laser:** By the help of point laser mounted on the machine, corners of the slab can be pinned. If this method is preferred, every pinned corner points are connected by linear lines and a closed cutting geometry is formed.

The material of the slab has to be defined. Usually it is marble, granite or quartz.



7/68



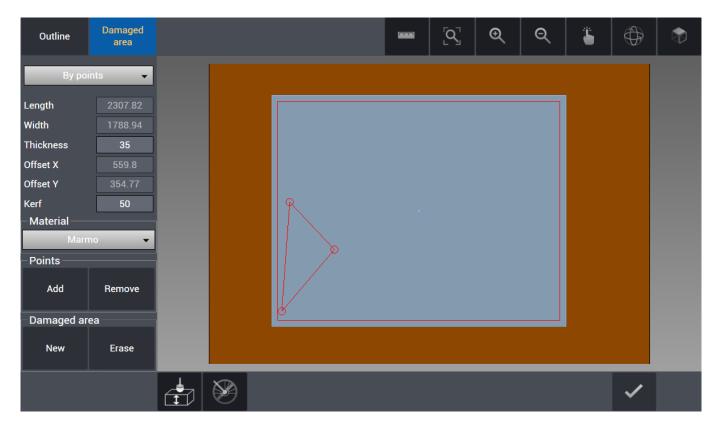
HOW TO: Capture slab image



when positioning parts that will be cut inside the slab since it allows to preview the aspect of the material that will be cut. This is also helpful when orientating parts inside the slab with respect to vein match.

HOW TO: Define damaged area

Once the slab is correctly declared and defined, it is possible to add any damaged areas on it which will prevent that area to be cut. This can be done giving the outline points of the damaged or imperfect area directly on the slab or by laser which will be marked by a red line. If the nesting function will be used, no part will be put inside the damaged area.



After the slab and, if present, any damaged area has been defined, the user can confirm the creation of it by pressing the confirm button on the bottom right of the screen. A damaged area prevents any part to be cut on it.

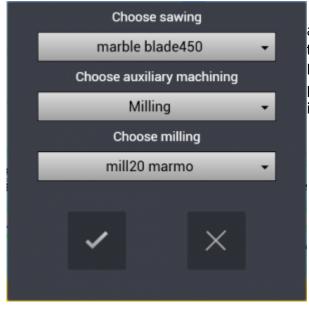
HOW TO: Use Plan Probe



Egalware Manuals - http://manuals.steamware.net/

In order to execute this function, the button with plan probe icon as below is pressed and after probing is realized automatically by the machine, thickness value is updated with real value. It is vital to execute this function especially before 45° angled and mitre cuts.

Raw Slab Confirmation

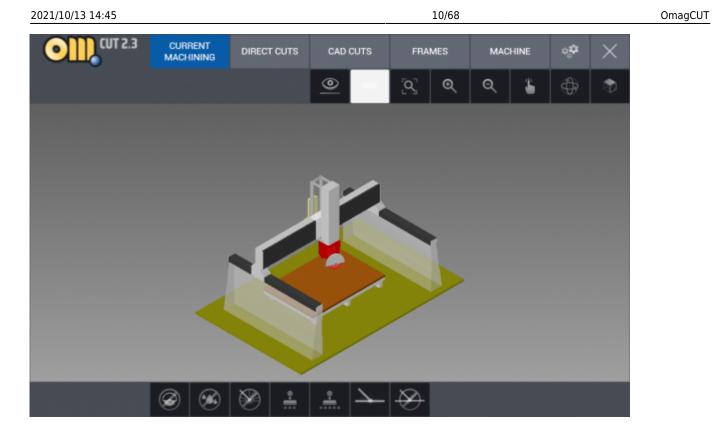


After the slab is defined with its dimensions, thickness and if necessary its damaged areas declared, we press the confirm button on the bottom right of the screen. Doing so will open the last confirmation window. It's possible to choose the sawing tool from the Tool DB and if present the auxiliary machining and its specific tool.

WARNING: If the machine doesn't have a blade fit for the chosen material (for example Granite) when confirming the slab, there will be no one choice of blade under "Choose sawing". It's necessary to go in the Machine section of the software and select a blade fit for the desired material, making sure that its machining suit the current slab.

Current Machining

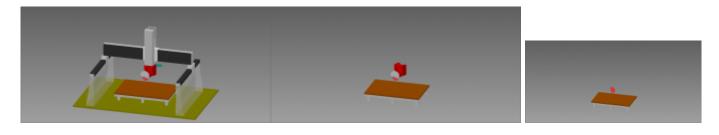
Used to observe and monitor the real-time movements and cuts of the machine through the 3D simulation from screen.





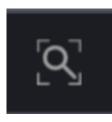
Eye: This button allows the user to change view of the machine:

1) Full machine 2) Head, tool and table 3) Only tool and table

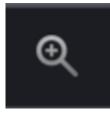


CAD View Tab

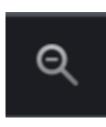
Those buttons are available in all of the software's functions.



View All: This button is used to center the current view in order to display the entire project. It overwrite any previous zoom and/or view of the project.



Zoom In: For every click this button enlarge the project view, zooming in the working table.



Zoom Out: For every click this button reduce the projecxt view, zooming out the working table.



Move: By pressing this button, the user perform the translation of the project view. After clicking it is possible to move the view by holding the left mouse button.



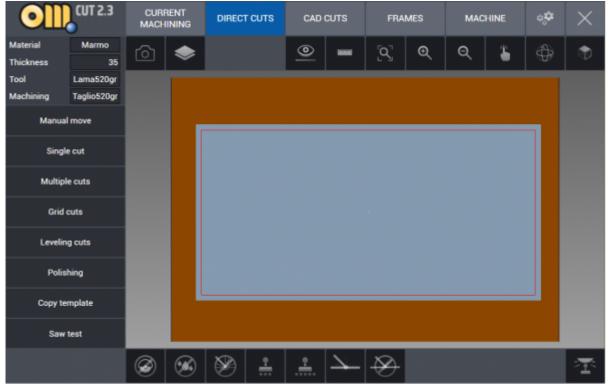
Rotate: This button gives the command to freely rotate the project point of view. Once it is activated just press the mouse left button and move it.



Top View: Set the project view directly from above.

Direct Cuts

Direct Cuts are cutting operations which can be realized by the operator directly by saw, drawing on display or utilizing reference points marked by laser on the machine. They are used to perform manual cuts directly, of any kind: single cuts, multiple cuts and more.



Manual Move



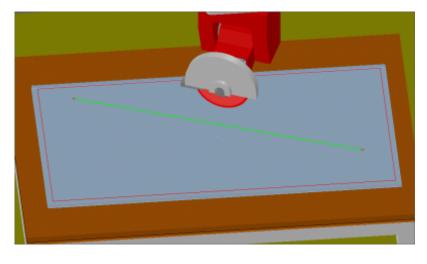
This function is used on the machine to move manually the head. The user can use this in order to position the tool in a desired position when it's necessary.

With G0 button active and pressed, the incremental value that is entered in axis field X Y Z C B becomes active when pressed relevant axis box and the machine moves in that axis by the incremental value entered. If G0 button is not active, feed F (mm/min) and speed S (rpm) parameters become active and it becomes possible to do cut during manual movement.

Single Cuts

Acquire P1 Ac	quire P2	V P2 Sp
Draw	-	di co
Depth	0	
Length	2670.7	
Direction	252	
Side angle	0	
Offset	0	
Saw thickness		
X 490.88 Y	1395.24	
Simulat e Execute	\times	

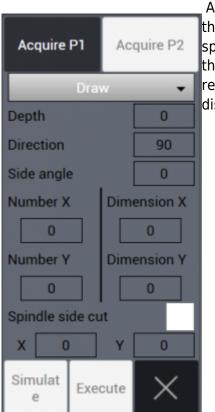
With this button the user can perform a cut from a point P1 to a point P2 of the slab. In order to do so the two points are to be defined by specifying the coordinates in the box OR by acquiring those coordinates lirectly on the slab, drawing them. In example we have a cut connecting two drawn points on the slab.



Multiple Cuts

Acquire P1Acquire P2Depth0Length1000Direction90Side angle0NumberDimension10203000Spindle side cutXX0Y0SimulatExecuteX0Y0	This function is similar to the Single Cuts one. But here the user can set a number of cuts to be repeated, parallel to the first, with a defined distance for each set of cuts. In example we can see a multiple cut with differents distances: 2 cuts distanced 200 mm, then 3 with a distance of 100 mm and finally 5 cuts with a distance of 50 each other.
Acquire P1 Acquire P2 Depth 0 Depth 0 Length 1088 Direction 183.07 Side angle 0 Number Dimension 1 2 3 5 50 50 Spindle side cut X X 429.34 Y Simulat Execute X	

Grid Cuts



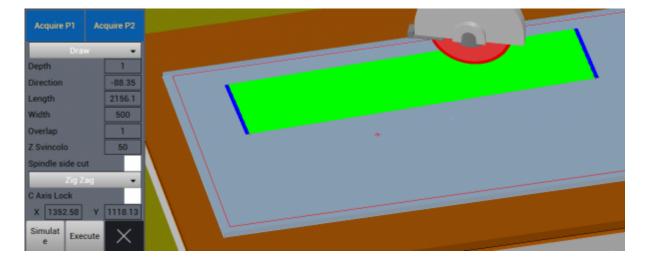
After single cuts and multiple cuts there is the Grid cuts function. With this the user can perform many cuts disposed in a grid pattern by specifying the number of X and Y repetitions and the distances between them. In the example below we have created a grid with two X repetitions at 400 mm distance and 8 Y repetitions with 300 mm distance each others.

Acquire P1 Acquire P	
Draw	
Depth 0	
Direction 178.7	
Side angle 0	
Number X Dimension	
2 400	
Number Y Dimension	
8 300	
Spindle side cut	
X 2160.97 Y 591.9	
Simulat e Execute	

Leveling Cuts

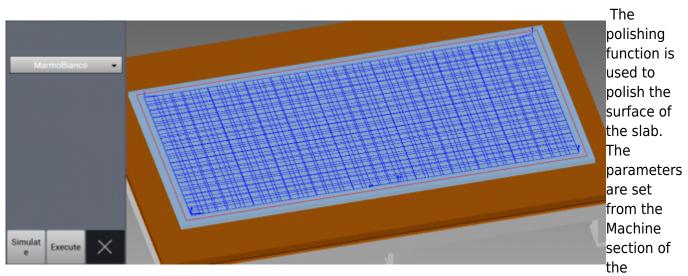
Acquire	P1	Ac	quire P2										
Draw													
Depth			0										
Direction			90										
Length			500										
Width			500										
Overlap			1										
Z Svincol	0		50										
Spindle s	ide c	ut											
	Zig Z	Zag	•										
C Axis Lo	ck												
X)	Y	0										
Simulat e	Exe	cute	×										

This kind of cuts is for leveling purpose. The user choose a line between two points, like in the single cuts function, then specify direction, lenght and widht of the desired leveling. In the example we have a 1 mm depth, 2156.1 mm long and 500 mm wide leveling cut.



Polishing

16/68



software, under "Polishing DB". In the example there is displayed the "Marmo Bianco" polishing.

Copy Template



This function allow to mark points on the table.

There are three ways to add points:

- Drawing them
- Laser
- Saw

Points that are marked by one of the methods above are connected in lines or arcs enabling copying of simple templates on work table.

Saw Test

Acquire f	P1 /	Acquire P2	Tl an Sa									
Draw												
Depth		0	bla									
Length		995.8										
Direction		170.96										
Offset		0										
Simulat e	Execute											

This function is designed to test the right setup of the machine, head nd tool and it is done by drawing a line from a point P1 to a point P2. aw blade cuts a straight line by rotating the head + / - 180° so that vidth of gap between two cuts can be checked to be thickness of the lade.

There are three ways to add points:

- Drawing them
- Laser
- Saw

The test consists in performing half cut in a direction and the other half in the opposite direction, rotating the tool by 180°. Of the two points marked by one of these three methods, it is possible to choose only one point and enter cutting parameters from relevant menu.

- Depth : Cutting depth (mm).
- Length : Cutting length (mm).
- Direction: Angular cutting direction (°).

When pressed Simulate button below, simulation of cutting is visualized. When pressed Execute button below, cutting becomes active on the machine.

Cad Cuts

This is the environment where the user can create drawings and cutting lists in order to generate the machine program, and it is possible to import DXF files.

Visual Management and Machining Tab

Below the main tab we can find the set of buttons designed for visual management and, if the user is in the CAD CUTS area, more buttons to manage the cutting and machining:

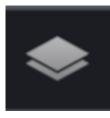


OII	CUT 2.3	CURF MACH		DIRECT	r cuts	CAD	CUTS	FRA	MES	мас	HINE	• ; •	×	х	-2874.765
Material Thickness	Granito	ര	۲	9		11=		<u>[9]</u>	Q	Q	-	٩	۰	5	-1126.235
Tool	Lama520gr					<u> </u>		-							-460.573
Machining	Taglio520gr													z	-55.000
· · ·	\mathbb{A}														-10.000
<														С	135.000
100	A 30 .													в	0.000
N	6														0.000
terret ered	Derle serat														1000
Insert part	Park part													vv	V 70%
Remo	ve part														700
Select all	Deselect all														
		New	Load	Save	e Sav	ve as (≍sv			Reset	Simula	ste	Execute		A 25
														AUTO	5 15%



Camera: See How to: Capture slab image.

Raw Stock Definition: See How To: Define New Raw Slab.



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Parametric Geometries: This button is used to create geometric shapes whose dimensions can be modified by the user. Kitchens and bath tops can be created with this function.

See How To: Create Parametric Geometries.

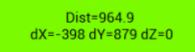


Import from File: It is possible for the user to import DXF files containing project and drawings created in Autocad or other softwares. It is also possible to import NGE and TRF formats. From the left column, directories where the files are located can be opened, from the directory relevant file to be worked is selected and on main panel selected file and its components are viewed on a grid.

See How To: Add DXF Shapes.



Machining Managing: This button open the machining tab. Here it is possible to oversee the blade cuts and drilling/milling tool paths and more specifically to monitor the saw cutting path order. It is also possible to move and separate parts that are cut from each other with the vacuum movement system.



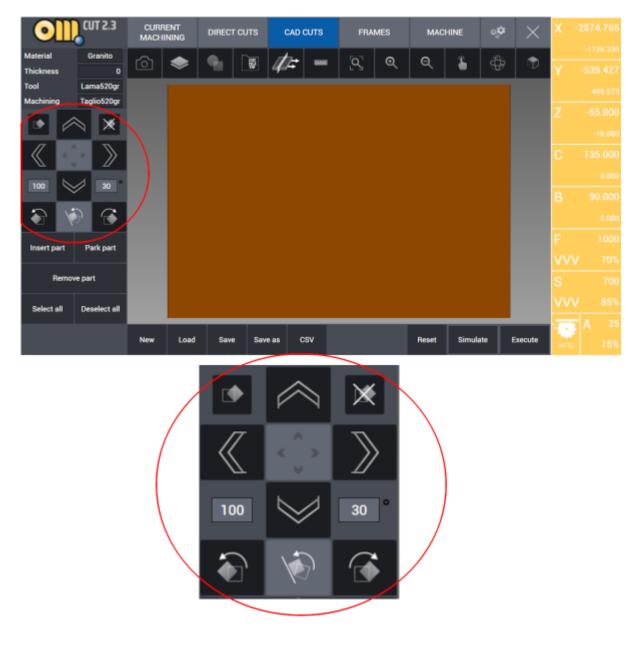


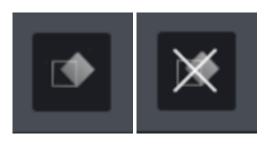
Ruler: With this button the user can make a linear measurement between two points on the table. That measure is displayed in a box at the left bottom corner of the software interface as shown on the right.

NOTE: Look to Cad View Tab for the description of the other viewing buttons.

Directional Buttons

Under the Project Specs box there is the set of directional buttons used to move the selected parts on the worktable. The movements can be linear or rotational. Let's sum up what these buttons do.





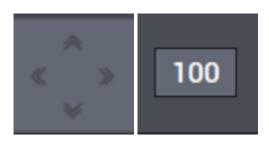
Those two buttons are used to enable or disable the auto-rotate feature for the parts of the automatic nesting. After the left one is pressed, the selected parts can rotate freely depending on the automatic

22/68

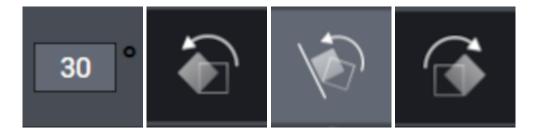
nesting choice. On the other hand, after pressing the right button the selected parts cannot be rotated by the nesting, which will organize them on the slab as they were oriented out of the worktable.



The four directional buttons allow the selected part to be moved on the X or Y axes for the distance specified in the apposite box (expressed in millimiters) down on the left for every click.

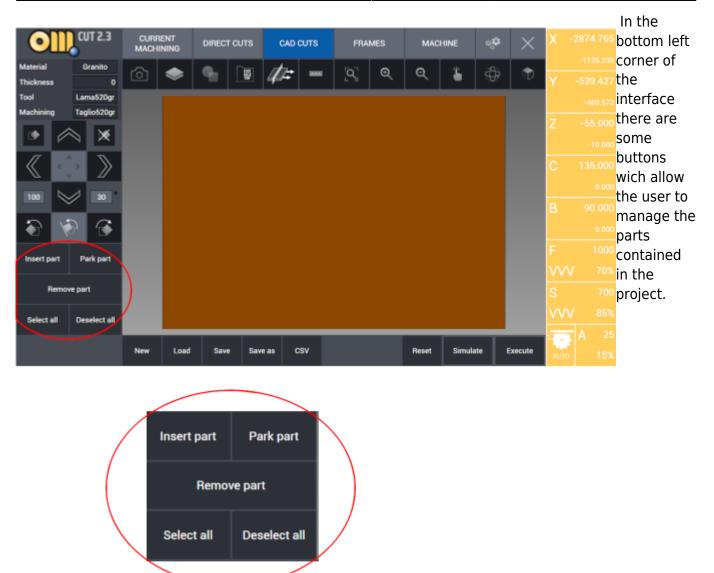


The central button allows the user to switch between two translation modes: if it is activated, when a directional button is pressed the selected part is moved on the slab to the extreme position following the button's direction. Otherwise, if that button is not active, the part is moved by the distance specified in the field on the left, expressed in millimiters, wich can be modified by the user.



This set of buttons allow the user to manage the rotations of the selected parts. In the field with the angle (expressed in grades) it will be set the desired angle of rotation. Then using the clockwise or the counter-clockwise buttons it's possible to rotate the parts. The button in light grey is used to force the magnet function between different parts, aligning a part on the side of another part.

Part Manager



- **Insert part**: this action proceed to insert a selected parked part on the slab. It works both on single parts and with multiple selection of parts.
- **Park part**: the part or parts already located on the slab can be parked outside of it by pressing this button.
- **Remove part**: All parts selected are removed from the project and therefore erased.
- **Select All**: As the label say, this button allow to select all the current parts in the project.
- **Deselect All**: The opposite of "Select All", this button will deselect any selected part if there is any.

File and Machining Management Tab

	CUT 2.3	CURF MACH		DIRECT	r cuts	CAD	CUTS	FRA	MES	MAG	HINE	¢₀ ≎	\times	X	
Material	Granito	ര	۲	e.		17:		3	Q	Q	2	\$	٦		
Thickness	0		~	_	1.19	404		1.5			-	A.	$ $ \forall	Y	
	ama520gr aglio520gr														
														Z	
$\langle \langle \rangle$	\geq													С	
100	30														
														В	
🐼 🕤	6														
Insert part	Park part													F	
														VV	
Remove p	part													s	
Select all 0	Deselect all													VV	
												. 1			
		New	Load	Sav	e Sav	eas (CSV			Reset	Simula	ite	Execute	Auto	

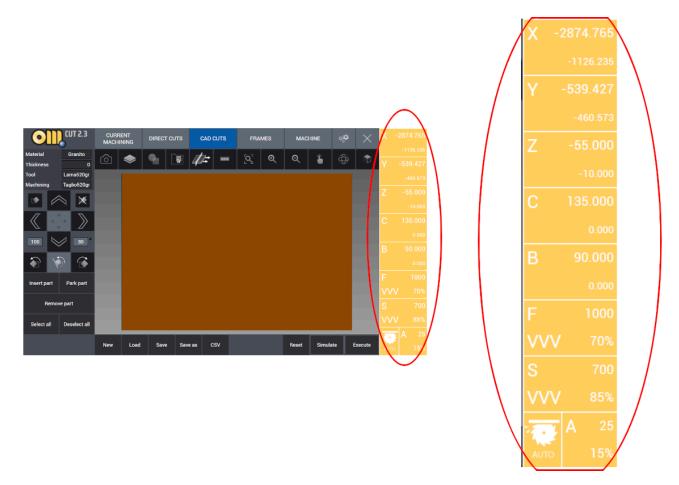


- New: Ask to the user if changes to the current project are to be saved and then close it.
- Load: Open the folder "my projects" in the OmagCUT directory and let the user choose a project to load.
- Save: Save the current open project in the current directory.
- Save as: Save the current open project as with a new name in a chosen directory.
- **CSV:** This function enables the import of parts cutting list prepared in a specific format from Excel to OmagCut.
- **Reset:** Proceed to cancel all the operations and all the parts on the table.
- **Simulate:** It enables graphic 3D simulation of machining process using the machine 3D model which reproduces the table, the motors, the blade, the tools, slab and the parts.
- **Execute:** This button starts the execution of the given cutting and machining on the work table.

WARNING: It is strongly recommended to check machine movements and cutting tool path with the simulation function before the execution of any program.

Work Parameters

There are many useful information in the right column of the interface such as machine real coordinates, movements, blade or tool feed, RPM of the machine and ampere comsumption values.



X Y Z are the instant positions of the three axes during the movements and the cut. In each box we find two values: the bigger, upper one represents the real time position, while the smaller value is the desired coordinate to reach. Those coordinates are calculated according to machine absolute zero point.

C B are the istant positions of the rotation axes, expressed in degree.

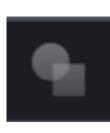
There are three more boxes under the axes ones:

- Box F: feed (millimiters / minute)
- Box S: rpm (rotations / minute)
- Box A: spindle amperes consumption.

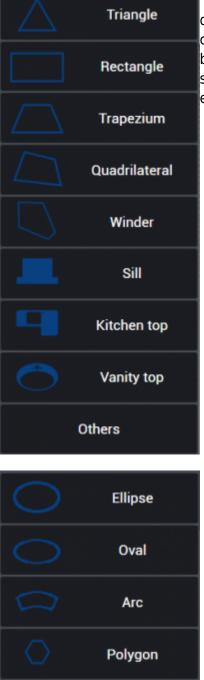
Each one of those boxes display also the relative percentage values.

HOW TO: Create parametric drawings

25/68



As we have seen, this button allows to create parametric geometries whose dimensions can be modified from the user as desired. To add them we have to click on the desired geometry.

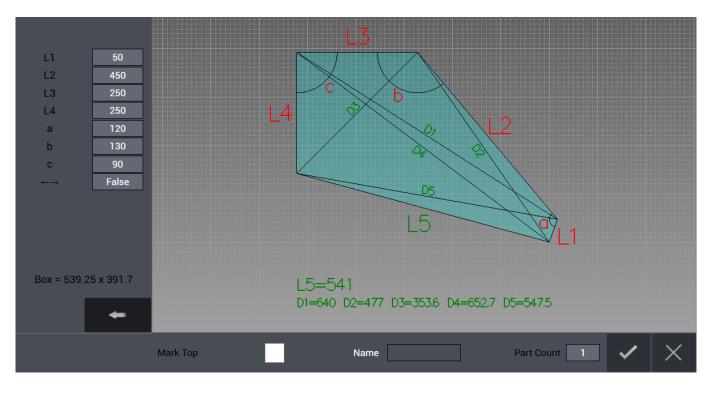


There are some geometries for which is possible to choose between differents sets of parameters in order to create them, by example you can define a triangle giving at your choice 2 segments and the angle between them or giving all three segments. While for others there is no such choice and there is a fixed set of parameters required, for example ellipses have to be defined by Height and Widht.

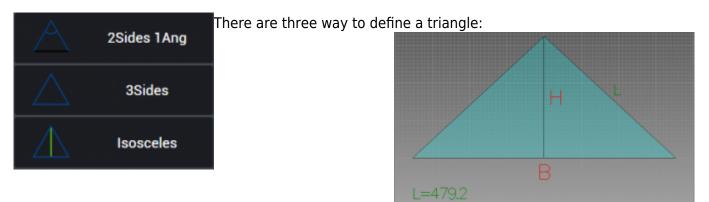
The interface for editing the parameters contains the value fields on the left: in this column it's possible to modify and specify every parameter for the desired geometry.

The geometric figure is drawn in the middle of the screen. At the bottom the user can give a name to

this part and choose the number of parts to be added in cad cuts.



Triangle



- Two sides and the angle between them.
- Three sides.
- Isosceles triangles with Base and Height.

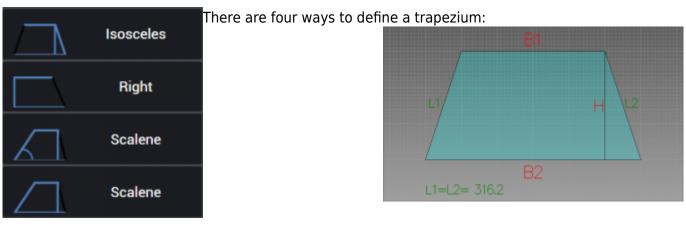
In the example we have a Isosceles Triangle.

Rectangle

28/68

The only way to generate a rectangle is by providing heig

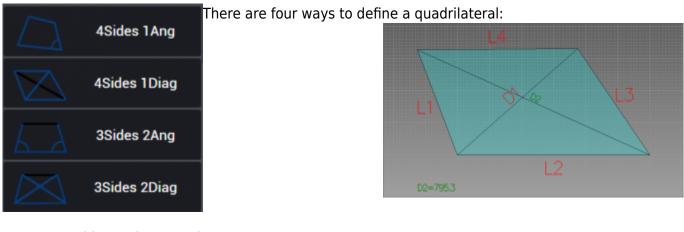
Trapezium



- Isosceles: Two bases and the height.
- Right: Two bases and the height.
- Scalene: Two bases, height and one angle
- Scalene: Two bases, height and one side.

In the example we have a Isosceles Trapezium.

Quadrilateral

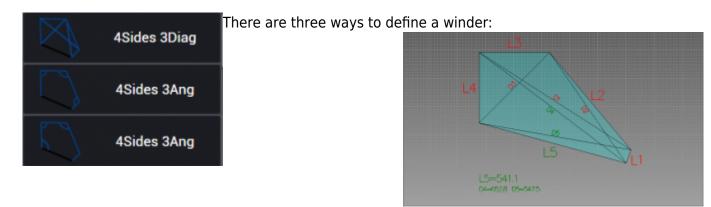


- Four sides and one angle.
- Four sides and one diagonal.
- Three sides and two angles.

• Three sides and two diagonals.

In the example we have four sides and one diagonal.

Winder

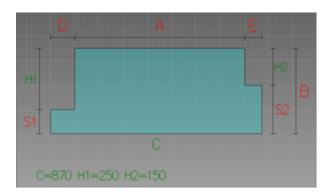


- Four sides and three diagonals.
- Four sides and three angles.
- Four sides and three angles (different from the previous).

In the example we have four sides and three diagonals

Sill

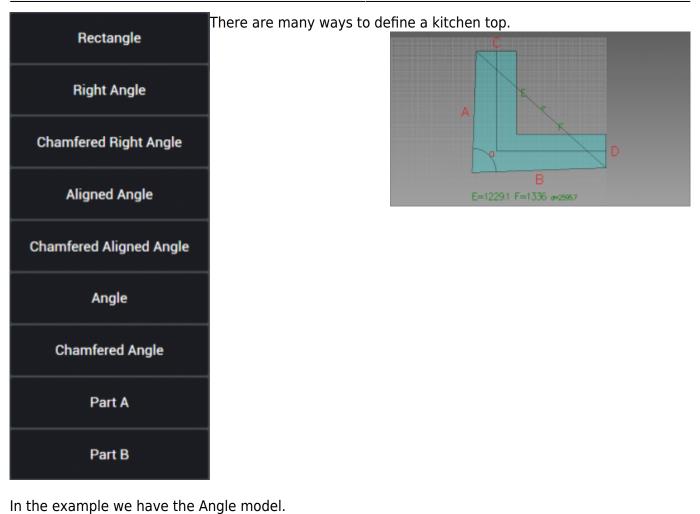
There is one way to define a sill:



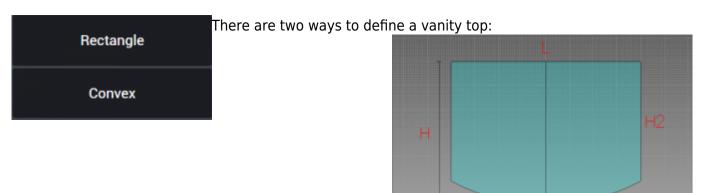
Giving it all the quotes of the different sides.

Kitchen Top

30/68



Vanity Top



- Rectangle
- Convex

In the example we have a Convex.

Ellipse

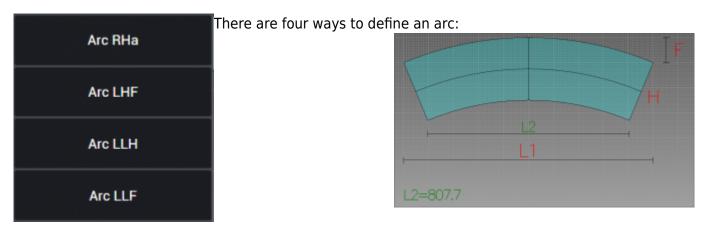
Giving it the Height and the Lenght.

Oval

There is one way to define an oval, which is composed by four biarcs:

Giving it the Height, the Lenght and the curvature parameter.

Arc

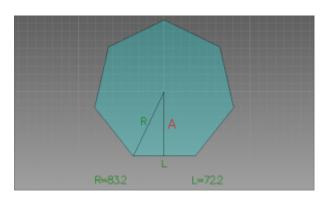


- Giving radius, height and angle
- Lenght, height and parameter F
- Base lenght, top lenght and height
- Base lenght, top lenght and parameter F

In the example we have the LHF option.

Polygon

There is one way to define an polygon:

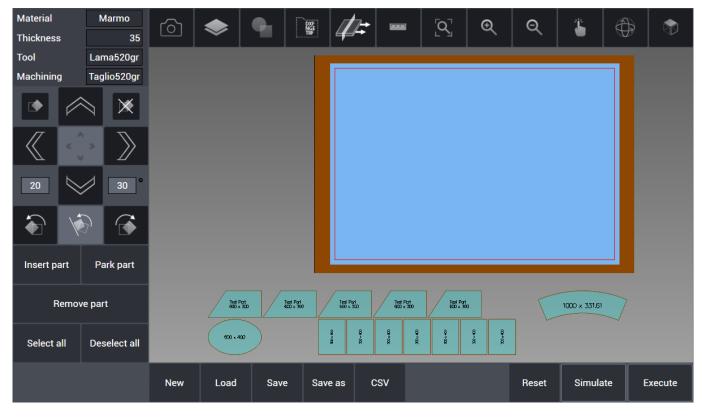


Giving it the number of sides, the height from base to the center and the radius from an angle to the center.

Parametric Drawings Examples

Before starting to cut parts it is necessary to have them positioned inside the slab on the work table.

In this example we created some geometries with the Parametric Geometries function. In the first scenario we have all those parts "parked" outside the slab and ready to be organized so the machine can cut them. To do so, use the buttons "Select all" and then "Insert part" so the automatic nesting function can optimise the position of each part. Otherwise it's possible to drag the parts one by one on the slab and position them as preferred, if necessary or if the automatic nesting will not suite the user's needs.



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Nesting Options

Whole Cuts Guard On

Nesting Whole cuts guard

Aligned

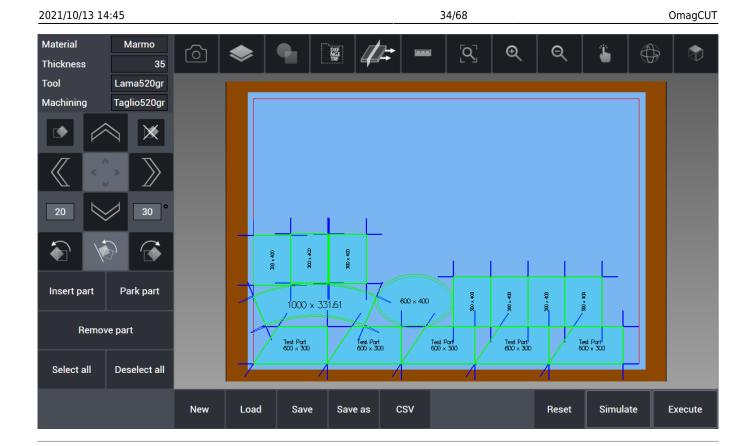
Now we have all the parts disposed on the slab ready to be cut. The blue segments coming out from each part's angle represents the cuts guard on the slab. **In the MACHINE menù** there is the Nesting box that allows to choose the machine behaviour with those cuts guards. If the box is checked every guard prevent the nesting to put another part too close and therefore prevent parts to interfere each

others during the cut:

Material Marmo Ð Q 欶 Q ٢Ô 35 Thickness Tool Lama520gr Machining Taglio520gr \boxtimes 8 300 × 400 300 x 400 â -00 * 400 00 × 400 00 * 400 00,400 600 x 400 Insert part Park part 1000 x 331.61 Remove part Test Part 600 x 300 Select all Deselect all csv Reset New Load Save Save as Simulate Execute

Whole Cuts Guard Off

Nesting Whole cuts guard Aligned Now to show the different behaviour of the automatic nesting with the Whole cuts guard option (**MACHINE Menu**) unchecked: the parts are put close to each other without regard for the cuts guards. This can be useful for saving slab material but it is necessary to perform cuts to separate the slab in different parts before doint it so the cuts will not damage the other parts to be cut.



HOW TO: Managing the Machining



We have seen that with the option "Whole Cuts Guard" unchecked the nesting put the parts on the slab each one close to the others to save space on the slab. But this procedure can cause troubles because of the external cuts of the parts on the others. To avoid this problem the user can separate the slab in various parts and set specific movements of those parts with the vacuum in order to create the space needed to avoid cuts problems over other parts.

Material Thickness	MARMI 35	\bigcirc		۹	¥	-	[Q]	Q	Q	۽ ۾	€ ♦	In the example we have some
Tool Machining	Saw450 Mar marble blade											rectangles
			-									and trapezium and the
			-									"Whole cuts
20	30 °		_		,							guard" checkbox is
	6				Test Part 600 + 300	Ted. Part 600 + 30						turned off.
			-	- /								As we can
Insert part	Park part		-		1est Par 600 - 300	Test Part 000 + 30	°					see there are many
Remo	we part			B I		B 102						cuts that
Select all	Deselect all							P				overlap with other
		New	Load	Save	Save as	csv			Reset	Simulate	Execute	parts. In order to

35/68

OmagCUT

perform this machining we will need to separate the slab in different parts and move them with a specific distance so the cuts will not ruin the other parts. We enter in the Machining managing section and we can set how the cuts will be performed.

HOW TO: Configure the cuts

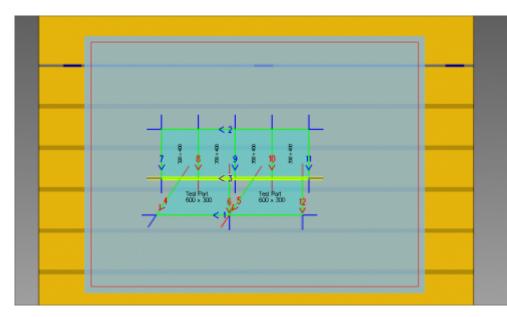
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	_	_							
Sawing	1								
Sawing 2	2			t					
Sawing	3			_					
Sawing 4									
Sawing 5									
Sawing 6									
Sawing	7								
Sawing 8	B								
Sawing 9	9								
Sawing '	10								
Sawing	11								
~	\searrow								
On/Off	AII	All On		Off					
Extend/ Reduce	Start Re	Ext/ ed	End Ext/ Red						

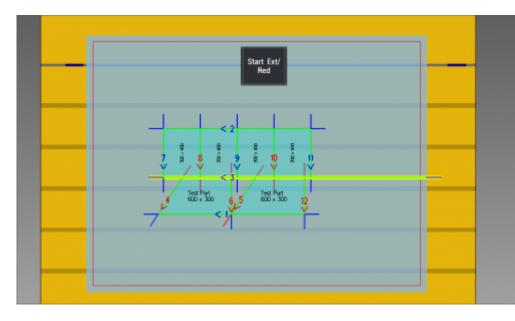
In this box located on the left of the interface are shown the saw cuts numerated (Sawing 1, Sawing 1, ...). The sawing order can be modified by using the directional arrow buttons, depending on the preference of the user.

OmagCUT

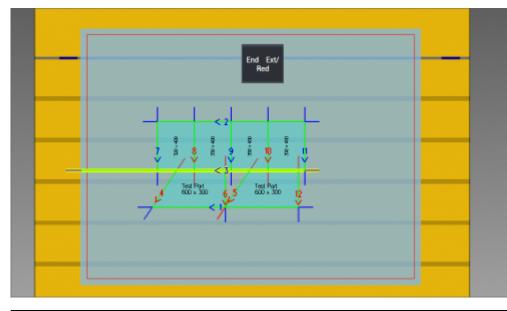
- **On/Off:** When clicked it deactivate the selected saw cut. Deactivated saw cuts are not performed until they become active by clicking again this button.
- All On: All saw cuts are activated to be executed.
- All Off: All saw cuts are deactivated and will not be executed.



By clicking on the cut 3 it will become selected as in the image. His borders become highlighted in yellow and it is possible now to modify the cut as needed. **Extend/Reduce:** This button allows for extending or reducing the selected saw cut all along the slab, making it starting and ending outside the slab. In this way the slab become divided in two smaller parts that will allow to reduce interference between cuts and parts to be cut.



Start Ext/Red: Similar to the Extend/Reduce, but this button only works on the cut from the starting point to outside the slab.



End Ext/Red: Same as Start Ext/Red with the only difference being it does connect the end of the cut (and not the start) to the outside of the slab.

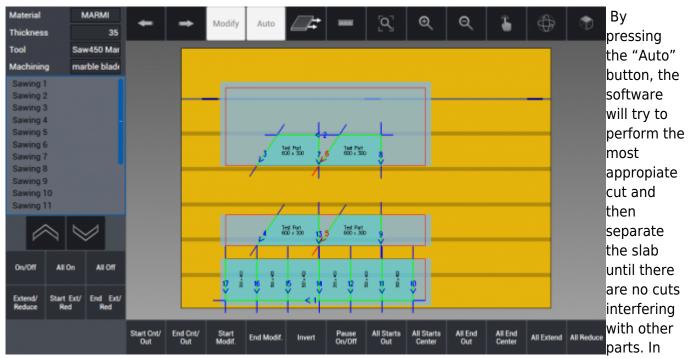
38/68

Sawing Management Buttons

At the bottom of this interface, when managing the cuts, there are those buttons:

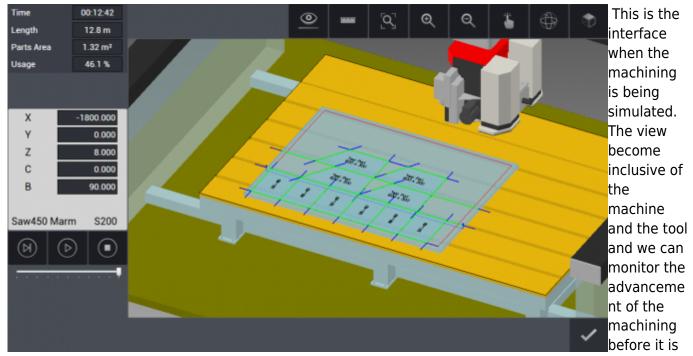
Start Cnt/ Out	End Cnt/ Out	Start Modif.	End Modif.	Invert	Pause On/Off	All Starts Out	All Starts Center	All End Out	All End Center	All Extend	All Reduce
-------------------	-----------------	-----------------	------------	--------	-----------------	-------------------	----------------------	----------------	-------------------	------------	------------

- Start Cnt/Out: The saw starts to cut directly from its center over the starting point of the line.
- End Cnt/Out: The saw starts the cut directly from its center over the ending point of the line.
- Start Modif.: The user can modify the distance at which the saw starts to cut.
- End Modif.: The user can modify the distance at which the saw ends to cut.
- Invert: It's possible to invert the cutting direction
- Pause On/Off: The machining will pause at the selected cut.
- All starts out: The saw starts every cut directly from its outside over the starting point of the line.
- All starts center: The saw starts every cut directly from its center over the starting point of the line.
- All end out: The saw ends every cut directly from its outside over the ending point of the line.
- All end center: The saw ends every cut directly from its center over the ending point of the line.
- **All Extend:** Extend to the whole slab every possible cut. Cuts that damage other parts will not be affected.
- All Reduce: Reduce every possible cut to start and end at center of the saw.



the example, there will be done two separating cuts before the others. The vacuum movement system will move the separated parts at a set distance between each others.

Simulating the Machining



executed.

Simulation Info

Time	0	0:14:56				
Length		17.6 m				
Parts Area	1	.56 m²				
Usage		21.5 %				
Х	-13	362.173				
Y	-{	-846.289				
Z	-323.019					
С	161.385					
В		90.000				
G1		F2500				
Saw450 M	larm	S200				
	(\triangleright)					
		· · · •				

_ This is the left column during the simulation of the machining:

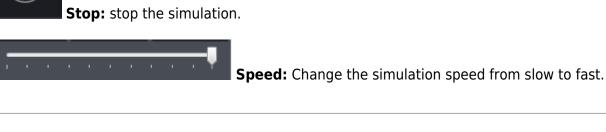
- **Time:** estimated machining time from start to finish.
- Lenght: Total cuts lenght on the slab.
- Parts area: Total cut parts surface.
- **Usage:** Percentage given by the surface of the cut parts to the total slab surface.
- X Y Z: Istant positions of the tool on the three main axis.
- C B: Istant angles of the axis C and B.
- **G1:** ISO Code of the current machining.
- F2500: Current feed: 2500 mm/min.
- Saw450 Marm: Equipped tool.
- S200: Rotation speed of the tool (200 rpm).

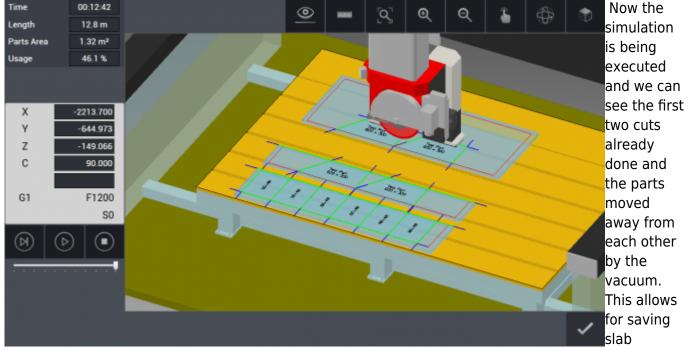


Next step: simulate only the current tool step.



Play: start the simulation at the selected speed.





materials without damaging the parts with the cuts.

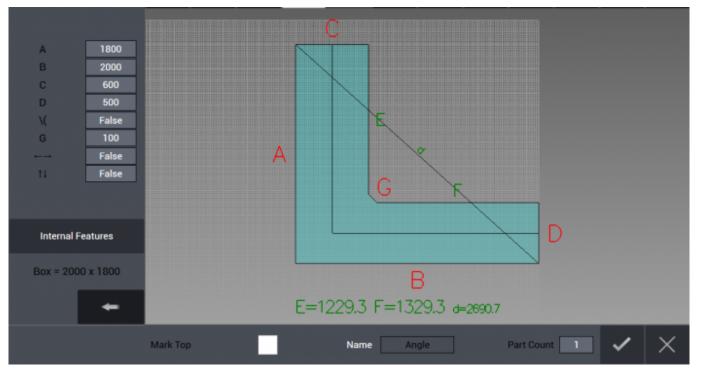
HOW TO: Add internal features to parts

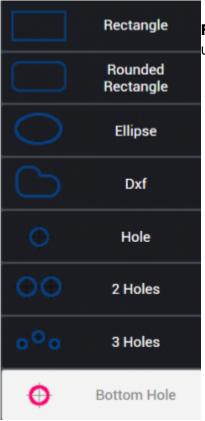
Internal Features

When drawing kitchen and vanity top it is possible to add an internal shape or feature to be cut, depending on the application of that part. By example, kitchen tops can have a rectangle cut in them in order to accomodate a stove top or a washbasin.



41/68



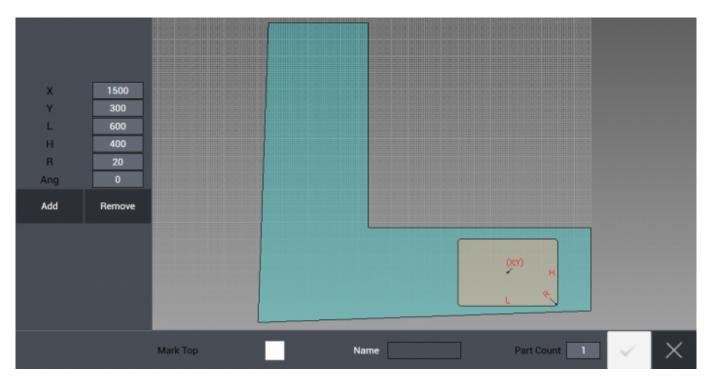


On the left column below the parametric values there is the **Internal Features** button. By pressing it the Internal Menù will open and the user can choose between different shapes to be cut:

- Rectangle
- Rounded Rectangle
- Ellipse
- Dxf (from file)
- Hole (single)
- Two Holes
- Three Holes
- Bottom Hole

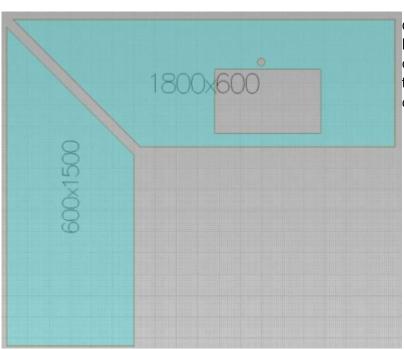
NOTE: Bottom Hole choice is only available if the machine supports it.

After choosing the shape it is necessary to specify the position on the part and the dimension. This is done thanks to the parameter fields in the left column as shown in the image below. It is possible to add more than one feature on a single part. When the feature is correctly positioned the user press the "Add" button to confirm it.





HOW TO: Drilling and cutting sink with 90° corners



When cutting sink, if sink is rectangular or square with 90° corners, since saw blade is not sufficient to complete the cut, corners are first drilled with drill tools and then sides in between the corners can be cut with saw blade.

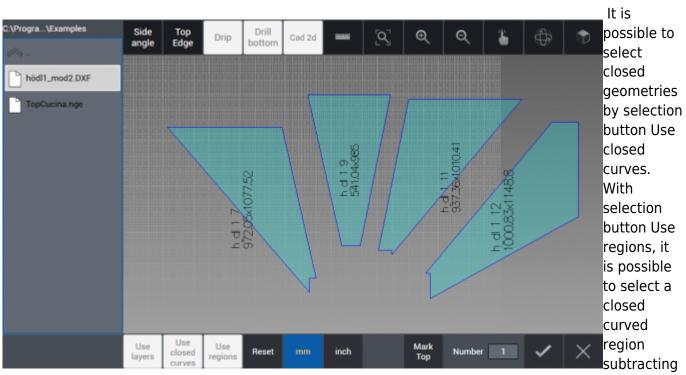
Saw blade, auxiliary machining type (only drilling in this case), already defined drill tools that will be used to work the project are selected from the window menu and confirmed. In this example, since sink corners are 90°, saw blade can not enter directly to corners. Therefore, corners are drilled by drill tools so that a much closer result to squareness can be reached.

Holes and Milling parameters

-Holes parameters	
Holes offset	2
Holes overlap	2
Holes toler.	-20
Single hole in corner	
– Millings paramete	rs
Always on corners	
Always on sinks	\checkmark
Shortening	0

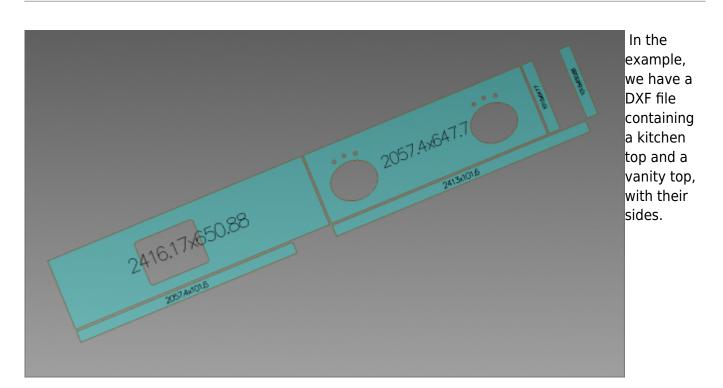
Under Machine tab, in section Machine data if the checkbox is removed from Single hole in corner, program drills several holes in sequence with respect to parameters defined above instead of drilling a single hole. When doing so it's strongly reccomended to simulate the machining before executing it, as always. By pressing on Simulation button, drilling and saw cutting paths, machine movements are verified and checked in 3D and after each check is realized it's possible to start the machining by pressing Execute.

HOW TO: Add shapes from DXF files



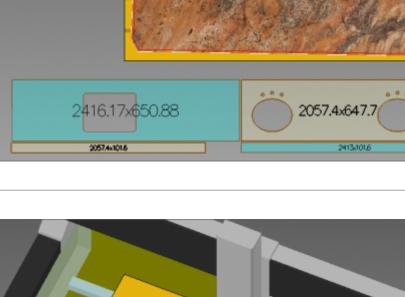
any regions defines by closed curves inside. If there is none internal closed curve within a curve, all geometry is selected as a whole. If preferred, by clicking on Side angle button, parts can be selected one by one and angle values can be assigned to each side of the geometry selected.

By clicking on the button with tick icon on low right corner of the page, operation is confirmed and all the parts are added to cutting list as can be seen under work table on main page.

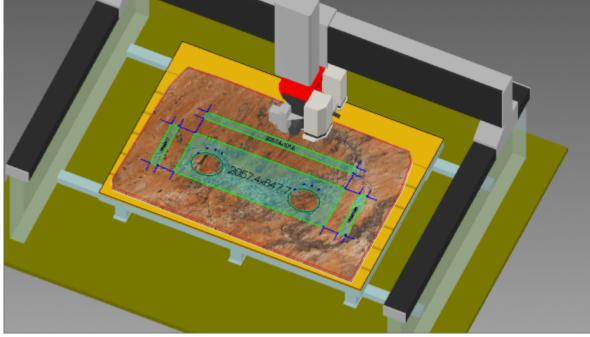


By pressing the Confirm button we import them in our project, then we will place them on the slab in order to have them cut.

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In this scenario we want to cut only the vanity top and its sides. We select it (note the selected shape's color is different) and we add onto the slab.

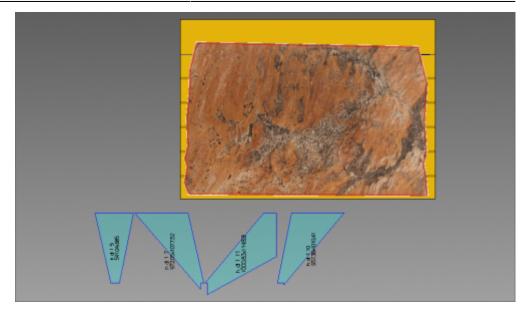


Now the desired parts are disposed on the slab and we are going to simulate the machinery. lt's very important to simulate before every execution to check if everything

will work without problems.

HOW TO: use Vein Match

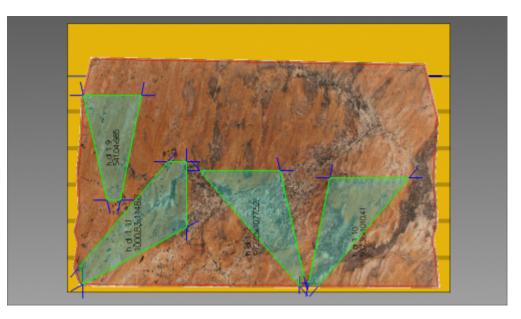


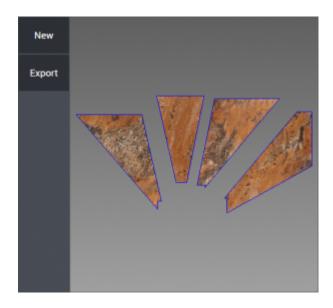


Vein Match allows the positioning of the parts to be cut inside the slab with respect to the veins of the slab using the Camera (Omag Fast Image).

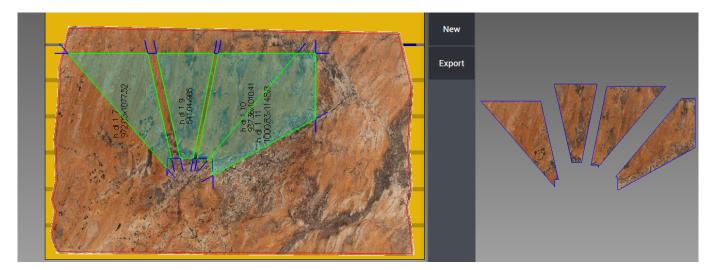
In OMAGCUT programs that include the Vein Match option it is possible to combine the veins between different cuts of slabs and projects. The slab is positioned and its veins photographed on the work surface, then the parts of the project or project on which to match the veins are selected and transported to the main page as a cutting list.

As first step, import at least one part using DXF import function. In the example we have four parts to be cut and we insert them on the slab using the Insert All button:





Once the parts are positioned in the slab we press the Vein Match button and in the window that opens you can see the part or parts to be cut organized on the slab.



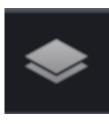
At this point, click again on the button at the bottom of the page and all parts of the project are displayed in the window that opens.

Since the part or parts that are cut from the first slab are kept in the window that opens, it is possible to see the parts that need to be cut on the second slab and, taking into account the correspondence of the veins, they can be moved within the slab.

The Vein Match window can be enlarged and reduced, and the position of the parts to be cut can be changed by dragging them on the slab as usual: the Vein Match window will display the effective veins on the parts that will be cut.

Frames

In this section it's possible to import DXF format files containing a frame profile. It can be worked parametrically along X or Y axes. The import is done by pressing "Section" button on the left column. It is possible to choose a .dxf file containing a frame section.

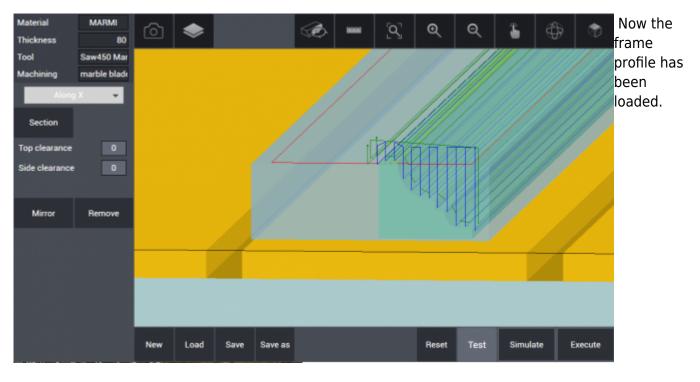


It's necessary as usual to perform a **Raw Stock Definition:** See How To: Define New Raw Slab to define the raw slab.

Importing frame profile

\DxfNge_Saw_Cor	Top Edge	Drip	Drill bottom	Cad 2d		୍ଦ୍ର	Q	Q	\$ \$	٩	Now we are
prof6.dxf											browsing the folder
prof7.dxf											containing
prof8.dxf											our desired
ProfileSeha2.dxf											.dxf file (used to
Sezione01.dxf											load the
Sezione02.dxf											frame
Sezione03.dxf											profile). Once it is
Sezione04.dxf											selected, it
Sezione05.dxf											is loaded in
Sezione06.dxf											the current project by
				mm	inch				~	×	pressing the

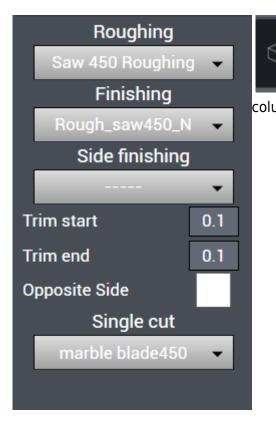
confirmation button on the bottom right of the interface.



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- We can choose to work it Along X axis or Along Y axis to change its orientation on the work table.
- **Top clearance:** the portion exempted from cut along Z axis from top plane of the profile.
- Side clearance: the portion exempted from cut along Z axis from top plane of the profile.

Frame Machining Setup



By clicking the **Frame Machining** icon a new left column menù appears:

- **Roughing** is the menu from where the saw blade defined for this operation is selected. Step cut and step size of saw blade are defined in Machining database under the tab Machine (look further subjects).
- **Finishing** is the menu from where the saw blade defined for this operation is selected. Step cut and step size of saw blade are defined in Machining database under the tab Machine (look further subjects).
- **Side finishing** is the menu from where the saw blade defined for this operation is selected. Step cut and step size of saw blade are defined in Machining database under the tab Machine (look further subjects).
- **Trim start** defines how much from front the saw blade will start the cut, as an example if entered 10 mm, the saw blade starts the cut from 10 mm inside the profile.
- **Trim end** defines how much before the end the saw blade will exit the cut, as an example if entered 10 mm, the saw blade exits the cut 10 mm before the end of profile.
- **Single cut** menu lets select from one to two way cutting methods.

When the parameters are correctly set, it's possible and reccomended to **Simulate** the machining in order to verify the machine movements. After this check is done the machining can be started by pressing the **Execute** button.

2021/10/13 14:45 51/68	OmagCUT
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Machine

In this tab the user can manage most settings of the machine and the tools. Saw, drilling and milling tools are defined according to their dimensions, feed, speed with respect to material type and parameters. For each tool is possible to define different cutting scenarios.

Machine Data

The first section under Machine Menù is "Machine Data". Here it is possible to define the current tools and machinings as well as Machine parameters, Nesting options and other tools parameters: Saw, Holes, Milling and Engraving parameters.

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		irrent dif Chining	DIRECT CUTS CAD		CUTS	TS FRAMES		MACHINE	0 00	\times	
Machine data	Tool DB	Machining DB	Polishing D	B	Machine						
- Current tools Current s Lama5	sawblade 20gr 🗸	Machinings – Sawing	Taglio		– Saw para Cut safety Corner saf Ext arc min	fety	2 4 400				
Set	tup	Milling	Fresatu	ıraD20	Int arc ma Holes pa Holes offs Holes over	rameters et	45				
_ Materials		Machine para	ameters		Holes tole	r.	-20	– Engra	iving para	meters —	
Marmo		Safe Z	5	0	Single hole	e in corner		Use M	ill	\checkmark	
Granito		Overtable heigh Nesting Whole cuts gua		0	Millings Always on Always on Shortening	sinks	rs 0	Depth Width		0	
New	Delete	Aligned		✓	Direct cu Final home			Washi	ng	✓	

- **Current tools**: From Current sawblade menu the saw mounted on the machine or the saw to be used is selected and its related parameters are entered.
- **Setup** : When clicked on Setup button, if machine has auomatic tool change option Automatic or Manual is selected from low left corner of the page that opens:

Machine data	Tool DB	Machining DB	Polishing DB	Machine	
Drillbit				Drill35	
router20 grani	t			Mill 20	T2
				marmo	
					✓ ×

In left menu, there are drilling and milling tools that are already defined. If there is automatic tool

change, the tools on left window are dragged to the pod number on right window where they are located really on tool magazine. When time comes to use the tool, either the machine picks up the tool from tool magazine or spindle comes to front for manual attachment.

2021/10/13 14:45



Materials : In Materials menu, all types of materials can be entered and later same or different types of saw blades can be assigned to a material with working parameters specific to that material.

Machinings

- **Sawing**: Display the current Sawing tool
- **Milling**: Display the current milling tool

Machine parameters

- Safe Z : Safe approach value in vertical Z.
- **Overtable height** : Height of shim or wood measured over top of work table.

Nesting

- Whole cuts guard : Preference of whole cuts guard
- Aligned : Preference of nesting with magnetic attachment function active

Saw parameter

- **Cut safety** : Safe height value over material from where cut starts.
- Corner safety : Safe approach value to a corner
- Ext arc min R : Minimum radius value of external arc that can be cut
- Int arc max A : Internal arc maximum angle value

Holes parameters

- Holes offset : Offset value of hole or holes from corner
- Holes overlap: Overlap value of holes in case more than one hole
- Holes toler. : Hole tolerance value
- **Single hole in corner** : Preference of only one single hole to be drilled in corners

Milling parameters

- Always on corners : Preference of milling always on corners
- Always on sinks : Preference of milling always on sinks
- Shortening : Amount of distance value to be shortened on milling path

Direct cuts

• Final home : Preference of return to home position after cut

Engraving Parameters

- Use Mill: Choose to use or not use Milling tools for engraving.
- **Depth**: Maximum Depth of the engravings.
- Width: Width of the engravings.

Washing : Preference of washing before vacuum lifting operation of parts

Tool DB

Under the Tool DB it is possible to declare, modify and add any tool we are going to use:

56/68

- Sawblade
- Drillbit
- Mill
- Polishing Wheel

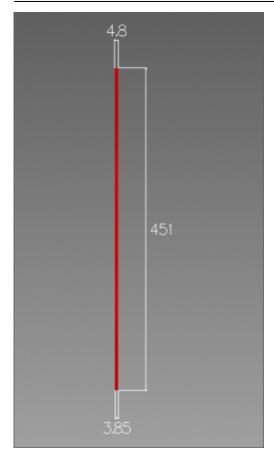
for each tool is then possible to configure its parameters: dimension, speed, feed and position.

	:UT 2.3	CURRENT MACHINING	DIRECT CUTS	CAD CUTS	FRAMES	MACHINE	°°¢	\times
Machine data	Tool I	DB Machining	DB Polishing I	DB Machine				
⊿ 📂 Sawblade		Name	Lama520gr	Position	T14		4.4	
Lama520gr		Speed						
Lama760GR		Standard	1200	Maximum	1300			
Lama900		Feed Standard	2000	Тір	200			
Sawblade		Lead in	1500	Lead out	1000			
Drillbit		Coolant	Outer 🗸					
D 📂 Mill		Over material						
Polishingwl	neel	Radial	0	Longitudinal	0		5	19
		Max depth	210					
		Max power	20	Min feed	200			
						152.453		
New Save	Delete							

In the bottome left there are buttons wich make possible to define a new tool.

By clicking on **New** button a page for Sawblade parameters is opened on right side. By clicking **Save** it is saved and by clicking **Delete** the selected tool is deleted.





SAWBLADE

- Name : Name of saw blade is entered.
- **Position** : Saw blade position number, if it is on a tool magazine, magazine pod number is entered.

Speed

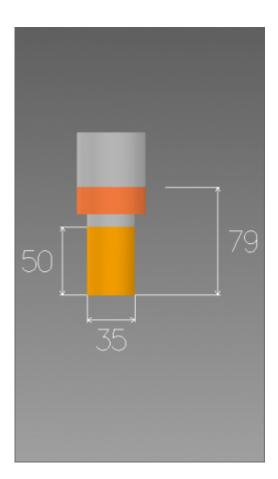
- **Standard** : Working rpm (rotations / minute) value is entered.
- Maximum : Maximum rpm (rotations / minute) value is entered.

Feed

- **Standard** : Work feed value (mm / minute)
- Tip : Head feed value (mm / minute)
- Lead in : Lead in feed value (mm / minute)
- Lead out: Lead out feed value (mm / minute)
- Coolant : No / Outer coolant preference

Over material

- Radial : Excess material thickness deliberately left on the piece in a radial direction
- Longitudinal : Excess material thickness deliberately left on the piece in a longitudinal direction
- Max depth : Maximum thickness value that saw blade can cut (mm).
- Max power : Maximum amperes consumption allowed.
- Min feed : Minimum feed value (mm / minute)



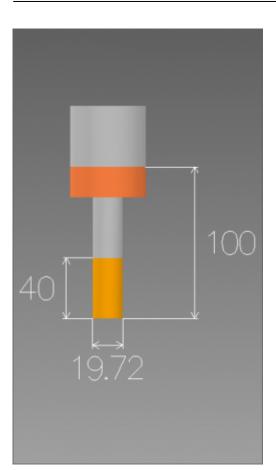
DRILLBIT

Name : Name of drill is entered. Speed

- Standard : Working rpm (rotations / minute) value is entered.
- Maximum : Maximum rpm (rotations / minute) value is entered.

Feed

- Standard : Work feed value (mm / minute)
- Tip : Head feed value (mm / minute)
- Lead in : Lead in feed value (mm / minute)
- Lead out: Lead out feed value (mm / minute)
- Coolant : No / Inner / Outer / Both coolant preference
- Max power : Maximum amperes consumption allowed.
- Min feed : Minimum feed value (mm / minute)



MILL

Name : Name of milling tool is entered.

Speed

- Standard : Working rpm (rotations / minute) value is entered.
- Maximum : Maximum rpm (rotations / minute) value is entered.

Feed

- Standard : Work feed value (mm / minute)
- Tip : Head feed value (mm / minute)
- Lead in : Lead in feed value (mm / minute)
- Lead out: Lead out feed value (mm / minute)
- Coolant : No / Inner / Outer / Both coolant preference

Over material

- Radial : Excess material thickness deliberately left on the piece in a radial direction
- **Longitudinal** : Excess material thickness deliberately left on the piece in a longitudinal direction
- Max power : Maximum amperes consumption allowed
- Min feed : Minimum feed value (mm / minute)

Machining DB

The Machining DB page allow the definition of different kind of Machining. For each type there is a different set of parameters that can be defined, along with the suitable material for that machining.

SAWING

O	CURRENT MACHINING	DIRECT CUTS	CAD CUTS	FRAMES	MACHINE	** * ×
Machine data Tool I	DB Machining	DB Polishing [DB Machine			
A Sawing	Name	Taglio520gr			Tool	Lama520gr 👻
Taglio520gr	Depth	RB+1	Side angle	0	Speed	1200
Taglio760GR Taglio900	Step type	Zig Zag 🛛 👻	Invert		Feed Standard	2500
 Drilling	Mach. side	Right 🗸	Head side	Right 🔻	Тір	200
Milling	Start position	20	Lead in	Center 👻	Lead in	1500
Saw Roughing	Link	Centered 🔻	Lead out	Center 🗸	Lead out	1000
	Depth step				Last backward	600
Saw Finishing	Forward	120	Backward	120	Side angle cuts	2000
	Tilted	10	Tilted back	10		
	Inner arc	100	Outer arc	200		
	Last cut	120				
	Marmo					
	Granito					
New Save Delete	Min thickness	0	Max thickness	210		

- Name : Name of machining is entered.
- **Depth** : RB is automatically the thickness value of the part to be cut which is normally cutting depth in mm. RB+2 means cutting depth will be 2 mm more in addition to thickness of the part.
- **Side angle** : Different than the side angle that can be assigned parametrically, a specific side angle value can be assigned to machining.
- Step type : Zigzag One way Back and forth type cutting can be selected for the machining.
- Invert : It inverts direction of motor during cutting.
- Mach. side : It selects cutting side of saw blade, Center Left Right can be selected.
- Head side : Head side of cutting, Left Right can be selected.
- Start position : Distance value over the material where the cut starts.
- Lead in type : Centered Inner Outer Cent. Extended Outer Extended Lead in types can be selected.
- Link type : Centered Prev Extended Next Extended Both Extended link types between cutting paths can be selected.
- Lead out type : Centered Inner Outer Lead out types can be selected.

Depth step

- Forward : It is forward step value in mm in step cutting.
- **Backward** : It is backwards step value in mm in step cutting.

- **Tilted** : It is forward step value in mm in angle step cutting.
- Tilted back : It is backwards step value in mm in angle step cutting.
- Inner arc : Inner arc step cutting value in mm.
- **Outer arc** : Outer arc step cutting value in mm.
- Material : Material type which machining is assigned to.
- Min thickness: Minimum cutting thickness
- Max thickness: Maximum cutting thickness
- **Tool** : Tool which machining is assigned to.
- **Speed** : Working rpm (rotations / minute) value is entered.

Feed

- **Standard** : Work feed value (mm / minute)
- Tip : Head feed value (mm / minute)
- Lead in : Lead in feed value (mm / minute)
- Lead out: Lead out feed value (mm / minute)
- Last backward : last cut backwards feed value (mm / minute)

DRILLING

Machine data Tool I	DB Machining DB	Polishing DB Machine			
⊿ 뻵 Sawing	Name Dri	IID35		Tool	Drill35 👻
Saw470 Granit	Depth	RB		Speed	2500
marble blade450	Start position	15 Additional depth	0	Feed Standard	75
marble blade600	Slowing length			L	
Drilling	Starting	0 Ending		Тір	75
DrillD20	Depth step	0 Return position	0	Lead in	75
DrillD35				Lead out	250
Dilling					
Saw Roughing					
Saw Finishing					
	GRANITE MARMI ***				
New Save Delete	Min thickness	0 Max thickness	55		

- Name : Name of machining is entered.
- **Depth** : RB is automatically the thickness value of the part to be cut which is normally drilling depth in mm. RB+1 means drilling depth will be 1 mm more in addition to thickness of the part.
- Start position : Height value over the material where the drill feed starts.
- Additional depth : It is the additional depth value the drill continues under the slab.

Slowing length

- Starting : It indicates the distance with slow feed at start of the drill.
- **Ending** : It indicates the distance to the end of drill with slow feed.
- **Depth step** : If drilling is step, it indicates the drill step value, if there is no step, value is entered 0.
- **Return position** : If drilling is step, it indicates upwards movement value of drill before next step.
- Material : Material type which machining is assigned to.
- Min thickness: Minimum drilling thickness
- Max thickness: Maximum drilling thickness
- **Tool** : Tool which machining is assigned to.
- **Speed** : Working rpm (rotations / minute) value is entered.

Feed

- Standard : Work feed value (mm / minute)
- Tip : Head feed value (mm / minute)
- Lead in : Lead in feed value (mm / minute)
- Lead out: Lead out feed value (mm / minute)

MILLING

Machin	e data	Tool 🛙)В	Machining	DB	Polishing D	B Machin	e			
⊿ 📂 S	awing		Name			MillD16				Tool	Mill 20 marmo
Saw	470 Granit		Depth			RB				Speed	4000
mar	ble blade45	50								Feed	
mar	ble blade60	0								Standard	1000
⊿ 📂 D	rilling		Mach.	side		Right 👻				Тір	300
Drill	D20		Start p	osition		20	Lead in		None 👻	Lead in	500
Drill	D35						Lead out		None 👻	Lead out	1000
1 📄 🕨	filling										
Mill	D16		Dept								
mill	20 marmo		Standa	ard		2					
rout	er20 granit										
> 📂 S	aw Roughii	ng	GRAN	IITE	_						
Saw Finishing			MARI								
New	Save	Delete	Min th	ickness		0	Max thickness		40		

- **Name** : Name of machining is entered.
- **Depth** : RB is automatically the thickness value of the part to be cut which is normally milling depth in mm. RB+1 means milling depth will be 1 mm more in addition to thickness of the part.
- Mach. side : It selects cutting side of milling tool, Center Left Right can be selected.
- Start position : Height value over the material where the mill feed starts.
- Lead in type : Centered Inner Outer Cent. Extended Outer Extended Lead in types can be selected.

Depth step

- **Standard**: If milling is step, it indicates the milling step value, if there is no step, value is entered 0.
- **Material** : Material type which machining is assigned to.
- Min thickness: Minimum milling thickness
- Max thickness: Maximum milling thickness
- **Tool** : Tool which machining is assigned to.
- **Speed** : Working rpm (rotations / minute) value is entered.

Feed

- Standard : Work feed value (mm / minute)
- **Tip** : Head feed value (mm / minute)
- Lead in : Lead in feed value (mm / minute)
- Lead out: Lead out feed value (mm / minute)

SAW ROUGHING

Machir	ne data	Tool D)B	Machining	DB	Polishing D	B Machine			
s 📂 ک	Sawing		Name		Saw 4	470 Roughing			Tool	Saw470 Granit ▼
Saw	v470 Granit		Depth			RB			Speed	1500
mar	rble blade450)	Step ty	/pe	Z	ig Zag 👻			Feed	
mar	rble blade600)			_				Standard	3000
a 📂 ۵	Drilling						Head side	Left 👻	Тір	180
Drill	ID20		Start p	osition		20	Link	Outer 🗸	Lead in	650
Drill	ID35								Lead out	2000
4 🍋 🛚	Milling		Step						Over material —	
Mill	D16		Down			50	Side	3.8	Radial	3
	20 marmo								Longitudinal	3
rout	ter20 granit									
⊿ 📂 S	Saw Roughing	9	GRAN	ШТЕ						
Saw	v 450 Roughi	ng	MAR							
Saw	v 470 Roughi	ng	***							
New	Save	Delete	Min th	ickness		0	Max thickness	120		
THE W	ouve	Delete								

- Name : Name of machining is entered.
- **Depth** : RB is automatically the thickness value of the part to be cut which is normally sawing depth in mm. RB+1 means sawing depth will be 1 mm more in addition to thickness of the part.
- **Step type** : Zigzag One way Back and forth type cutting can be selected for the machining.
- Head side : Head side of cutting, Left Right can be selected.
- Start position : Distance value over the material where the cut starts.
- Link type : Centered Prev Extended Next Extended Both Extended link types between

cutting paths can be selected.

Step

- **Down** : Downwards Z step value in mm in saw roughing.
- Side : Side roughing step value in mm in saw roughing.
- Material : Material type which machining is assigned to.
- Min thickness: Minimum cutting thickness
- Max thickness: Maximum cutting thickness
- **Tool** : Tool which machining is assigned to.
- Speed : Working rpm (rotations / minute) value is entered.

Feed

- Standard : Work feed value (mm / minute)
- Tip : Head feed value (mm / minute)
- Lead in : Lead in feed value (mm / minute)
- Lead out: Lead out feed value (mm / minute)

Over material

SAW FINISHING

- Radial : Excess material thickness deliberately left on the piece in a radial direction
- Longitudinal : Excess material thickness deliberately left on the piece in a longitudinal direction

Machine d	lata	Tool D	ЭB	Machining	DB	Polishing	DB	Machine				
MillD16	5		Name		Finisł	n_saw470_N					Tool	Saw470 Granit
mill20 r	marmo		Depth			RB	Side				Speed	1500
router2	:0 granit		Step ty	ре	Zi	g Zag 🛛 👻	Invert				Feed	
⊿ ┢ Saw	Roughing				_			-:	1 - 6		Standard	1300
Saw 45	i0 Roughir	ng					Head	side	Left	-	Тір	180
Saw 47	0 Roughir	ng	Start p	osition		100	Link		Non	е 👻	Lead in	650
Saw 60	0 Roughir	 1g									Lead out	2000
⊿ 🍋 Saw	Finishing		Step								Vertical	1300
	Saw470_S		Down			30	Side		2	2	Over material	
											Radial	0
Finish_S	Saw600_S	Side -										
Finish_	.saw470_N	1										
Finish_s	saw600_N	1	GRAN	IITE								
Rough2_saw450_N		MARI										
	_saw450_1	N	***									
			Min th	ickness		0	Max t	hickness	28	80		
New	Save	Delete										

- Name : Name of machining is entered.
- Depth : RB is automatically the thickness value of the part to be cut which is normally sawing

depth in mm. RB+1 means sawing depth will be 1 mm more in addition to thickness of the part.

- **Step type** : Zigzag One way Back and forth type cutting can be selected for the machining.
- **Side** : Preferred for transversal cutting.
- Invert : It inverts direction of motor during cutting.
- Head side : Head side of cutting, Left Right can be selected.
- **Start position** : Distance value over the material where the cut starts.
- Link type : Standard Centered Outer link types between cutting paths can be selected.

Step

- **Down** : Downwards Z step value in mm in saw roughing.
- **Side** : Side roughing step value in mm in saw roughing.
- Material : Material type which machining is assigned to.
- Min thickness: Minimum cutting thickness
- Max thickness: Maximum cutting thickness
- **Tool** : Tool which machining is assigned to.
- Speed : Working rpm (rotations / minute) value is entered.

Feed

- Standard : Work feed value (mm / minute)
- Tip : Head feed value (mm / minute)
- Lead in : Lead in feed value (mm / minute)
- Lead out : Lead out feed value (mm / minute)
- Vertical : Vertical work feed value (mm /minute)

Over material

• Radial : Excess material thickness deliberately left on the piece in a radial direction

Polishing DB

The Polishing DB Page allows to configure and customize how the machine execute the polishing on the slab.

2021/10/13 14:4	15					C	magCUT			
011	CUT 2.3	CURR MACHI		DIRECT	CUTS	CAD CUTS	FRAMES	MACHINE	್ಧರ್	\times
Machine data	Tool I	ов г	Machining	DB P	Polishing C	B Machine	e			
Polishings MarmoBianco MarmoGrigio			ucidaA 👻 ucidaB 👻			Move	Count	Step	Offs	set
MarmoRosa MarmoBlu		3 🗸 L	ucidaB 👻 ucidaC 👻 ucidaD 👻				1		0	
		5	•				2	145	0	
							2	155	0	
						- Leadin/LeadO	ut 50 Height	10		
New Save	Delete	New	Delete	Up	Down	Load	0.8			

Machine

CN mode

Auto – Manual – MDI - Single - Home commands can be executed in CN mode.

Machine Commands: Start - Stop - Reset commands can be executed.

MDI string: Single line machinery commands and M functions can be activated through MDI interface.

Part program transfer : Cn program transfer commands Download– Upload – Activate– Delete commands can be executed.

NC Errors List can be viewed as registered.

2021/10/13 14:45				OmagCUT			
O]]],a		RENT DIREC	CT CUTS	CAD CUTS	FRAMES	MACHINE	* *
Machine data	Tool DB	Machining DB	Polishing DB	Machine			
CN Mode					- Machine Comma	ands	
Auto			Single	Home	Start	Stop	Reset
MDI string							
			MDI Confirm				
 Part program trai	nsfer						
Download Upload Activate			Delete	90	0.0		
- NC Errors List							

Settings

By clicking the gear icon the user enter the software settings. Here can be modified the language and the unit of measure.

2021/10/13 14:45		68/68	OmagCUT
CUT 2.3 CURRENT MACHINING	DIRECT CUTS CAD CUTS	S FRAMES	MACHINE 🛷 🗙
Language	Units of measure Te	xt color Avvio Progra	amma Feedback
English 🗸	mm •	New Pro	oject 🗸 🖂
- ColorToSideAng	Slab Dxf	Engrave fron	n color
Enable Tolerance 0	Slab Layer Slab	Boundary Enable	Tolerance 0
Side angle Heel		ounters dAreaBoundar	Depth Width
	Std Thick	25.4	
	- Themes Dark		

Color To Side Ang: In fase di importazione di disegni 2D assegna l'inclinazione e il tallone in funzione del colore assegnato.

Engrave from color: In fase di importazione di disegni 2D assegna la profondità e lo spessore in funzione del colore assegnato.

Χ

Click the final "X" in this tab in order to close the OMAGCut application.

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