




































































































USER GUIDE



CAD software for advanced
design of Electrical Systems

INDEX:

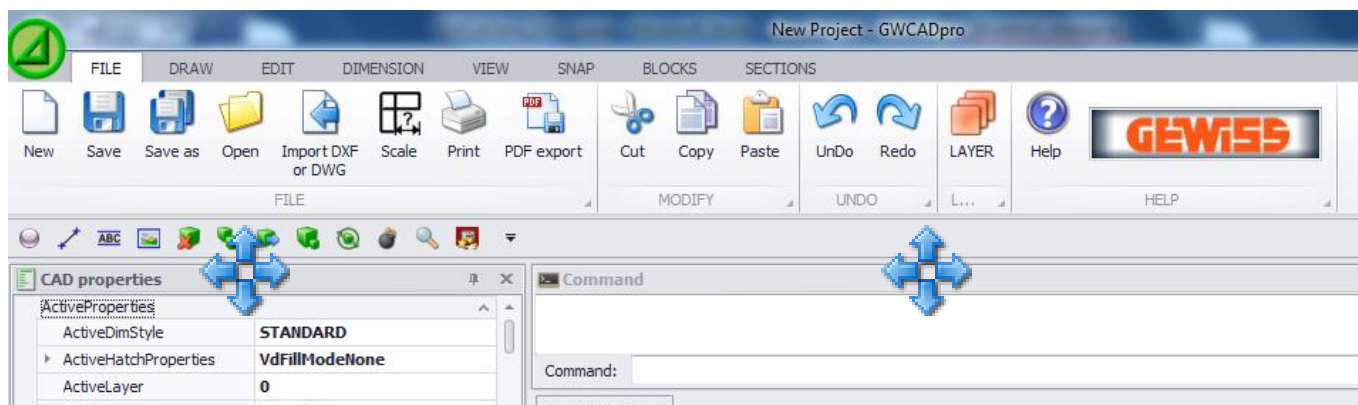
10 - Sections	5
100 - Menu	6
1000 -  File Menu	7
1001 -  New	7
1002 -  Save	7
1002 -  Save as	7
1003 -  Open	8
1004 -  Import file GWDX	8
1005 -  Import DXF or DWG	9
1006 -  Scale	10
1007 -  Project data	11
1008 -  Data prints	12
1009 -  Graphic prints	13
1010 -  PDF graphical prints	13
1011 -  Undo	14
1011 -  Redo	14
1012 -  Layer	14
1013 -  List	14
1014 -  Save current settings	15
1015 -  Default settings	15
1016 -  Help	15
1017 -  GEWISS	15
1100 -  Draw Menu	16
1101 -  Line	16
1102 -  Multi line	17
1103 -  Polyline with arrow	17
1104 -  Construction line	18
1105 -  Construction half line	18
1106 -  Point	19
1107 -  Point type	19
1108 -  Polygon with four sides	20
1109 -  Rectangle	20
1110 -  Arc	21
1111 -  Circle	21
1112 -  Ellipse	22
1113 -  Hatch	22
1114 -  Text style	24
1115 -  Text	24
1116 -  Edit text	24
1117 -  Multiline text	25
1118 -  Edit multiline text	25
1119 -  Image	26
1120 -  Image properties	26
1200 -  Planimetry Menu	27
1201 -  Add wall	27
1202 -  Wall settings	28
1203 -  Show wall	28
1204 -  Add door	29
1205 -  Door settings	30
1206 -  Add window	31
1207 -  Window settings	32
1208 -  Easy draw	32

1209 - 	Standard draw.....	32
1210 - 	Grid spacing	33
1211 - 	Grid area	33
1300 -  Edit Menu	34	
1301 - 	Erase	34
1302 - 	Duplicate	35
1303 - 	Duplica more times	36
1304 - 	Move	37
1305 - 	Scale	38
1306 - 	Rotate	39
1307 - 	Mirror	40
1308 - 	Stretch	41
1309 - 	Rectangular array	42
1310 - 	Polar array	43
1311 - 	Break	44
1312 - 	Extend	45
1313 - 	Trim	46
1314 - 	Filled	47
1315 - 	Offset	48
1316 - 	Explode	49
1317 - 	Cut	50
1317 - 	Copy	50
1317 - 	Paste	50
1318 - 	Redraw	51
1319 - 	Regen	51
1320 - 	Send to back	52
1321 - 	Bring to front	52
1400 -  Dimension Menu	53	
1401 - 	Horizontal	53
1402 - 	Vertical	54
1403 - 	Aligned	54
1404 - 	Angular	55
1405 - 	Radial	55
1406 - 	Diameter	56
1407 - 	Dimension style	56
1408 - 	Coordinates	57
1409 - 	Distance	57
1410 - 	Area	58
1400 -  Zoom Menu	59	
1501 - 	Enlarge	59
1502 - 	Decrease	60
1503 - 	Extension	60
1504 - 	Scale	61
1505 - 	Window	62
1506 - 	Show/Hide axis	63
1600 -  Layout Menu	64	
1601 - 	Add layout	65
1602 - 	Delete layout	65
1603 - 	Squaring A0	66
1603 -	Squaring A1	66
1603 -	Squaring A2	66
1603 -	Squaring A3	66
1603 -	Squaring A4	66
1603 -	Squaring A4 portrait	66
1604 -	Squaring settings	67

1605 -	Insert rectangular view	68
1606 -	Insert circular view	69
1607 -	Insert elliptic view	70
1608 -	Graphic prints	71
1609 -	PDF graphical prints	71
1700 - 	Menu Snap	72
1501 -	Perpendicular	73
1502 -	Middle point	73
1503 -	End point	74
1504 -	Intersection	74
1505 -	Parallel	75
1506 -	Extension	75
1507 -	Near	76
1508 -	Node	76
1509 -	Internal	77
1510 -	Tangent	77
1511 -	Center	78
1512 -	Quadrant	78
1513 -	Text insertion point	79
1514 -	Cancel snap	79
1515 -	Snap type	80
1800 - 	Blocks Menu	81
1801 -	Made block	81
1802 -	Block insert	82
1803 -	Save block	83
1804 -	External reference	84
1805 -	Explode	85
1900 - 	Section Menu	86
200 - 	Command	87
300 - 	CAD properties	87
400 - 	CAD workspace	88
500 - 	Libraries	89
5100 -	Selection by catalogue	89
5200 -	Selection by electrical symbol	91
5300 -	Furnishings	92
5400 -	Importing by file *.GWDX.....	93
600 - 	Quotation structure	95
700 - 	Material list	96
800 - 	Compositions	97
20 -	Update with GWSINC	98

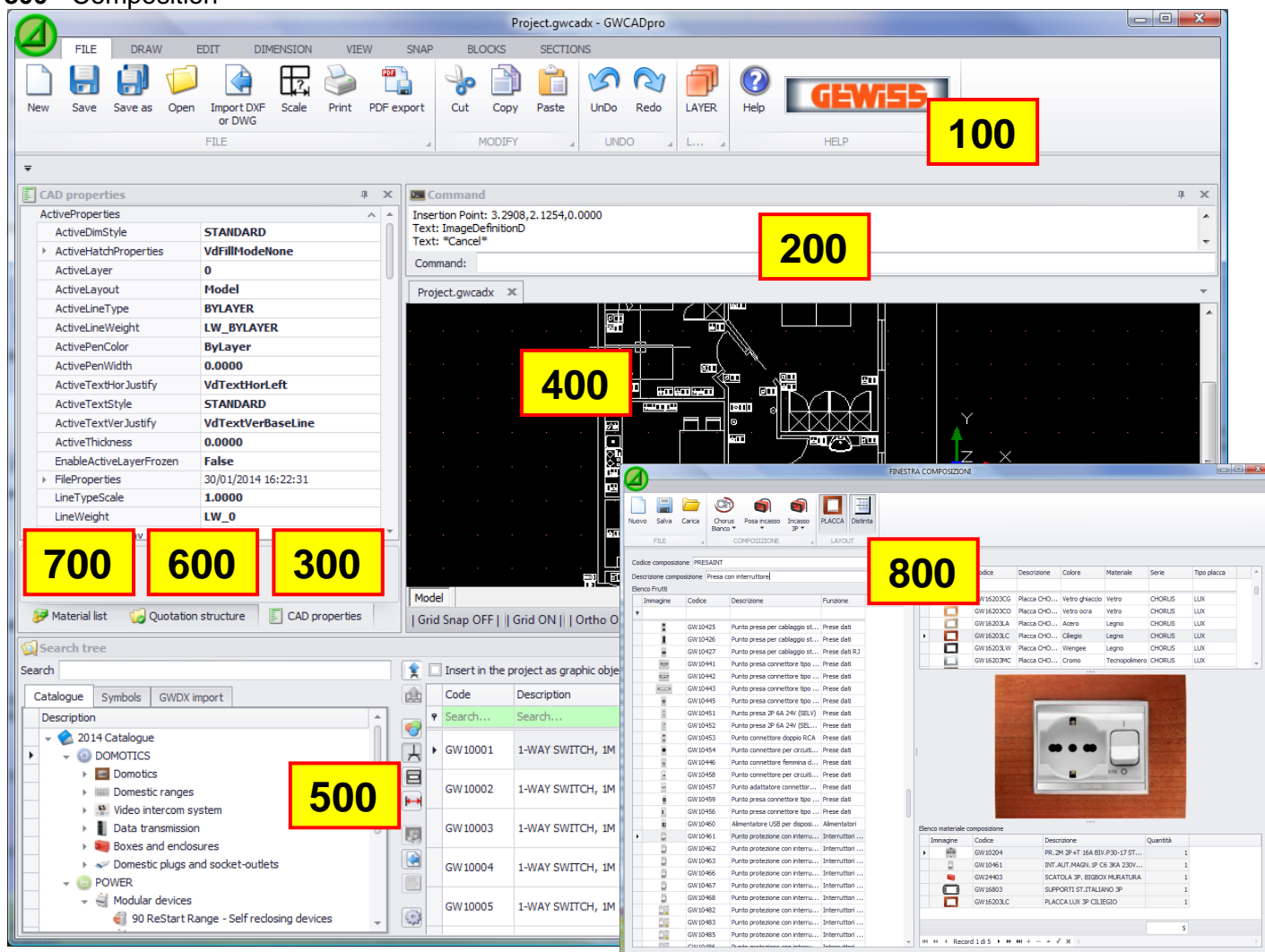
10 - Sections

The program consists of different sections which can be positioned as you like inside the window of the Software **GWCADpro** simply dragging with the mouse the upper bar in each section.



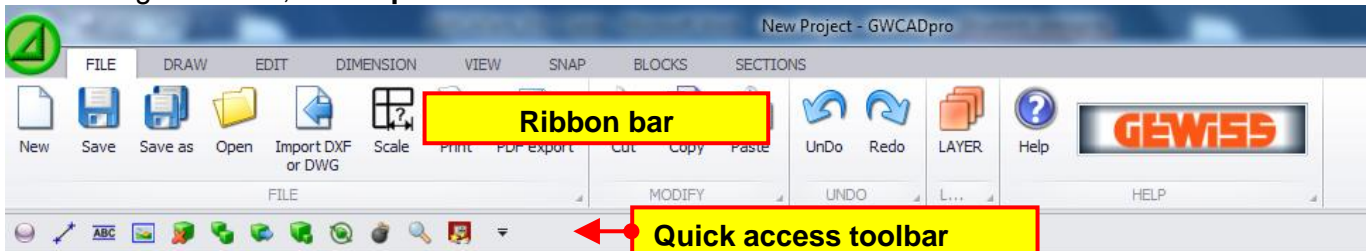
The program consists in eight sections:

- 100** - Menu
- 200** - Command
- 300** - CAD properties
- 400** - CAD workspace
- 500** - Libraries
- 600** - Quotation structure
- 700** - Material list
- 800** - Composition

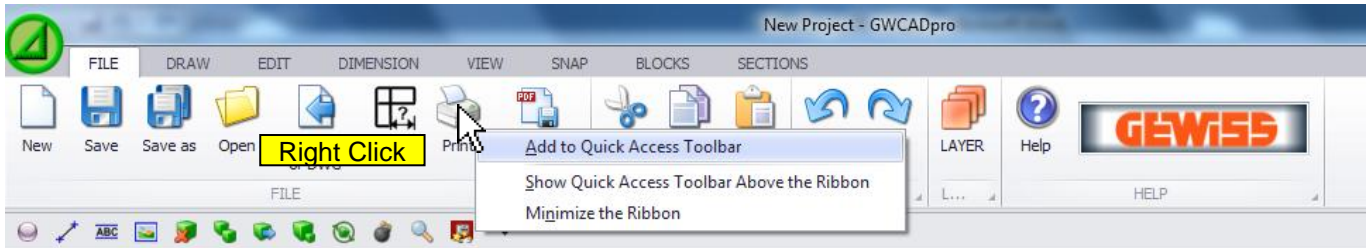


100 - Menu

The program uses a Microsoft menu-style formed by a **ribbon bar** that contains commands that the user can't change or move, and a **quick access toolbar** with the main commands:



To move commands from the ribbon bar to the quick access toolbar is possible to click with the right mouse button on a command and select "Add to Quick Access Toolbar":



The program menu is composed by ten sub-menus with specific commands:



FILE Menu

It contains basic commands for managing files with GWCADpro.



DRAW Menu

It contains commands used in the CAD drawings.



PLANIMETRY Menu

It contains commands for drawing the planimetry.



EDIT Menu

It contains commands for editing objects in the CAD project.



DIMENSION Menu

It contains commands for dimensioning drawings.



ZOOM Menu

It contains commands to control the display of the project.



LAYOUT Menu

It contains commands to create a layout for the project.



SNAP Menu

It contains commands to facilitate the interconnection between the objects inserted using the DRAW menu.



BLOCKS Menu

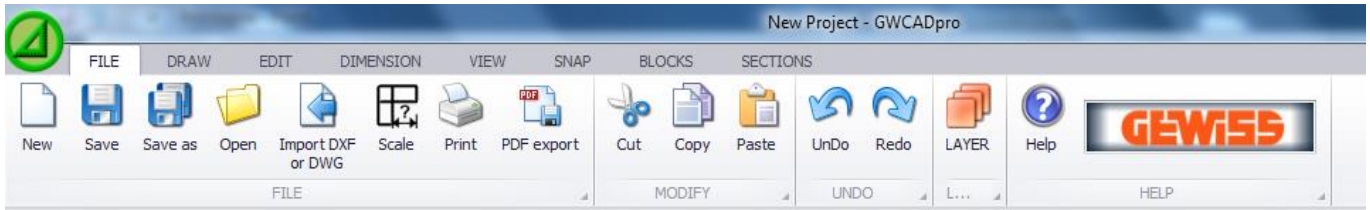
It contains commands for managing user-created blocks.



SECTIONS Menu

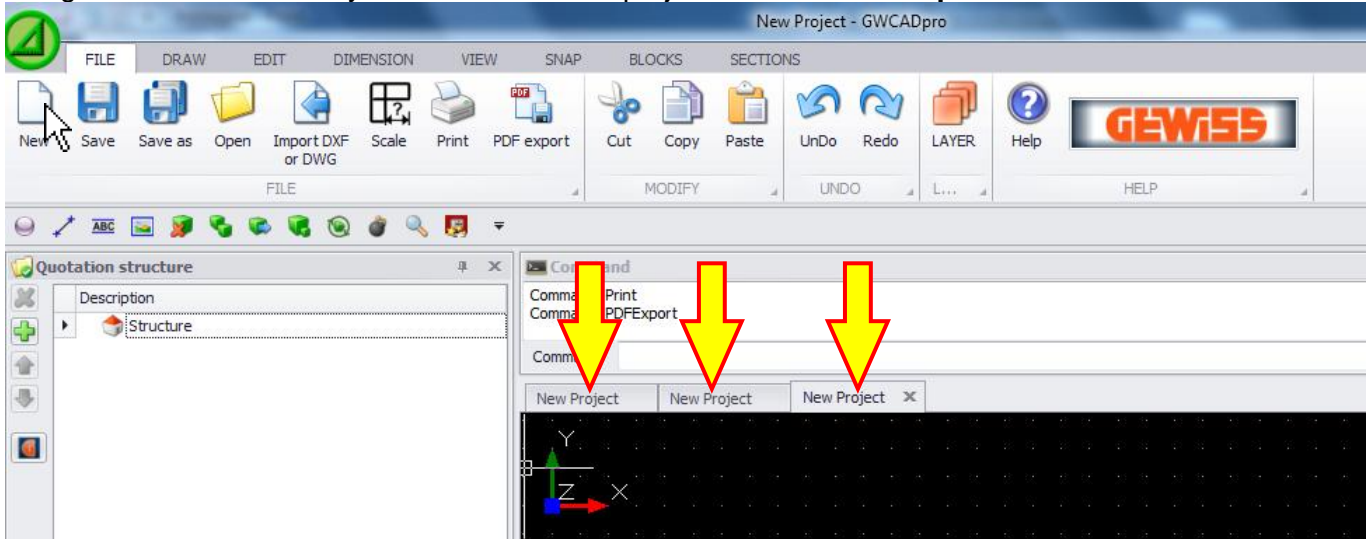
It allows to show or to hide sections of the program.

1000 – File Menu



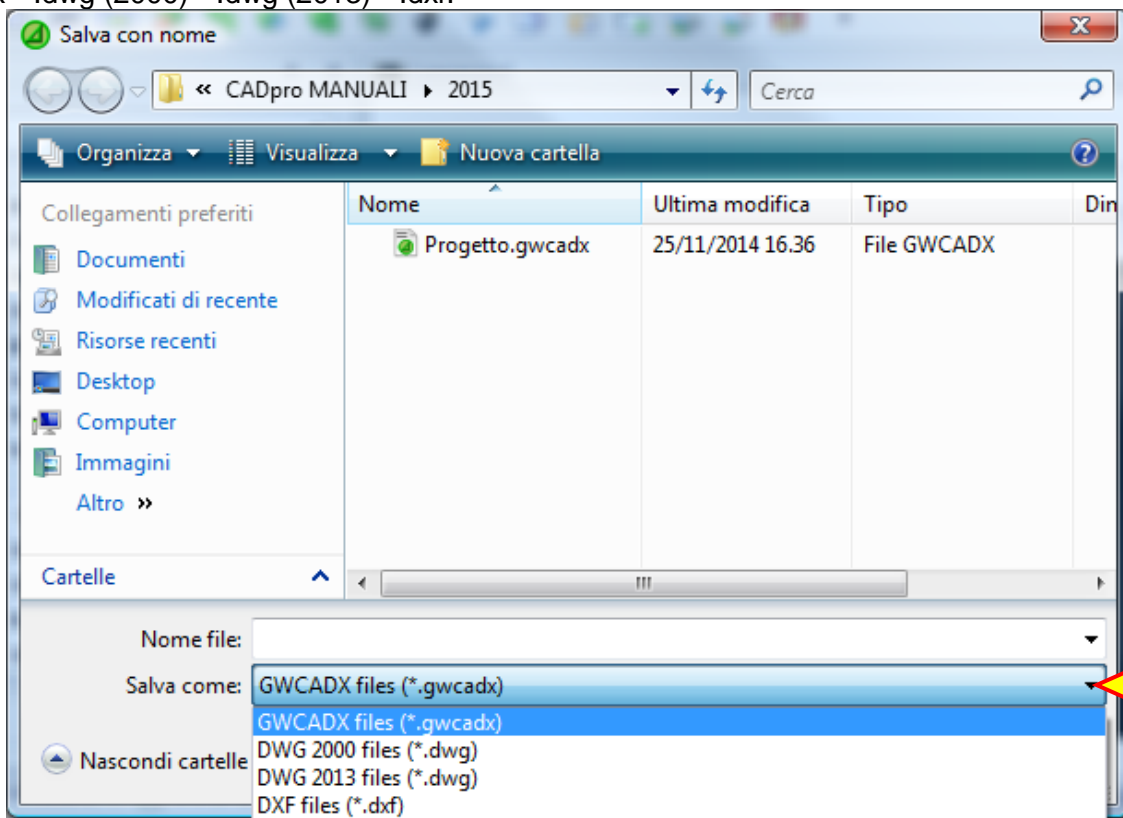
1001 - New

Using the command NEW you can create more projects in "CAD Workspace".



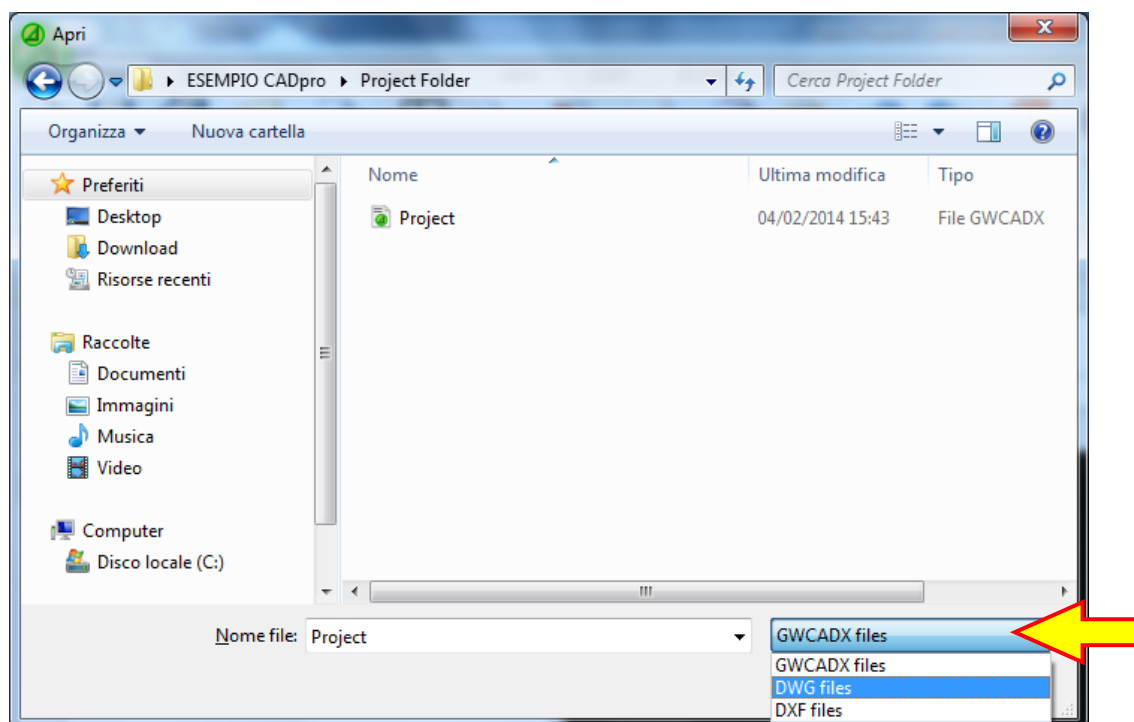
1002 - Save and Save as

It allows you to save the project in three different formats:
*.gwcadx *.dwg (2000) *.dwg (2013) *.dxf.



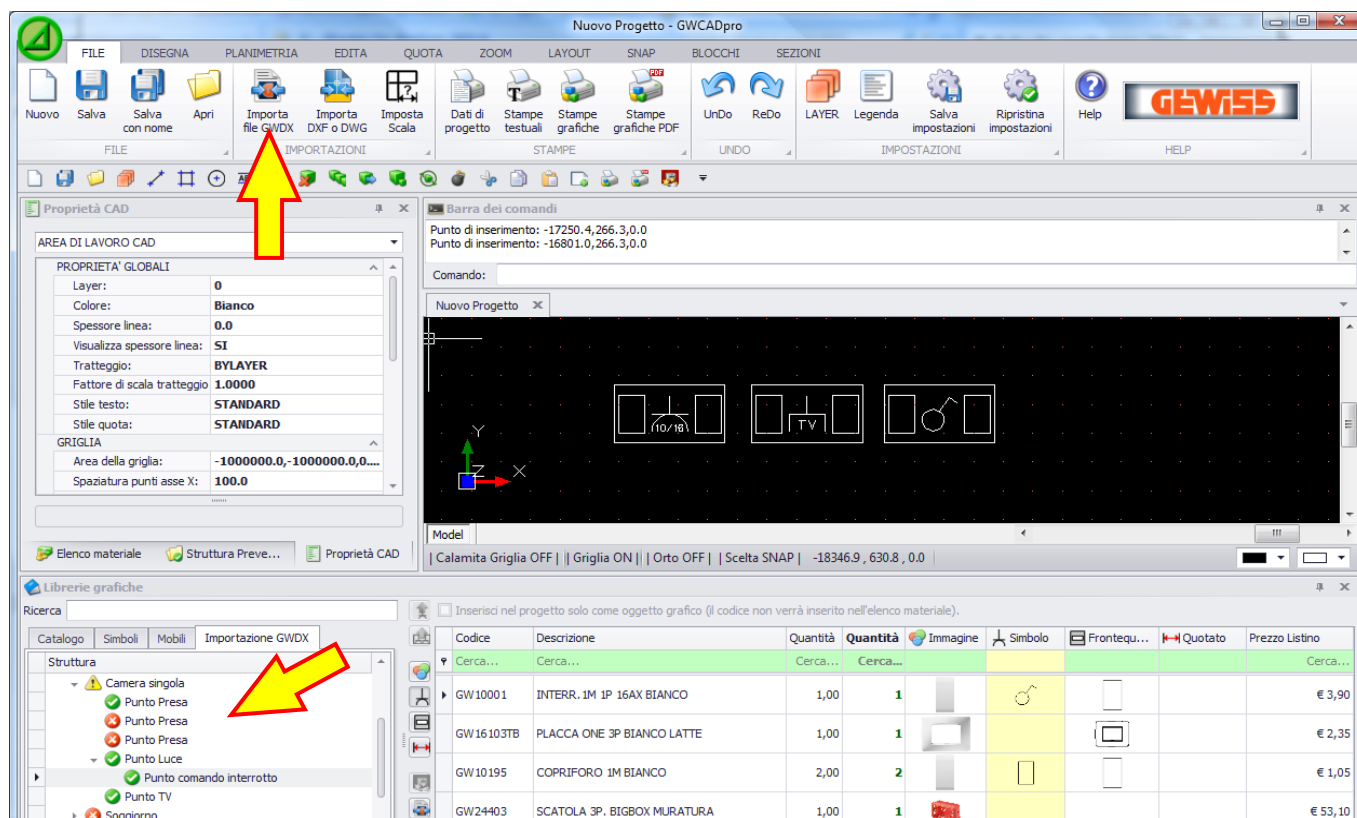
1003 - Open

This command allows you to open the file project with extension: *.gwcadx *.dwg *.dxf.



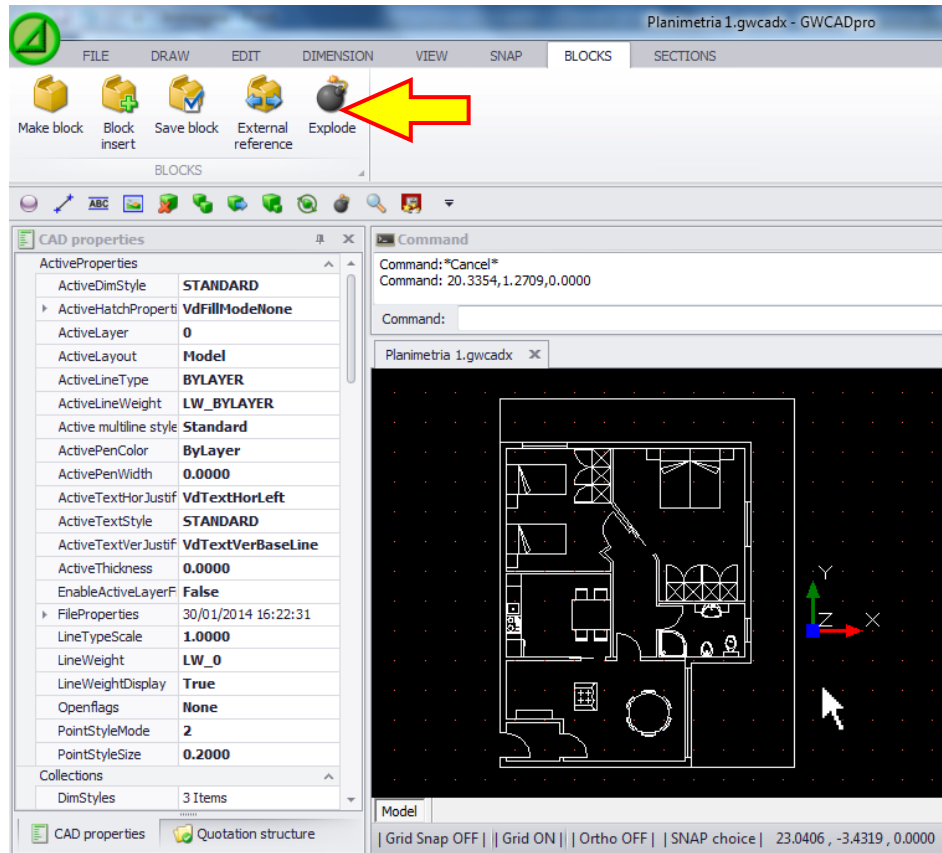
1004 - Import file GWDX

It allows you to import a material list by the file *.GWDX that can be exported by the GEWISS software and the product can be inserted in the "CAD Workspace".



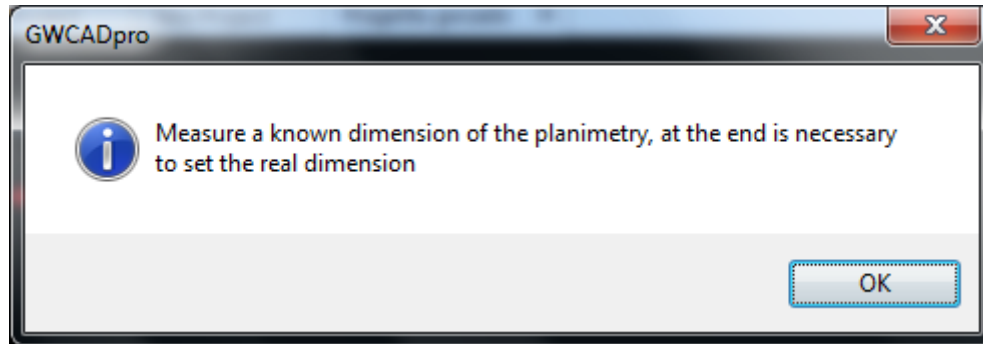
1005 - Import DXF or DWG

It allows you to import a file *.dxf or *.dwg as a block in the current project GWCADpro, after this operation it is recommended to select the imported drawing and click on the button "**Explode**" to break the block for the modification:

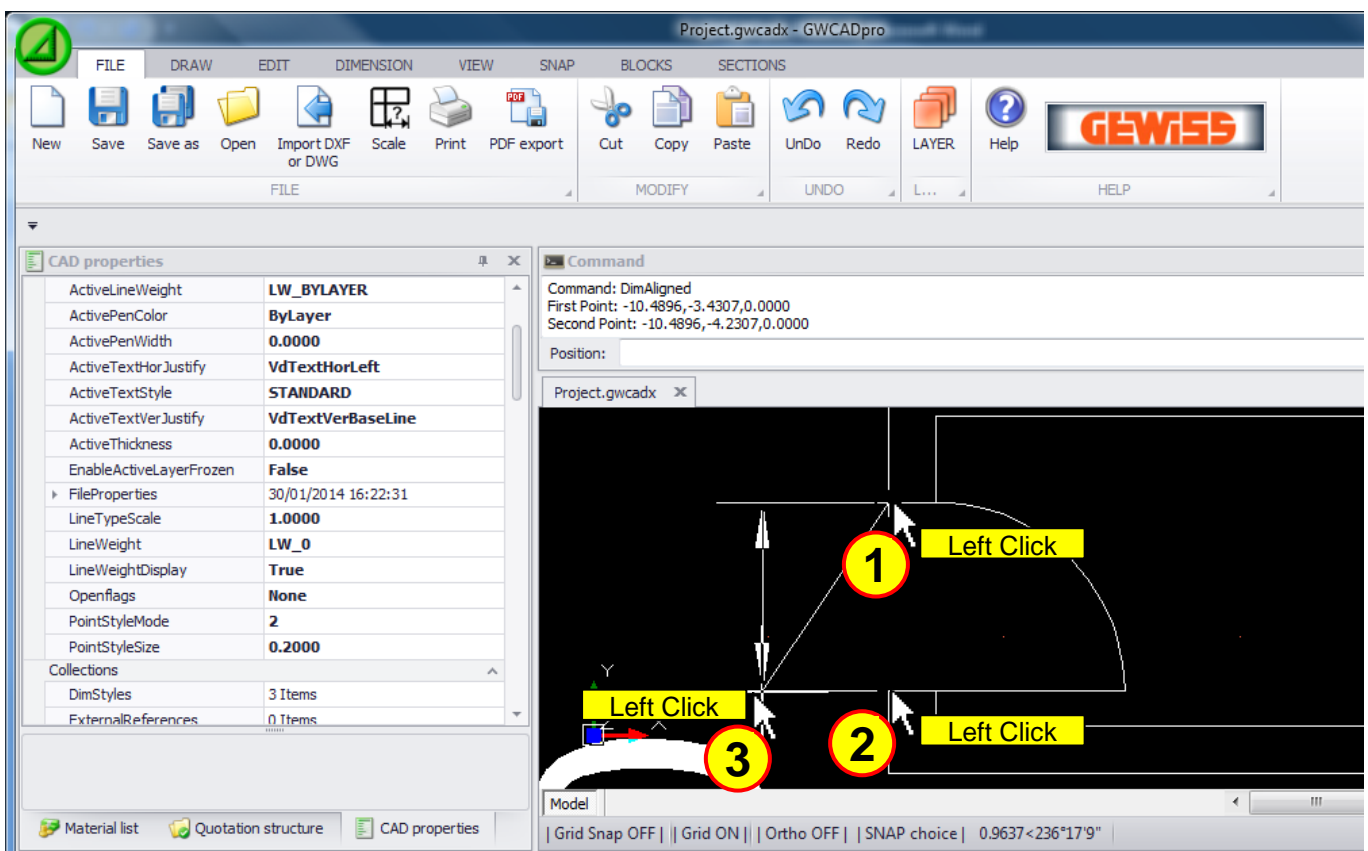


1006 - Scale

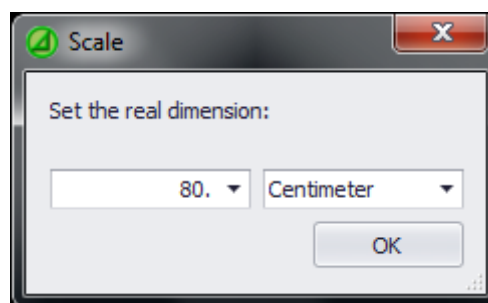
With this command you can automatically scale all the symbols depending on the size of the imported plan. By clicking with the mouse on the button "**Scale**", a window asks you to quote a part of the plan.



Is possible to dimension a door because its size is well known:



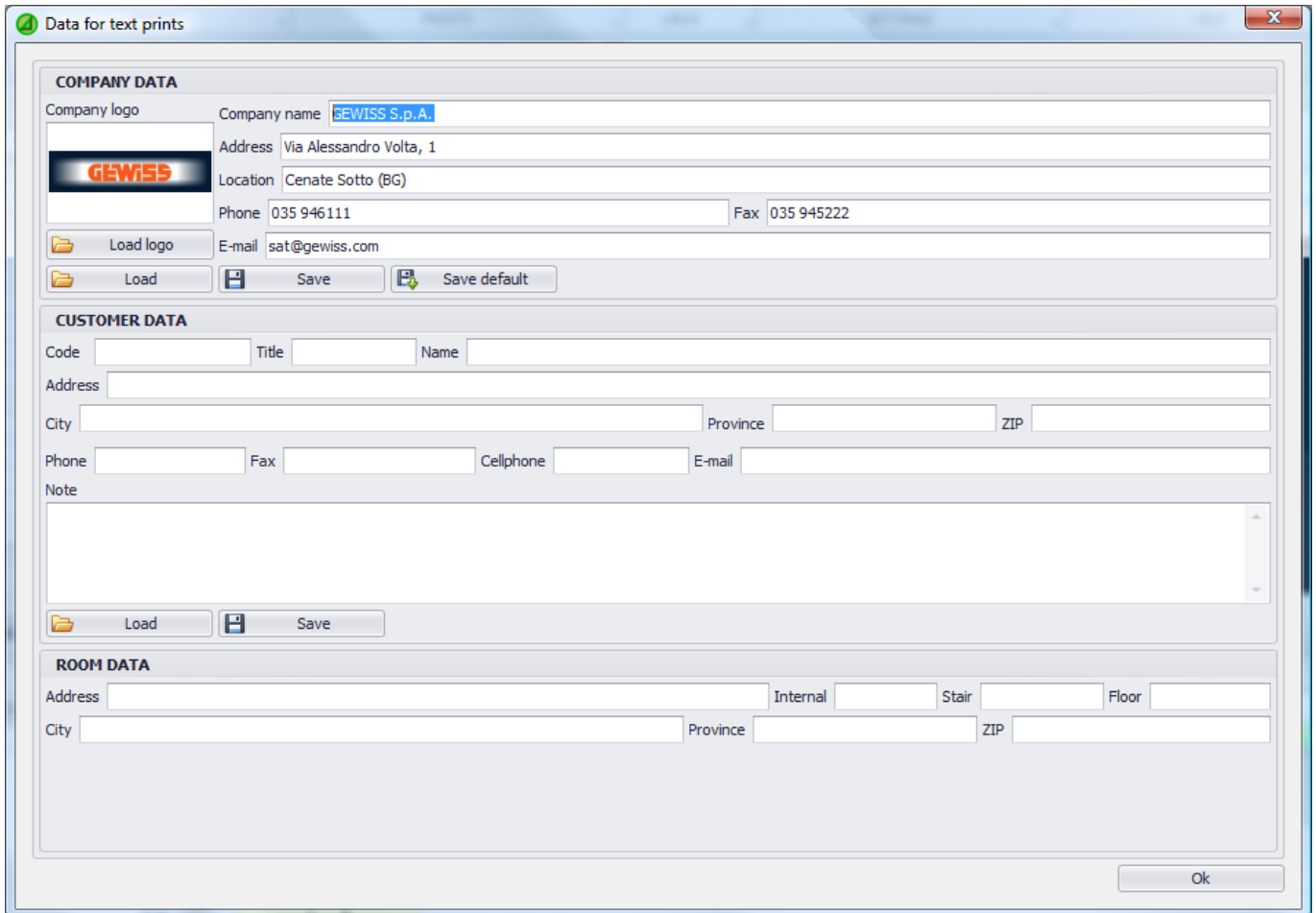
Now is possible to set the real size of the object dimensioned:



After this operation, the symbols inserted in the plan will be correctly scaled.


1007 - Project data

With this command is possible to insert: company data, customer data and the room data, these data will be shown in the data prints.



Data for text prints





COMPANY DATA

Company logo 

Address Location

Phone Fax

E-mail

 Load logo  Load  Save  Save default

CUSTOMER DATA



Code Title Name

Address

City Province ZIP

Phone Fax Cellphone E-mail

Note

 Load  Save

ROOM DATA

Address Internal Stair Floor

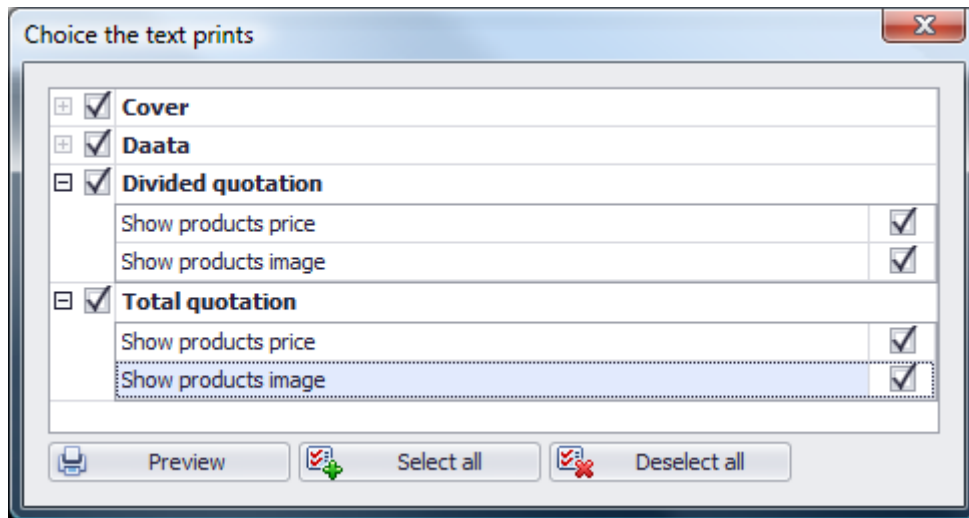
City Province ZIP

Ok

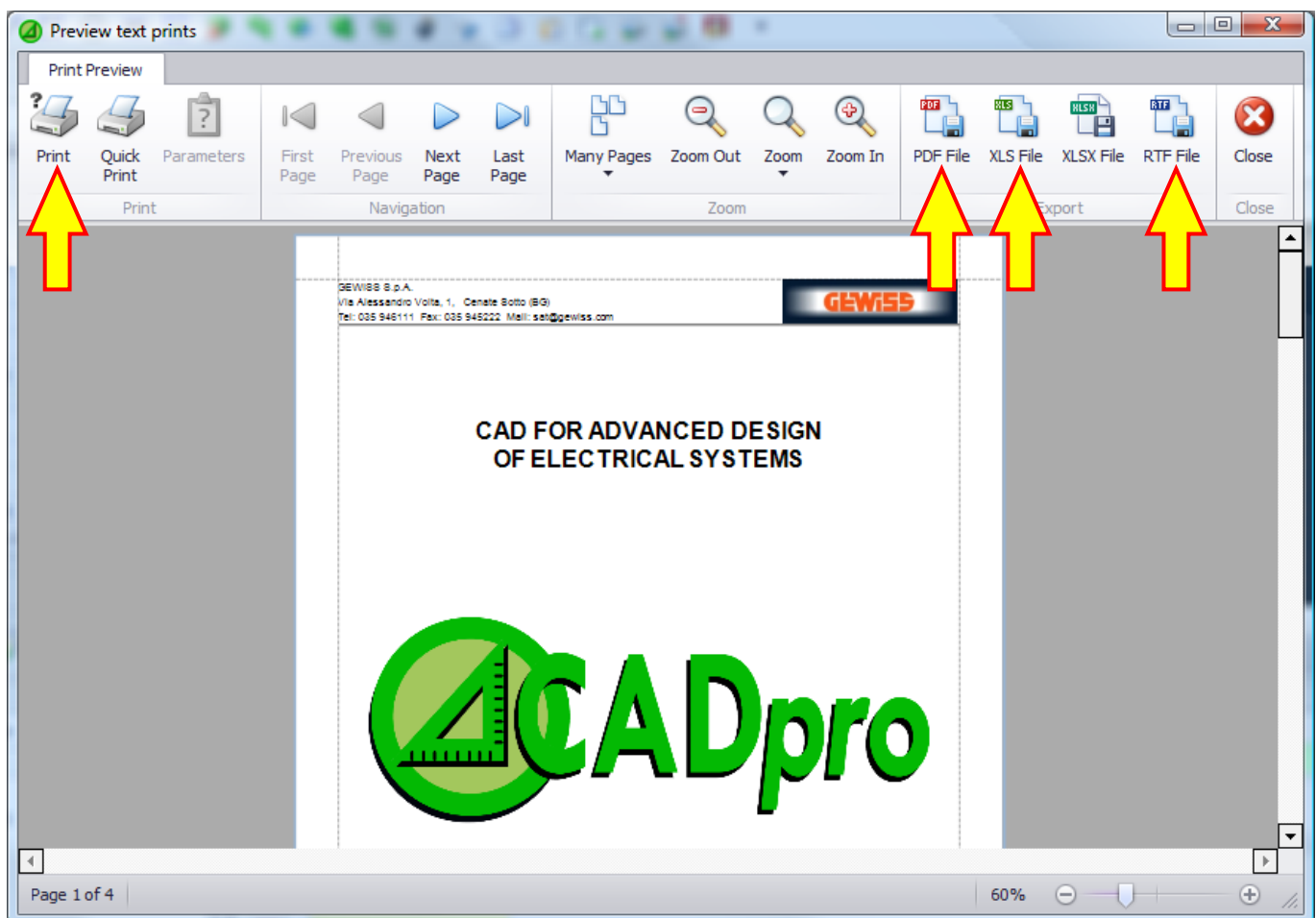
The data can be saved and loaded for the next projects.

1008 - Data prints

With this command is possible to select the prints:



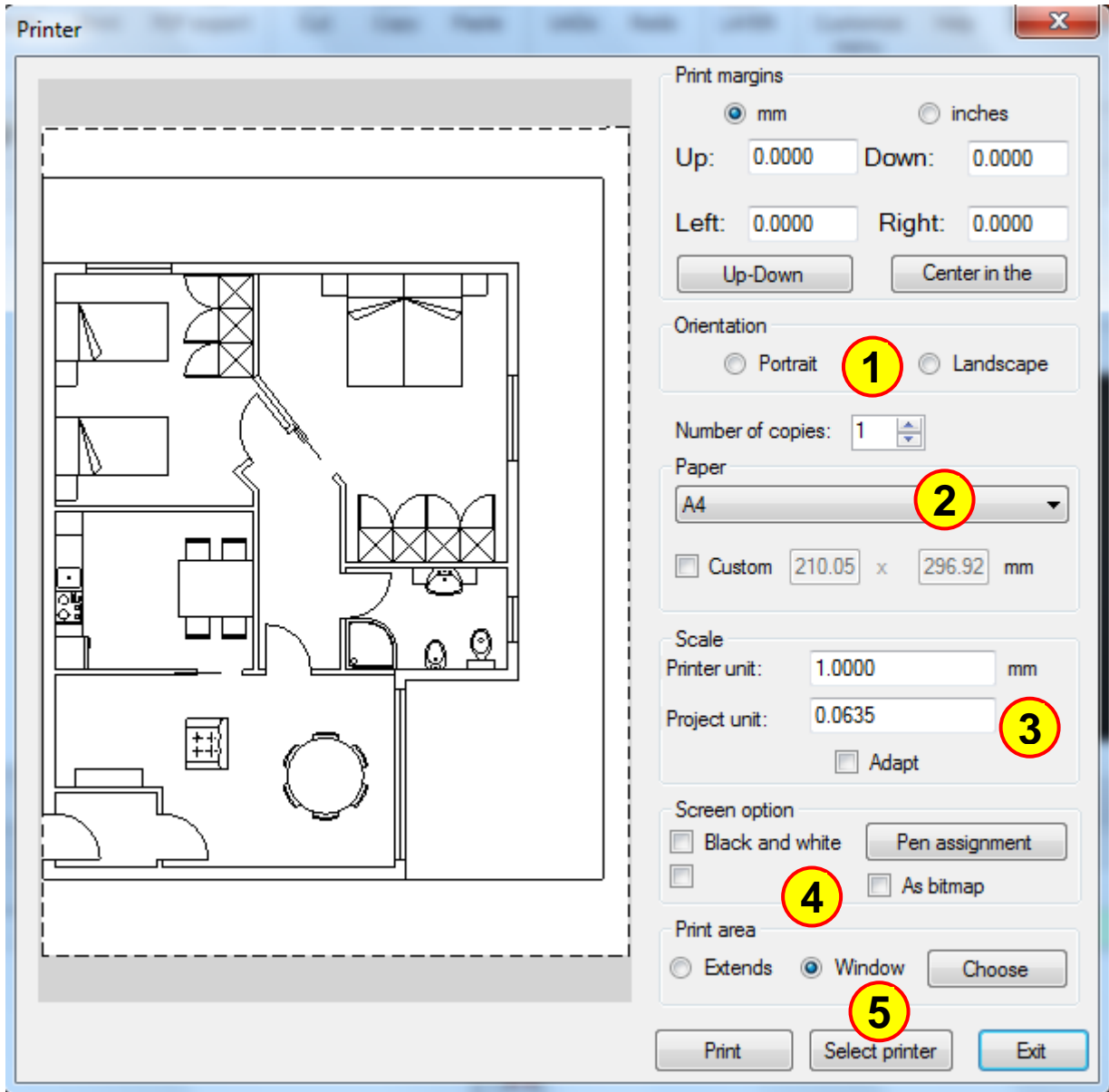
After the choice by clicking on the “Preview” button will be shown the preview window where is possible to print the documentation or export it in excel or word or pdf format:



By clicking on the button “Close” the print preview window will be closed showing the GWCADpro window.

1009 - **Graphic prints**

With this command you can open the print preview of the project, the program automatically optimizes the preview of the project to the printing sheet:

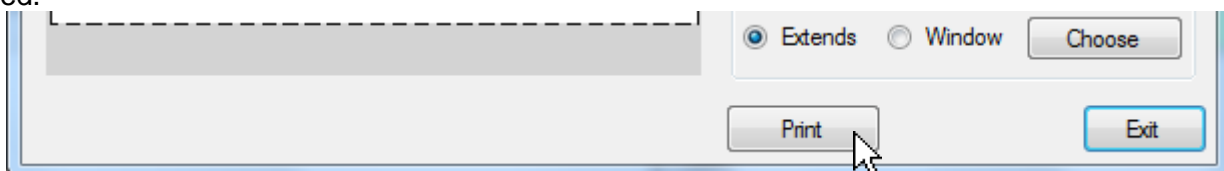


The print preview settings are:

- 1) Portrait or Landscape orientation of the sheet
- 2) Sheet dimension
- 3) The print scale to eventually print with real size
- 4) Assign specific thicknesses based on the objects colors
- 5) Select the printer

1010 - **PDF graphical prints**

The window is the same of the print preview but clicking on the **"Print"** button a PDF document is created.

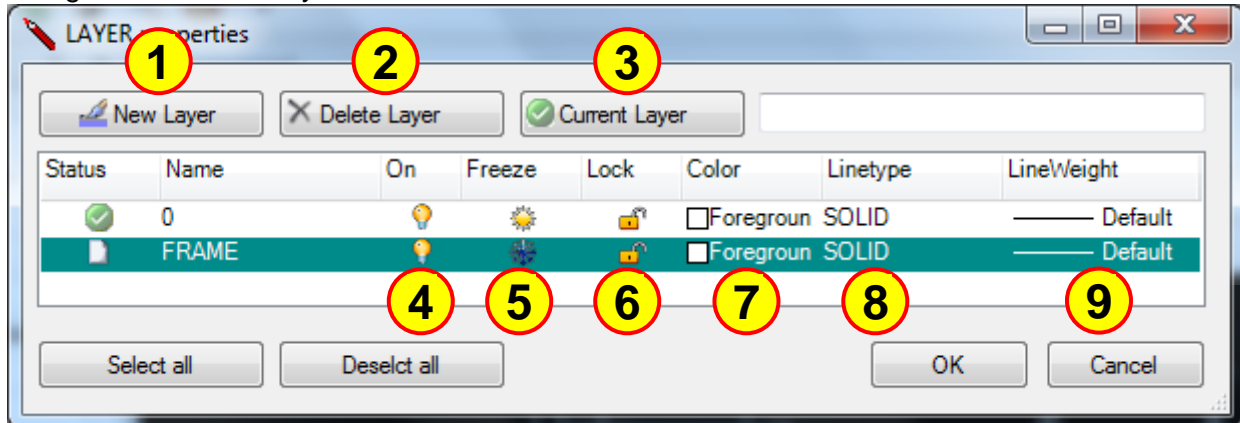


1011 - **UnDo and ReDo**

With these commands you can undo (UnDo) or redo (ReDo) the last operations performed in the “CAD Workspace”.

1012 - **Layer**

By clicking on the button Layer the windows is this:

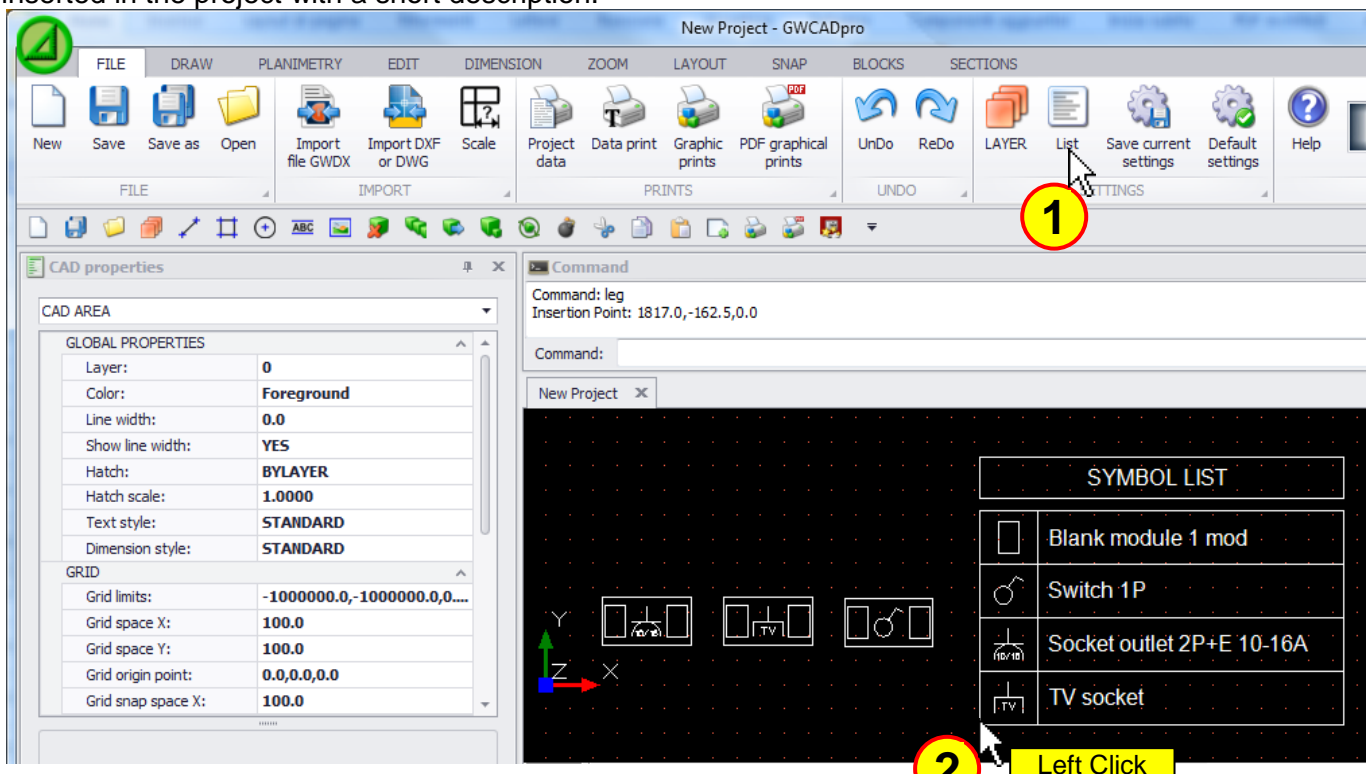


In this window is possible to:

- 1) Create new Layers
- 2) Delete empty Layers without objects
- 3) Set the selected Layer as Current layer (it's the main Layer and it can't be deleted))
- 4) Show or Hide the Layers
- 5) Activate or Disable the Layers
- 6) Lock or Unlock the Layers
- 7) Set the line color for the Layer's objects
- 8) Set the line type for the Layer's objects
- 9) Set the line thickness for the Layer's objects

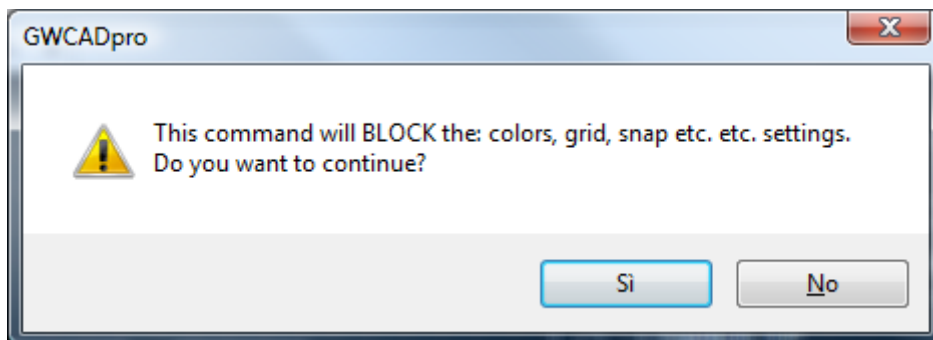
1013 - **List**

By clicking on the button “List” is possible to insert in the CAD workspace the list of planimetric symbols inserted in the project with a short description:



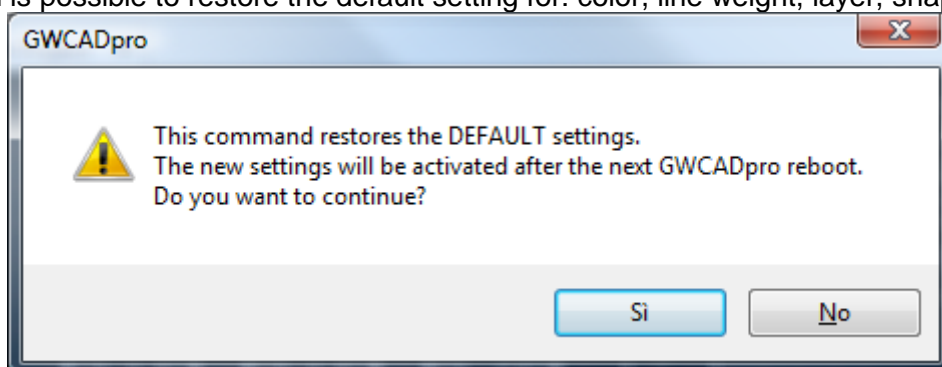
1014 - **Save current settings**

With this button is possible to save the current setting used by the user: color, line weight, layer, snap, grid etc etc:



1015 - **Default settings**

With this button is possible to restore the default setting for: color, line weight, layer, snap, grid etc etc:



1016 - **Help**

It opens the user guide in PDF format.

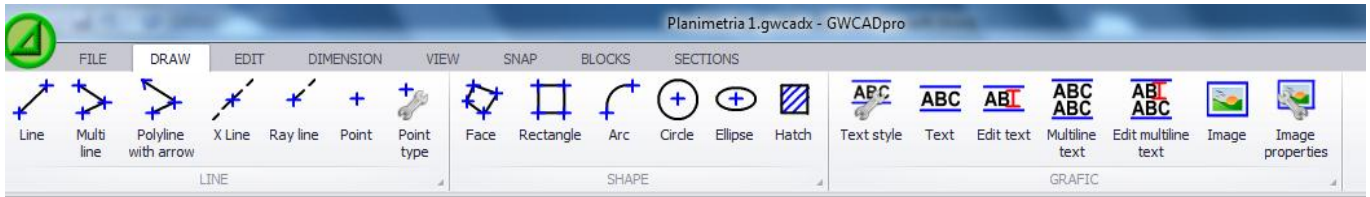
1017 - **GEWISS**

It opens the GEWISS website dedicated to the professionals of electrical sector:

<http://pro.gewiss.com/iri/portal>

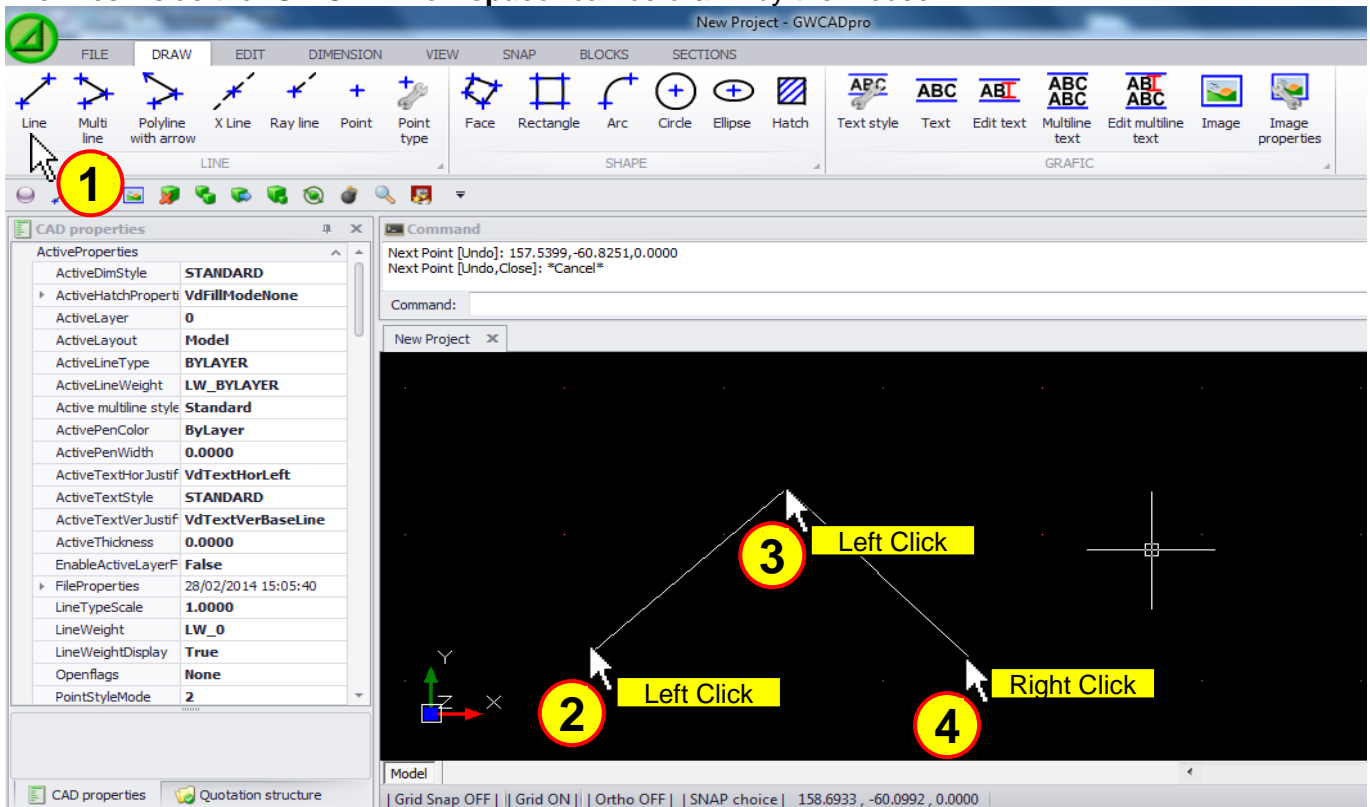


1100 – Draw Menu

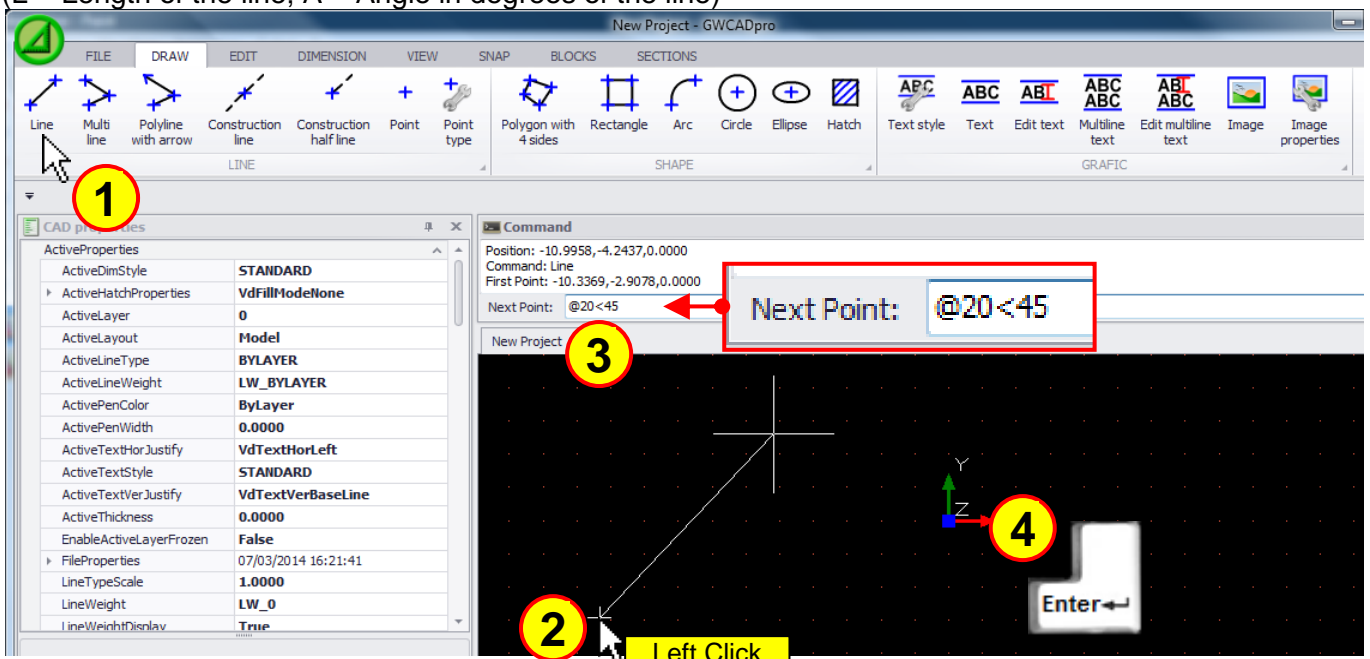


1101 - Line

The lines inside the "GWCAD Workspace" can be drawn by the mouse...

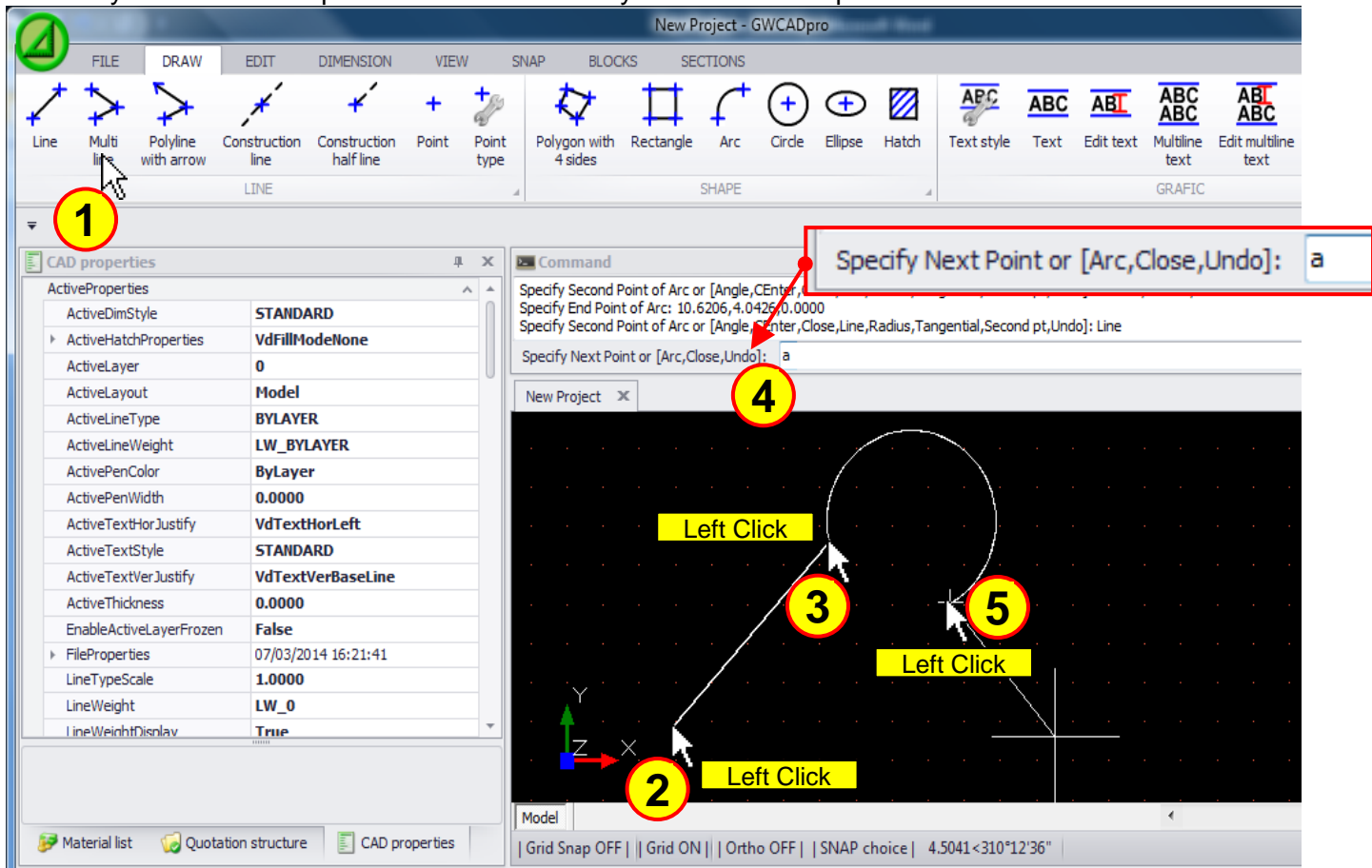


... or directly from the command bar using this syntax: **@L<A**
(L = Length of the line; A = Angle in degrees of the line)



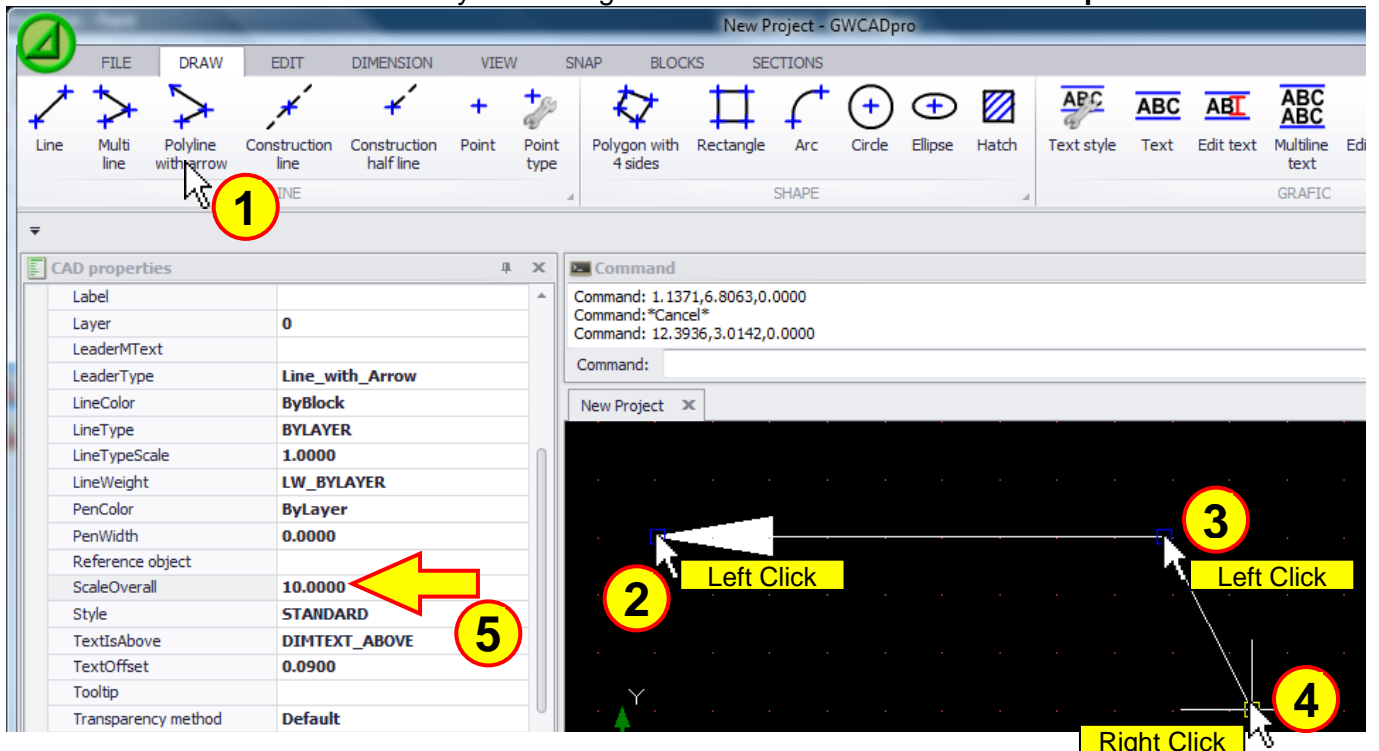
1102 - Multi line

It allows you to draw multiple lines with different styles like for example lines and arcs:



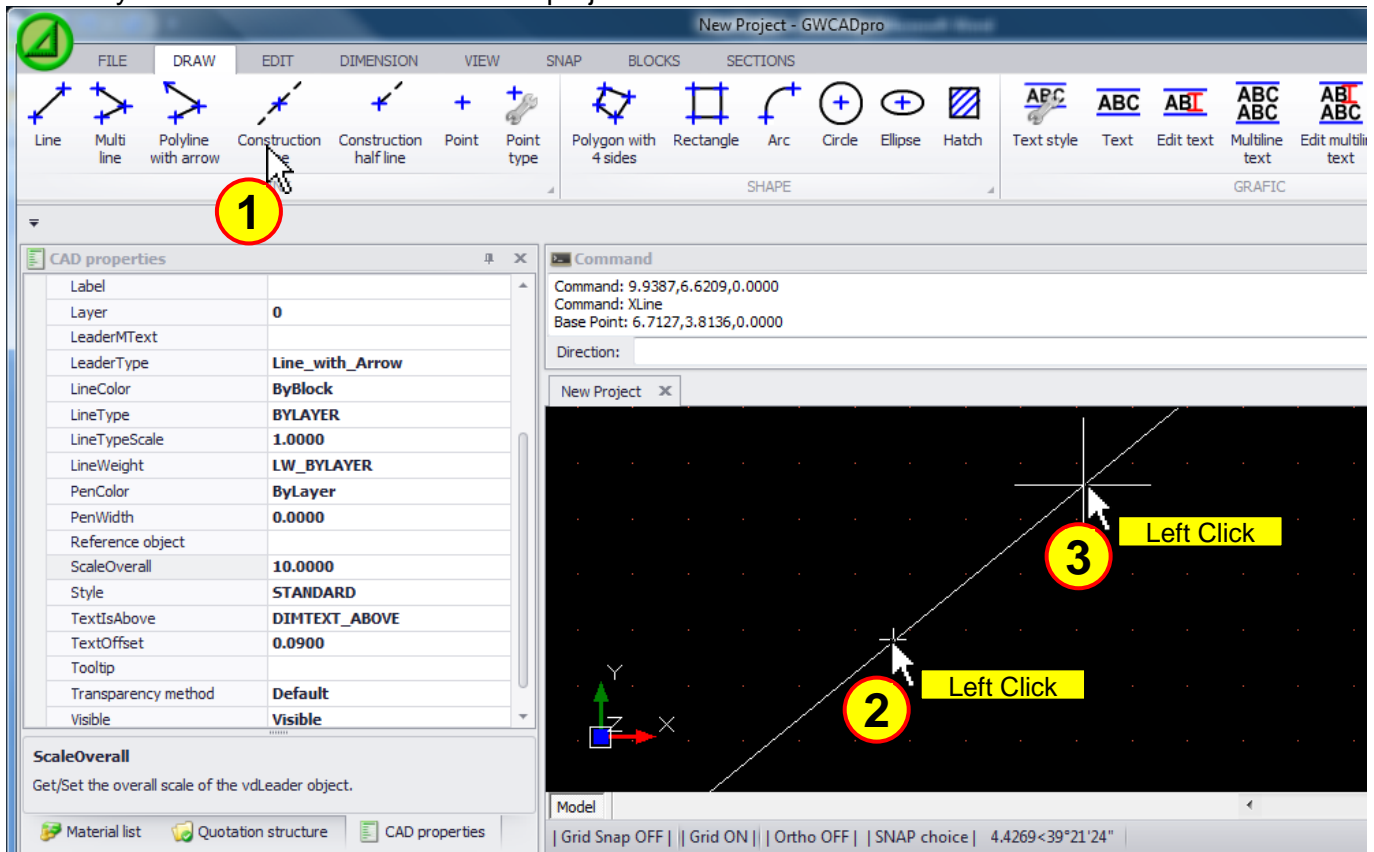
1103 - Polyline with arrow

The command Polyline with arrow is equal to the command Line but in this case there is an arrow at the end of the line that can be scaled by the setting "scale overall" located in "CAD Proprieties" section:



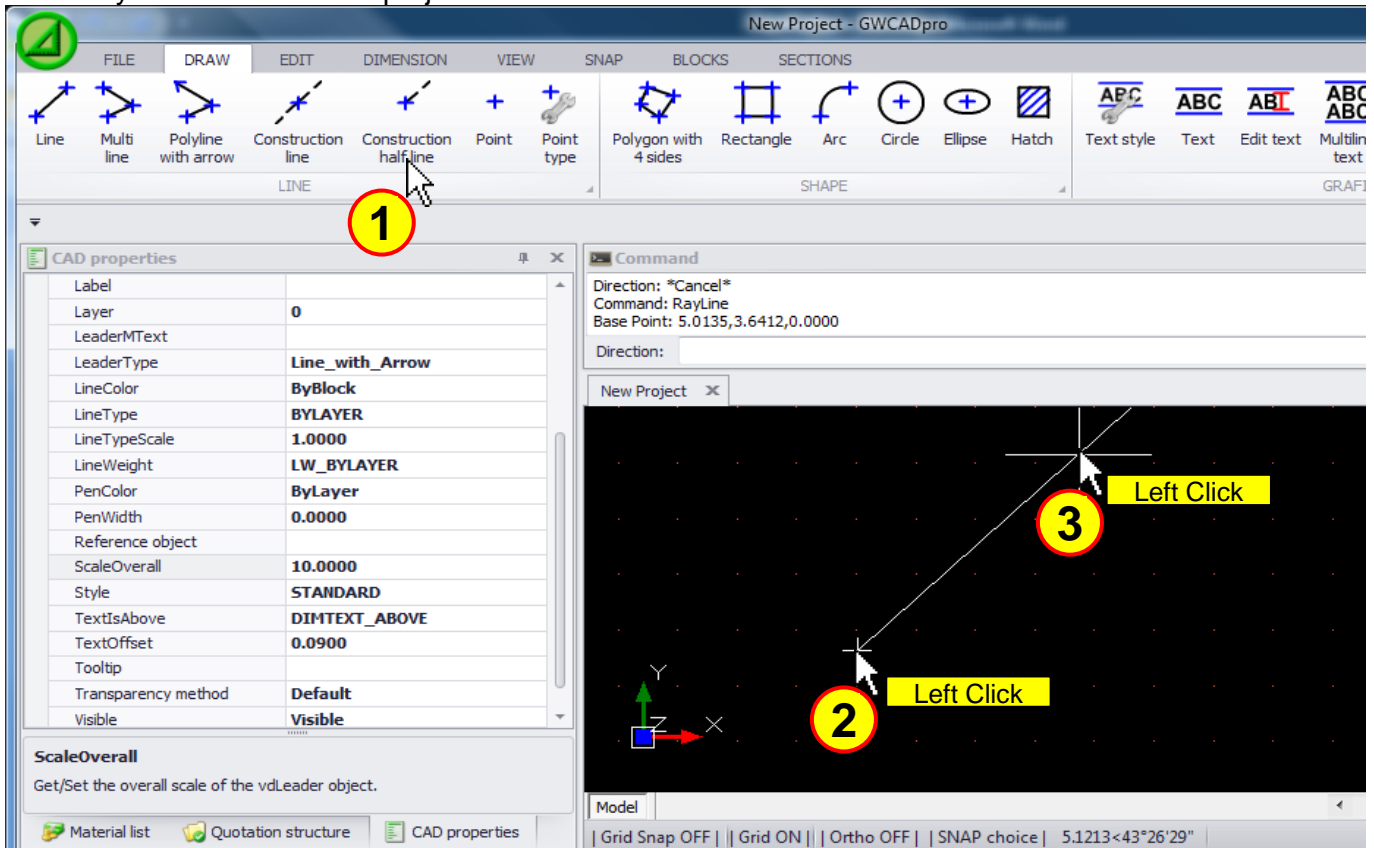
1104 - Construction line

It allows you to enter an infinite line in the project:



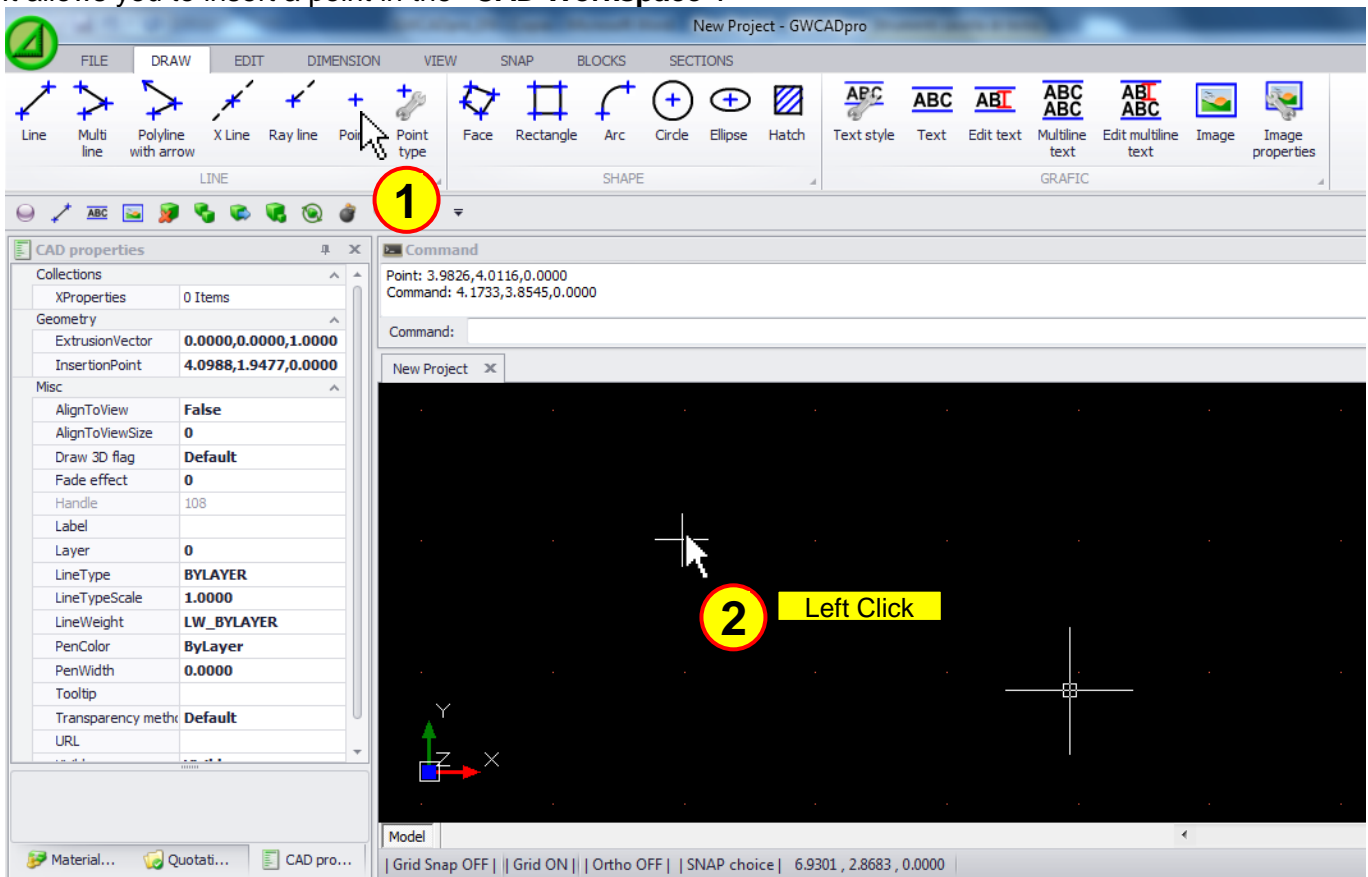
1105 - Construction half line

It allows you to enter into the project a infinite half line:



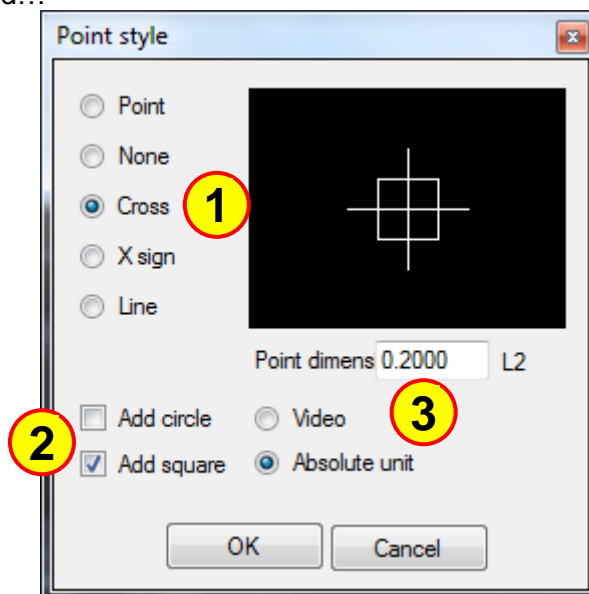
1106 - Point

It allows you to insert a point in the "CAD Workspace":



1107 - Point Type

The Point can be customized...

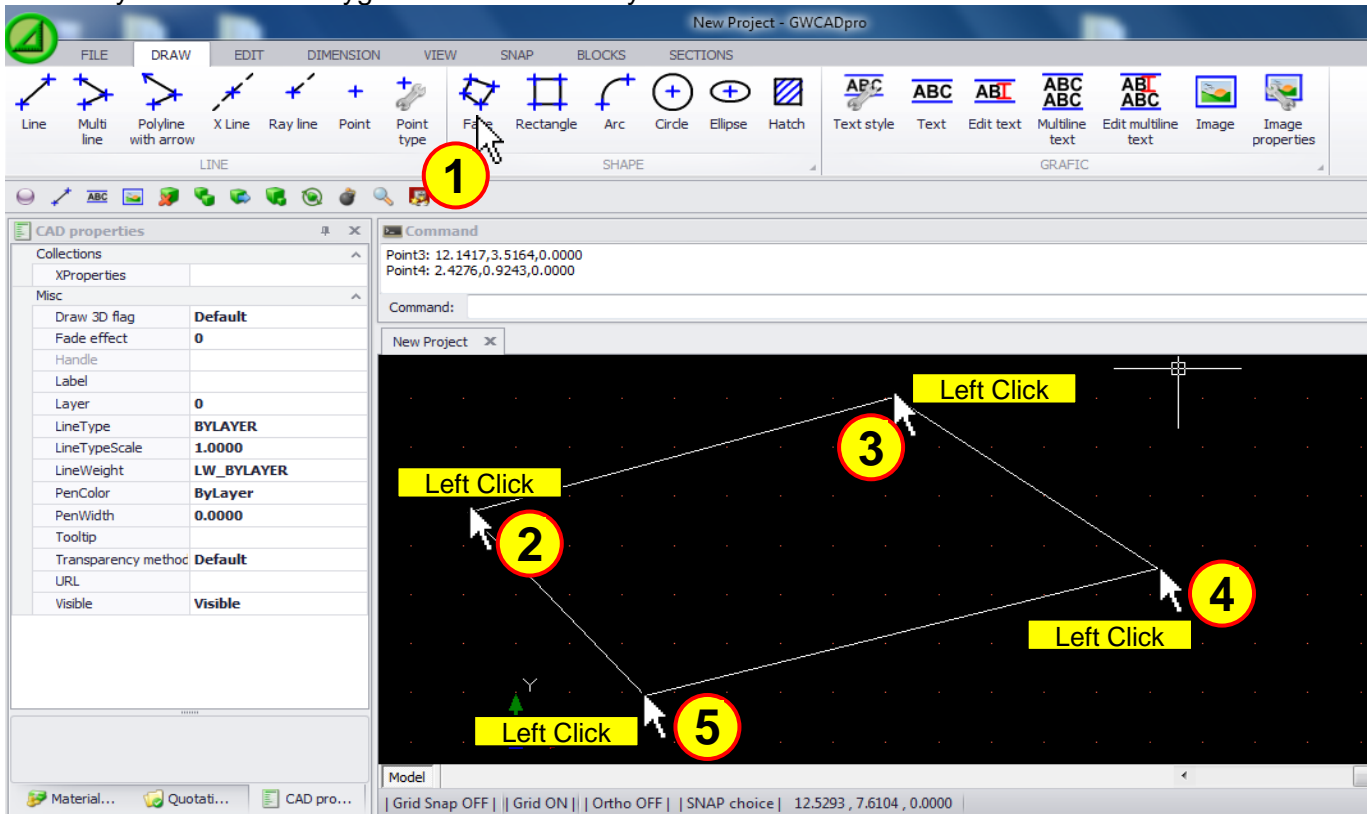


...in this way:

- 1) Edit the graphic sign
- 2) Add a circle or a square to the point
- 3) Define the size

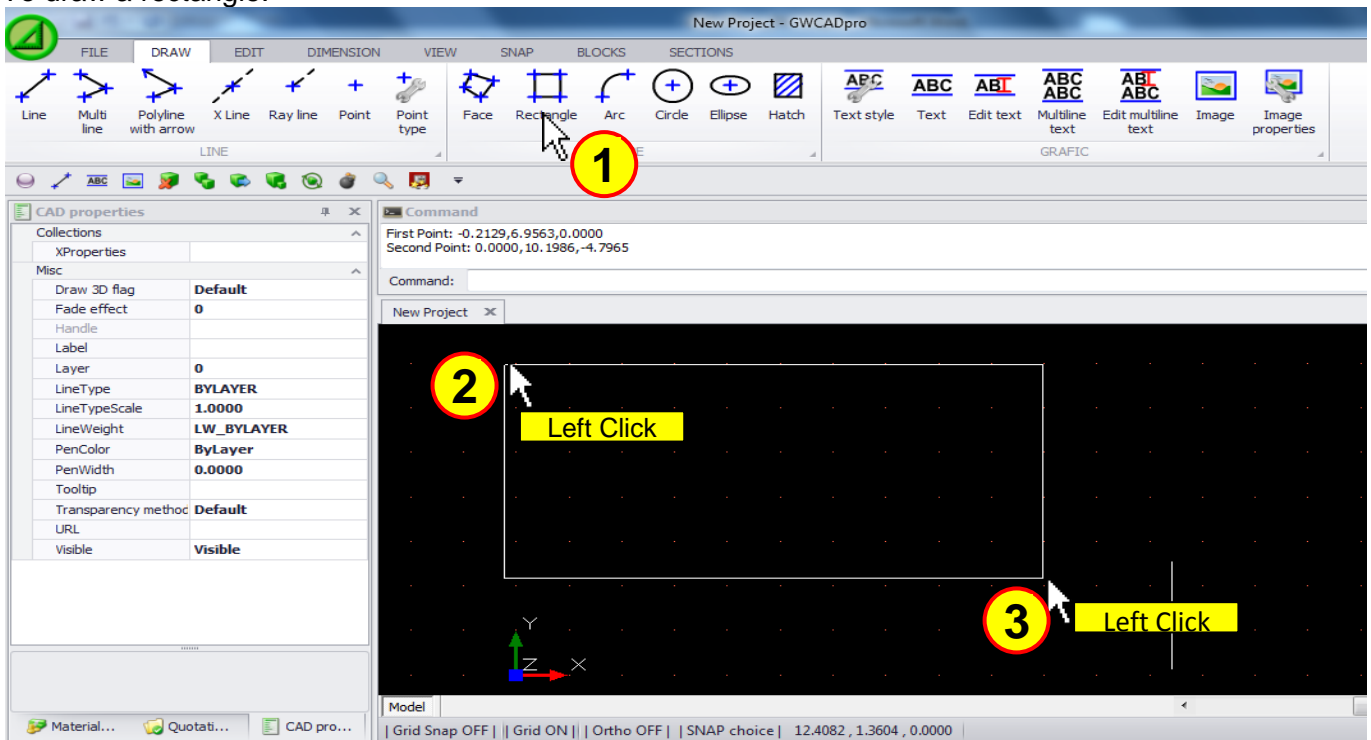
1108 - Polygon with four sides

It allows you to draw a Polygon with four sides by the mouse:



1109 - Rectangle

To draw a rectangle:

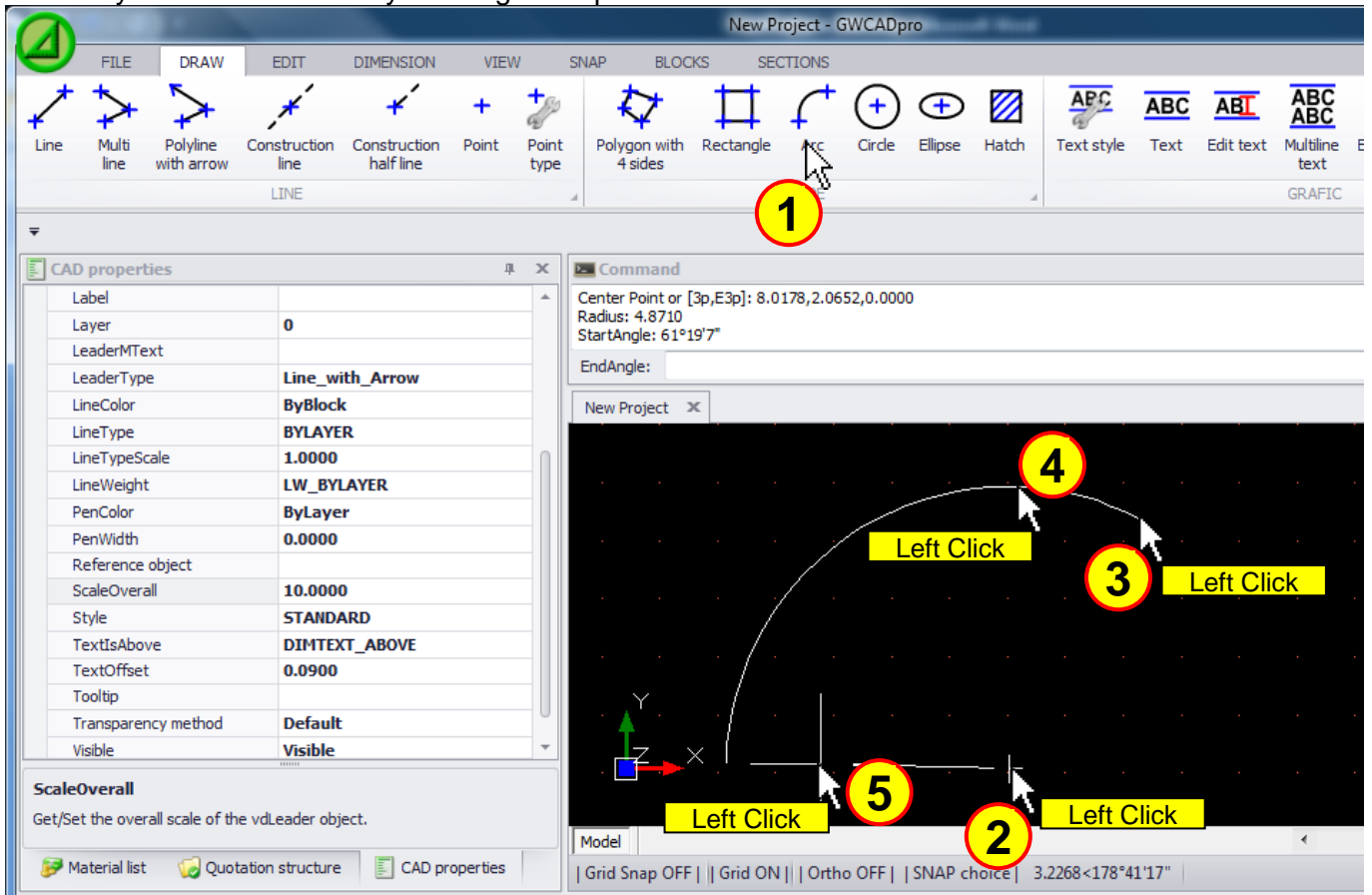


You can set the size of the rectangle directly from the command bar by this syntax **@Lo,Lv** (Lo is the length of the horizontal side, Lv is the length of the vertical side). This command must be used after defining the starting point (step 2)

Second Point: @10,5

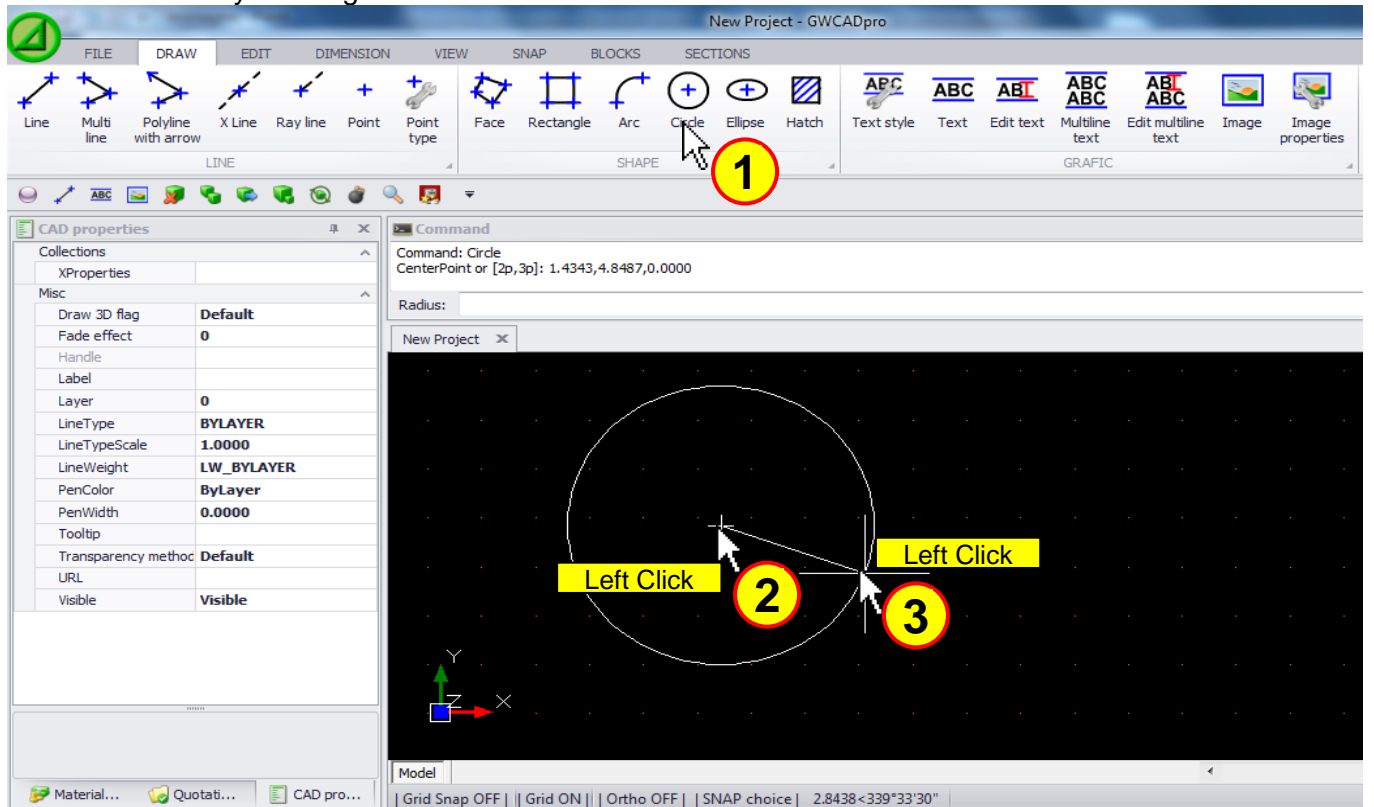
1110 - Arc

It allows you to draw curves by defining three points:



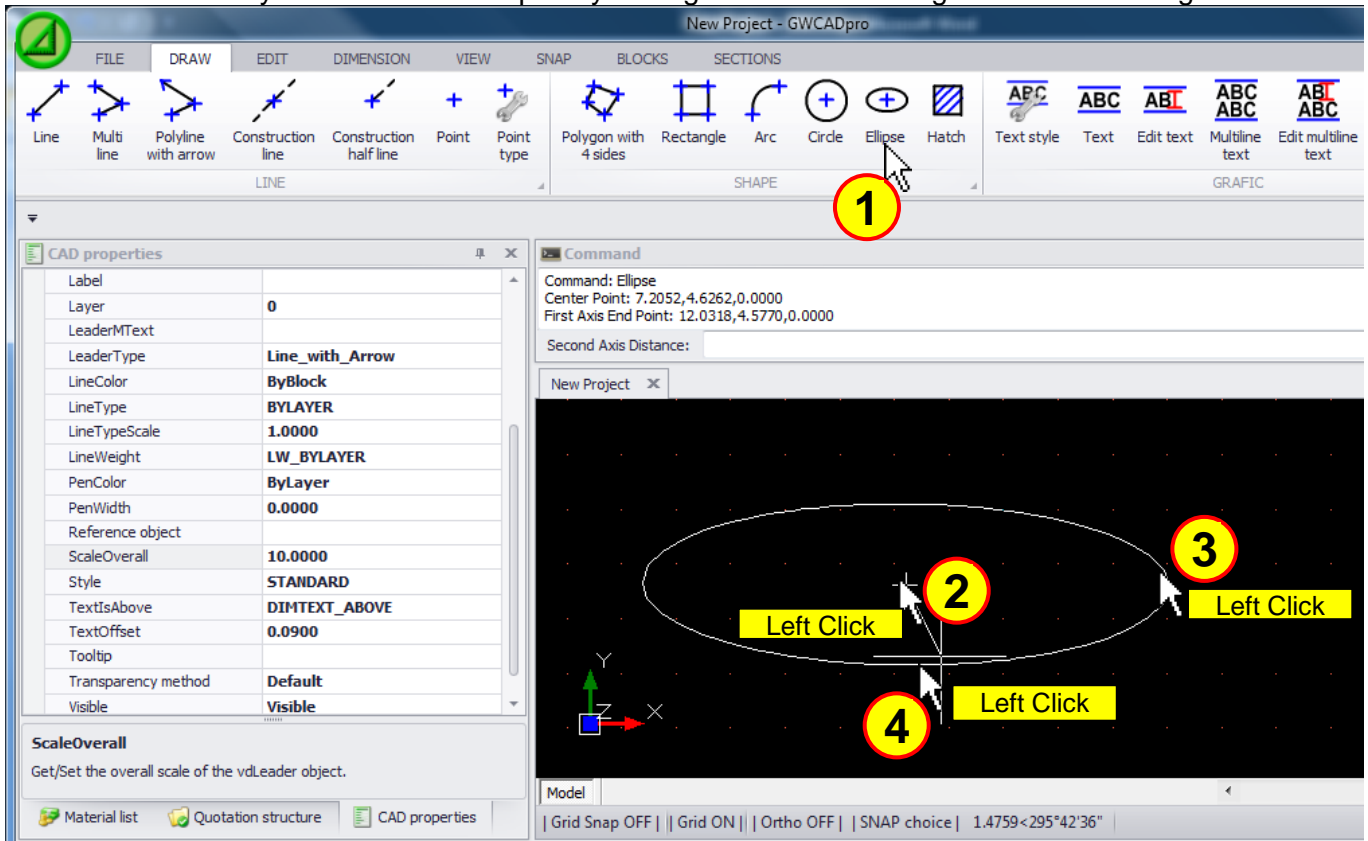
1111 - Circle

To draw a circle by defining the center and the radius:



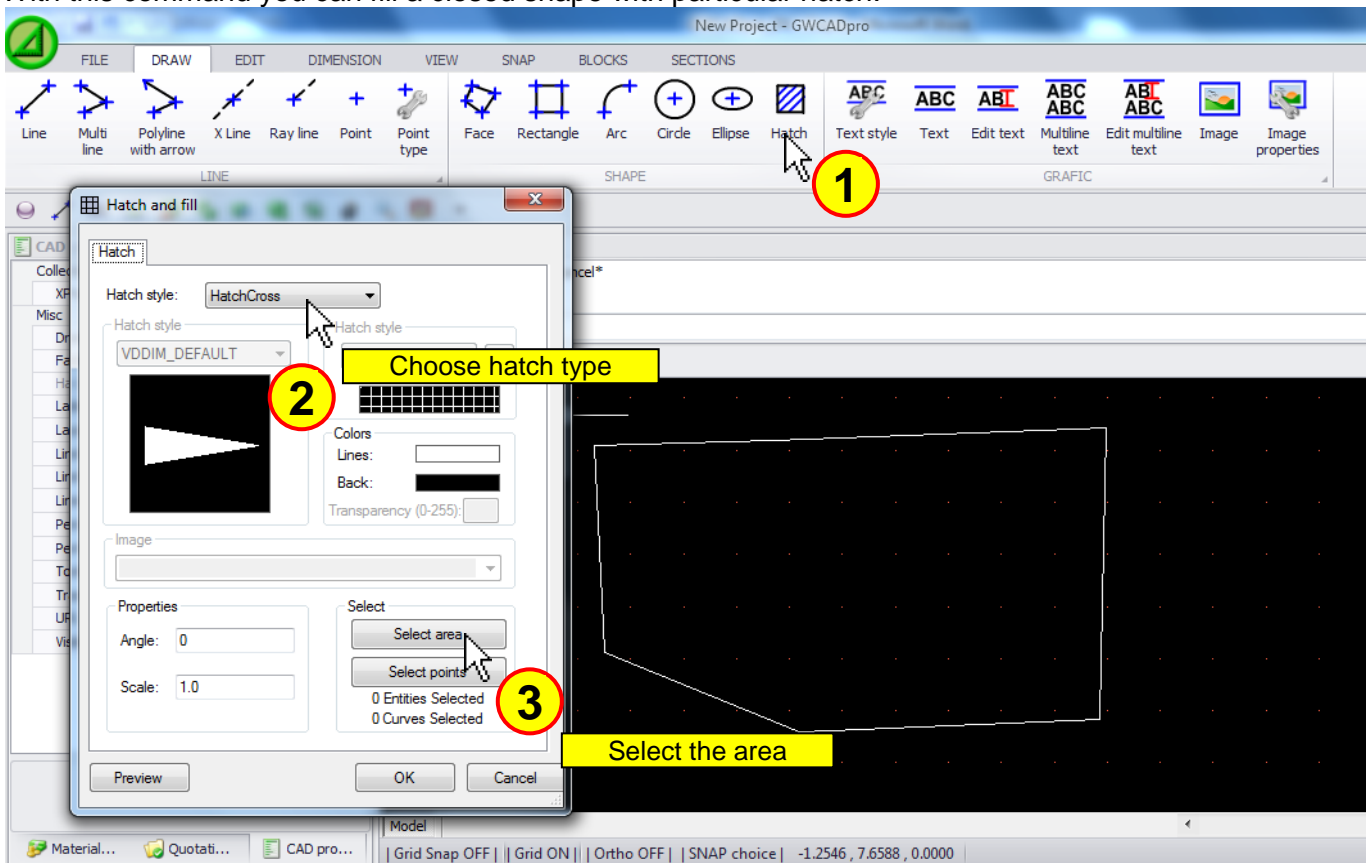
1112 - Ellipse

With this command you can draw an ellipse by setting the horizontal length and vertical length:

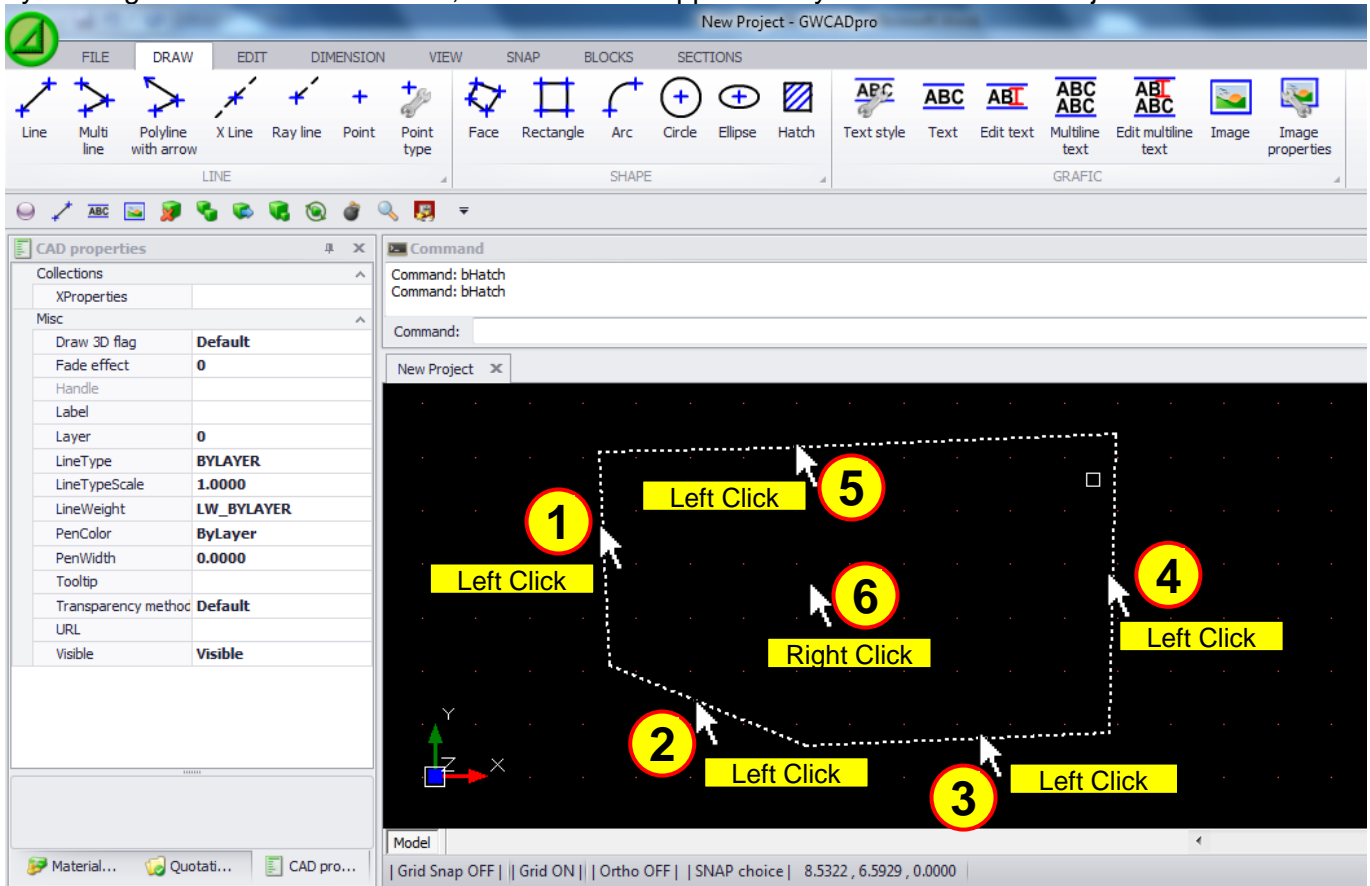


1113 - Hatch

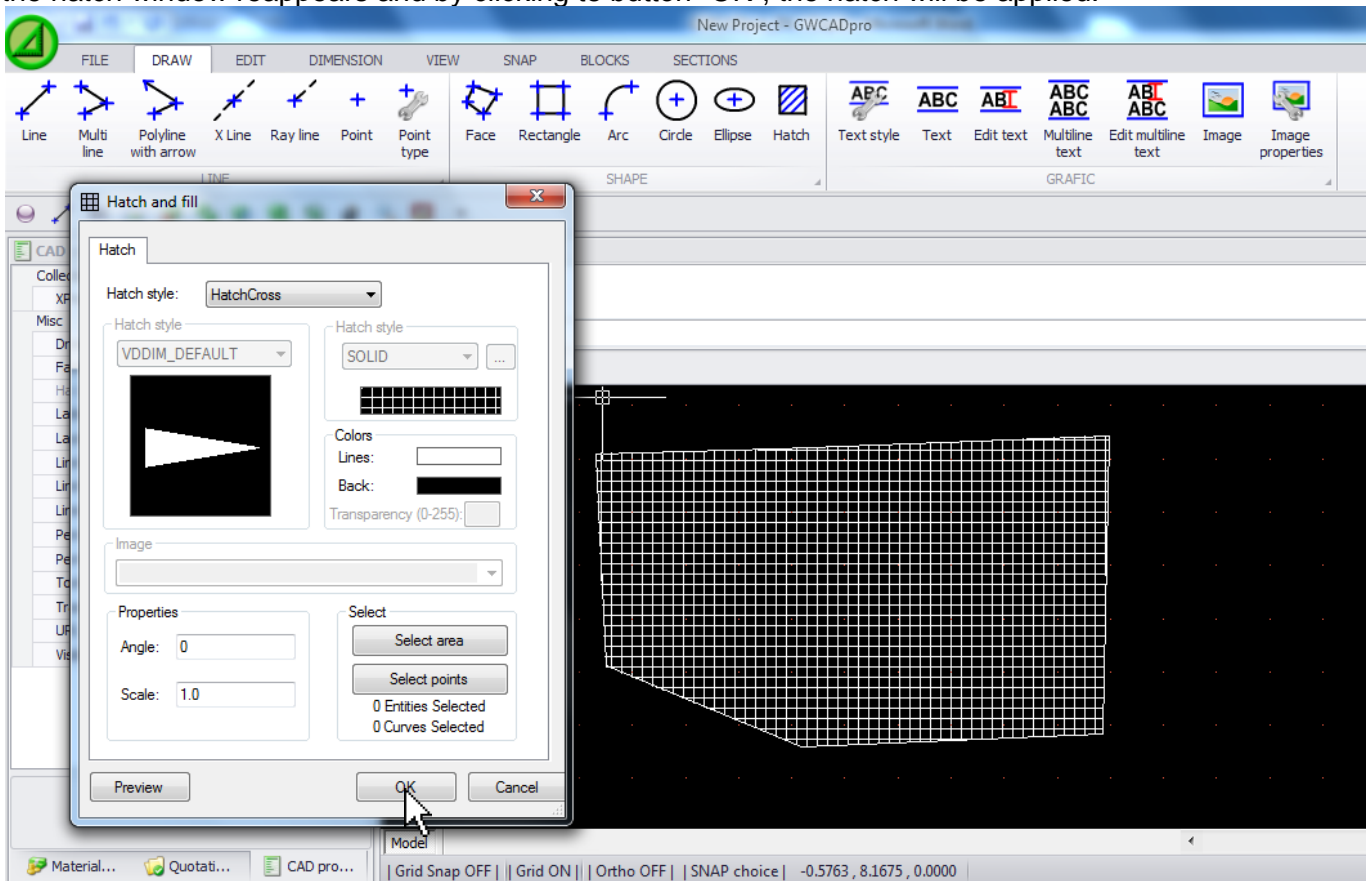
With this command you can fill a closed shape with particular hatch:



By clicking the button "select area", the window disappears so you can select the objects of the area:

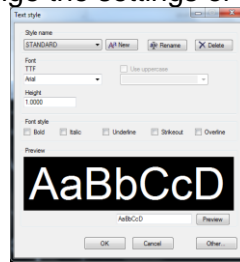


After the chose of the objects that constitute the shape, by clicking with the right mouse button (step 6) the hatch window reappears and by clicking te button "OK", the hatch will be applied:



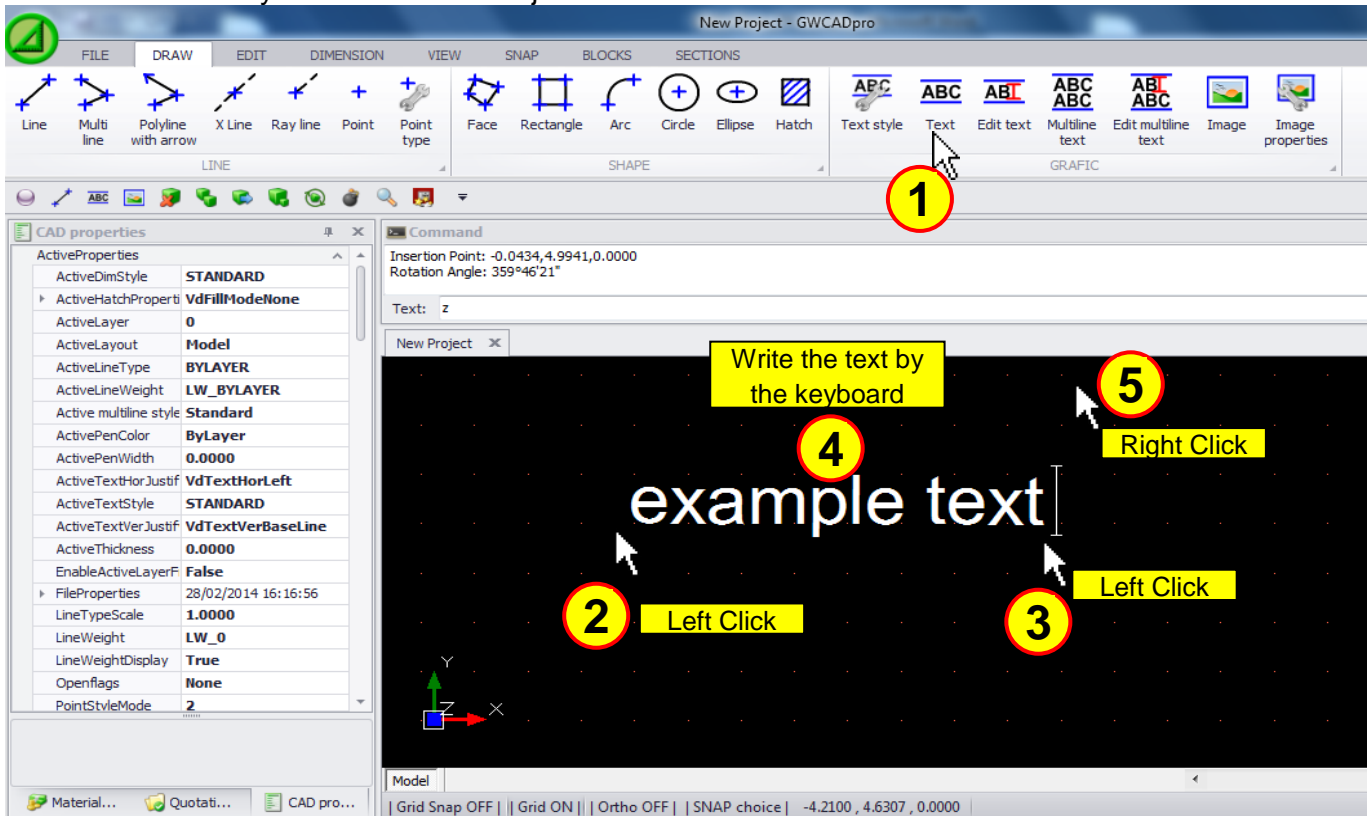
1114 - Text style

With the command Text style you can change the settings of text objects:



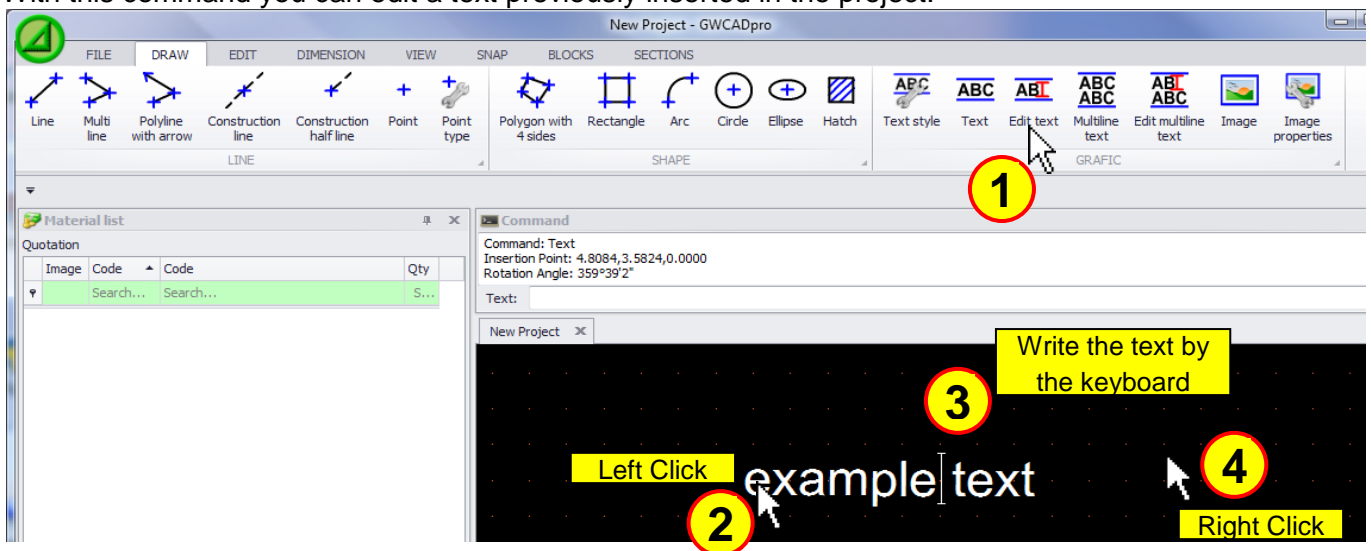
1115 - Text

With this command you can insert the object text:



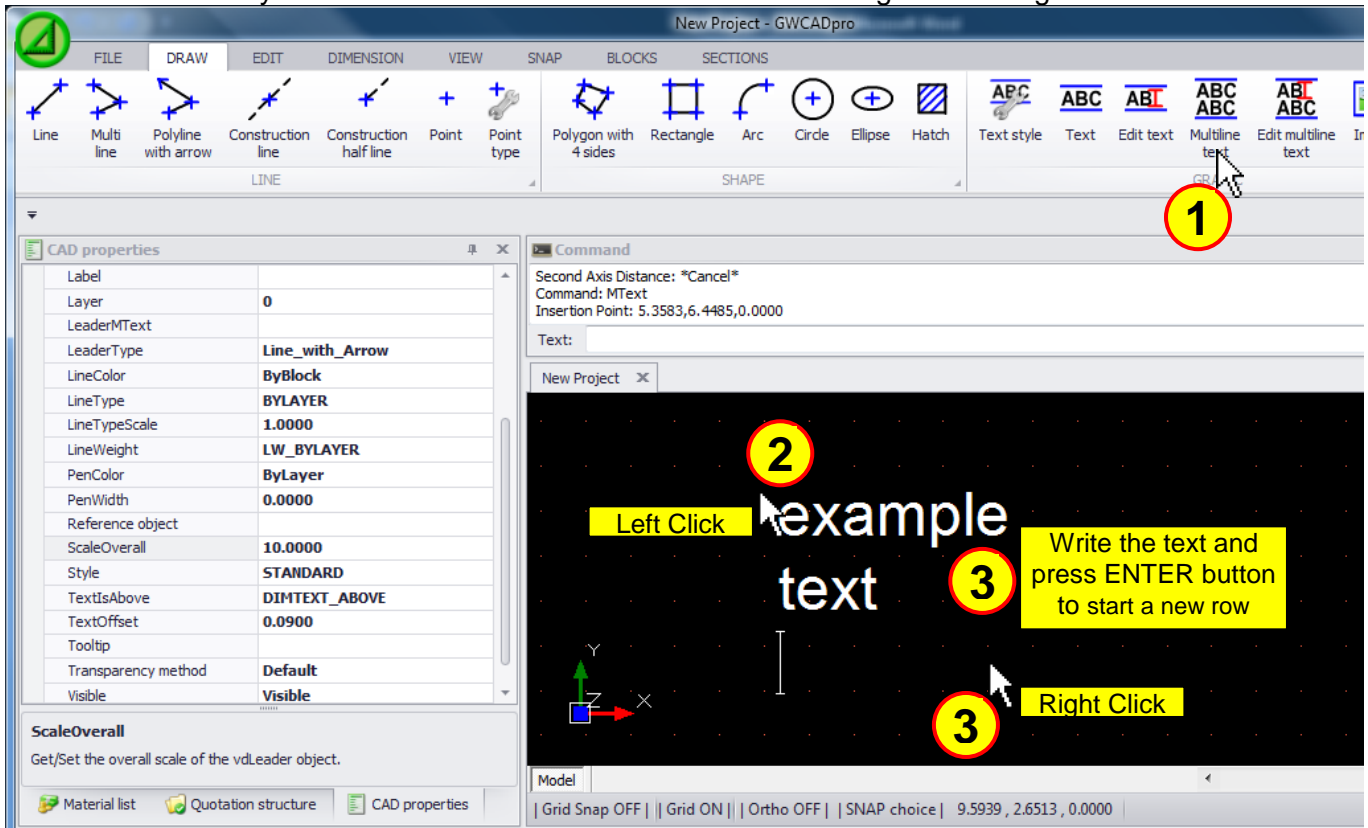
1116 - Edit text

With this command you can edit a text previously inserted in the project:



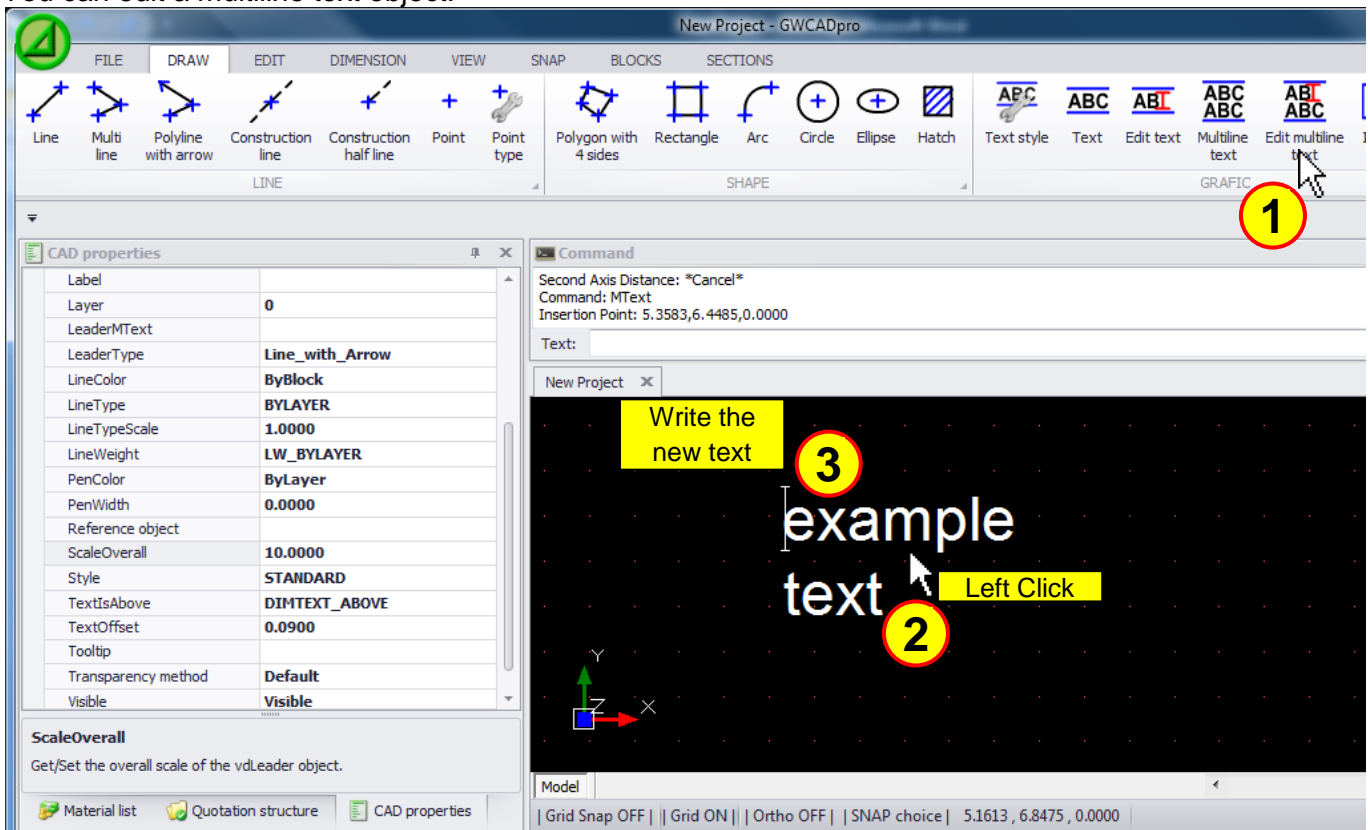
1117 - Multiline text

With this command you can insert a multi-line text that will be managed as a single block:



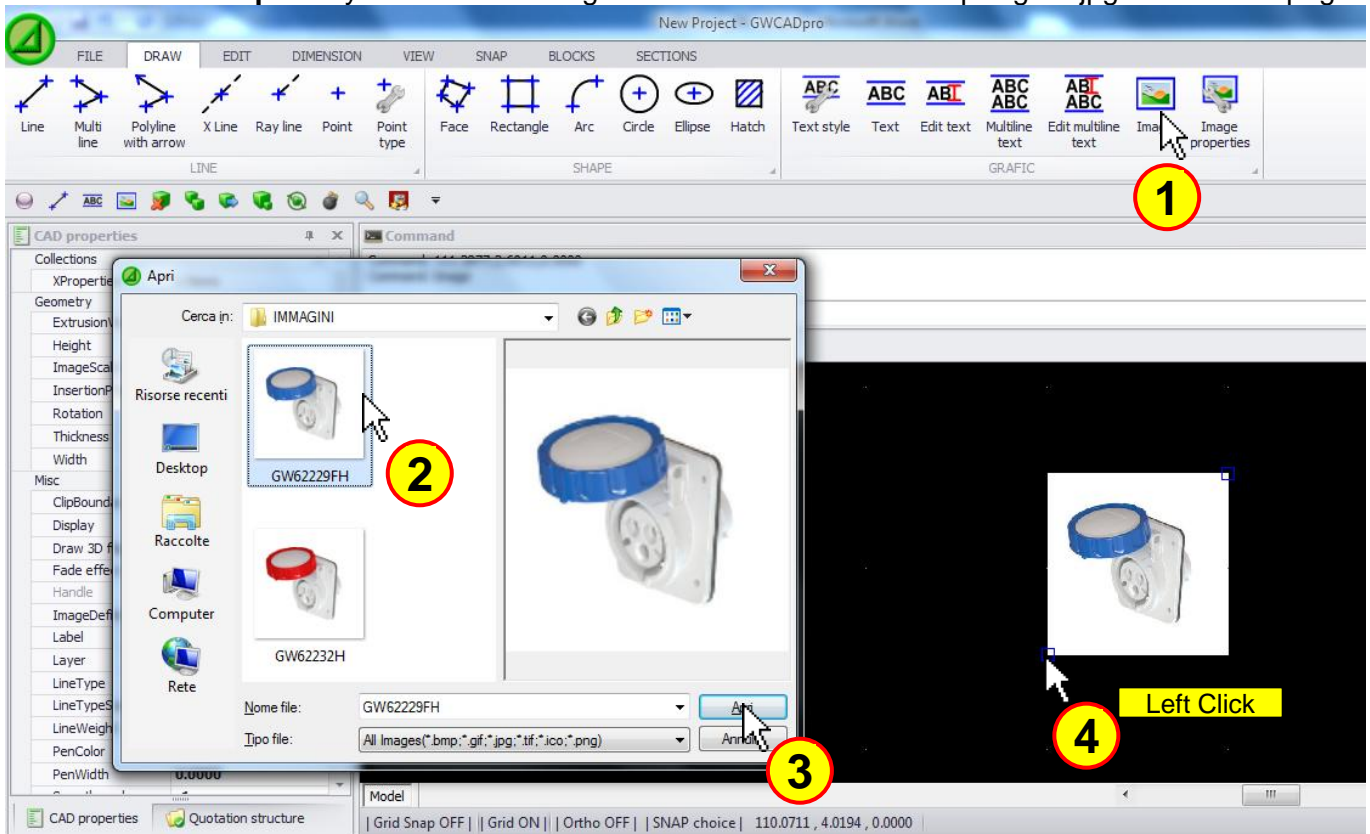
1118 - Edit multiline text

You can edit a multiline text object:



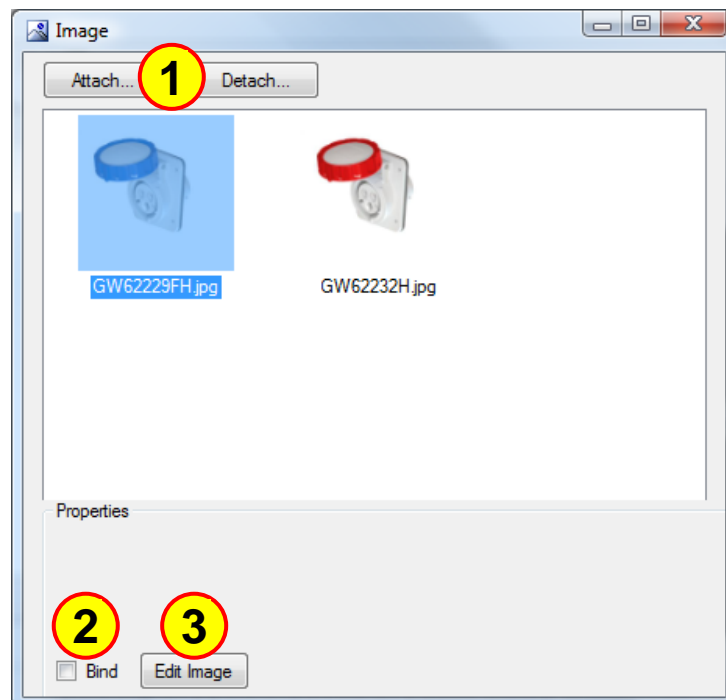
1119 - Image

In the “CAD workspace” you can insert images with various format: *.bmp *.gif *.jpg *.tif *.ico *.png:



1120 - Image properties

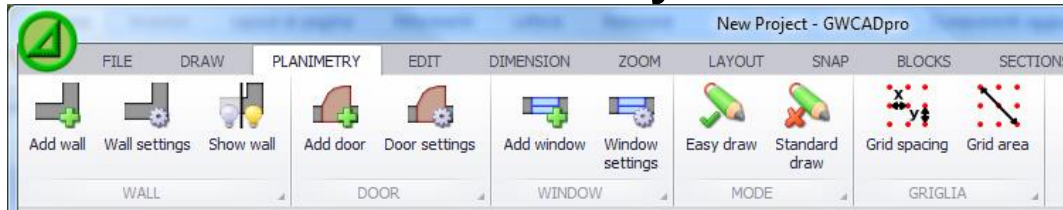
In this window there are the images inserted in the project:



The commands in this window are these:

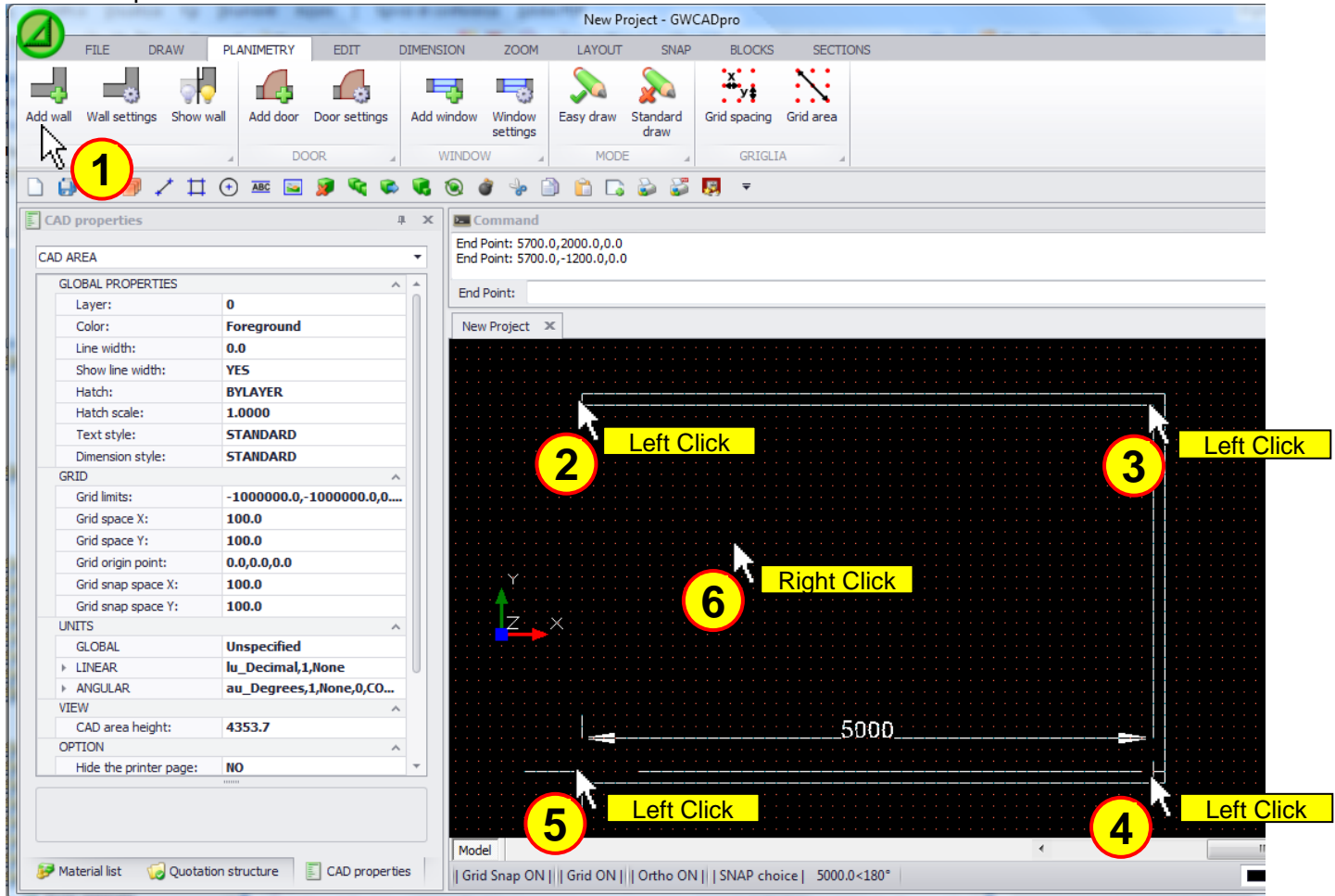
- 1) Attach new images or remove existing ones
- 2) Bind the selected image in the project file
- 3) Edit the selected image

1200 - Planimetry Menu



1201 - Add wall

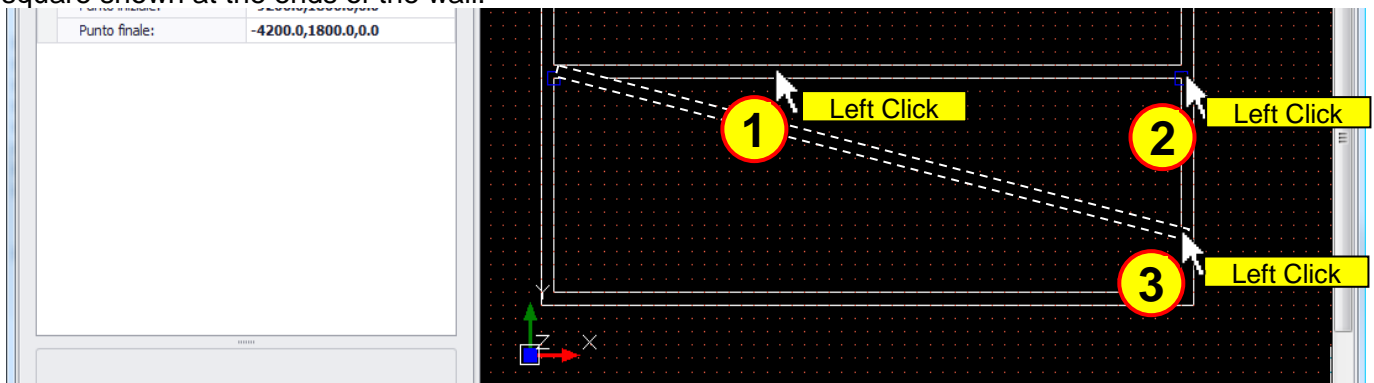
With this command is possible to draw the walls for the planimetry in the CAD workspace, while drawing the wall a quotation is shown with unit millimeters:



Is also possible to draw the wall directly from the command bar using this syntax: **@L<A**

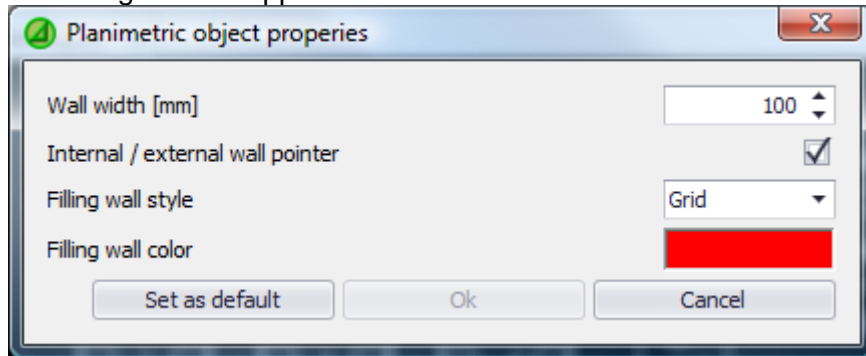
(L = Length of the line; A = Angle in degrees of the line)

To move a wall inserted in the planimetry, is necessary to select it by the mouse and dragging the blue square shown at the ends of the wall:

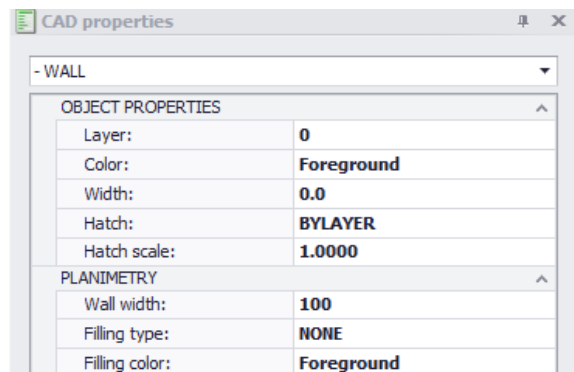


1202 - Wall settings

With this command is possible to set the default parameters for the wall, when you click on the button "Set as default" these settings will be applied to the next wall drawn:

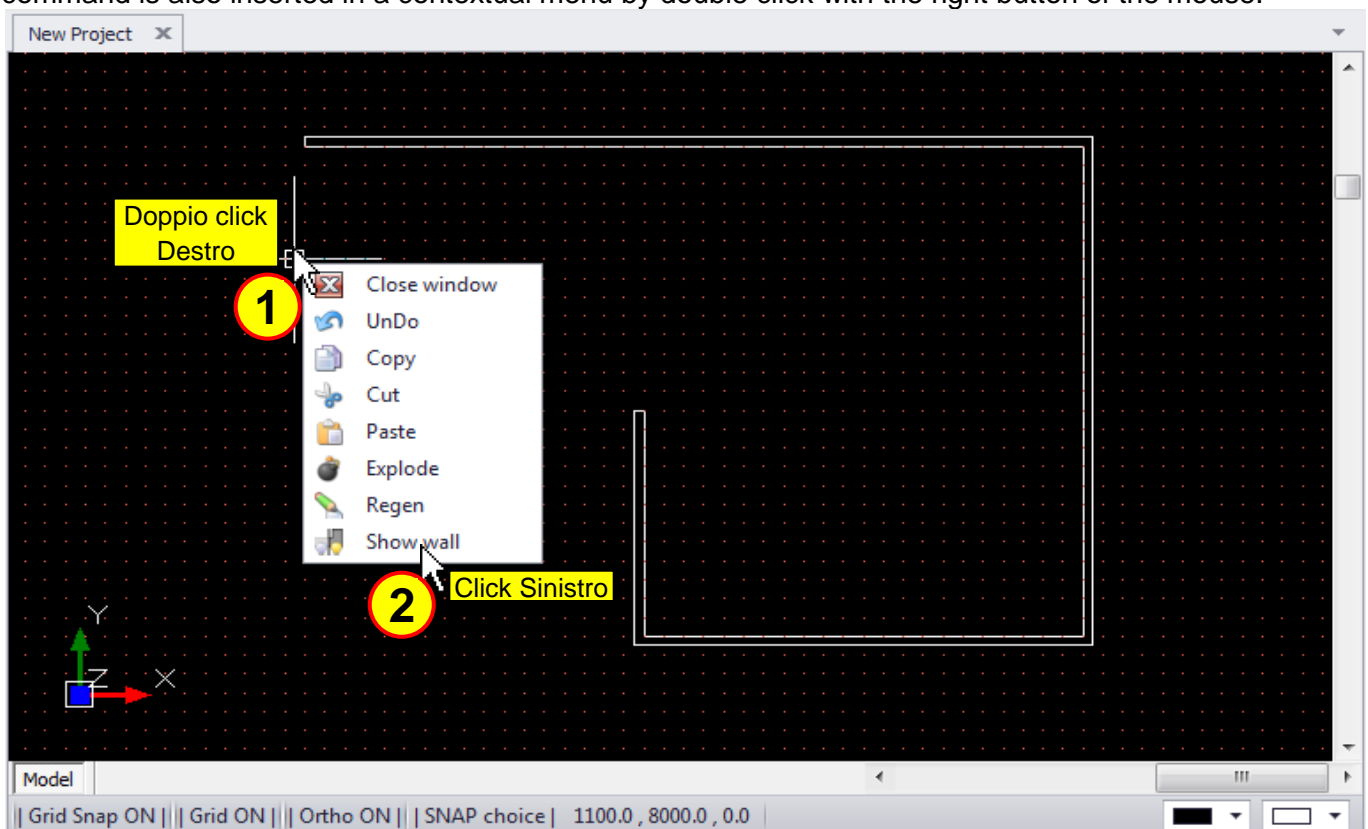


To modify a wall inserted in the project is also possible set the parameters in the section "CAD properties":



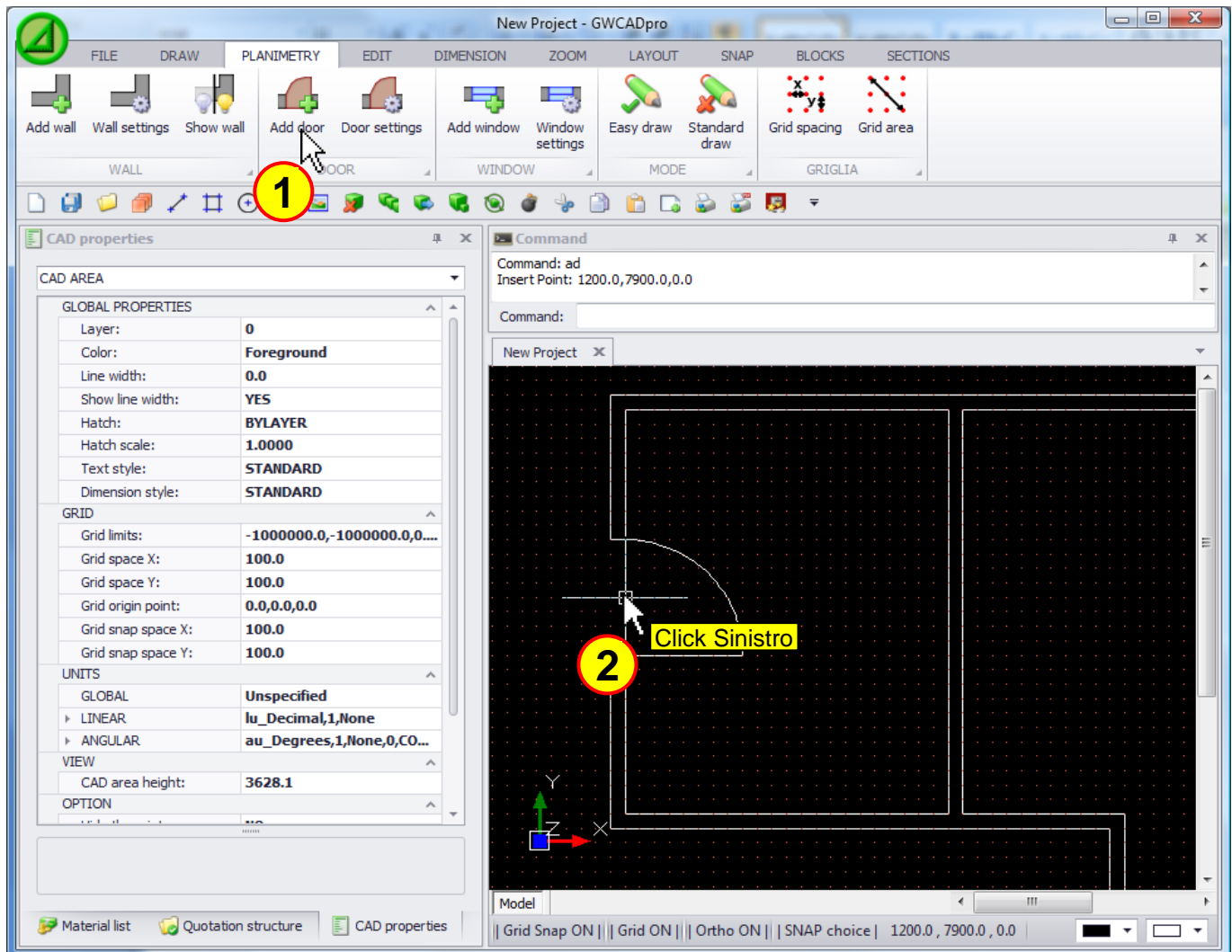
1203 - Show wall

This command permits to update the walls inserted in the planimetry when the walls are hidden; this command is also inserted in a contextual menu by double click with the right button of the mouse:

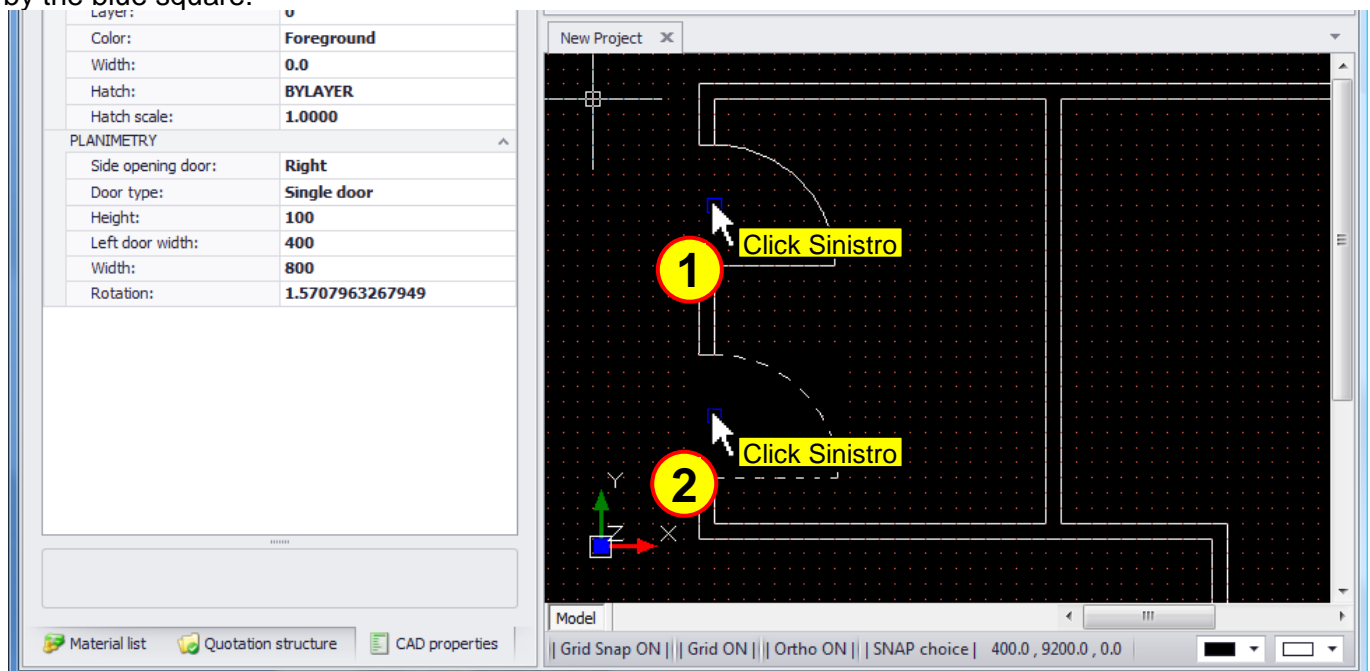


1204 - Add door

With this command is possible to insert a door inside the walls of the planimetry:

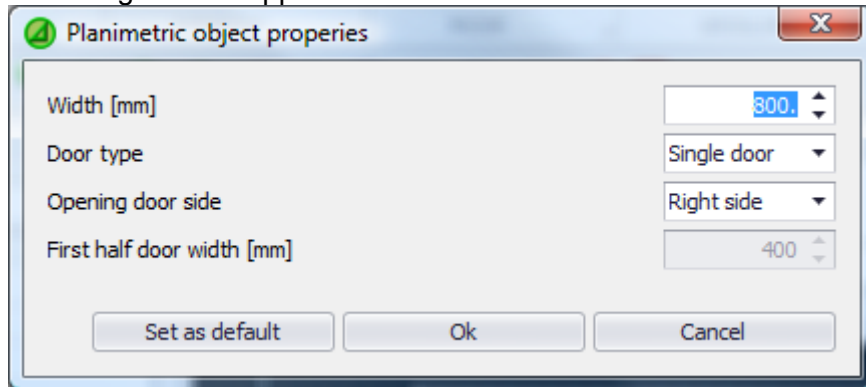


To move a door inserted in the planimetry is necessary to select the door and dragging it with the mouse by the blue square:

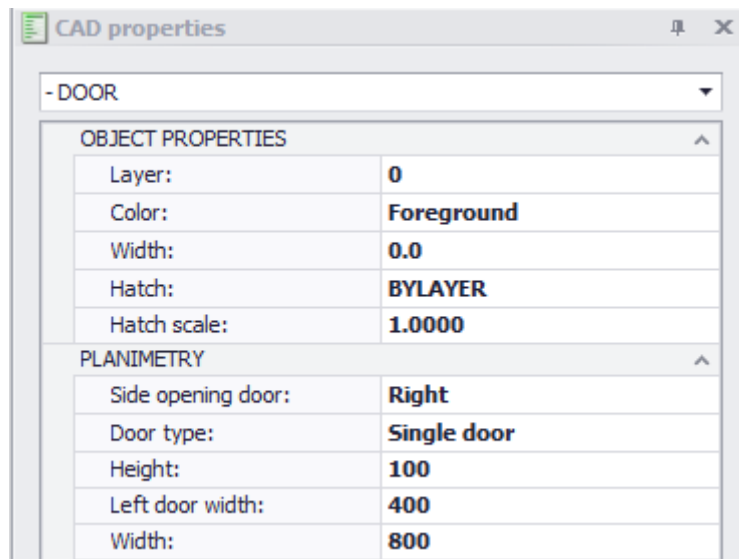


1205 - Door settings

With this command is possible to set the default parameters for the doors, when you click on the button “Set as default” these settings will be applied to the next doors drawn:

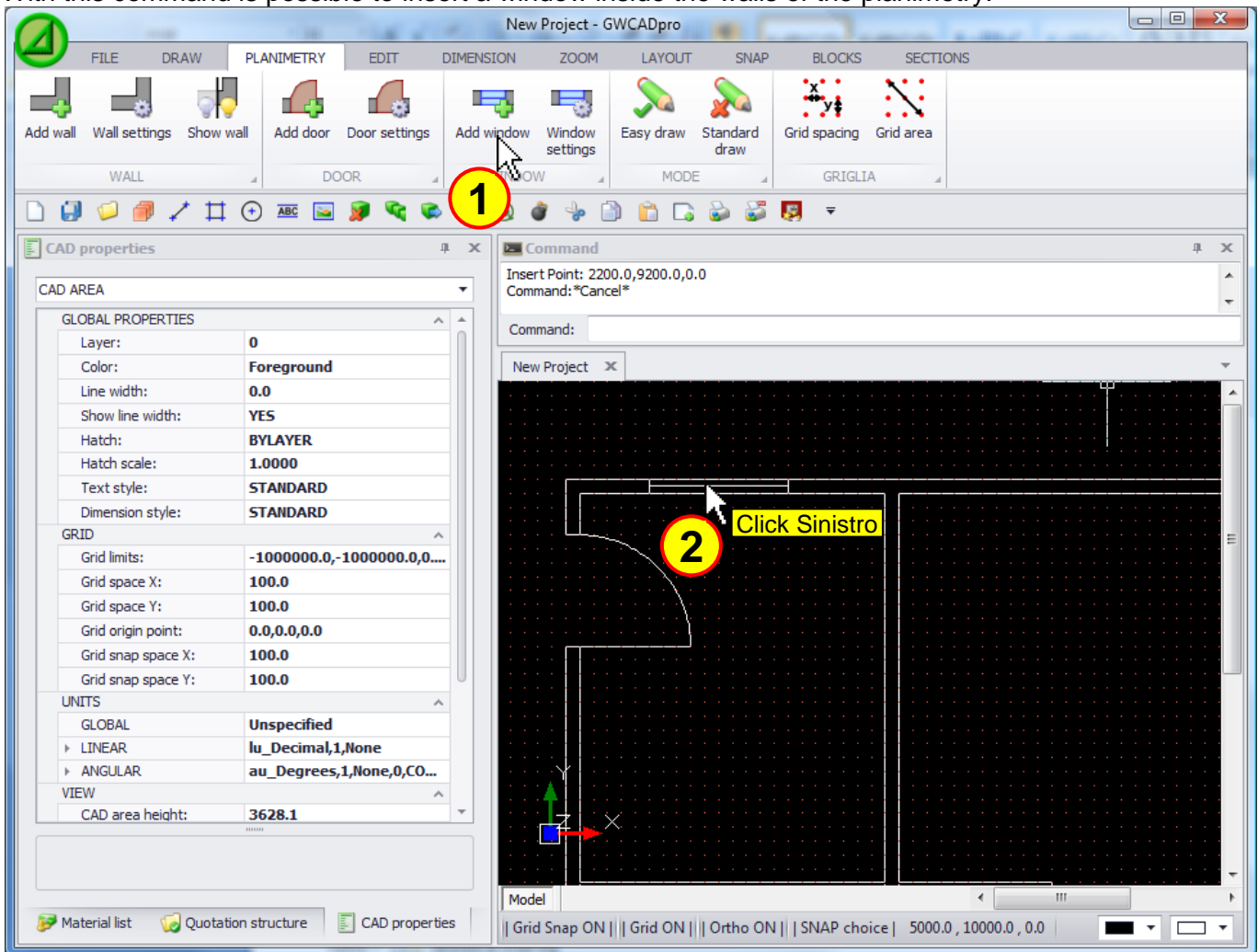


To modify a door inserted in the project is also possible set the parameters in the section “CAD properties”:

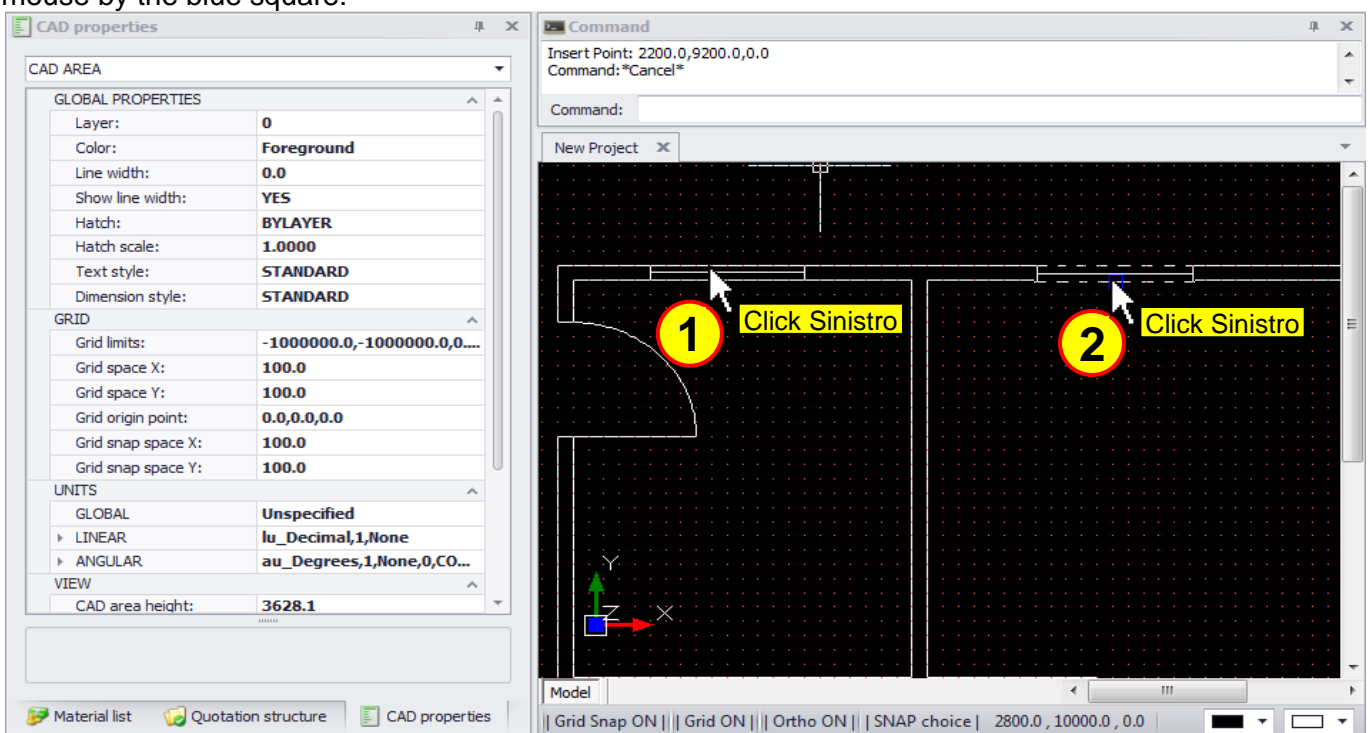


1206 - Add window

With this command is possible to insert a window inside the walls of the planimetry:

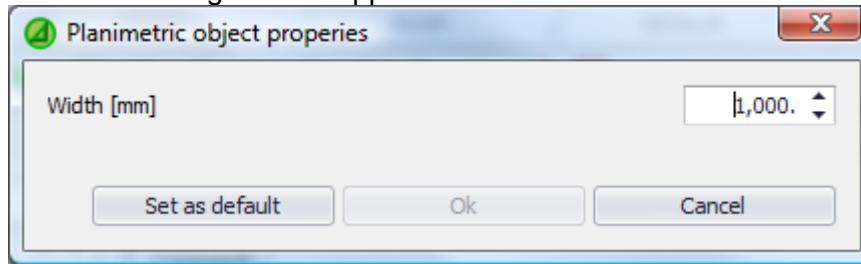


To move a window inserted in the planimetry is necessary to select the window and dragging it with the mouse by the blue square:

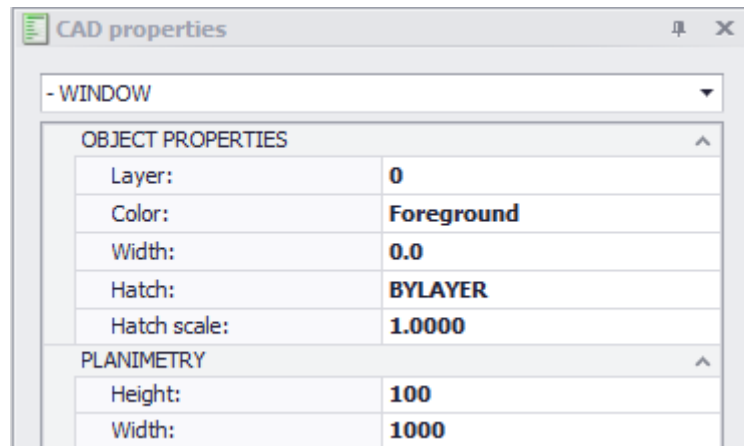


1207 - Window settings

With this command is possible to set the default parameters for the windows, when you click on the button "Set as default" these settings will be applied to the next windows drawn:

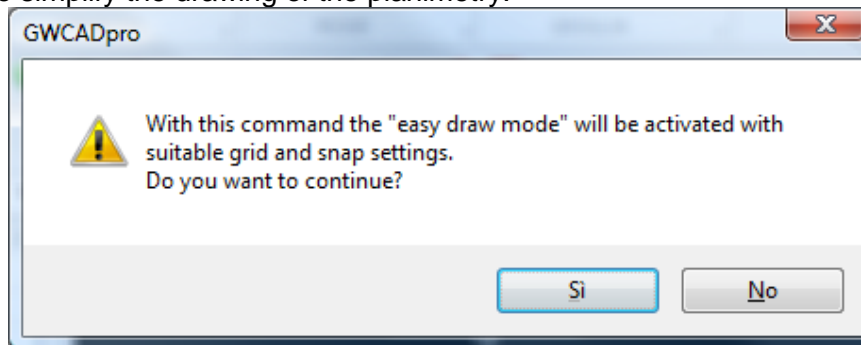


To modify a window inserted in the project is also possible set the parameters in the section "CAD properties":



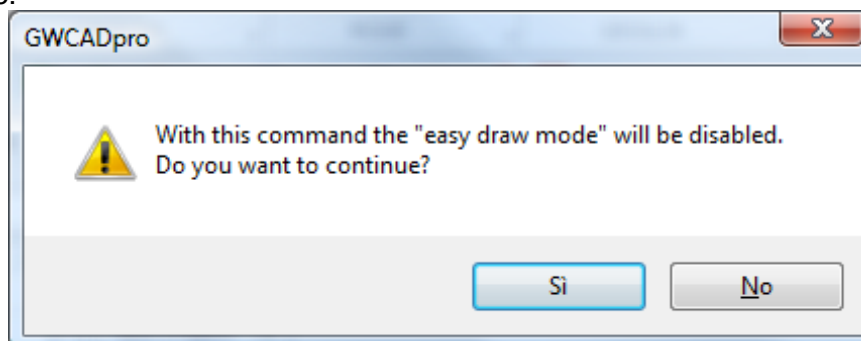
1208 - Easy draw

By this button the **planimetry easy draw mode** will be activated and the: orto, snap and grid will be automatically set to simplify the drawing of the planimetry:



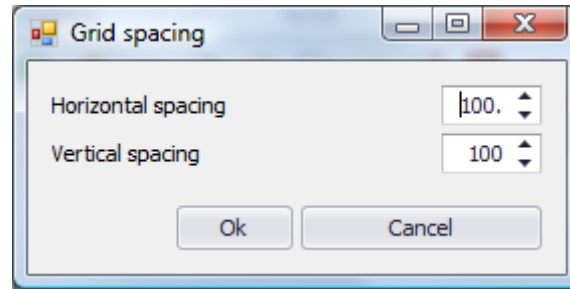
1209 - Standard draw

By this button the **planimetry easy draw mode** will be disabled and the: orto, snap and grid will be set to the default value:



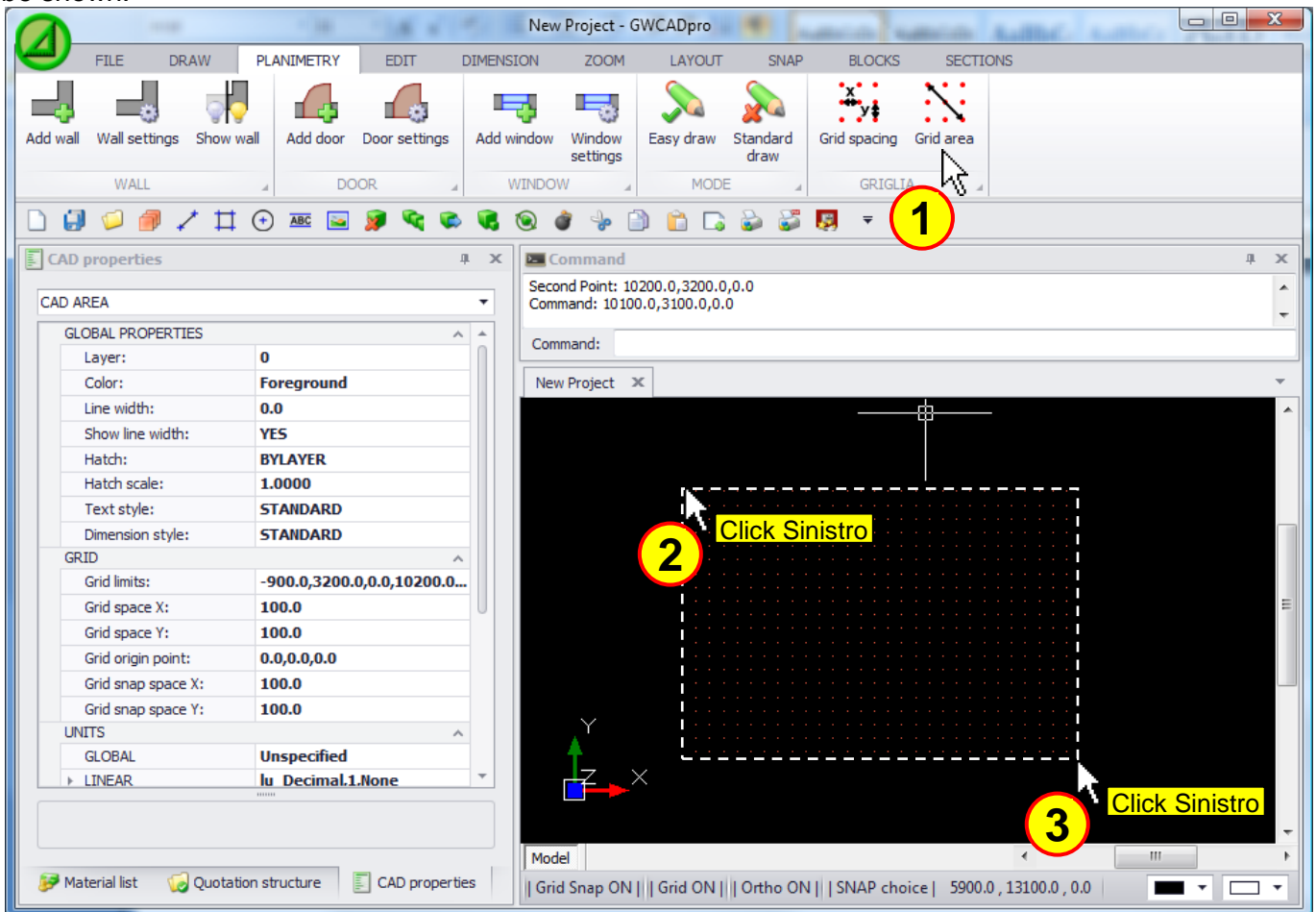
1210 - Grid spacing

With this command is possible to set the vertical and horizontal spacing for the grid shown in the CAD workspace:

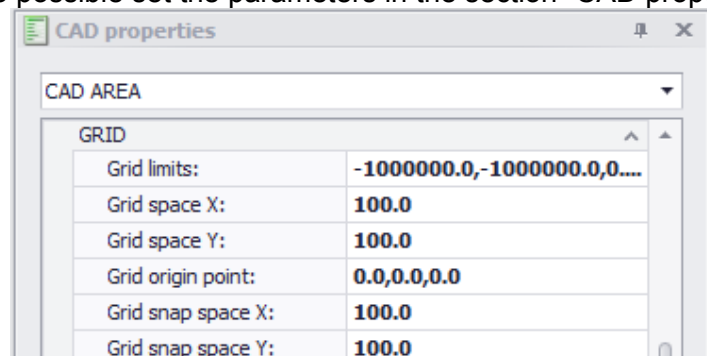


1211 - Grid area

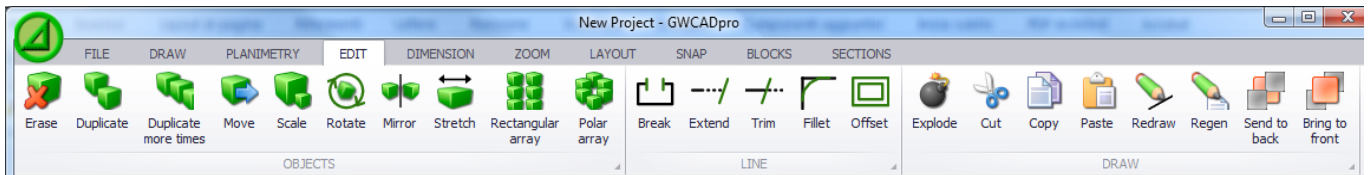
With this command is possible to set the grid area in the CAD workspace, outside this area the grid won't be shown:



To modify the grid is also possible set the parameters in the section "CAD properties":

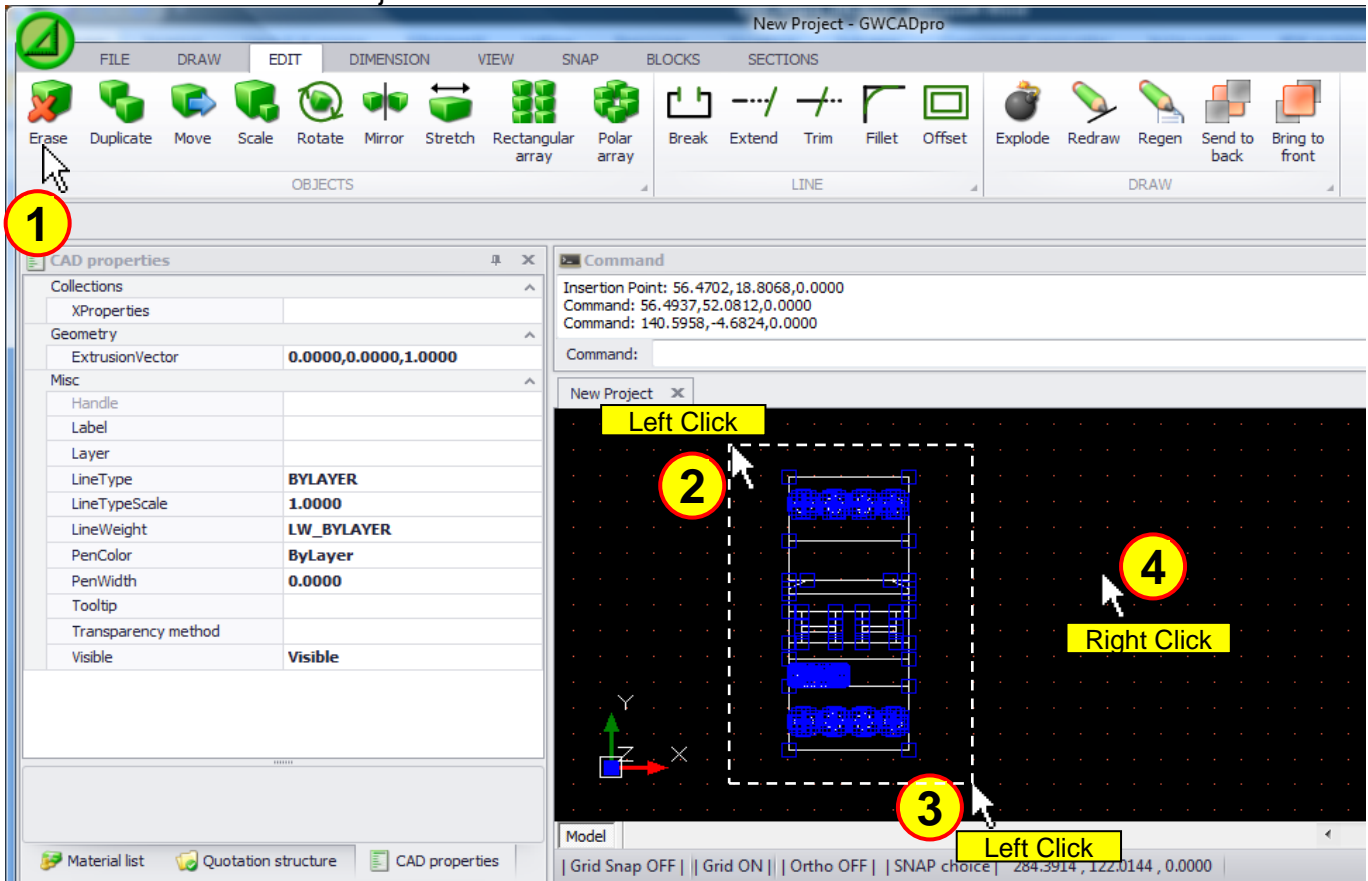


1300 – Edit Menu

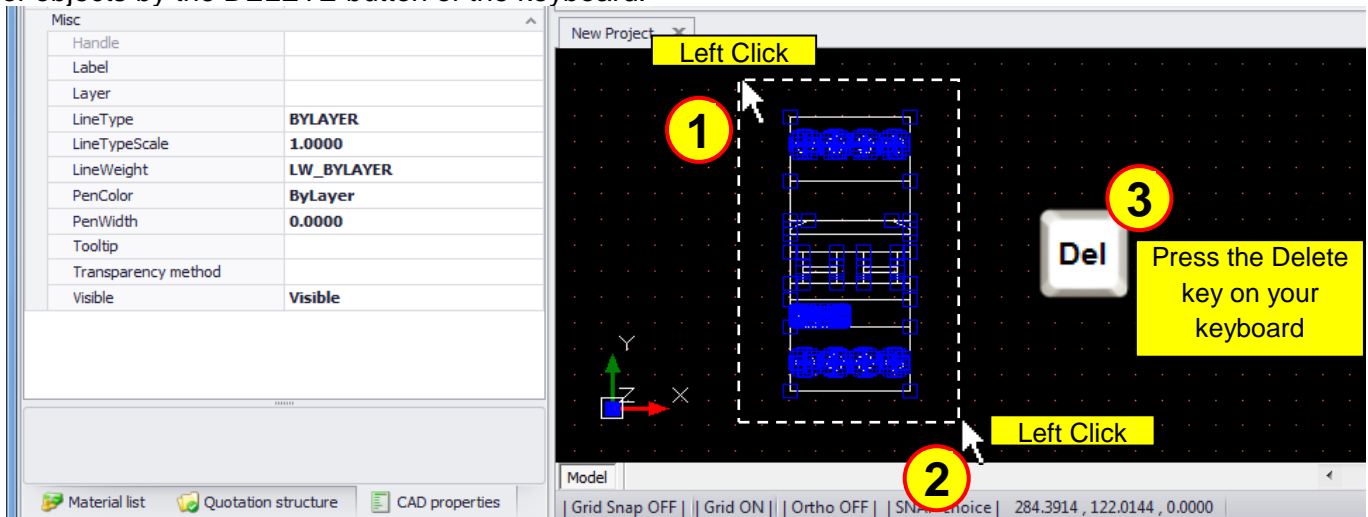


1301 - Erase

This command deletes an objects selection:

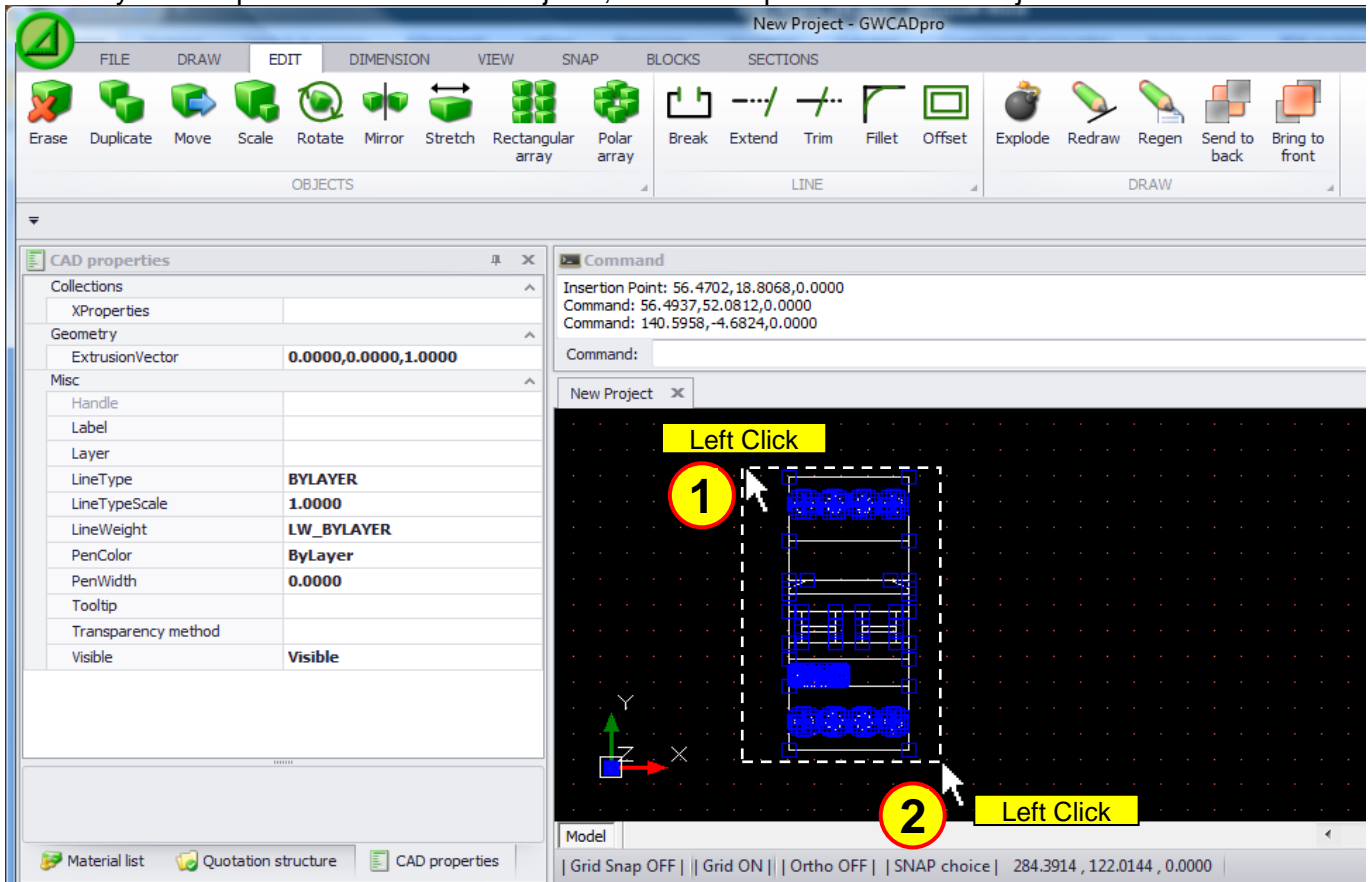


Is also possible to select the objects before pressing the “**Erase**” button and you can delete a selection of objects by the DELETE button of the keyboard.

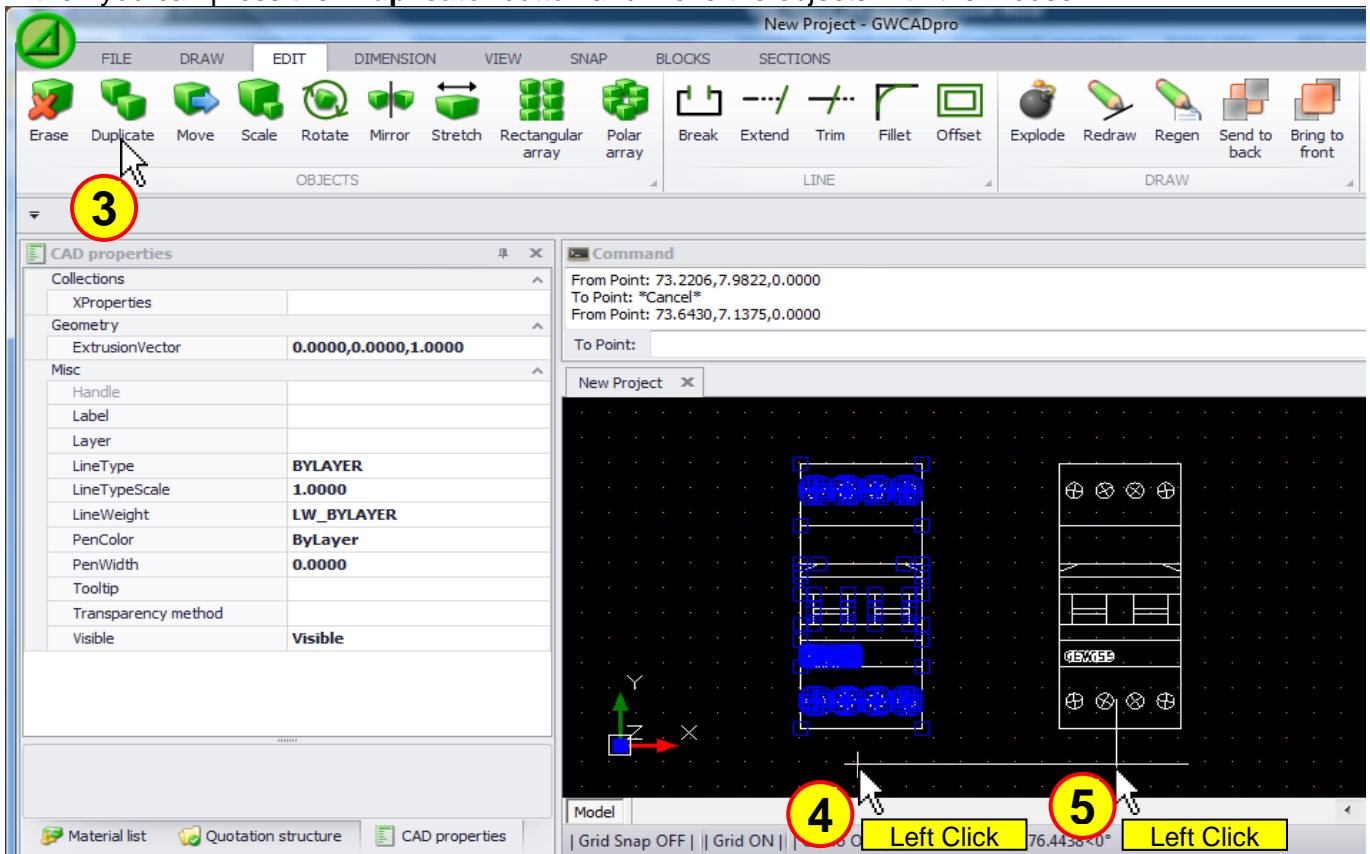


1302 - Duplicate

It allows you to duplicate a selection of objects, the first step is to select the objects...



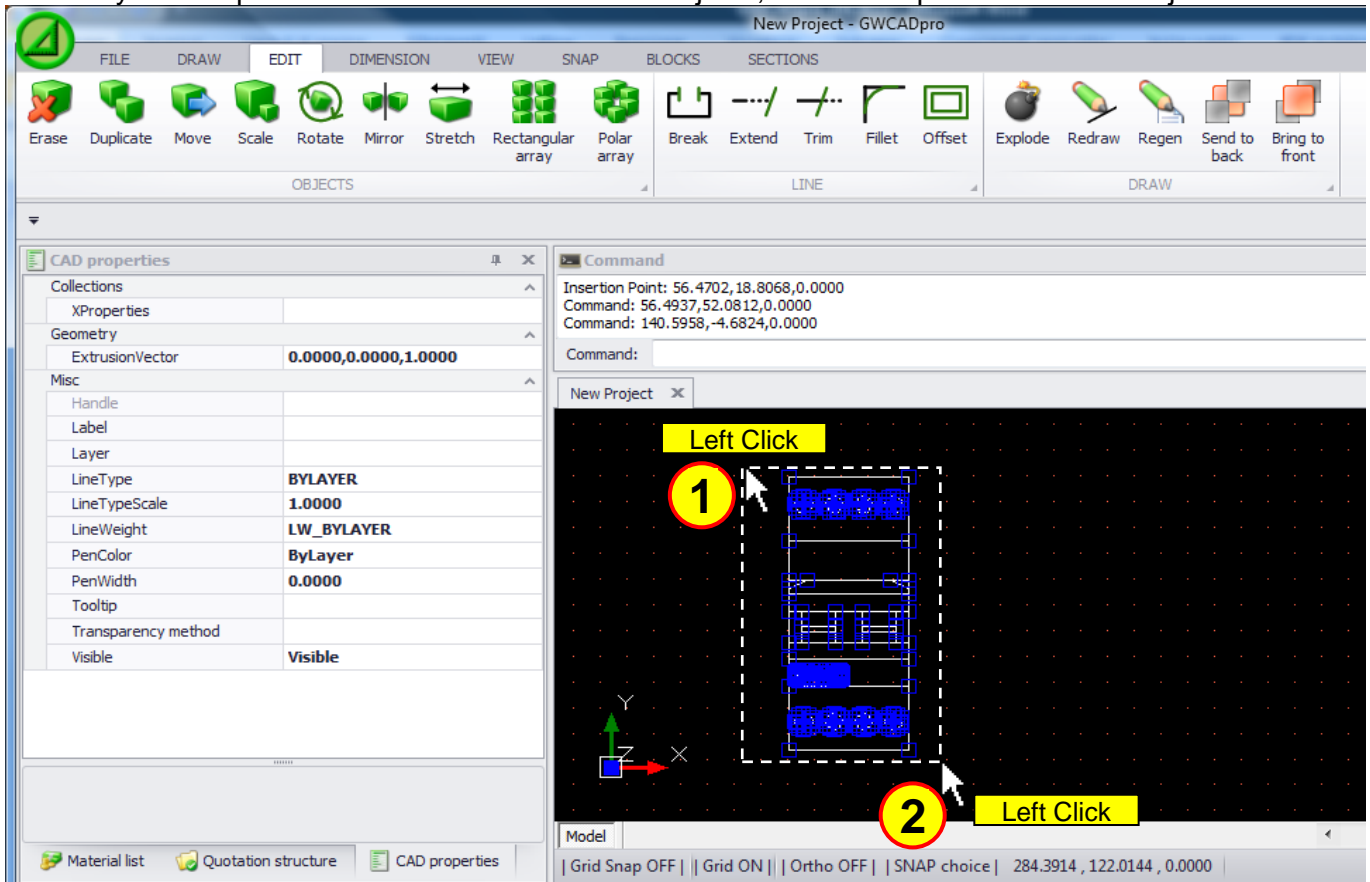
... then you can press the **"Duplicate"** button and move the objects with the mouse:



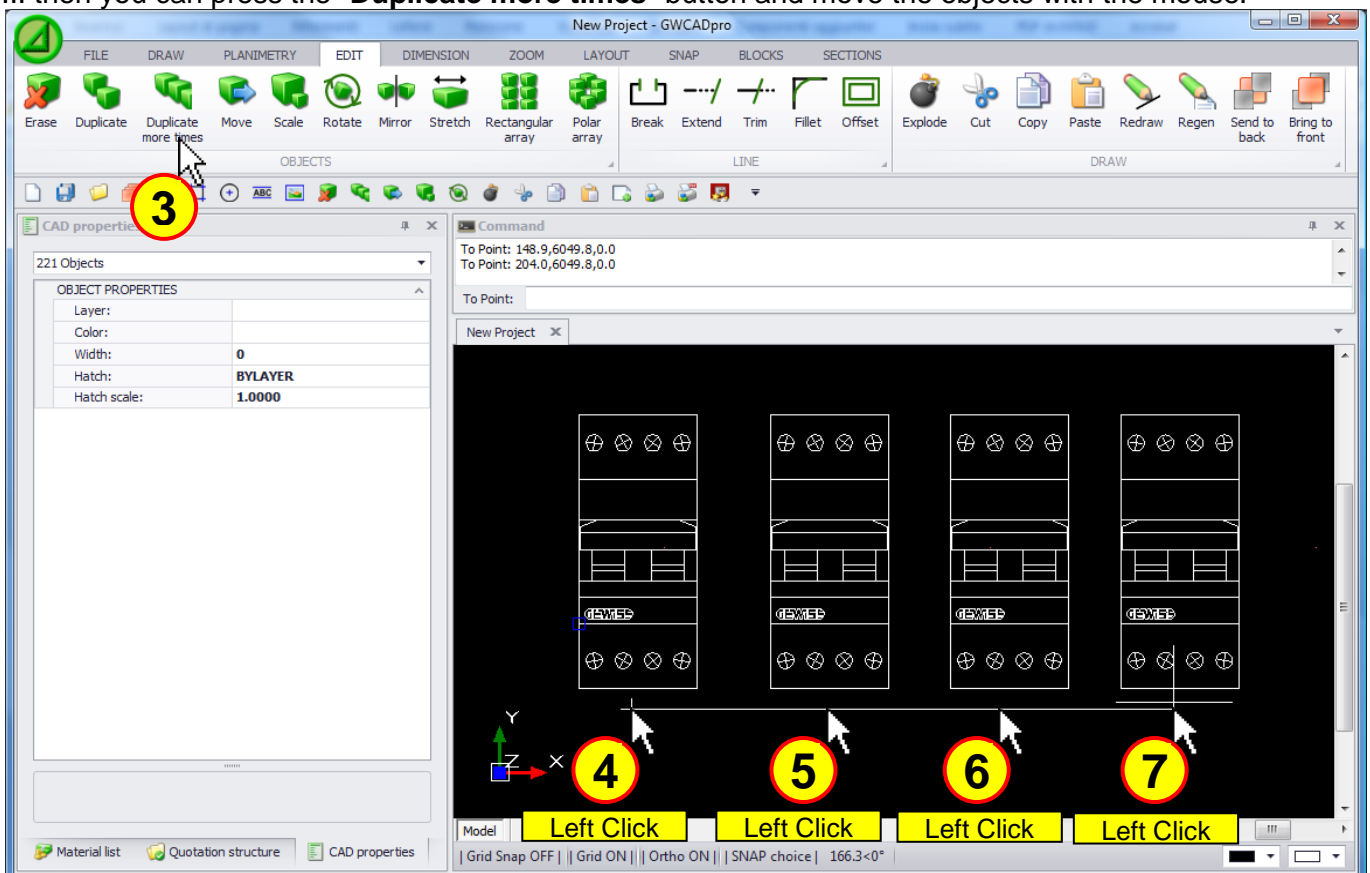
(The selection of objects can be done before or after pressing the **"Duplicate"** button)

1303 - Duplicate more times

It allows you to duplicate more times a selection of objects, the first step is to select the objects...



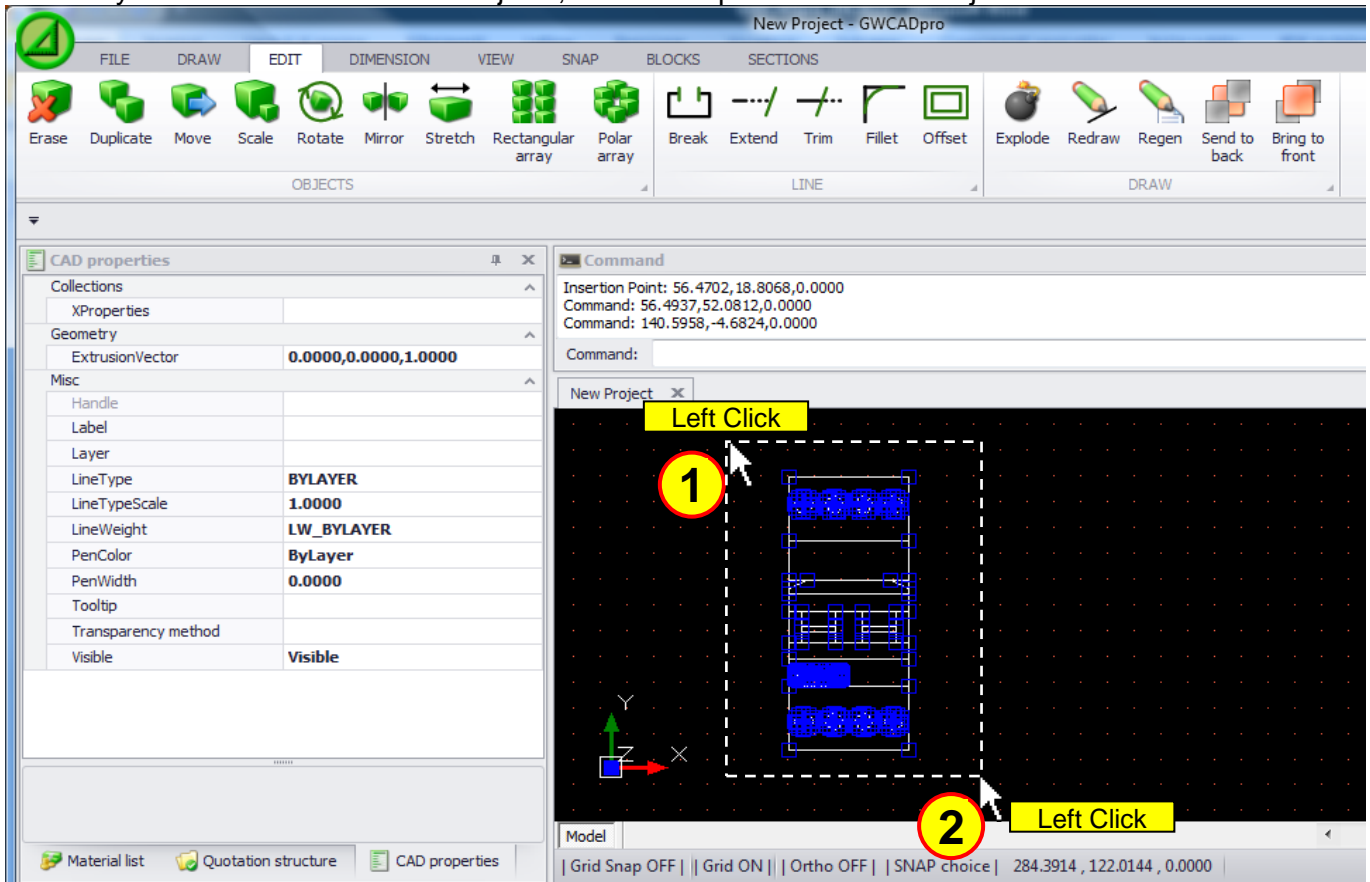
... then you can press the "Duplicate more times" button and move the objects with the mouse:



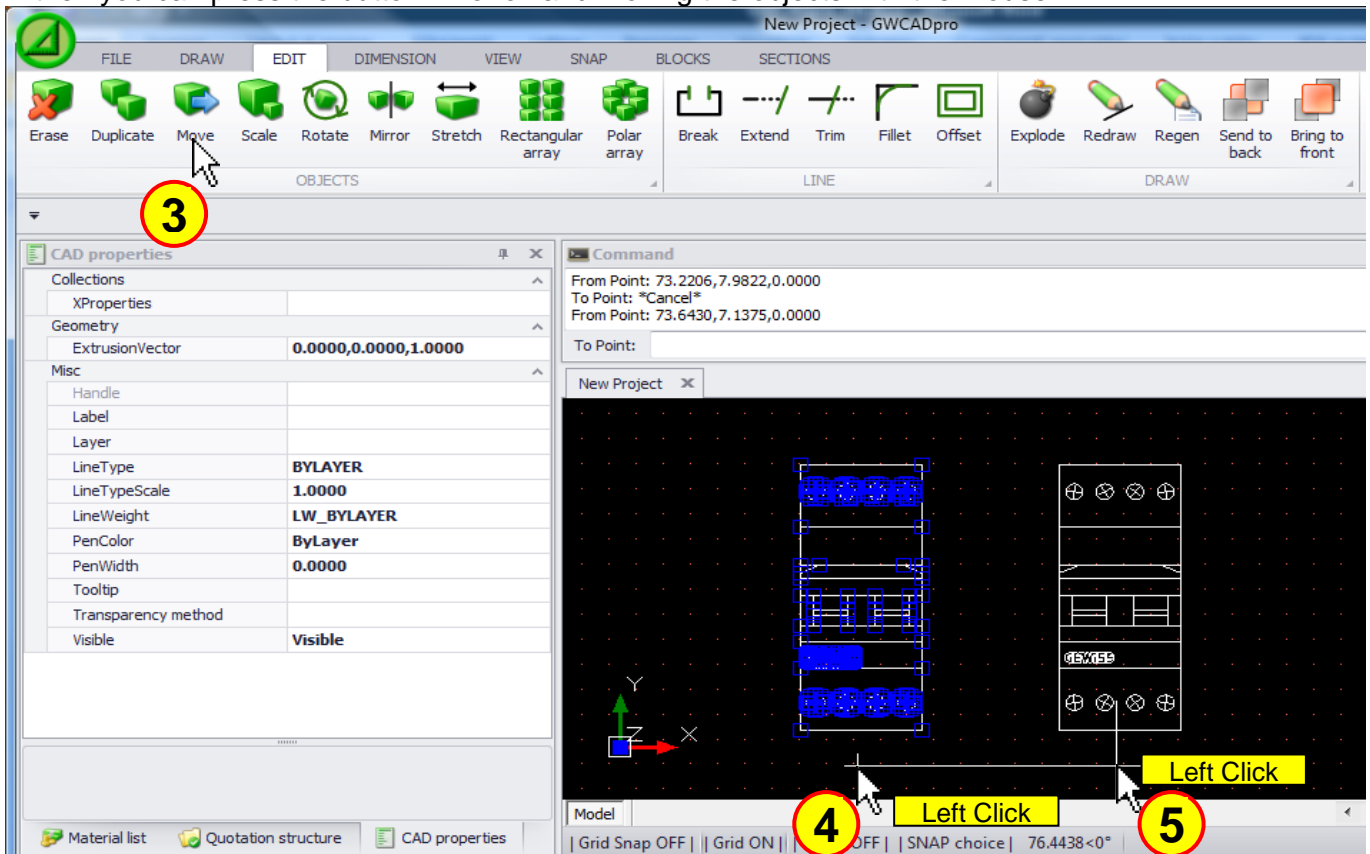
(The selection of objects can be done before or after pressing the "Duplicate more times" button)

1304 - Move

It allows you to move a selection of objects, the first step is to select the objects...



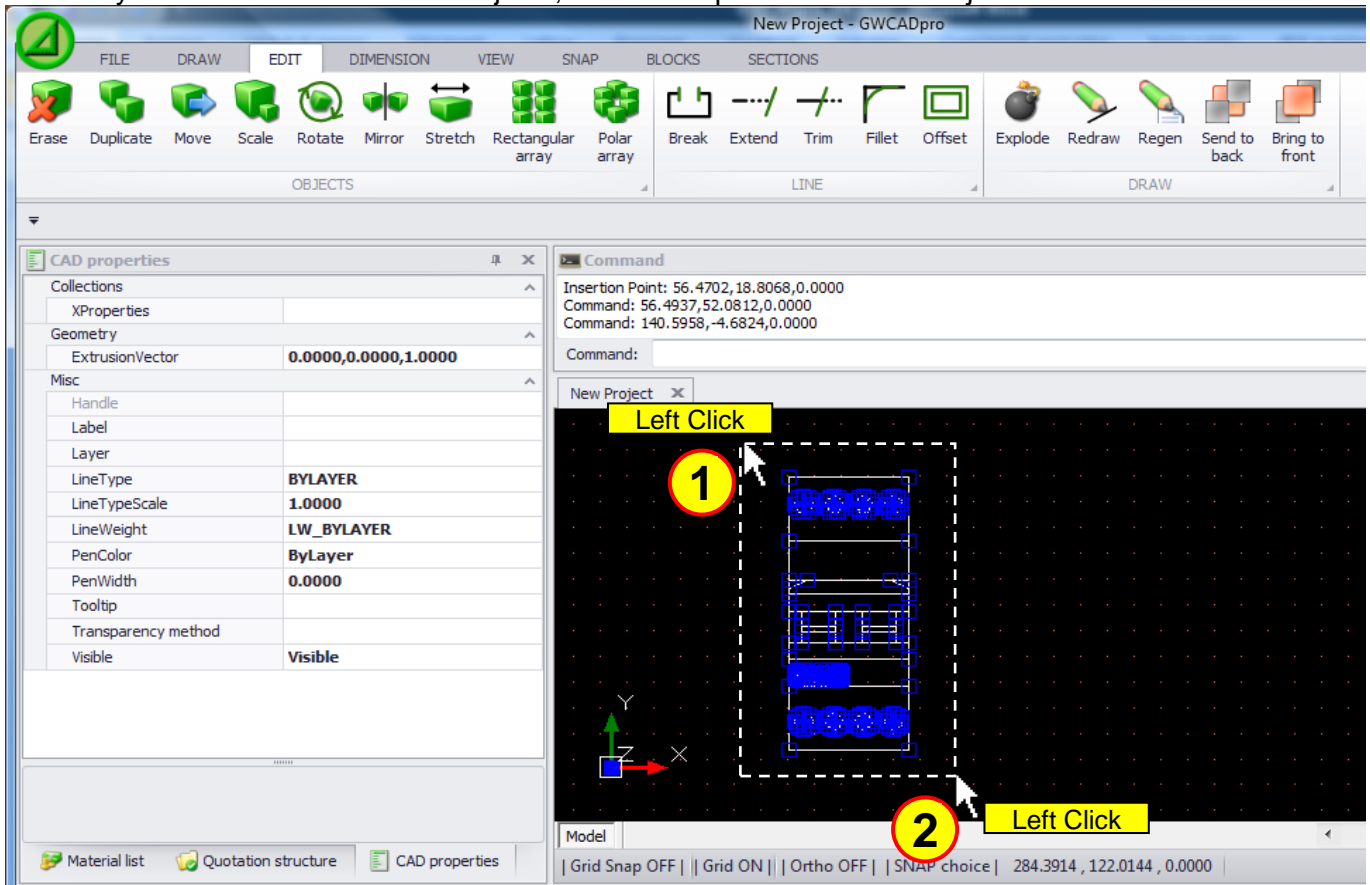
... then you can press the button “Move” and moving the objects with the mouse:



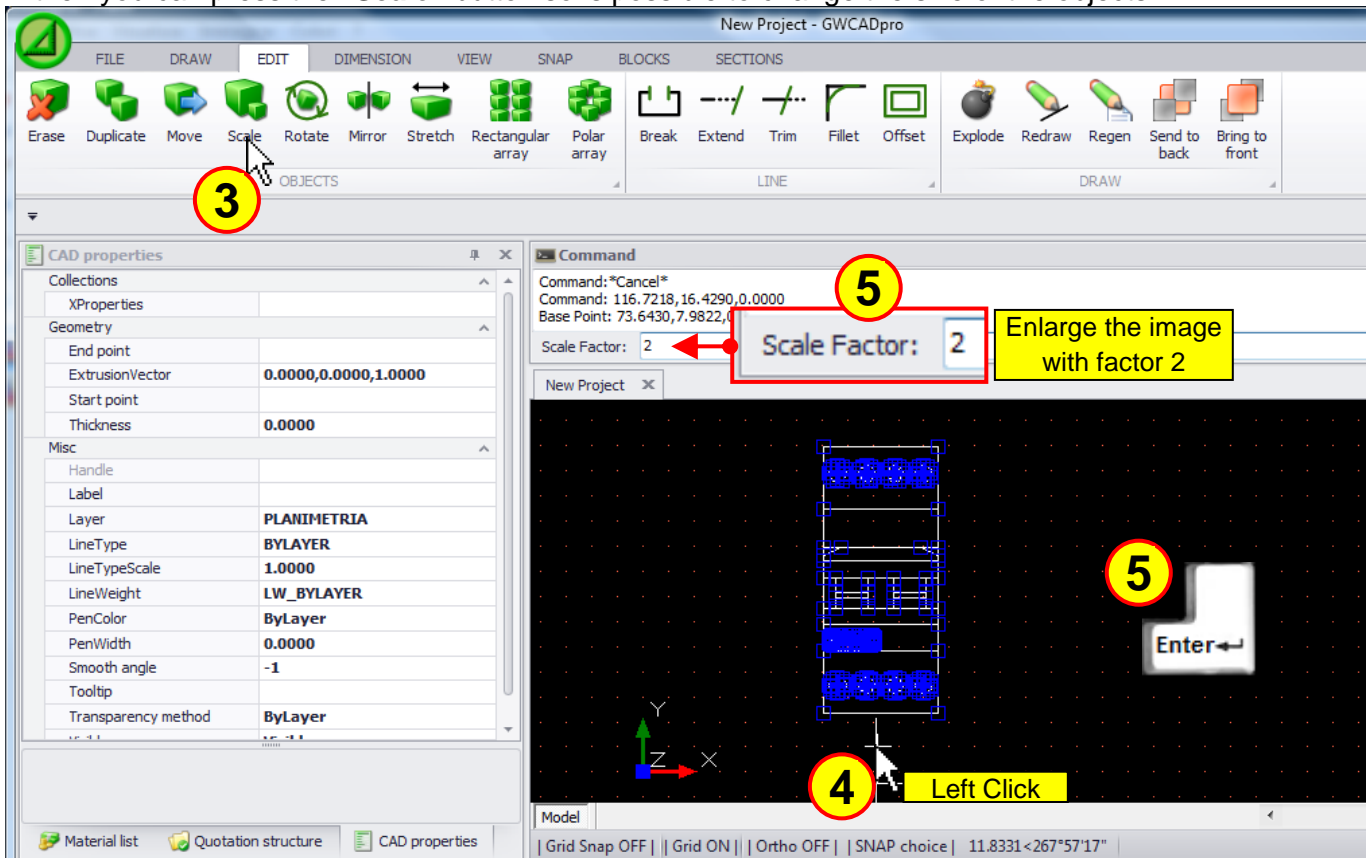
(The selection of objects can be done before or after pressing the “Move” button)

1305 - Scale

It allows you to scale a selection of objects, the first step is to select the objects...



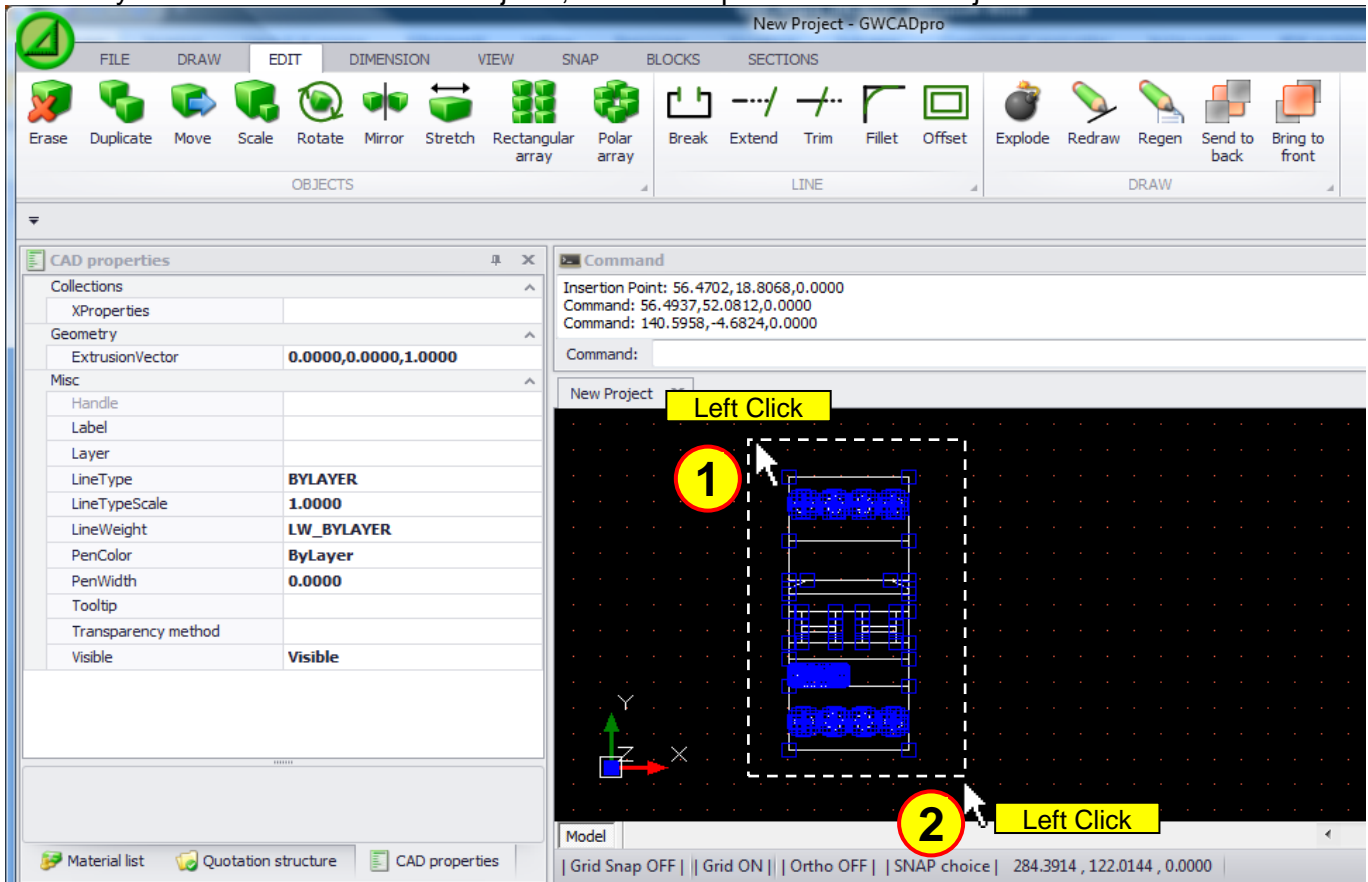
... then you can press the **“Scale”** button so is possible to change the size of the objects:



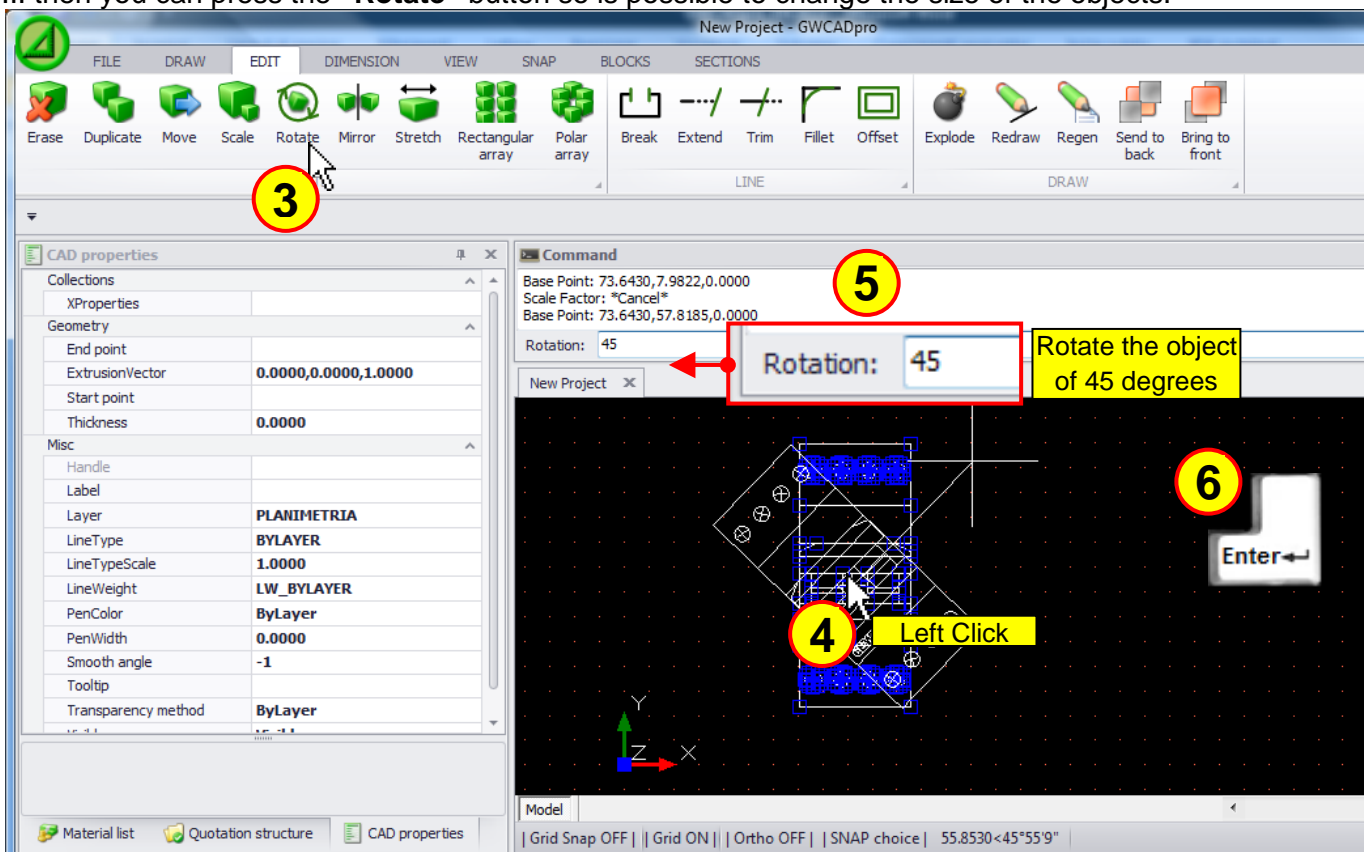
(The selection of objects can be done before or after pressing the **“Scale”** button)

1306 - Rotate

It allows you to rotate a selection of objects, the first step is to select the objects...



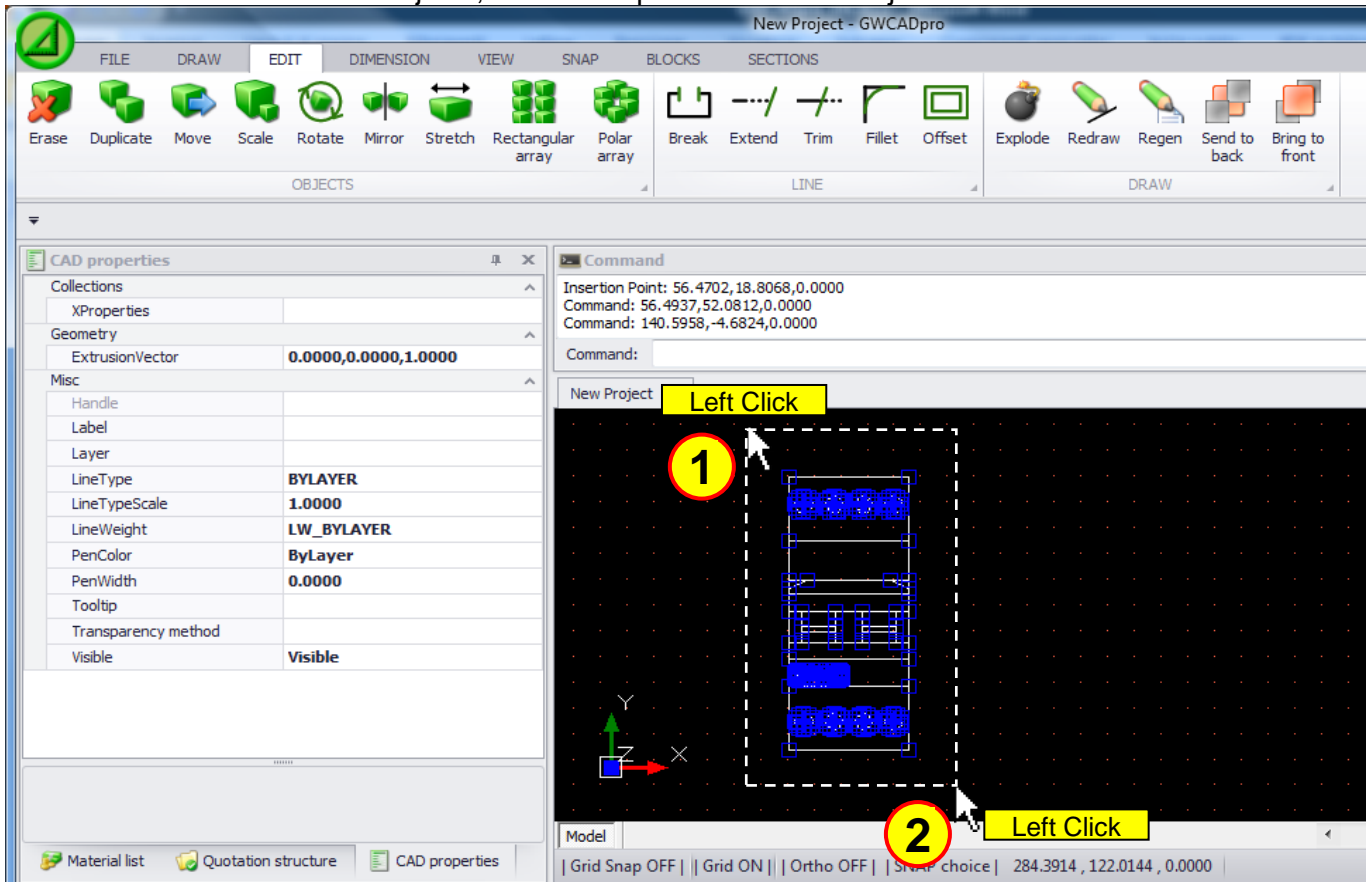
... then you can press the **“Rotate”** button so is possible to change the size of the objects:



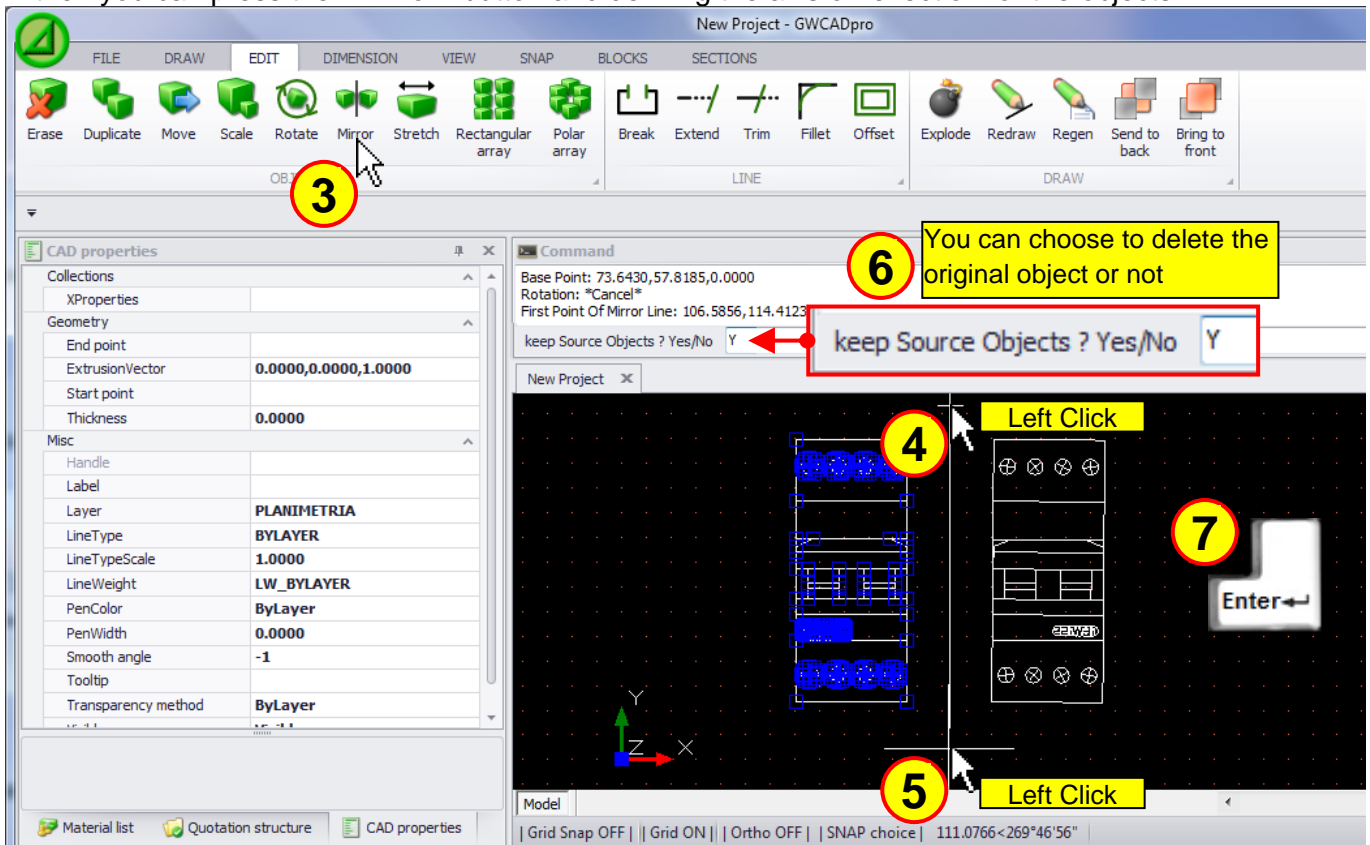
(The selection of objects can be done before or after pressing the **“Rotate”** button)

1307 - Mirror

You can mirror a selection of objects, the first step is to select the objects...



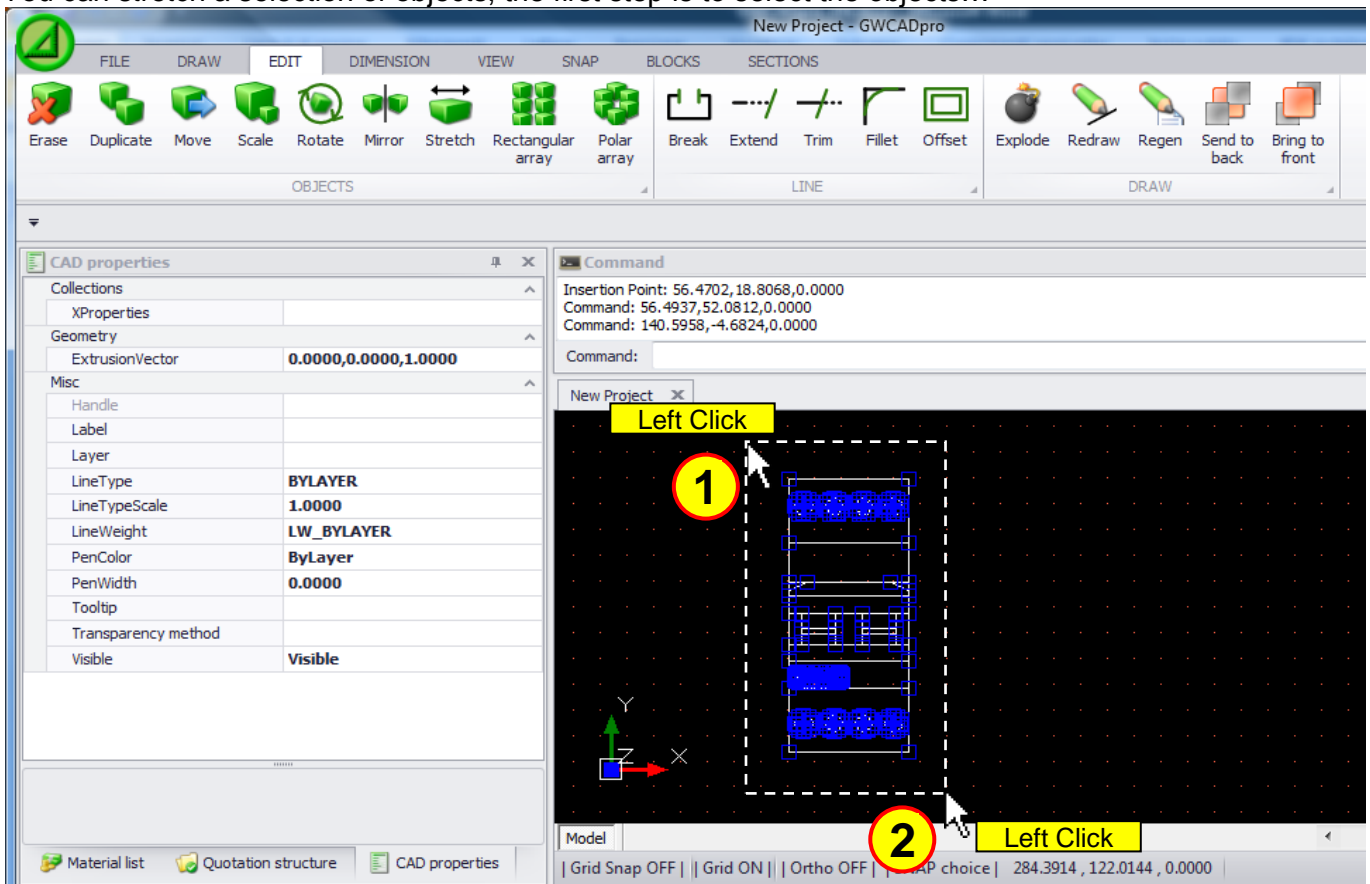
... then you can press the **"Mirror"** button and defining the axis of reflection for the objects:



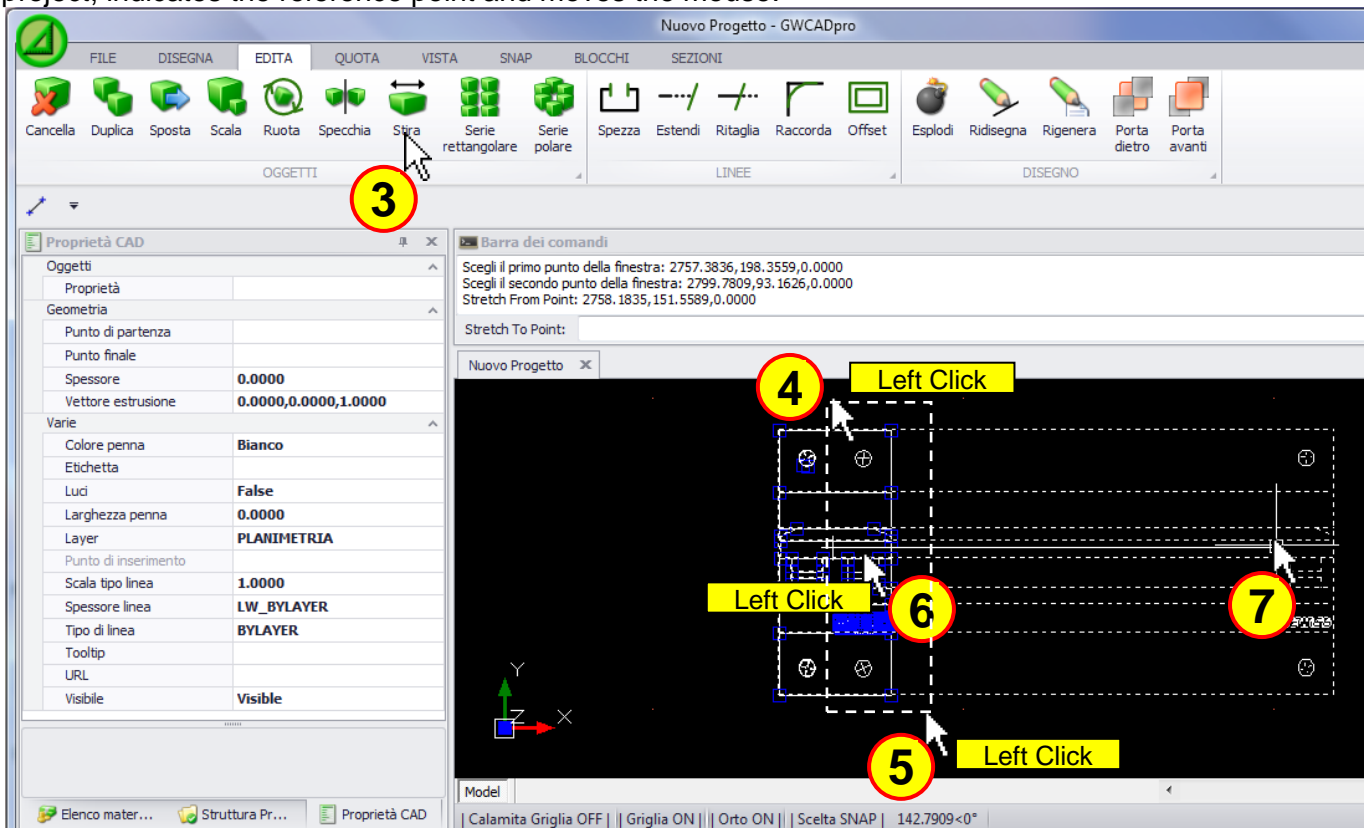
(The selection of objects can be done before or after pressing the **"Mirror"** button)

1308 - Stretch

You can stretch a selection of objects, the first step is to select the objects...

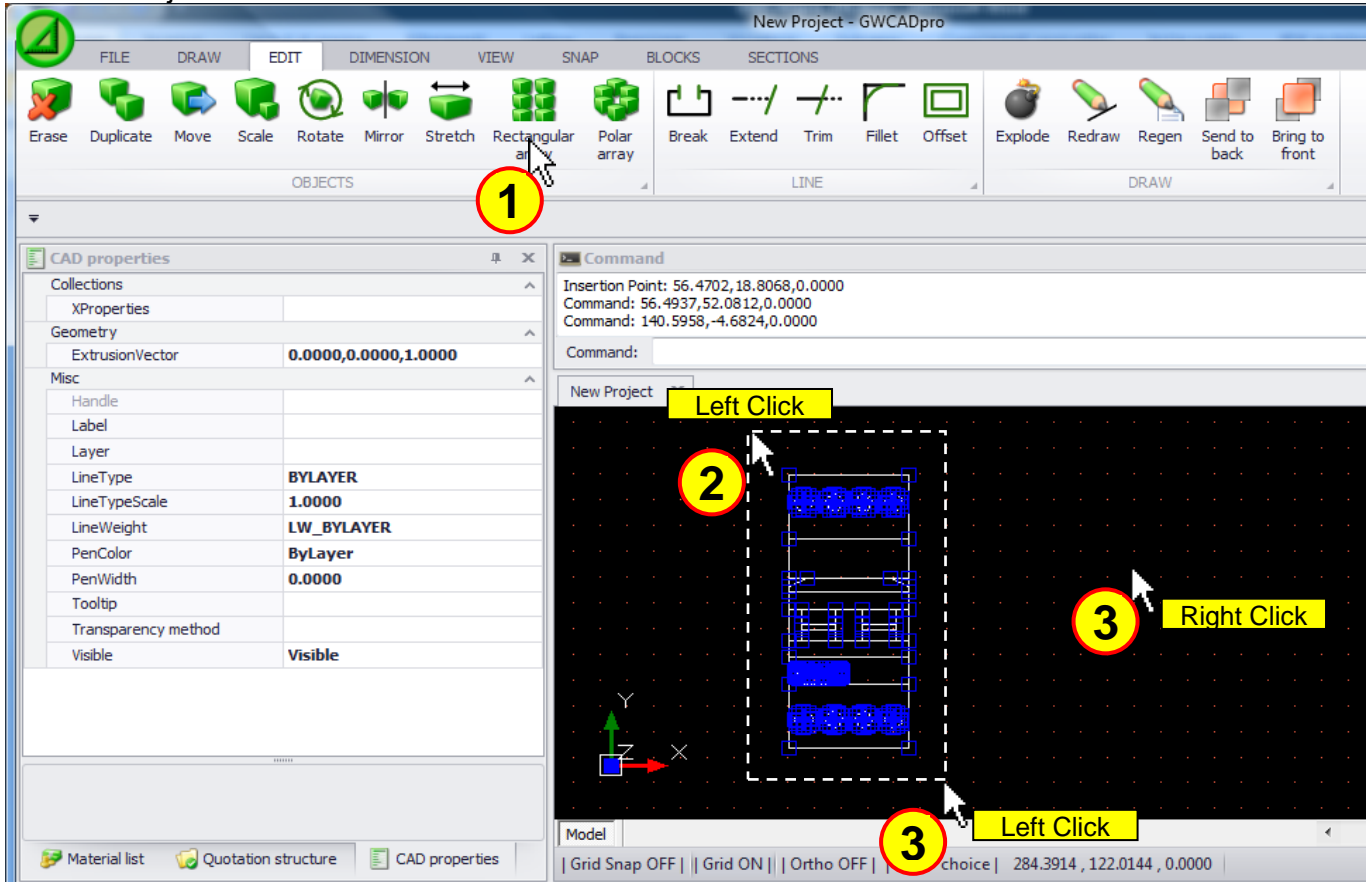


... then you can press the “**Stretch**” button and the second step is to selecting some objects of the project, indicates the reference point and moves the mouse:

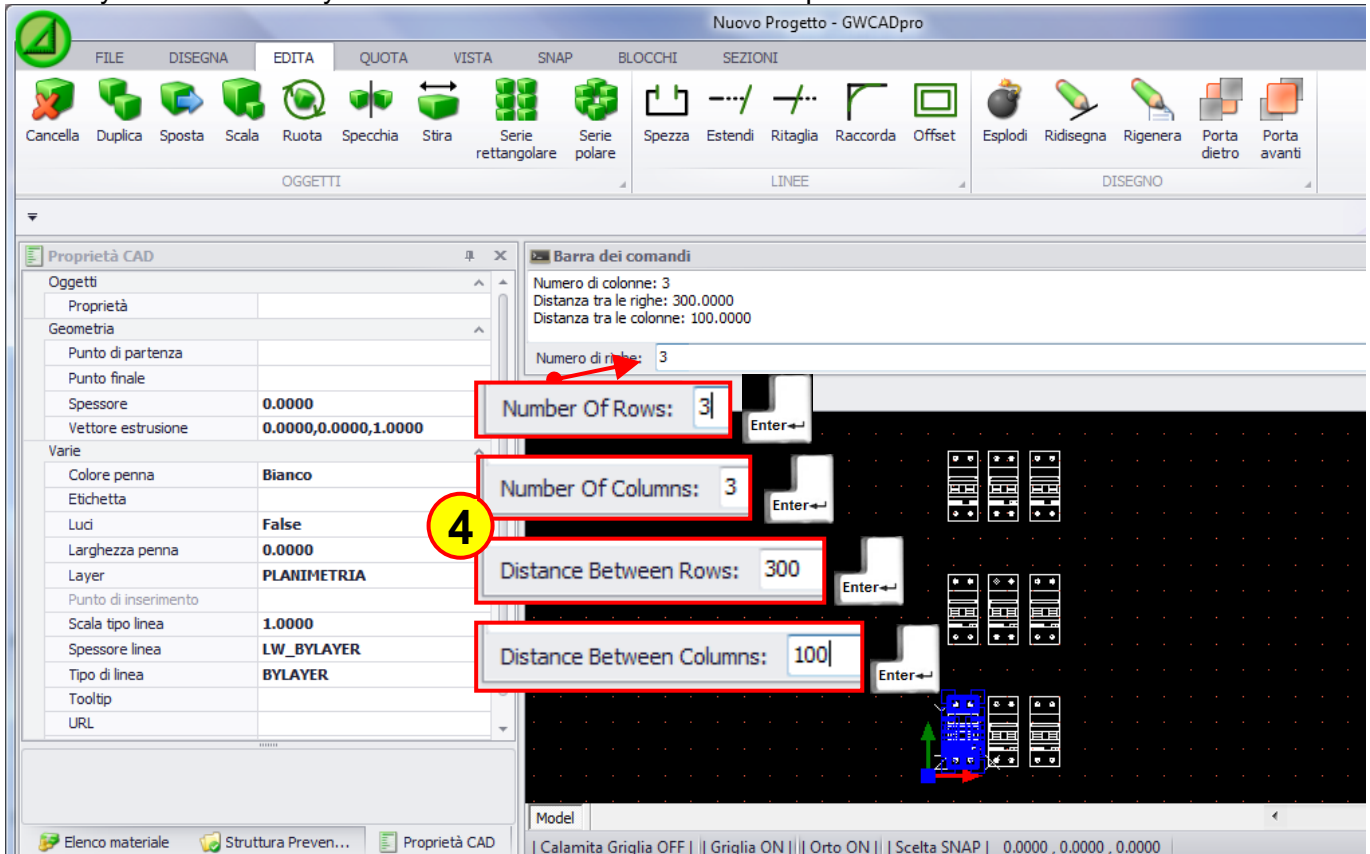


1309 - Rectangular array

It allows you to duplicate a selection of objects placing them in rows and columns, the first step is to select the objects...

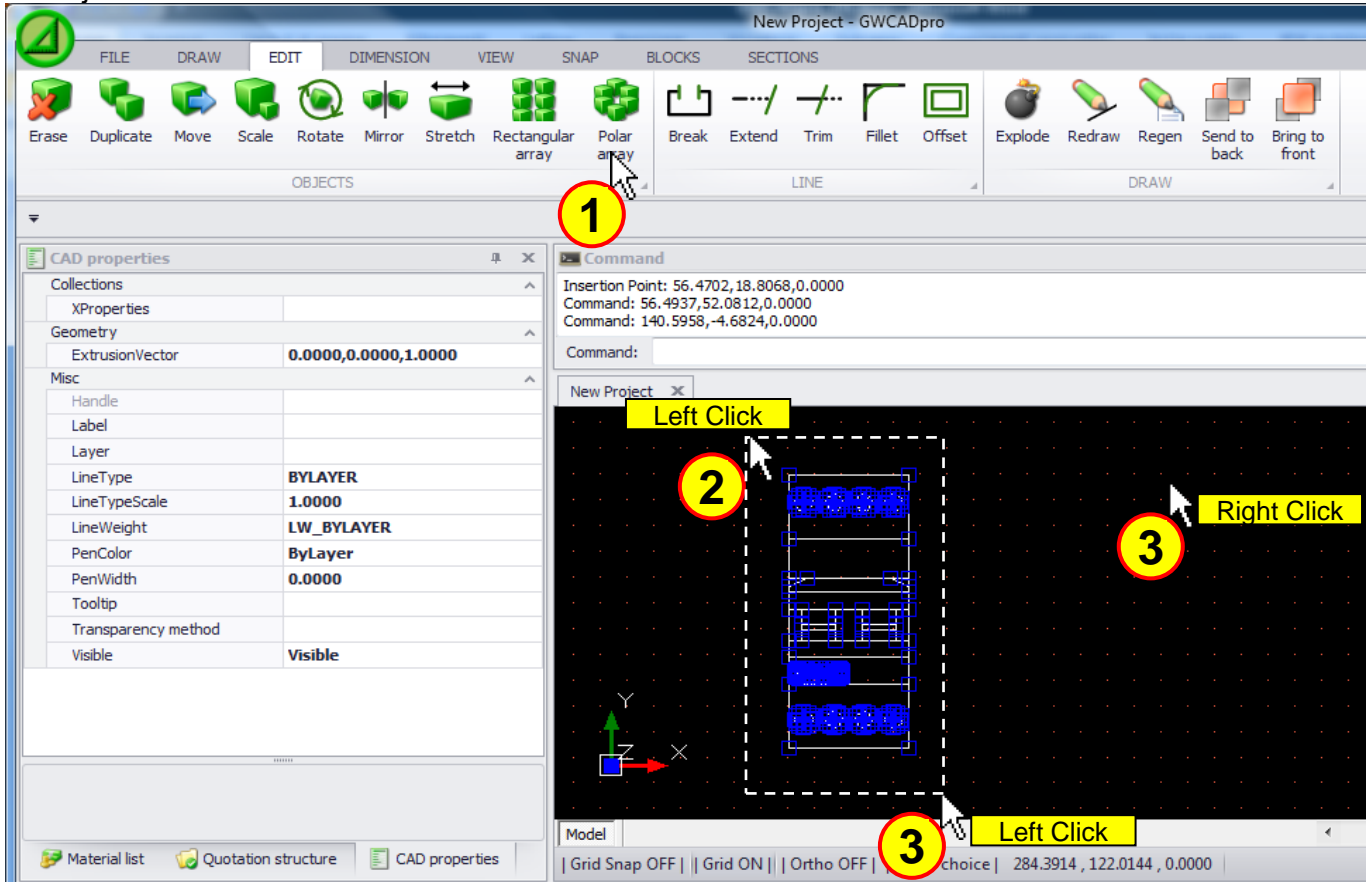


... then you have to act by the command bar to define various parameters:

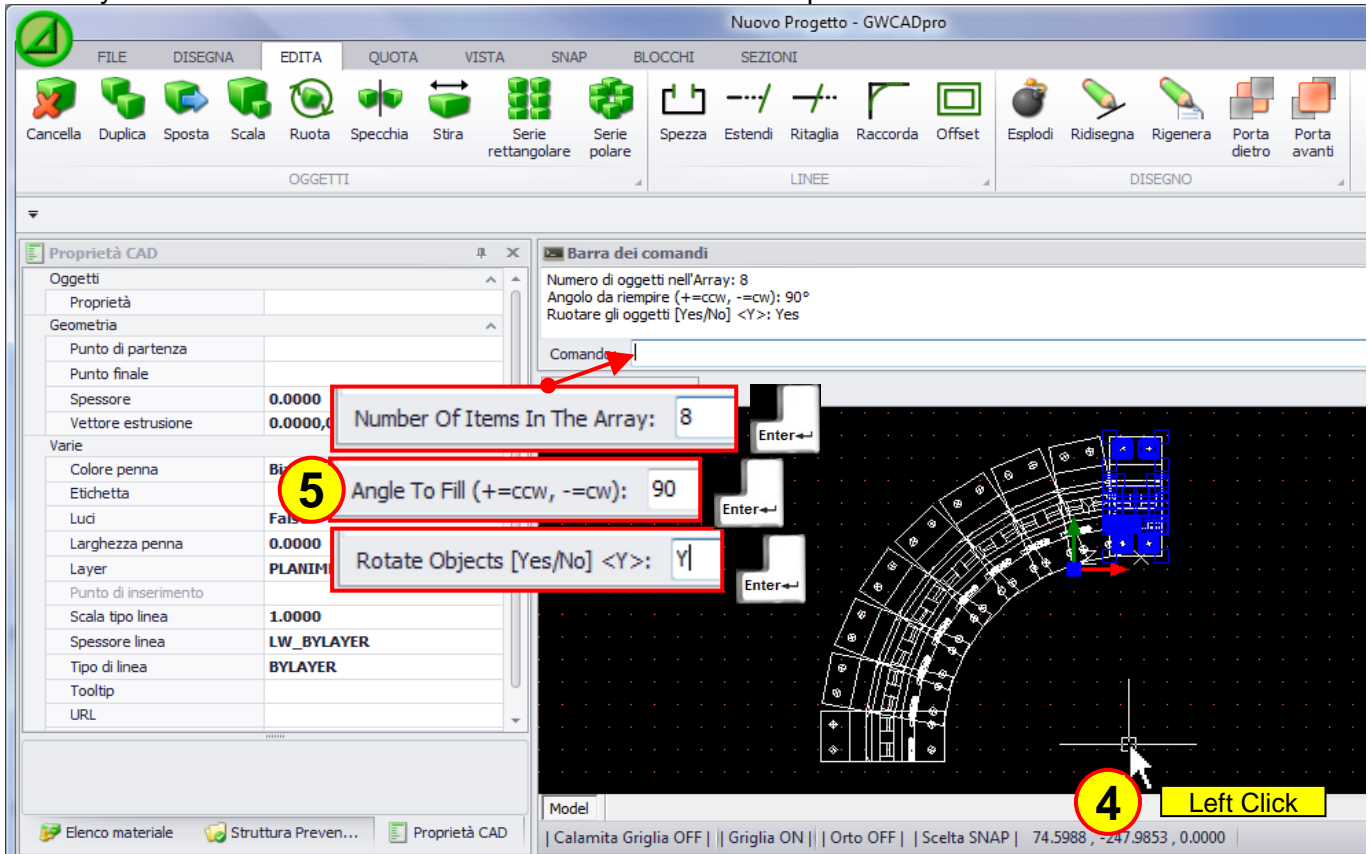


1310 - Polar array

It allows you to duplicate a selection of objects placing them in a circular pattern, the first step is to select the objects...

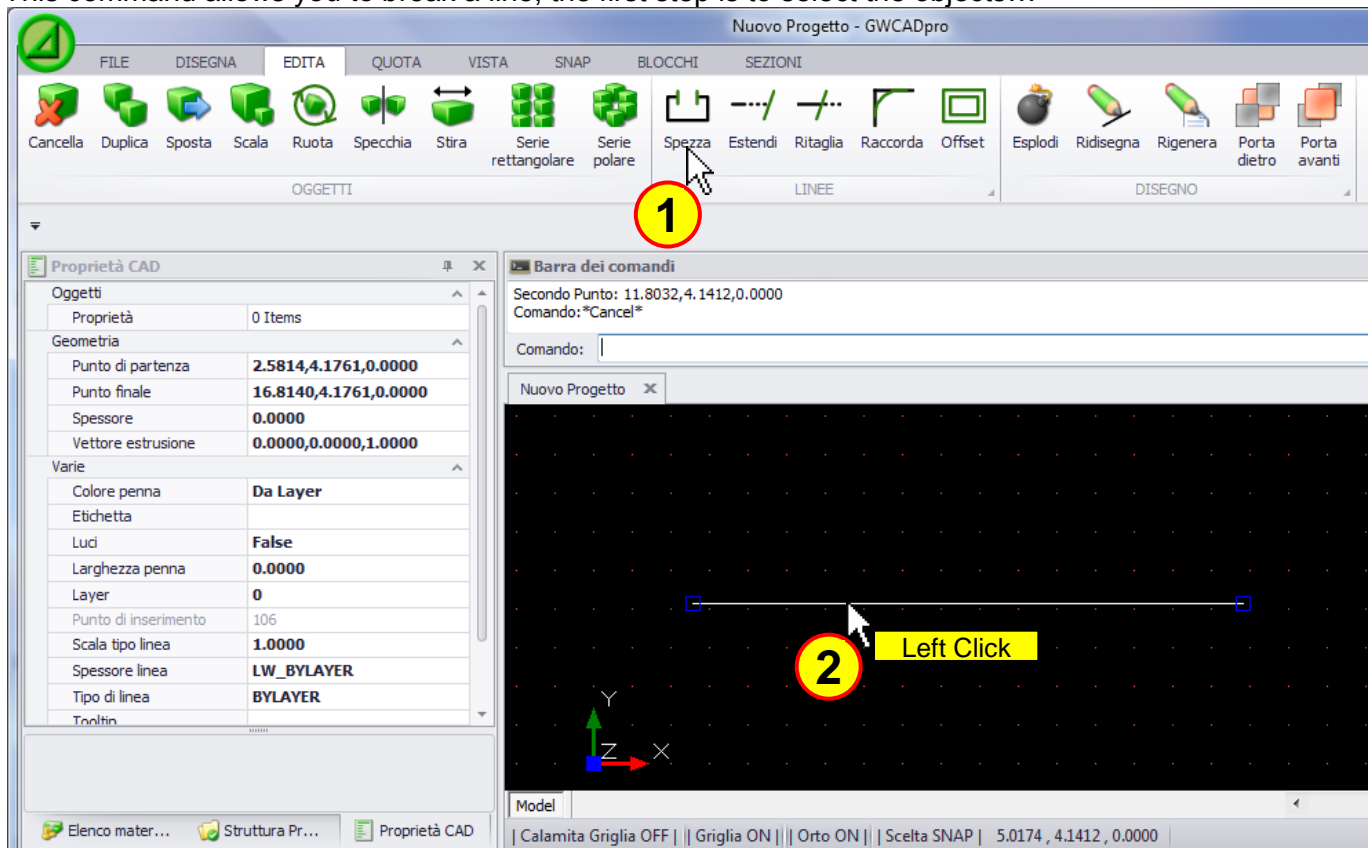


... then you have to act on the command bar to define various parameters:

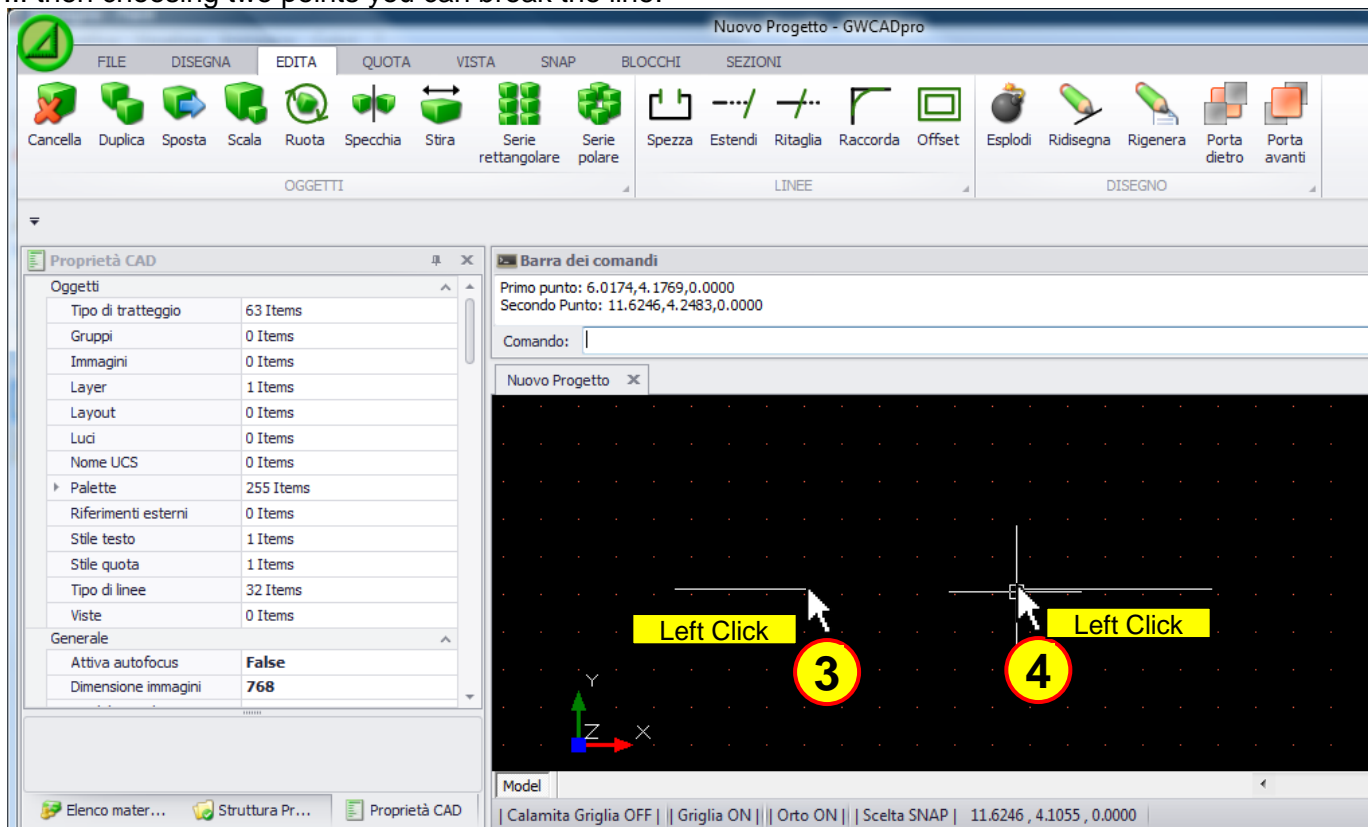


1311 - Break

This command allows you to break a line, the first step is to select the objects...



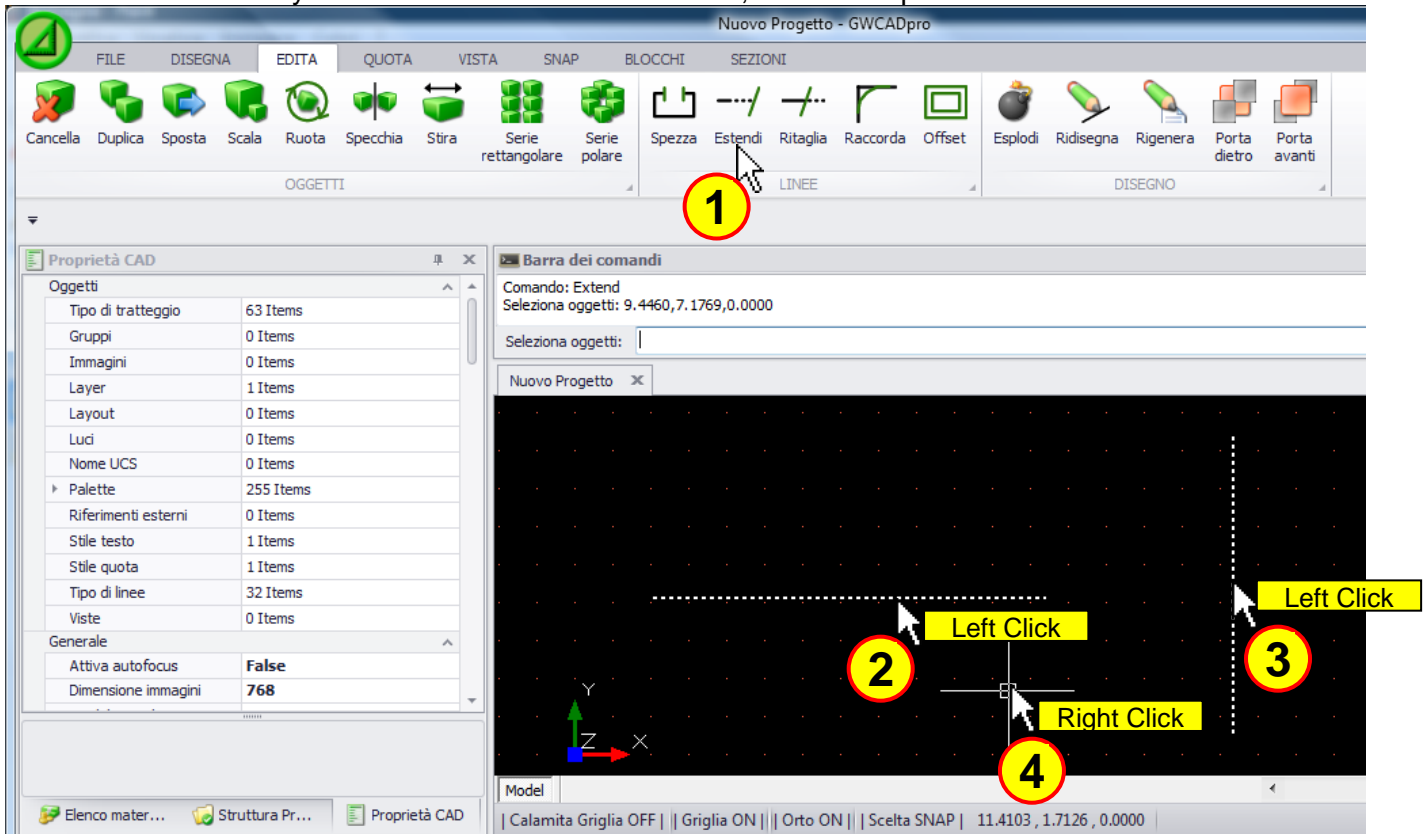
... then choosing two points you can break the line:



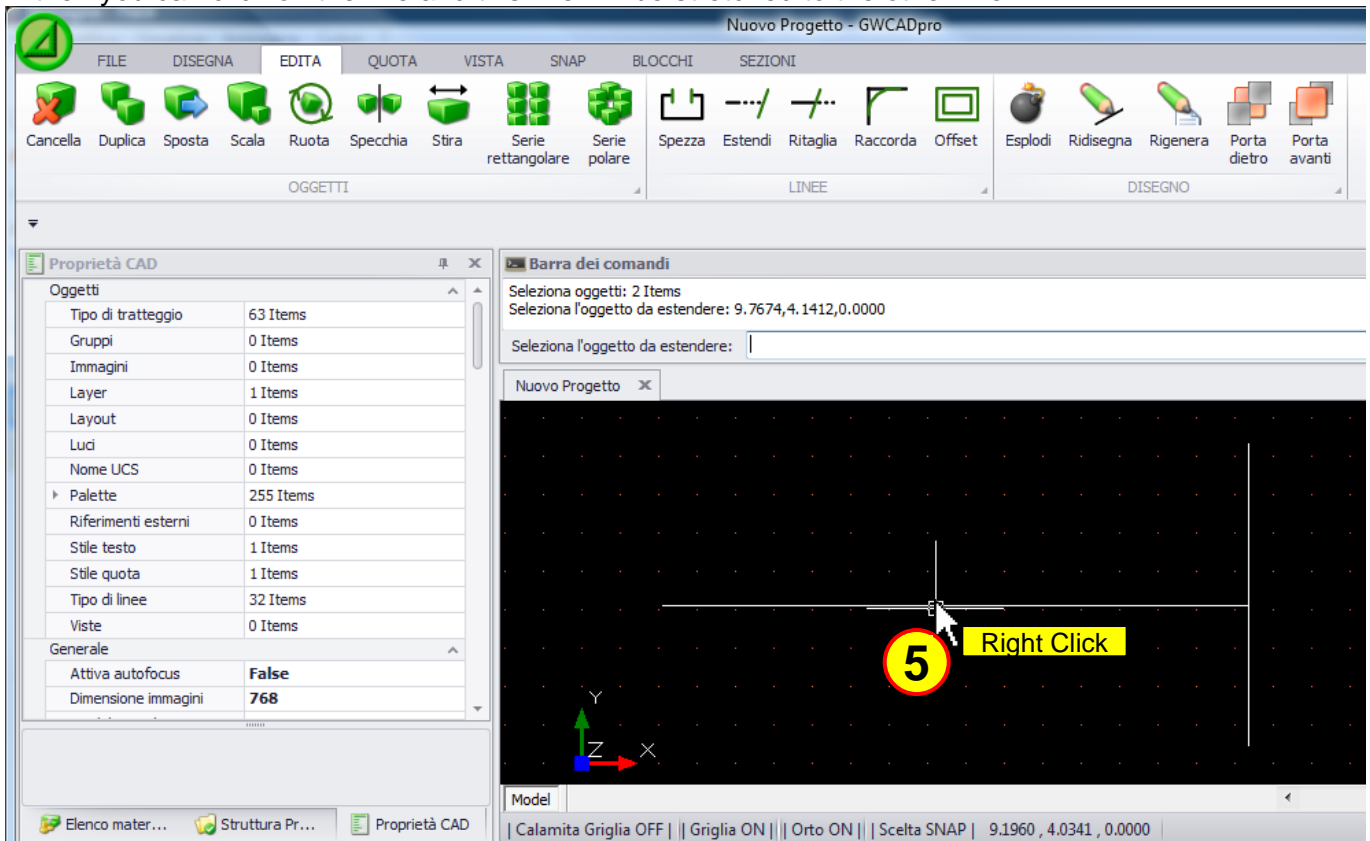
(The selection of objects can be done before or after pressing the “Break” button)

1312 - Extend

This command allows you to extend a line to another line, the first step is to select the line...



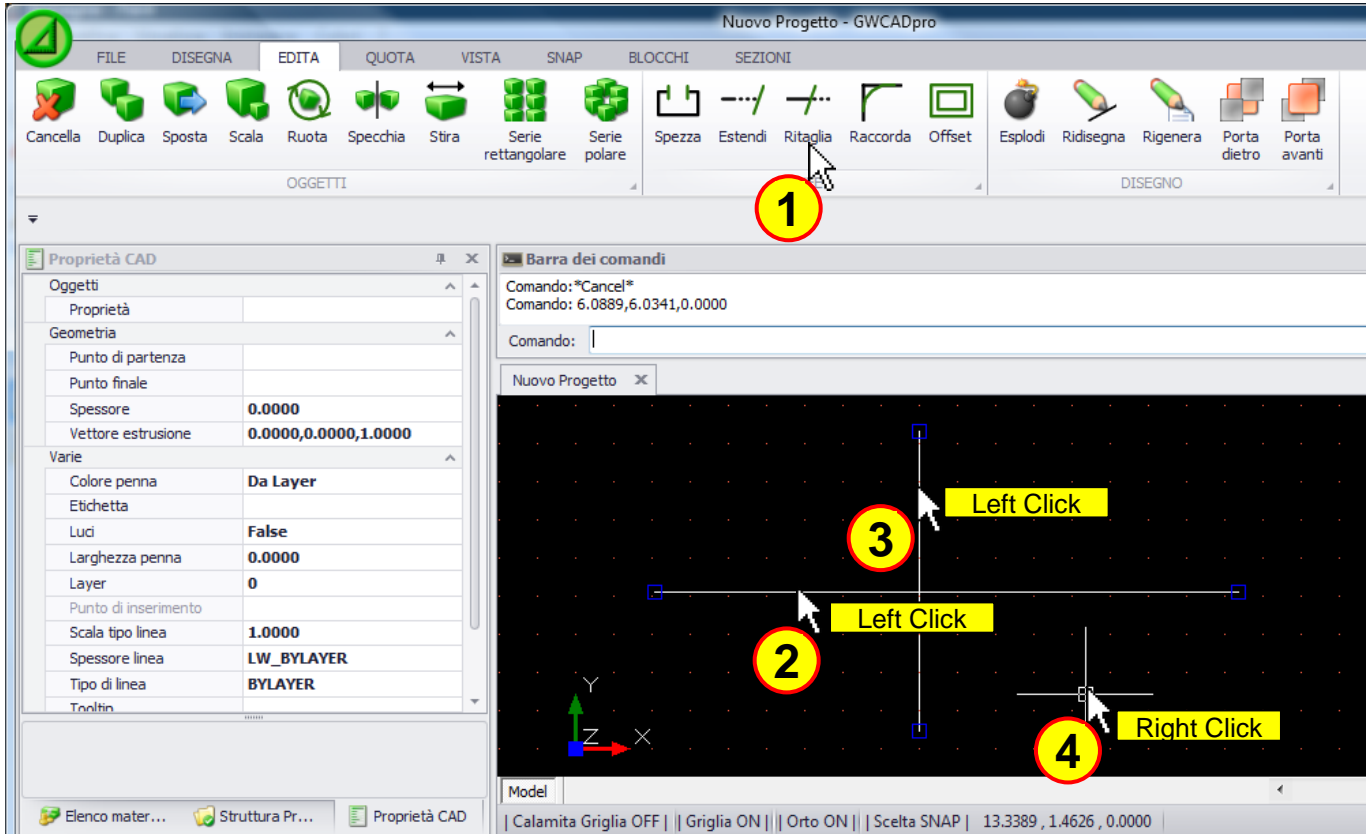
... then you can click on the line and this line will be stretched to the other line:



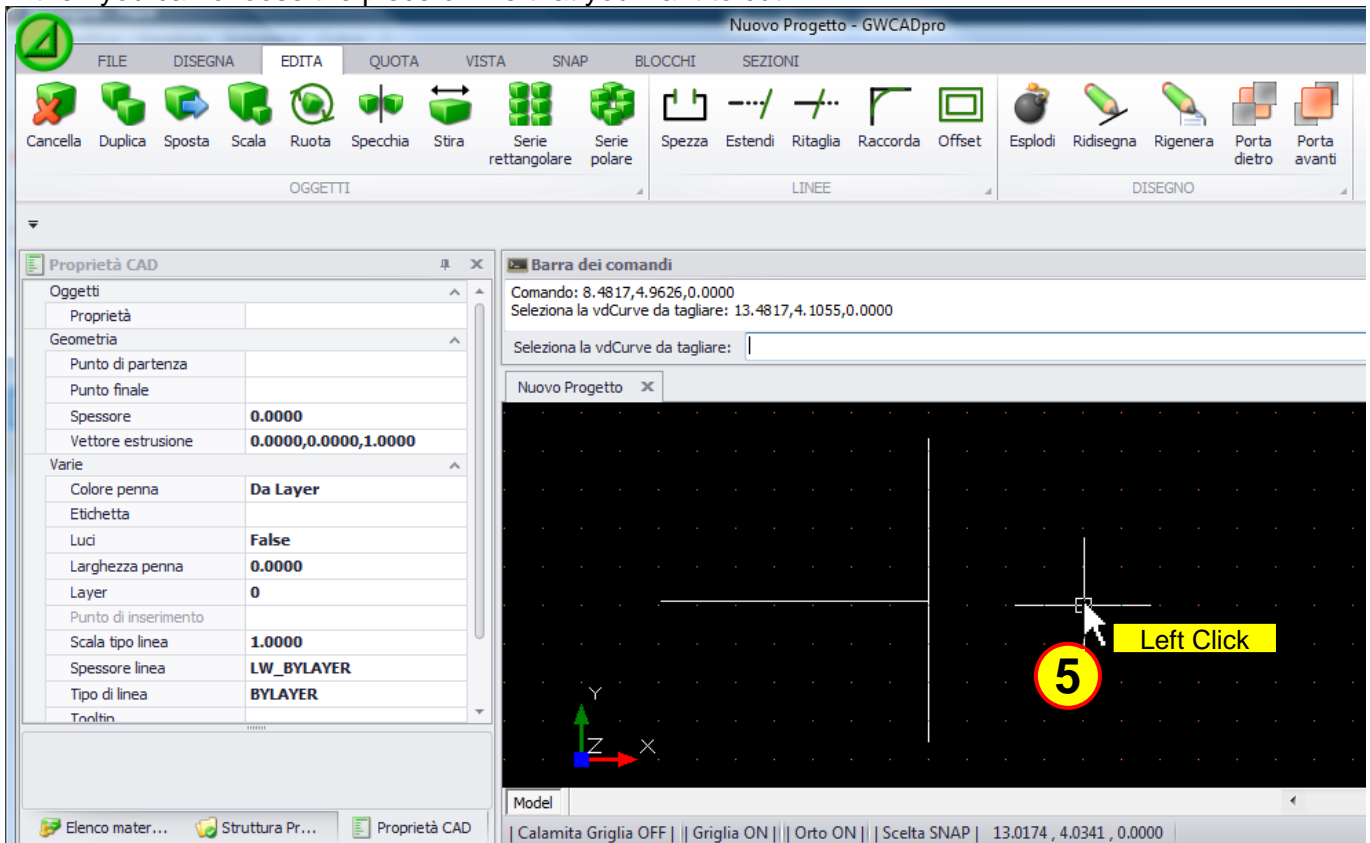
(The selection of objects can be done before or after pressing the “Extend” button)

1313 - Trim

This command allows you to cut a line to the intersection with another line, the first step is to select the line...



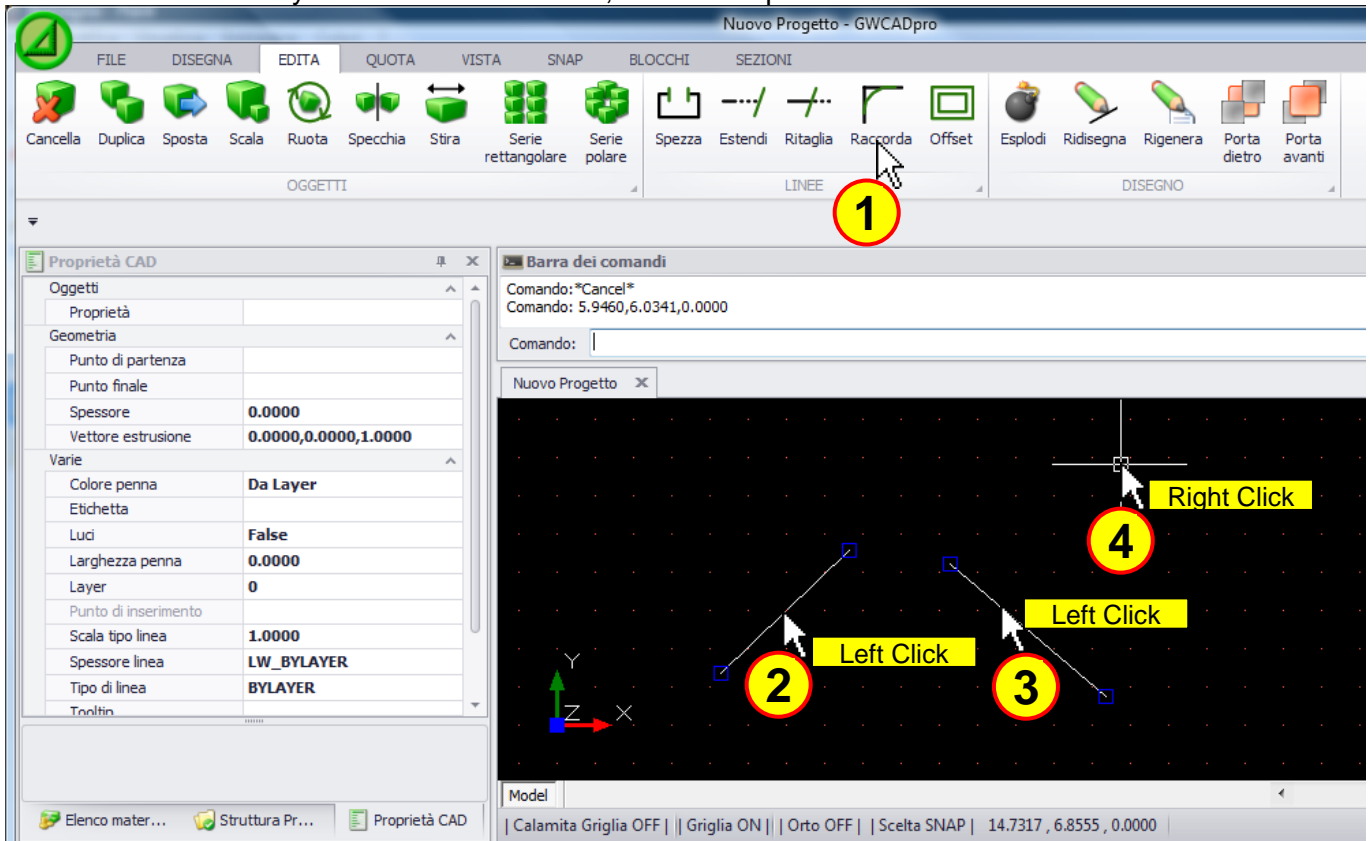
... then you can choose the piece of line that you want to cut:



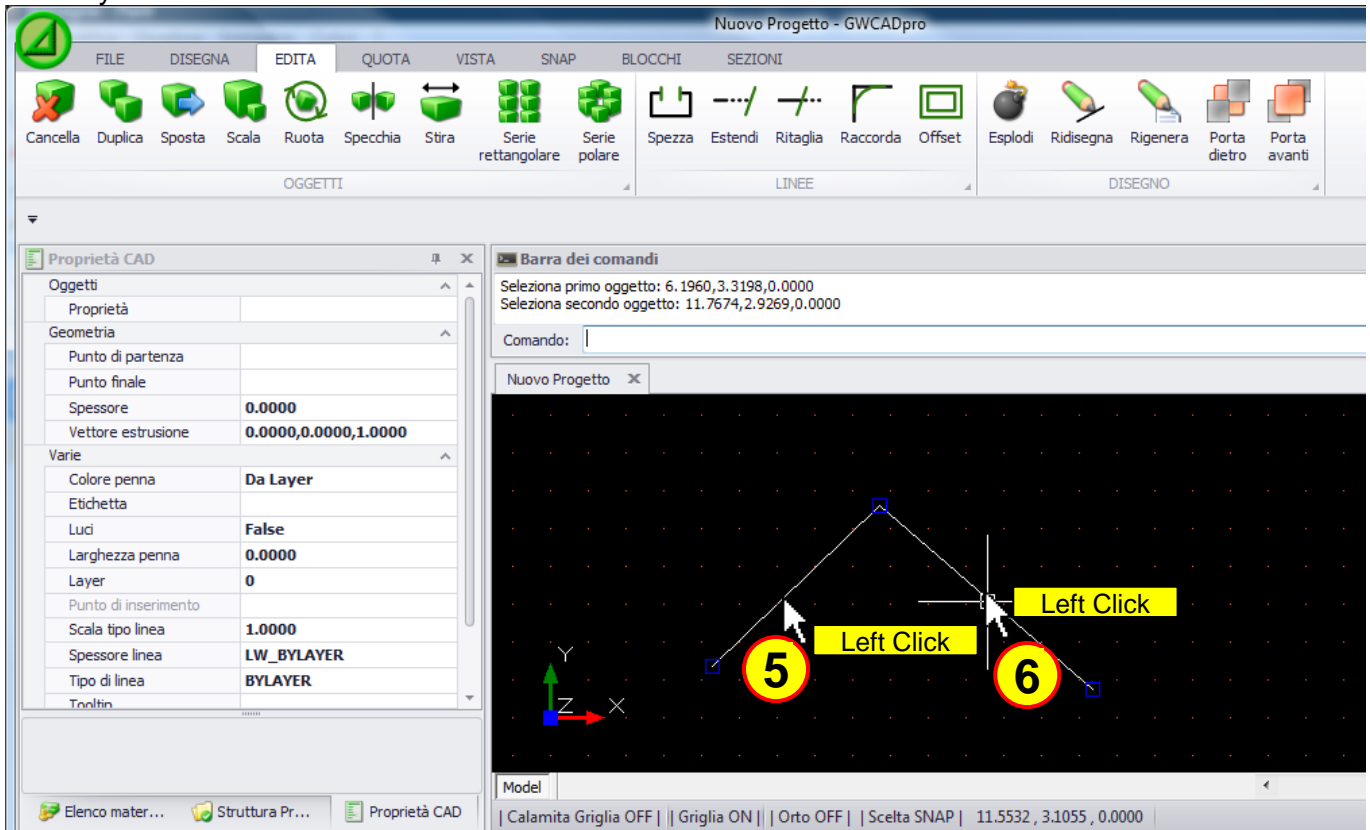
(The selection of objects can be done before or after pressing the “Trim” button)

1314 - Filled

This command allows you to connect two lines, the first step is to select the lines...



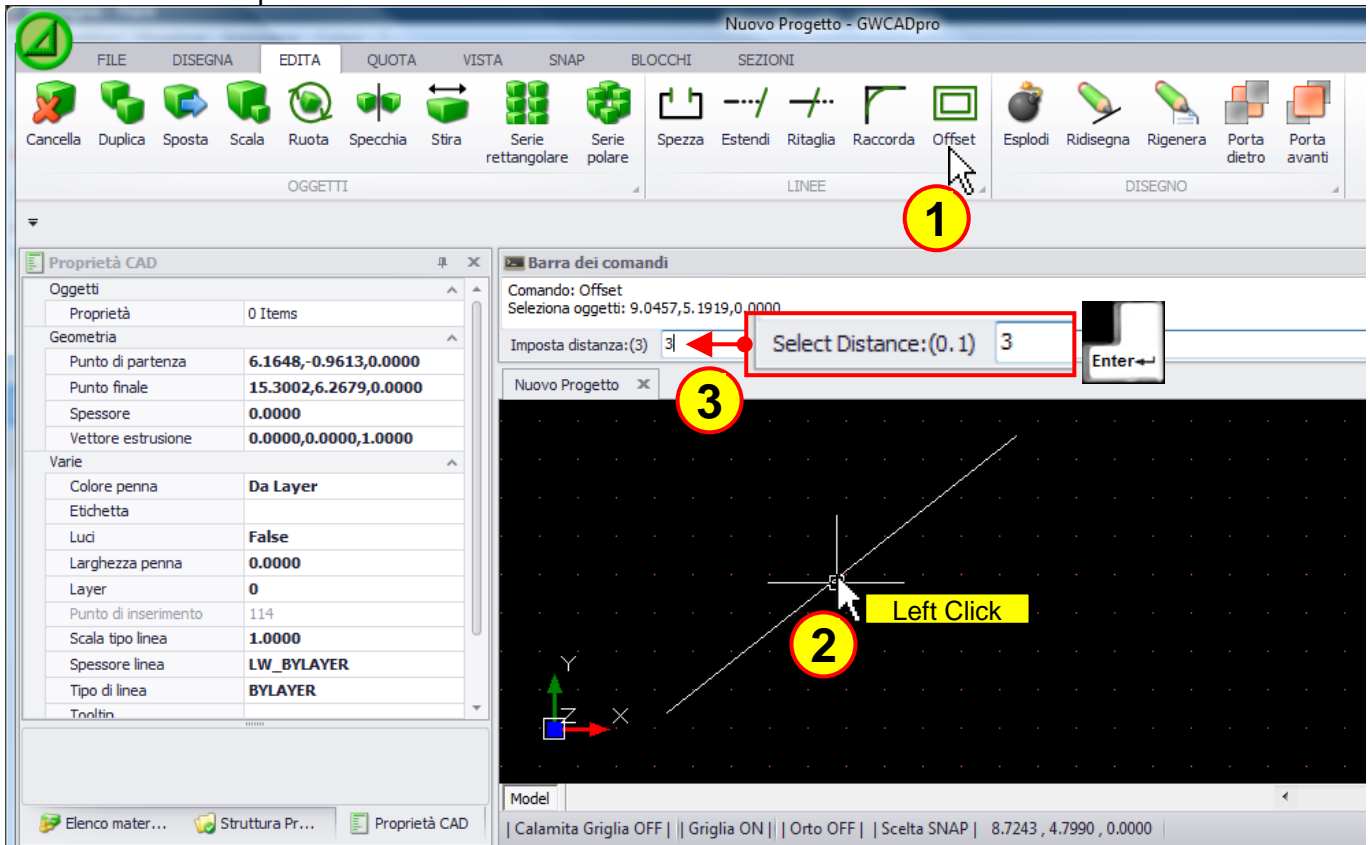
... then you can choose the first line and then the second line to create the connection:



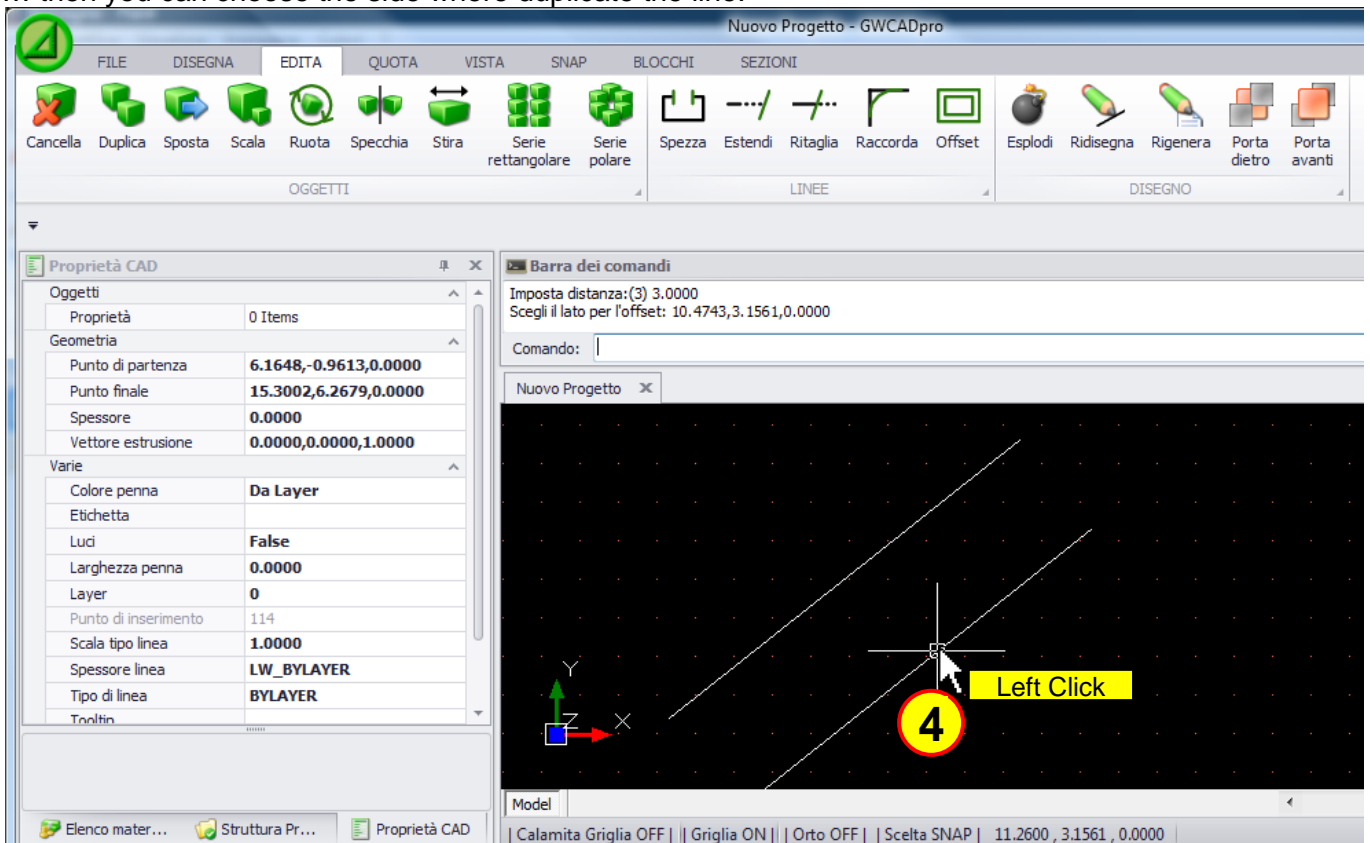
(The selection of objects can be done before or after pressing the “Filled” button)

1315 - Offset

This command allows you to create a parallel line next to an existing line, the first step is to select main the line and set the position for the second line...

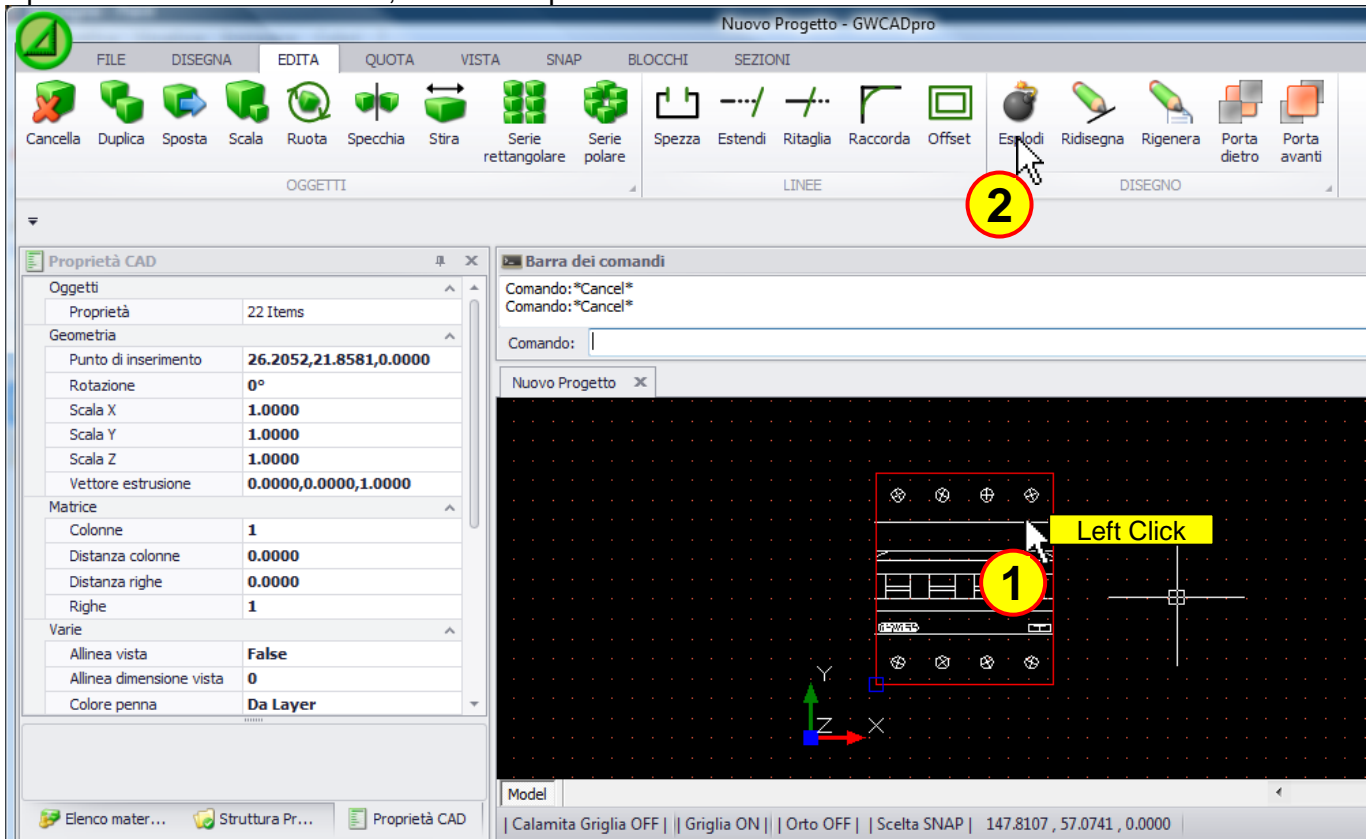


... then you can choose the side where duplicate the line:

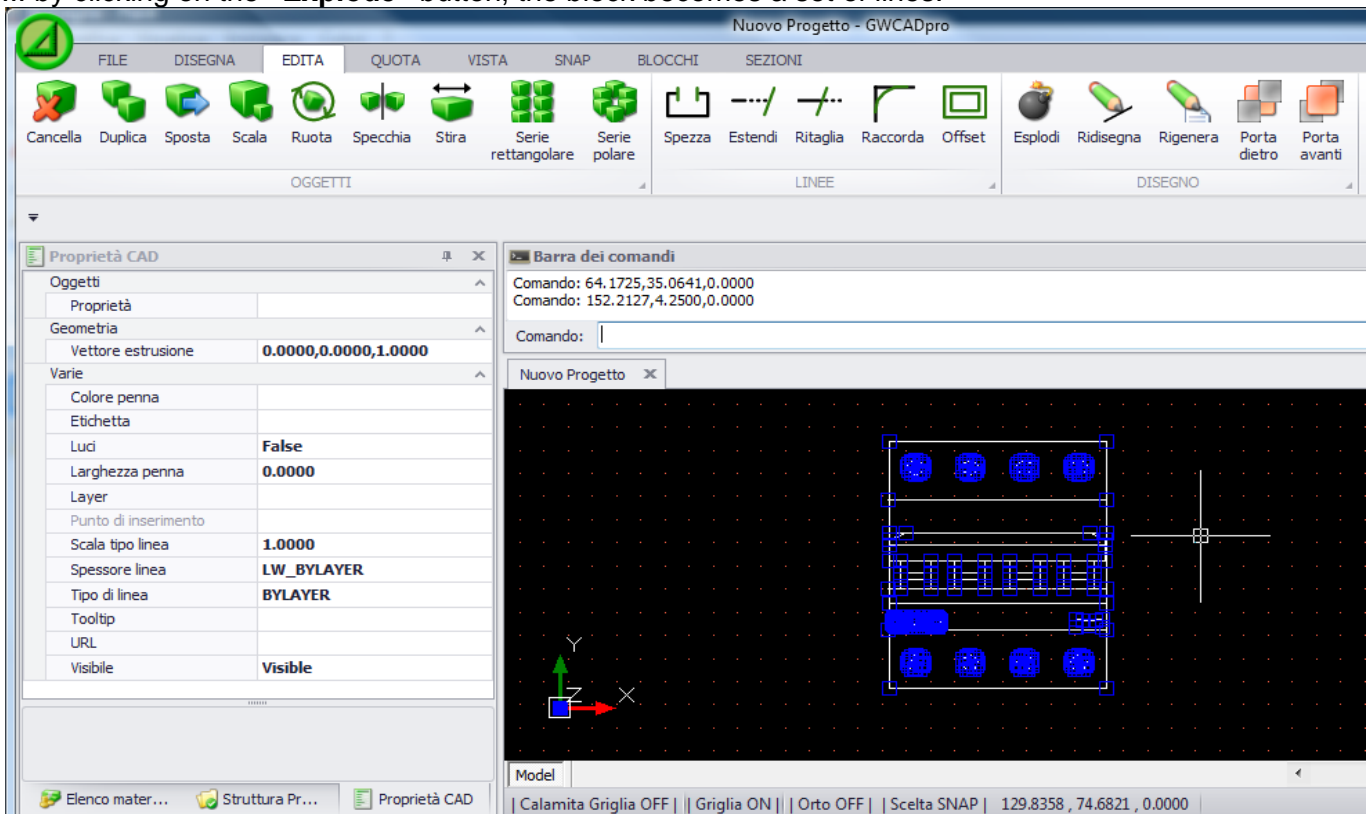


1316 - Explode

The **“Explode”** command is used to decompose a block in individual objects (lines, curves, circles, etc..). A block, when it's selected, is identified in the **“CAD Workspace”** by a red outline and a blue square in the lower left corner, the first step is to select the block...



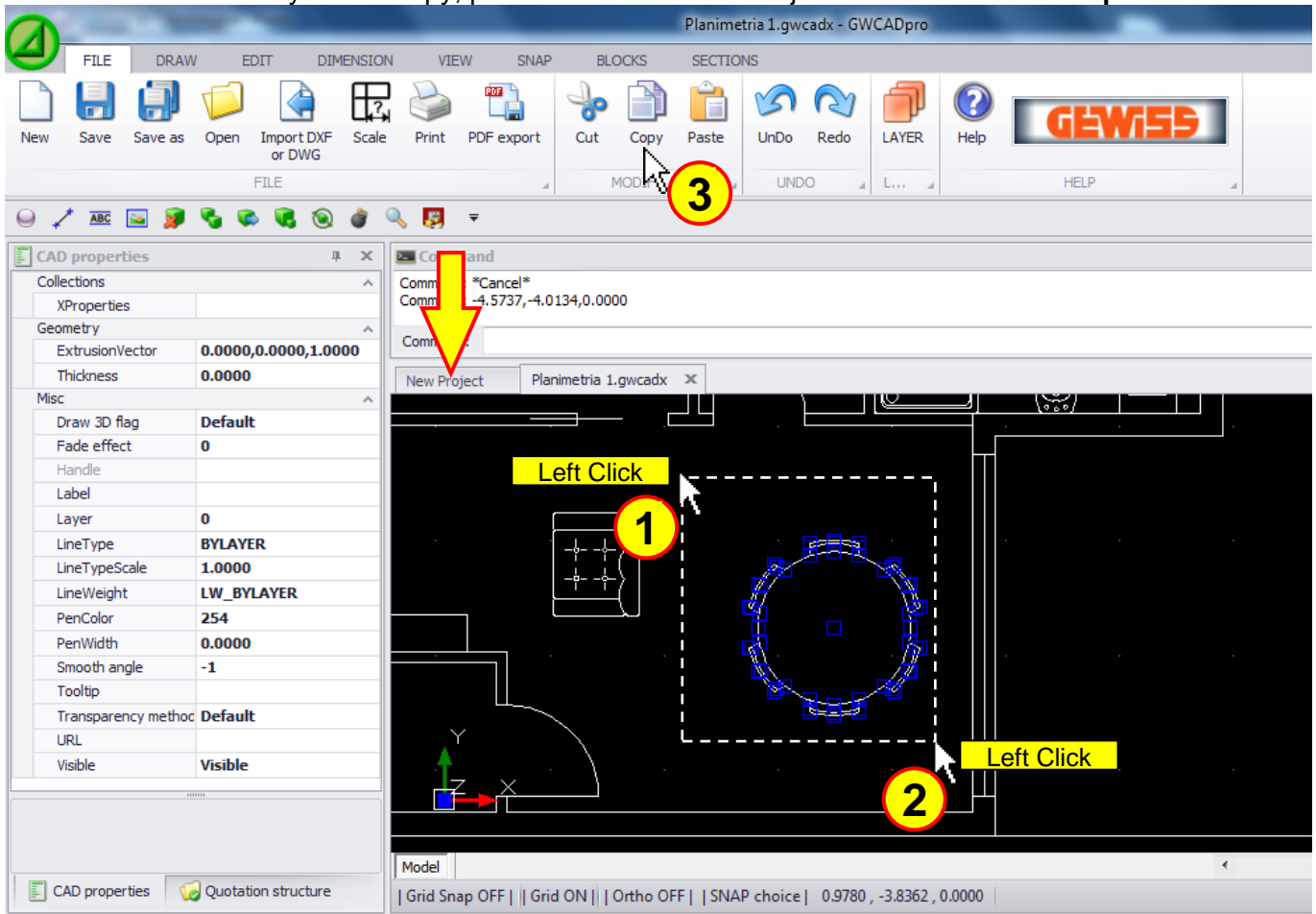
... by clicking on the **“Explode”** button, the block becomes a set of lines:



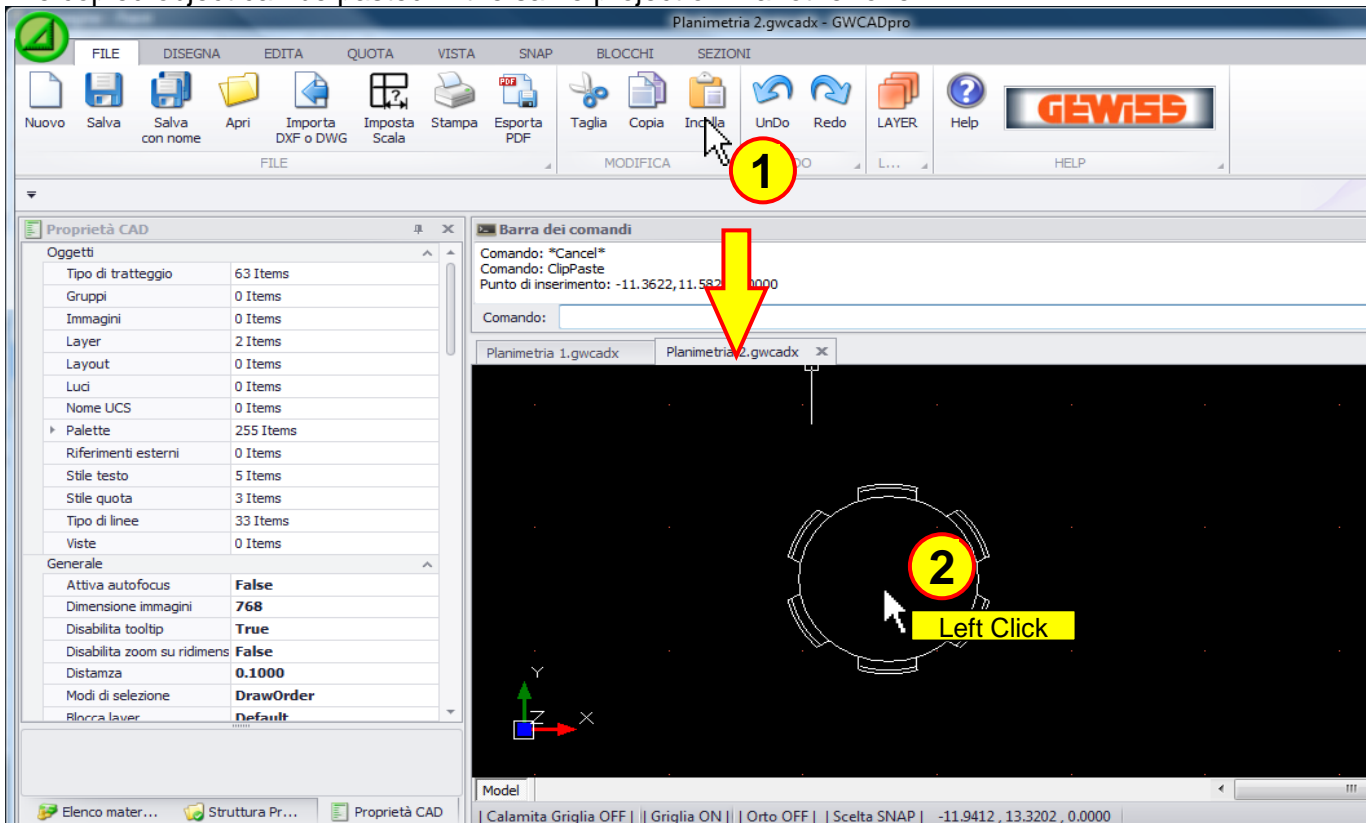
(The selection of objects can be done before or after pressing the **“Explode”** button)

1317 - Cut Copy and Paste

With these commands you can copy, paste and cut selected objects in the “CAD Workspace”:

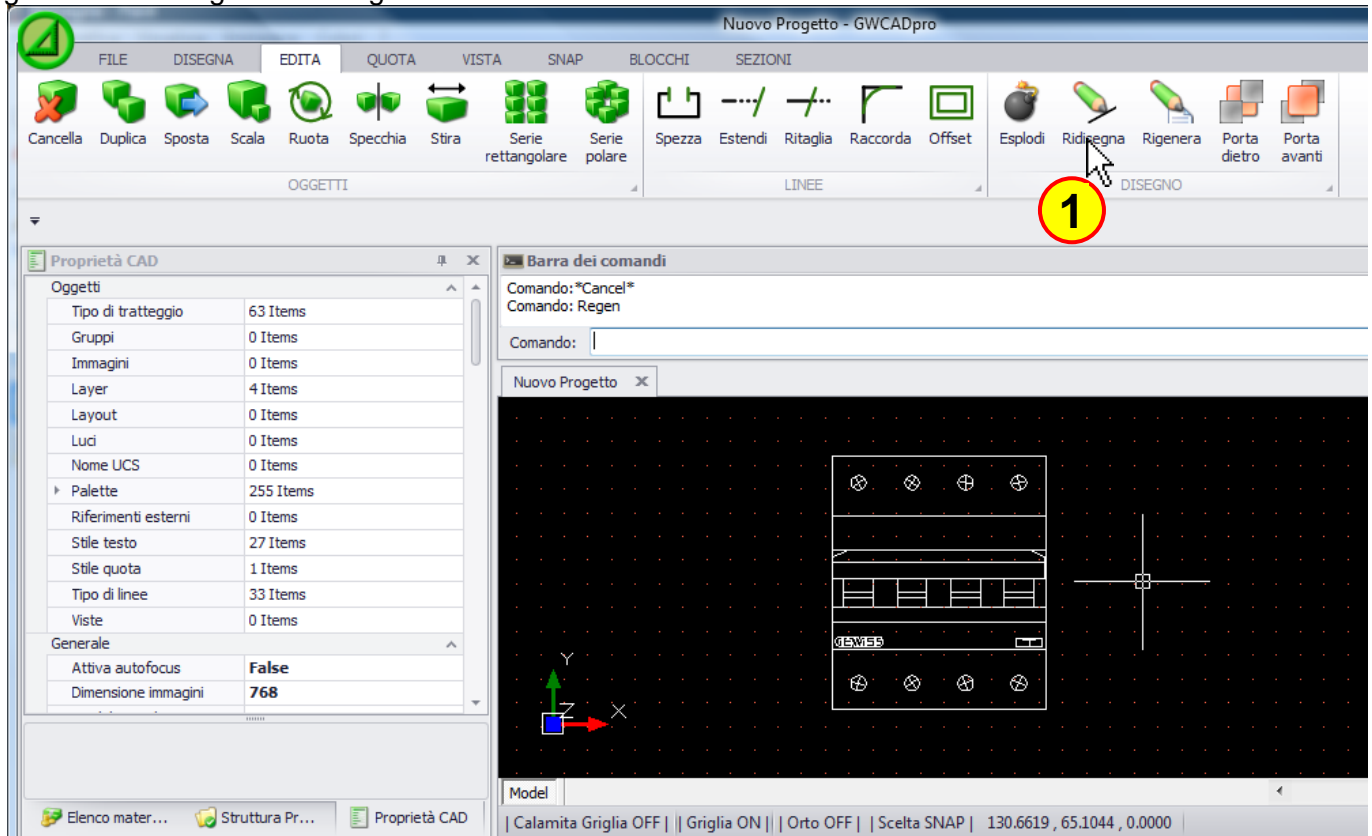


The copied object can be pasted in the same project or in another one:



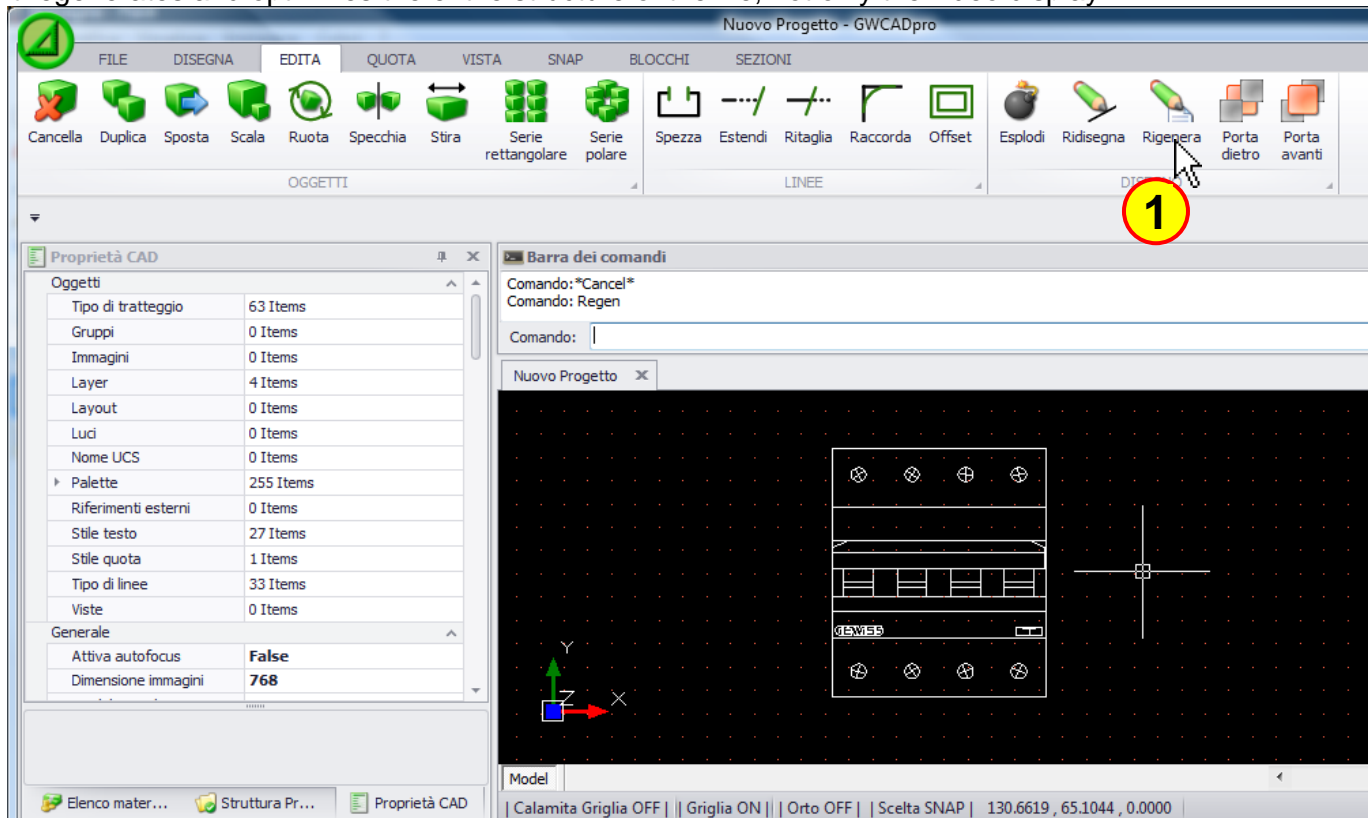
1318 - Redraw

This commands allows you to redraw the "CAD Workspace" by removing mistakes or imperfections generated during the drawing:



1319 - Regen

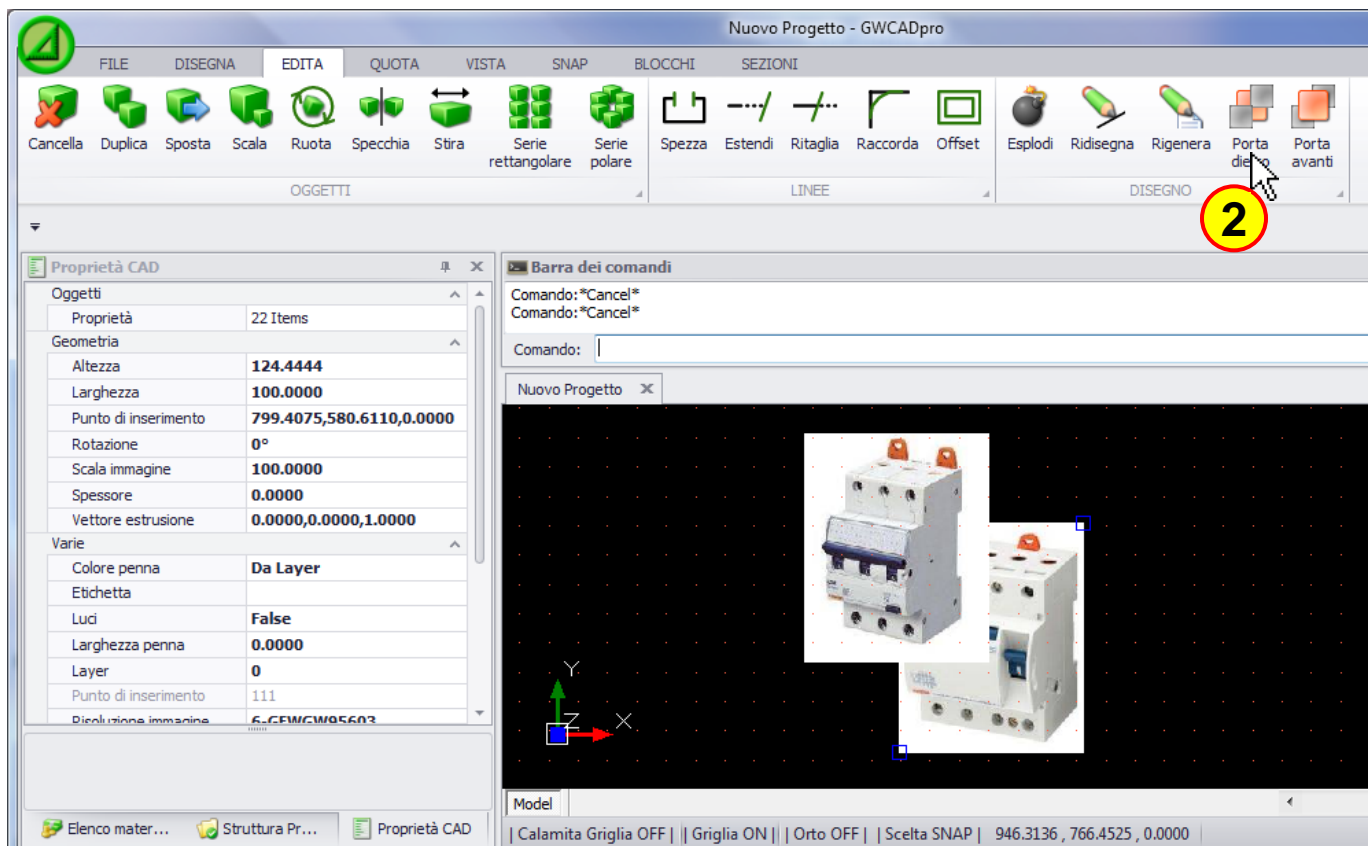
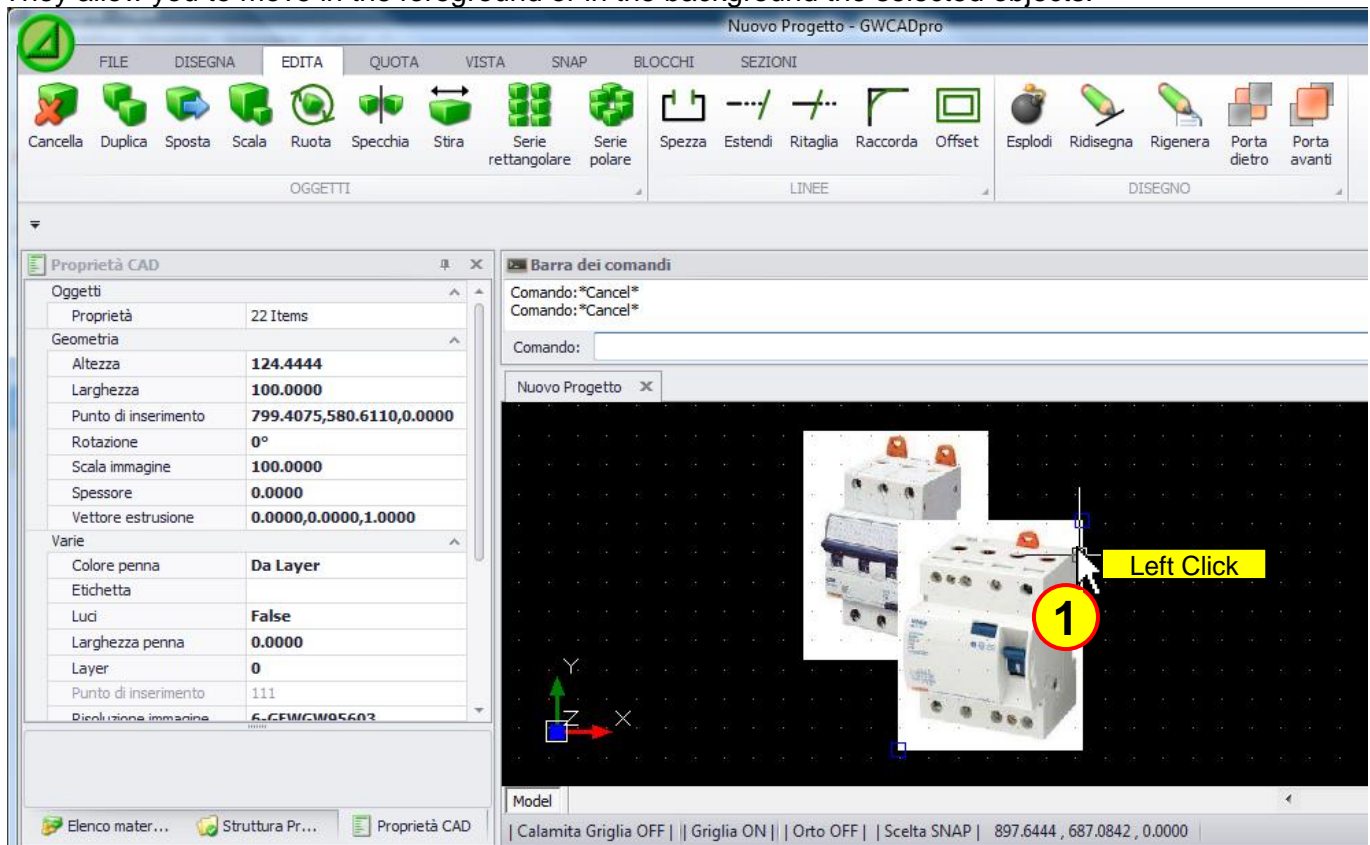
It regenerates and optimizes the entire structure of the file, not only the video display:





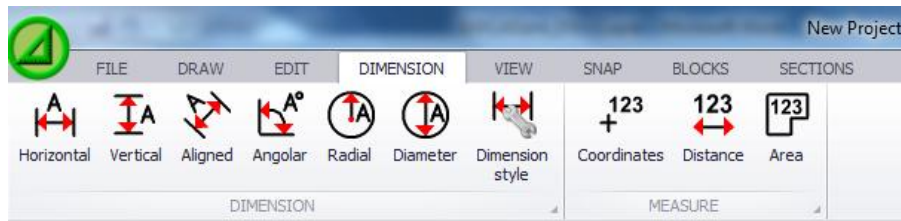
1320 - Send to back and Bring to front

They allow you to move in the foreground or in the background the selected objects:



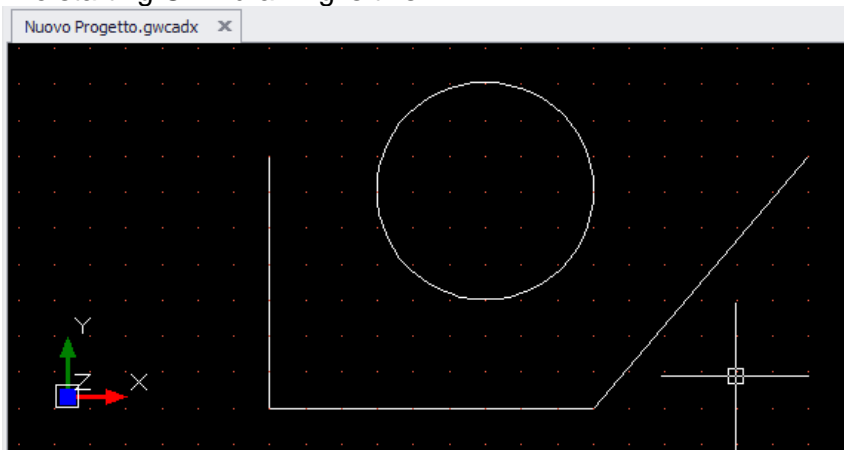
(The selection of objects can be done before or after pressing “Send to back” or “Bring to front” buttons)

1400 – Dimension Menu



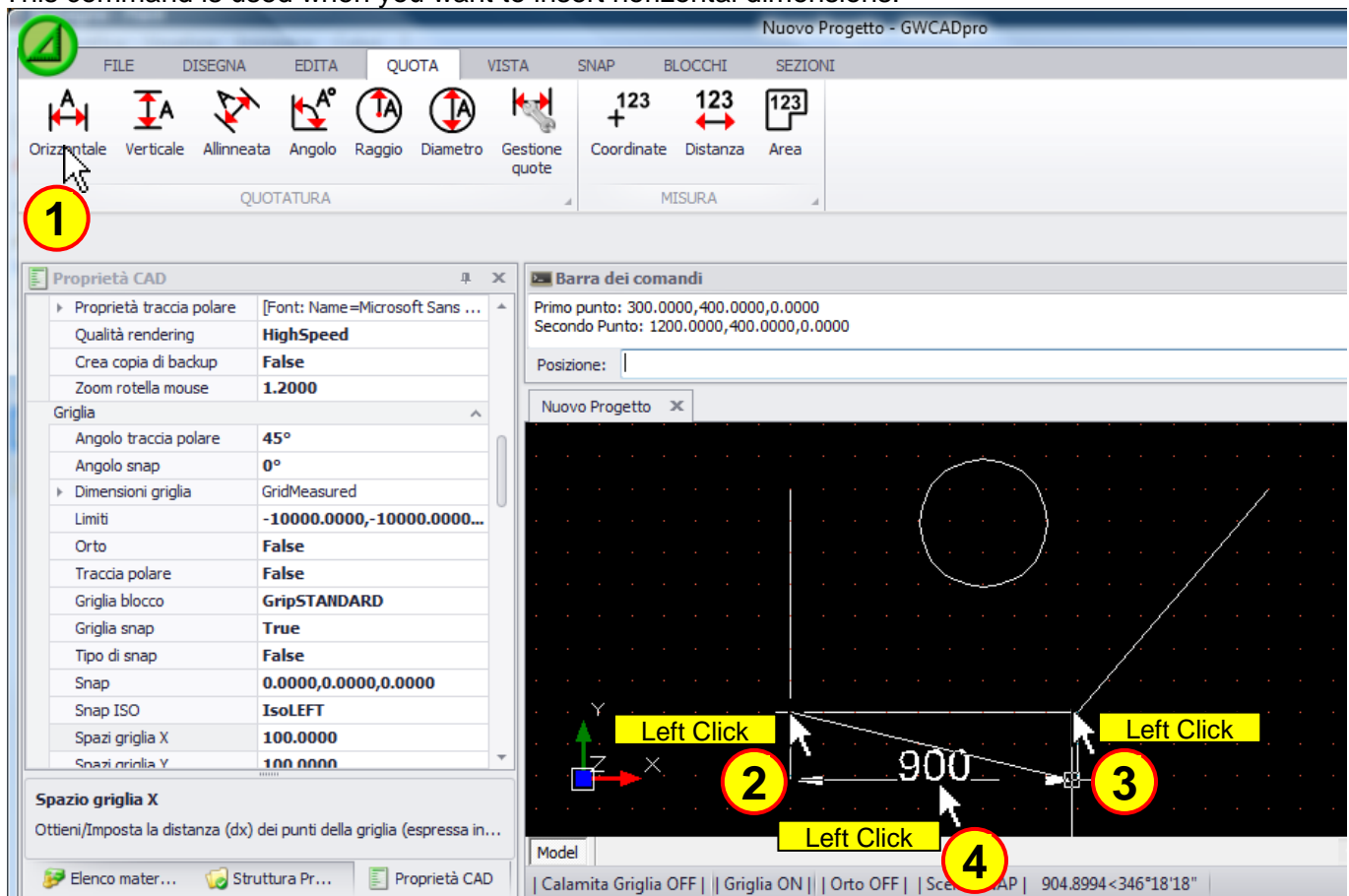
To create the dimensions in the design is recommended to enable the **“SNAP end point”** and the **“SNAP centre”** by the SNAP menu.

The starting CAD drawing is this:



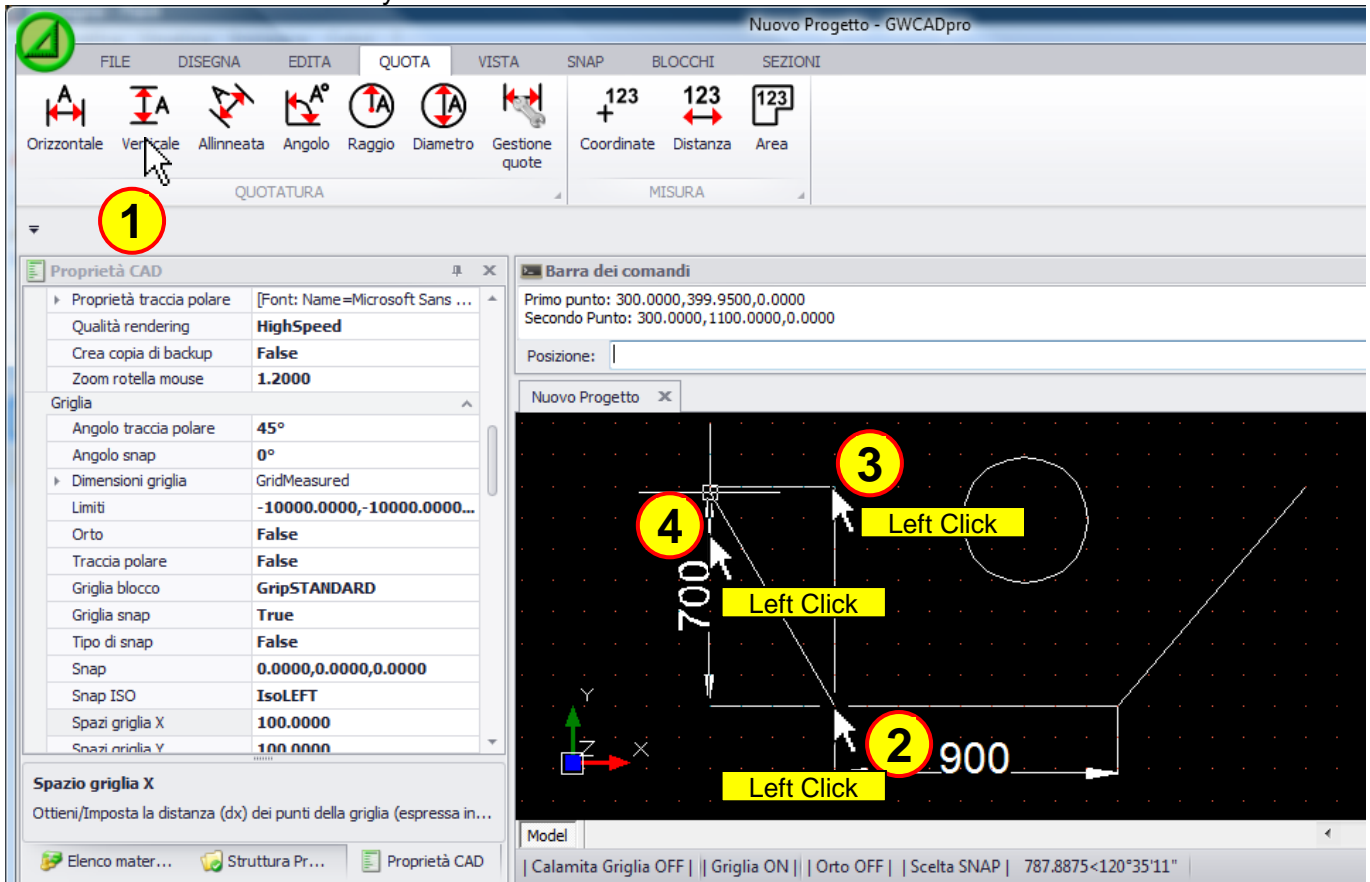
1401 - Horizontal

This command is used when you want to insert horizontal dimensions:



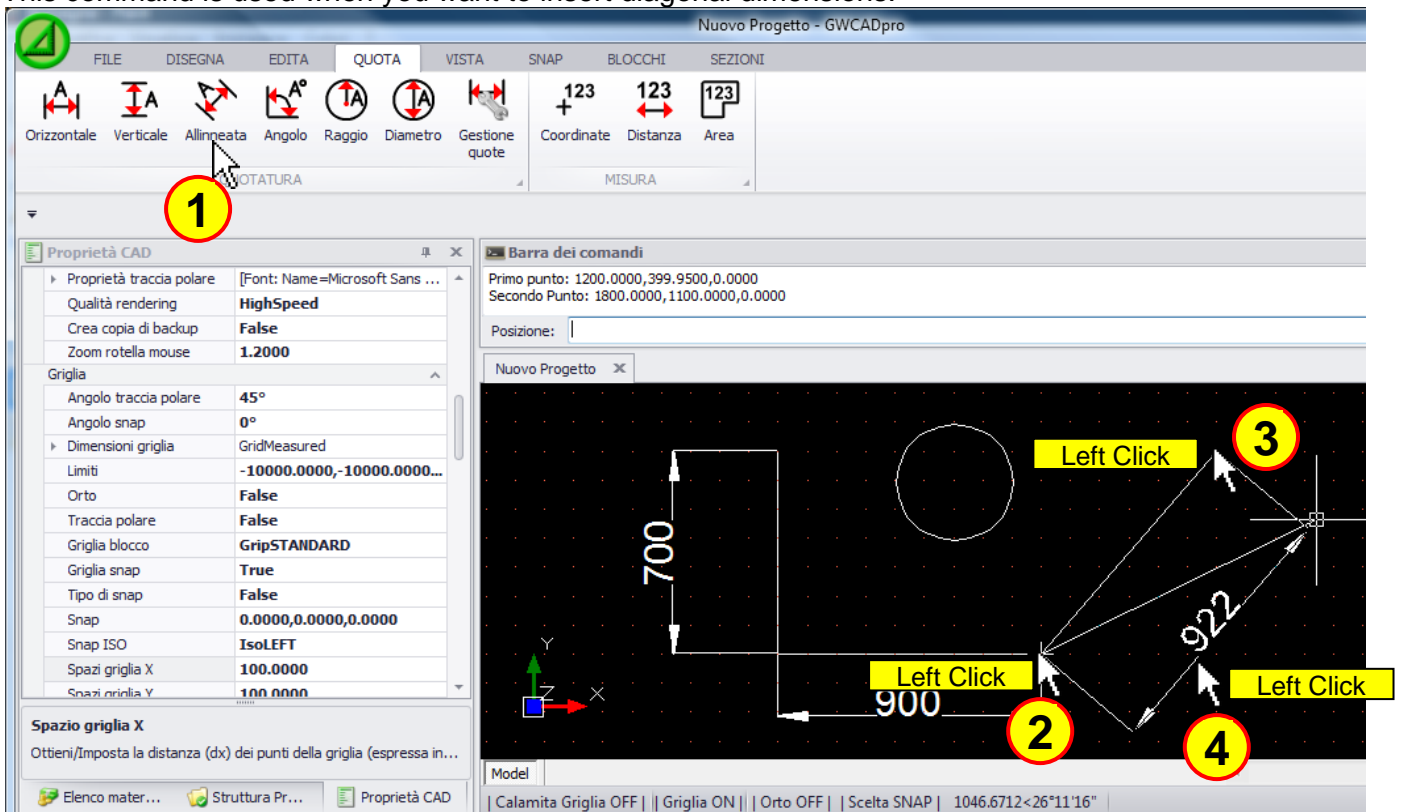
1402 - Vertical

This command is used when you want to insert vertical dimensions:



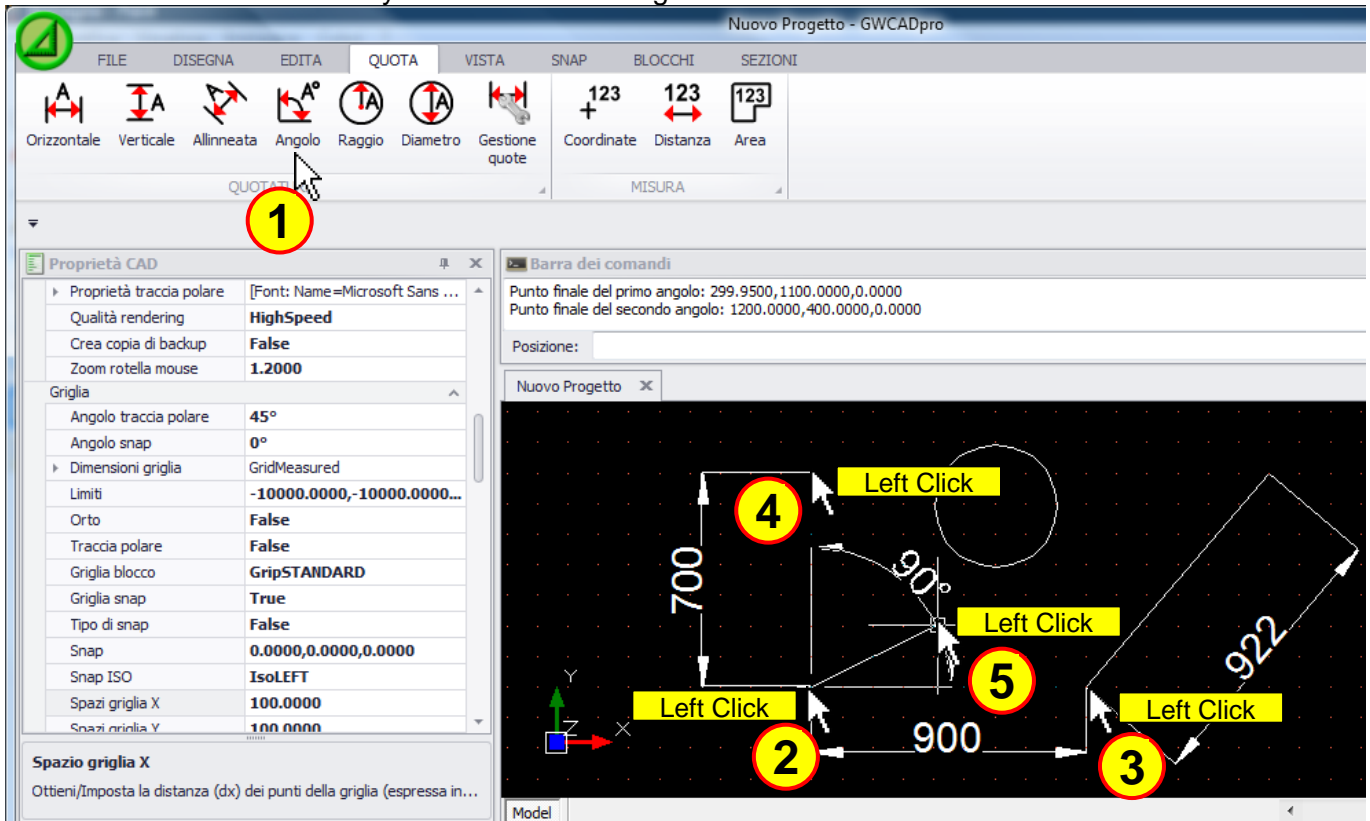
1403 - Aligned

This command is used when you want to insert diagonal dimensions:



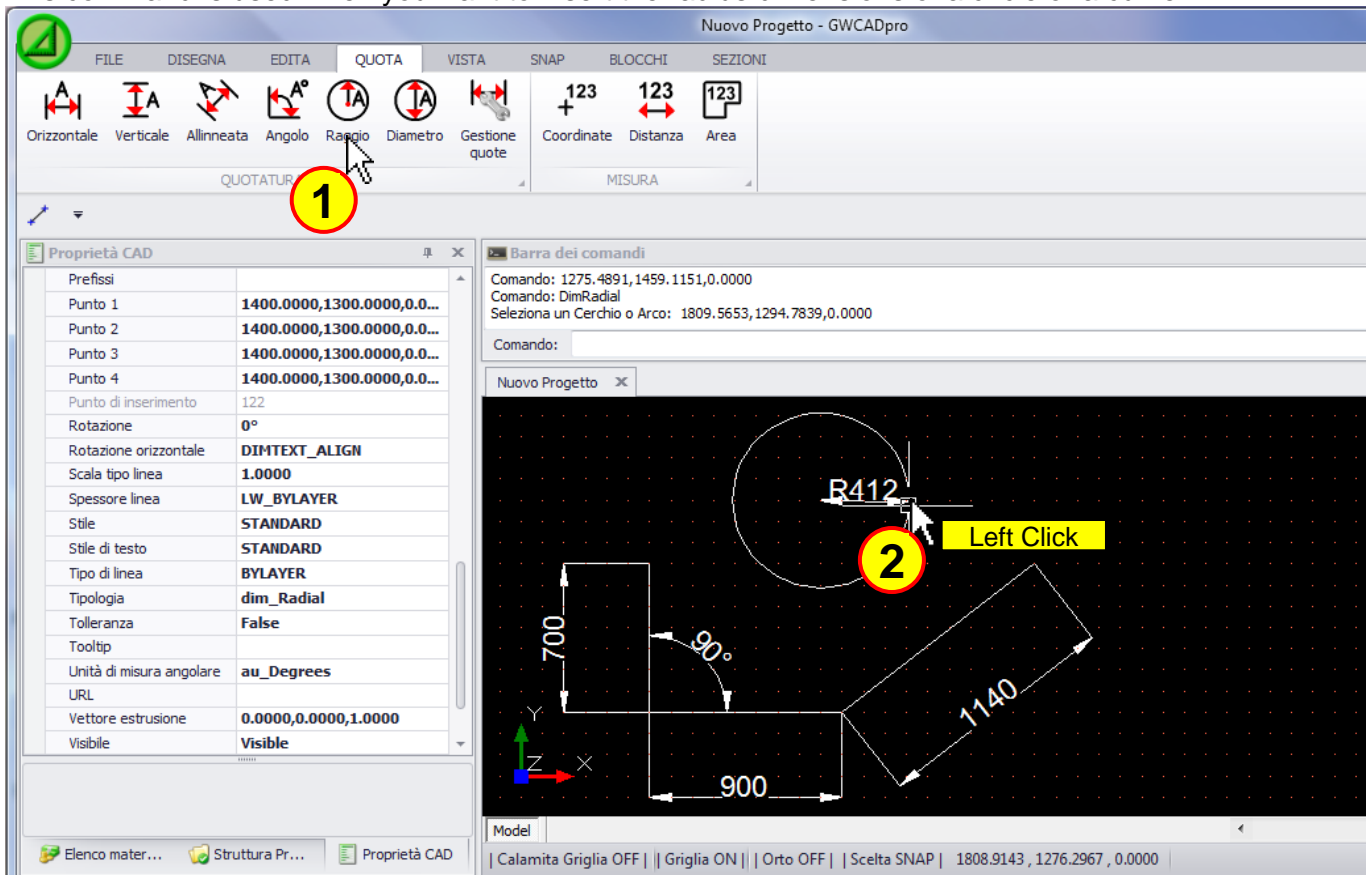
1404 - Angular

This command is used when you want to insert angular dimensions:



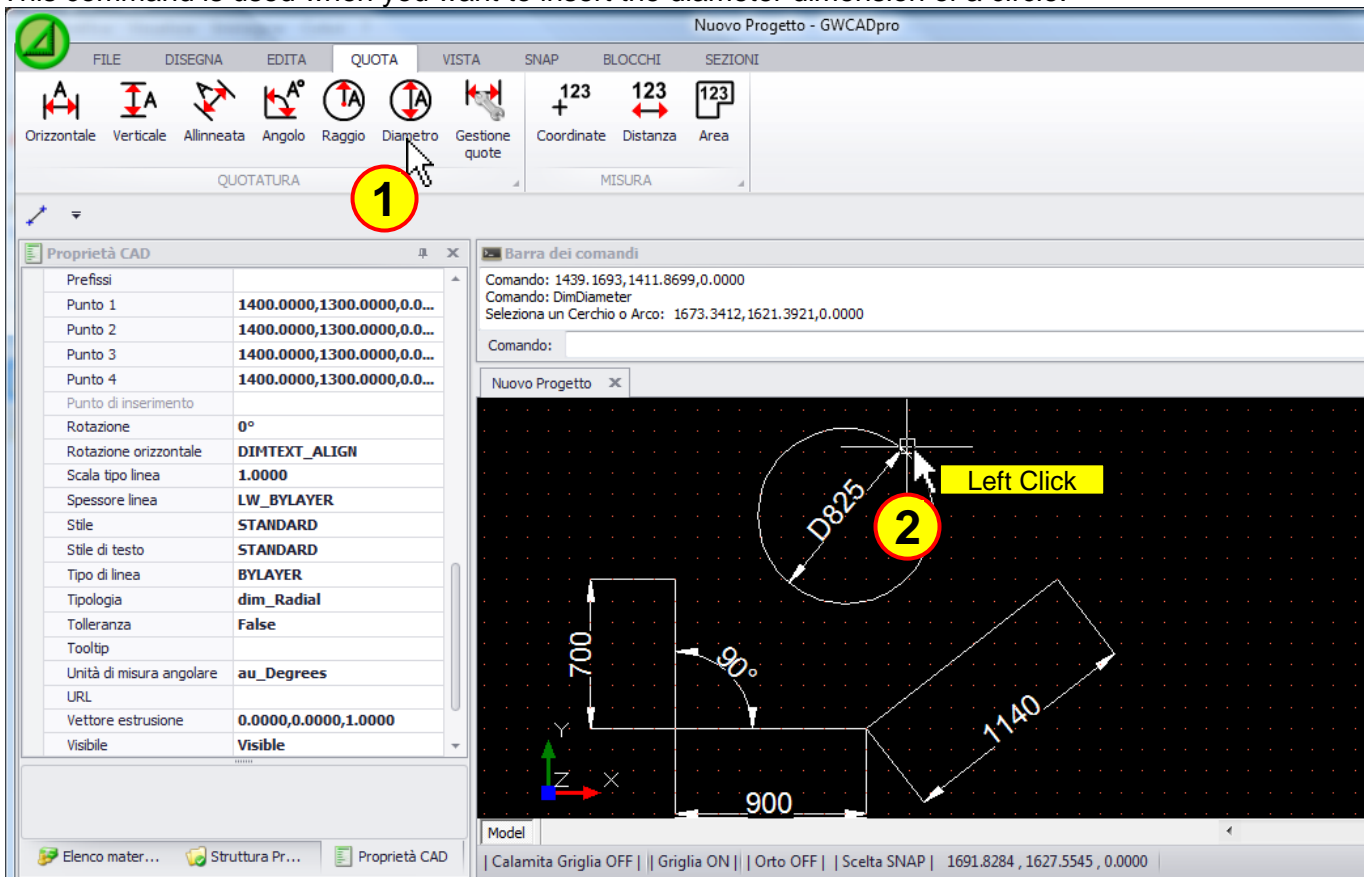
1405 - Radial

This command is used when you want to insert the radius dimensions of a circle or a curve:



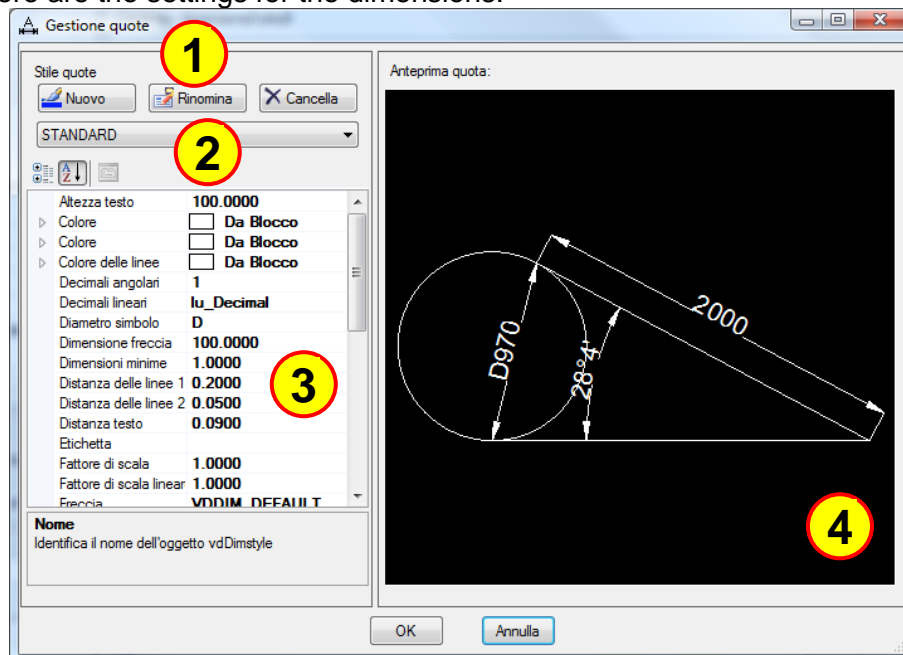
1406 - Diameter

This command is used when you want to insert the diameter dimension of a circle:



1407 - Dimension style

In this window there are the settings for the dimensions:

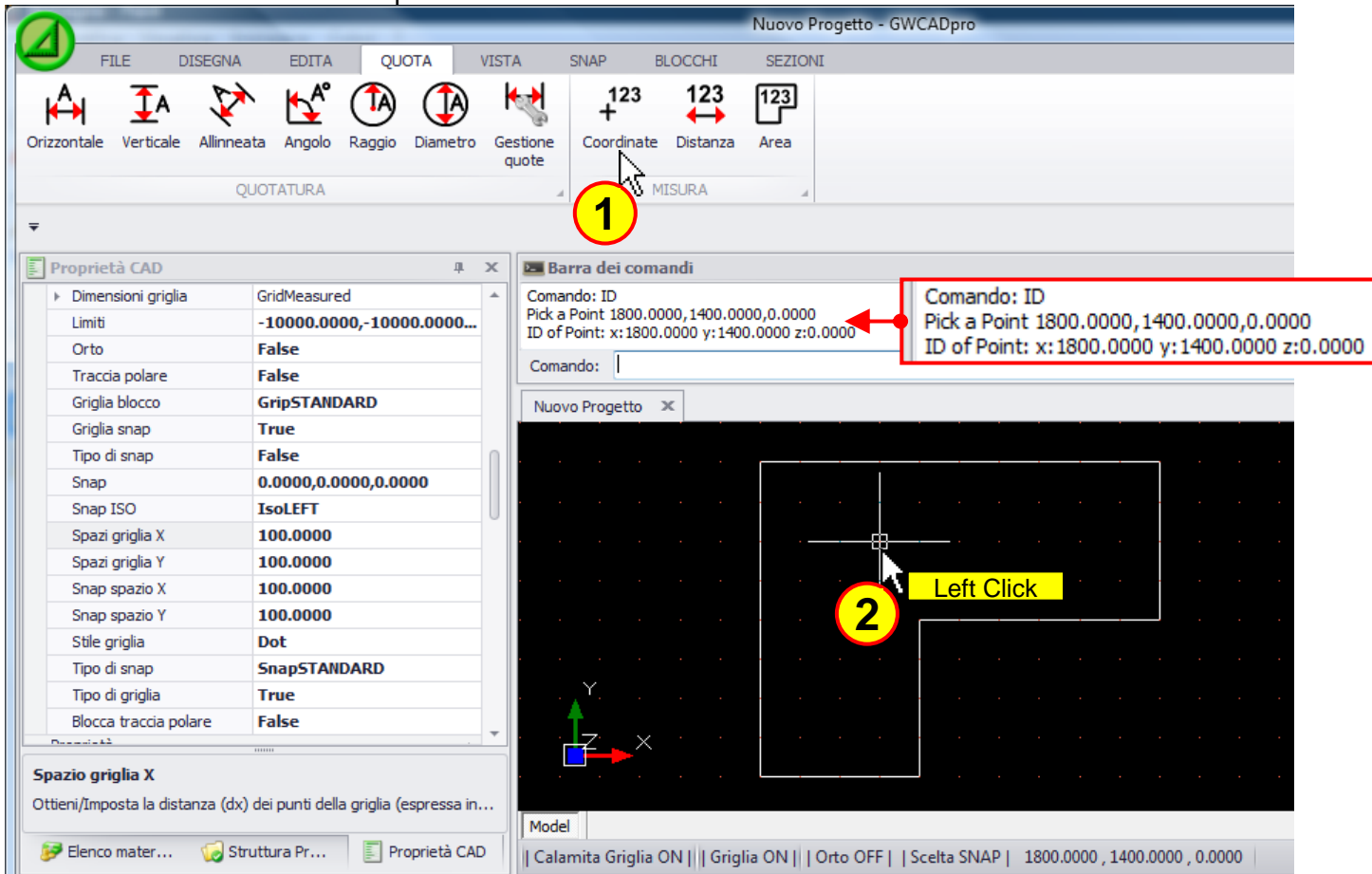


The main commands are:

- 1) New – Rename – Delete a dimension style
- 2) Select a style
- 3) Set the parameters for the dimension (colors, dimensions, distances ecc.)
- 4) Dimension preview

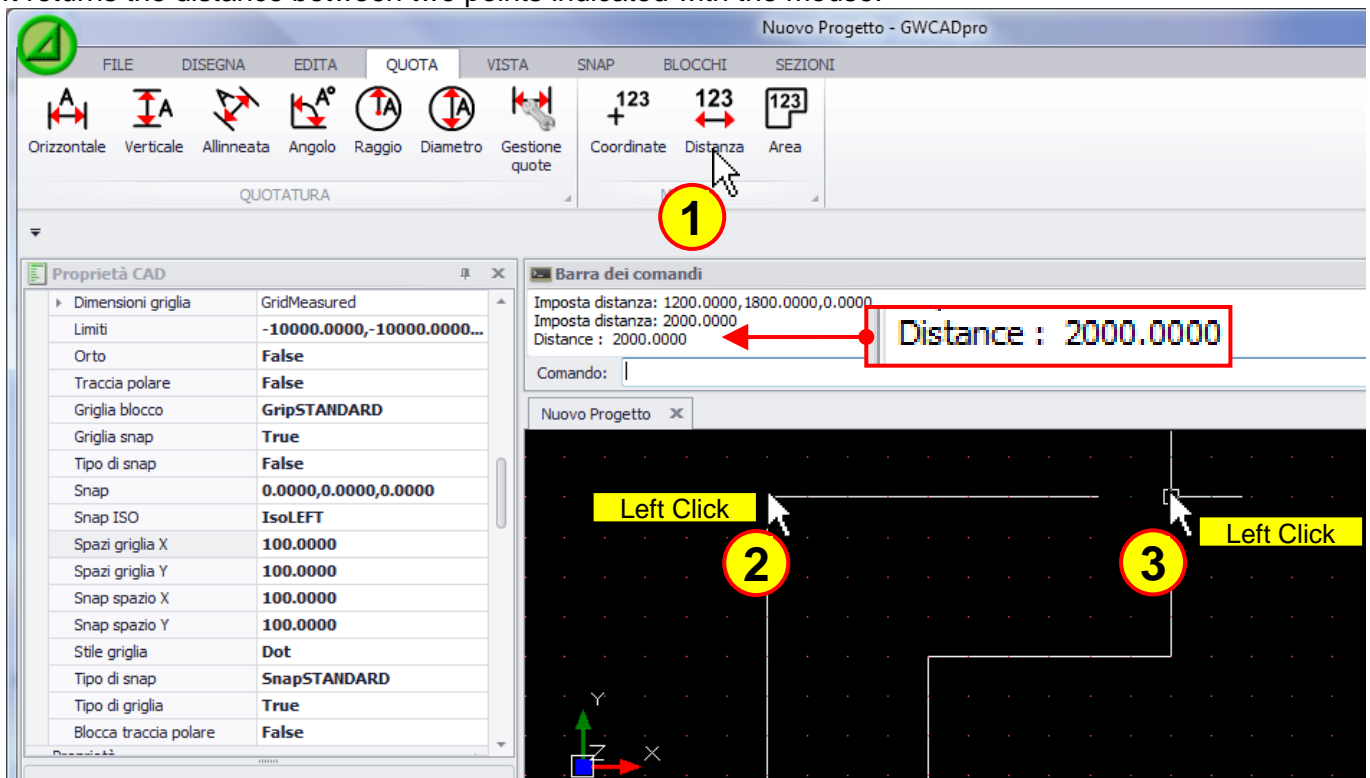
1408 - ¹²³ + Coordinates

It returns the coordinates of the point indicated with the mouse:



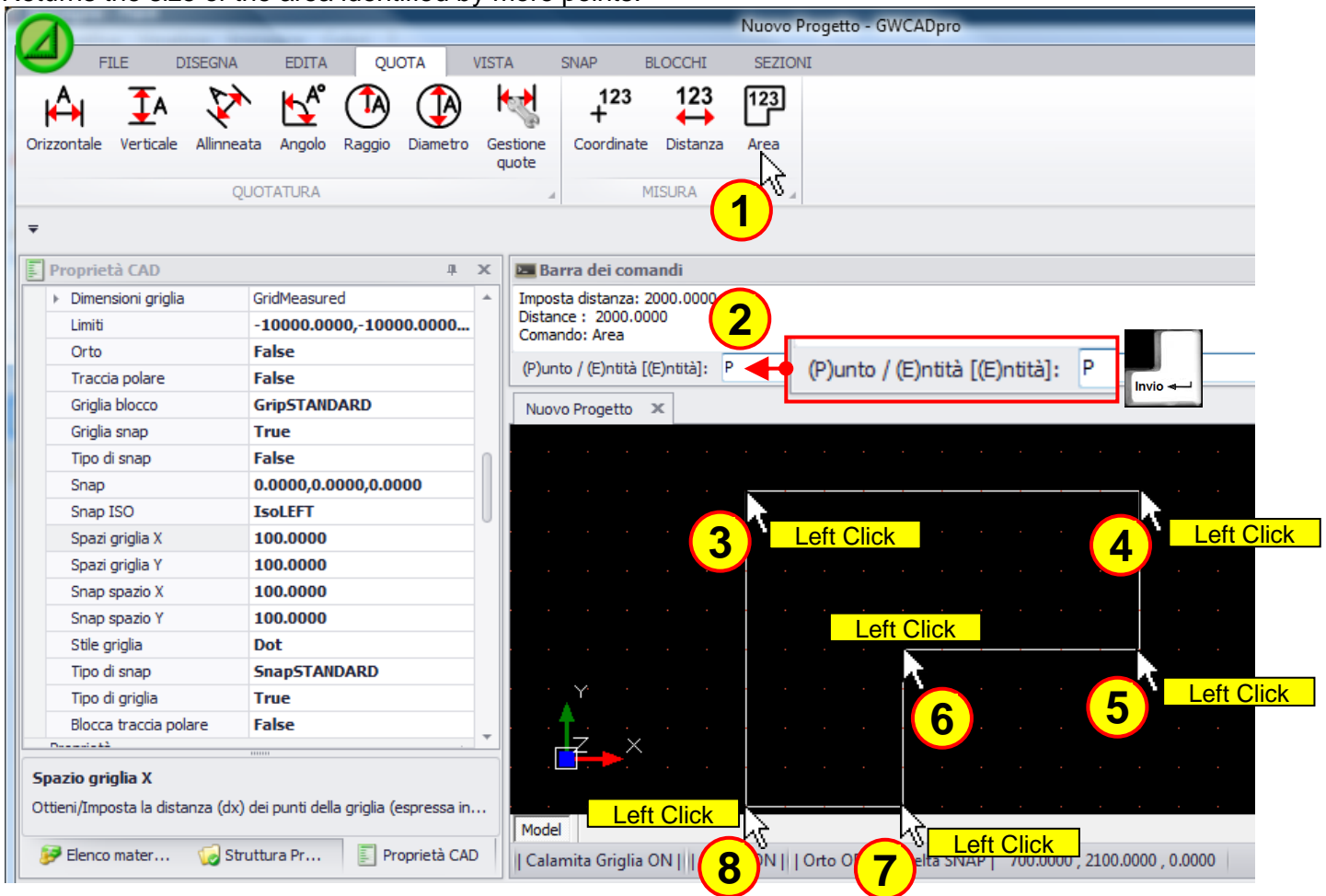
1409 - ¹²³ ↔ Distance

It returns the distance between two points indicated with the mouse:

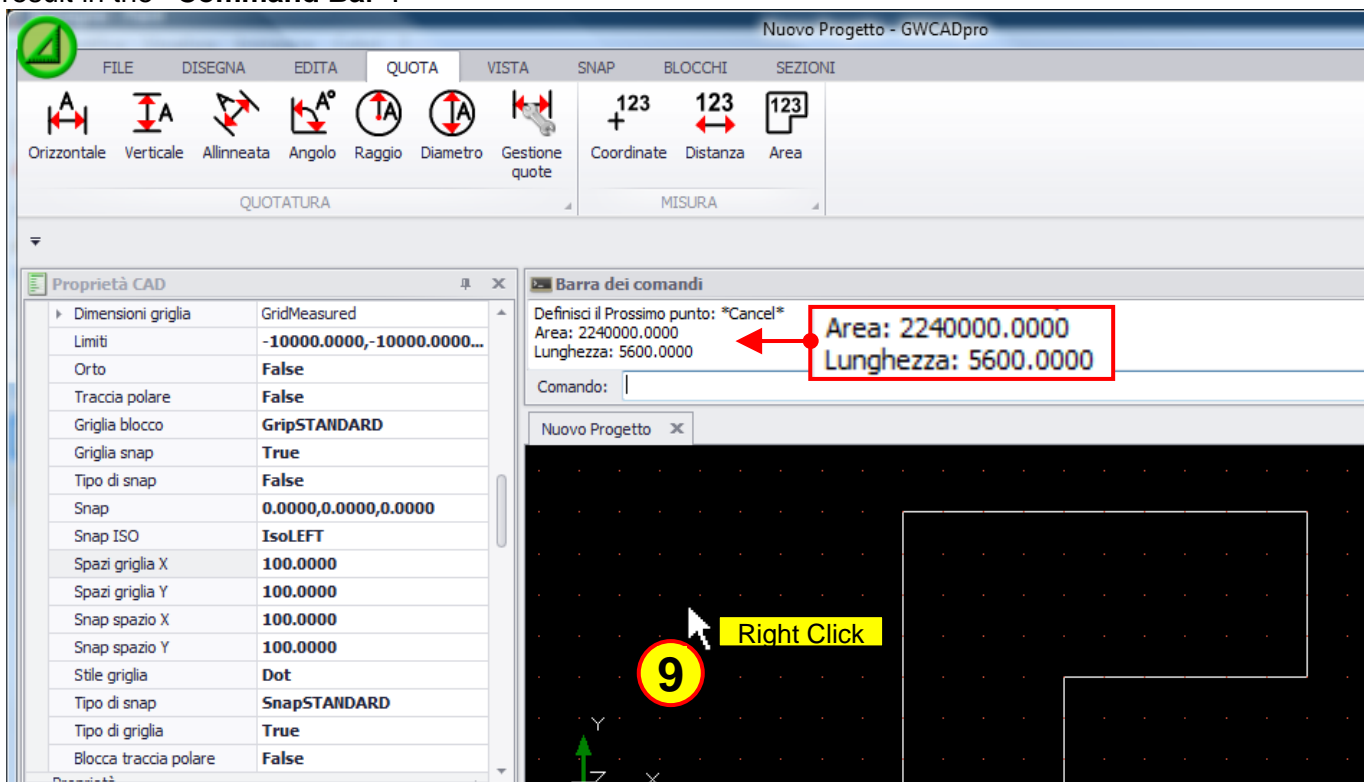


1410 - Area

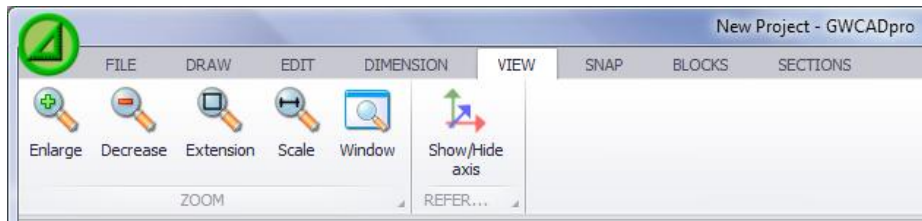
Returns the size of the area identified by more points:



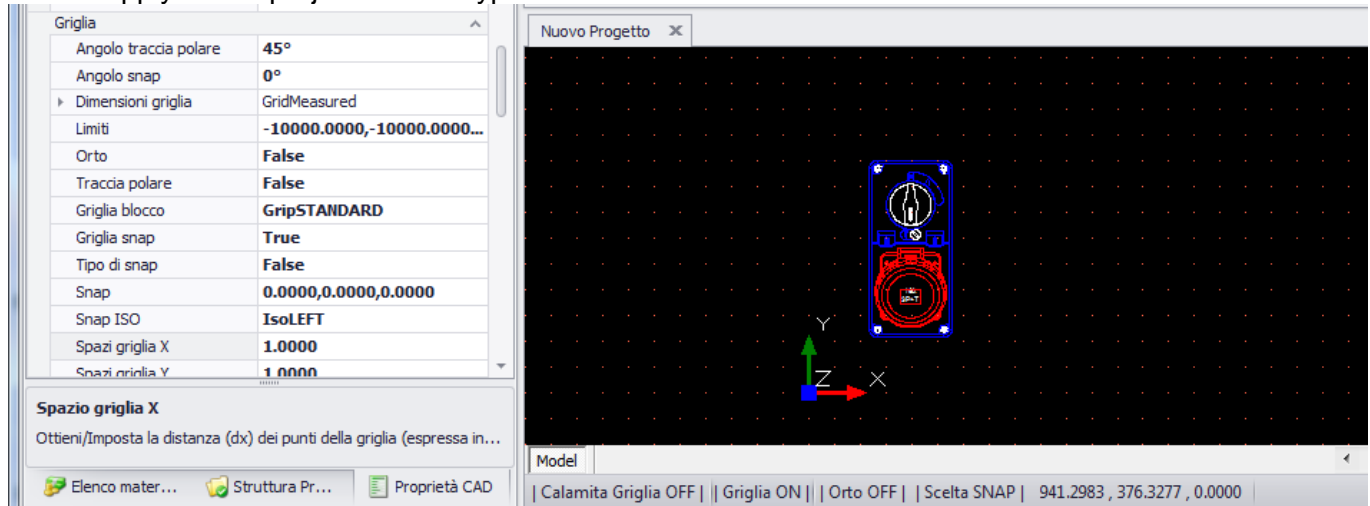
After selecting the various points, you can click in the workspace with the right mouse button to get the result in the “**Command Bar**”:



1500 – View Menu

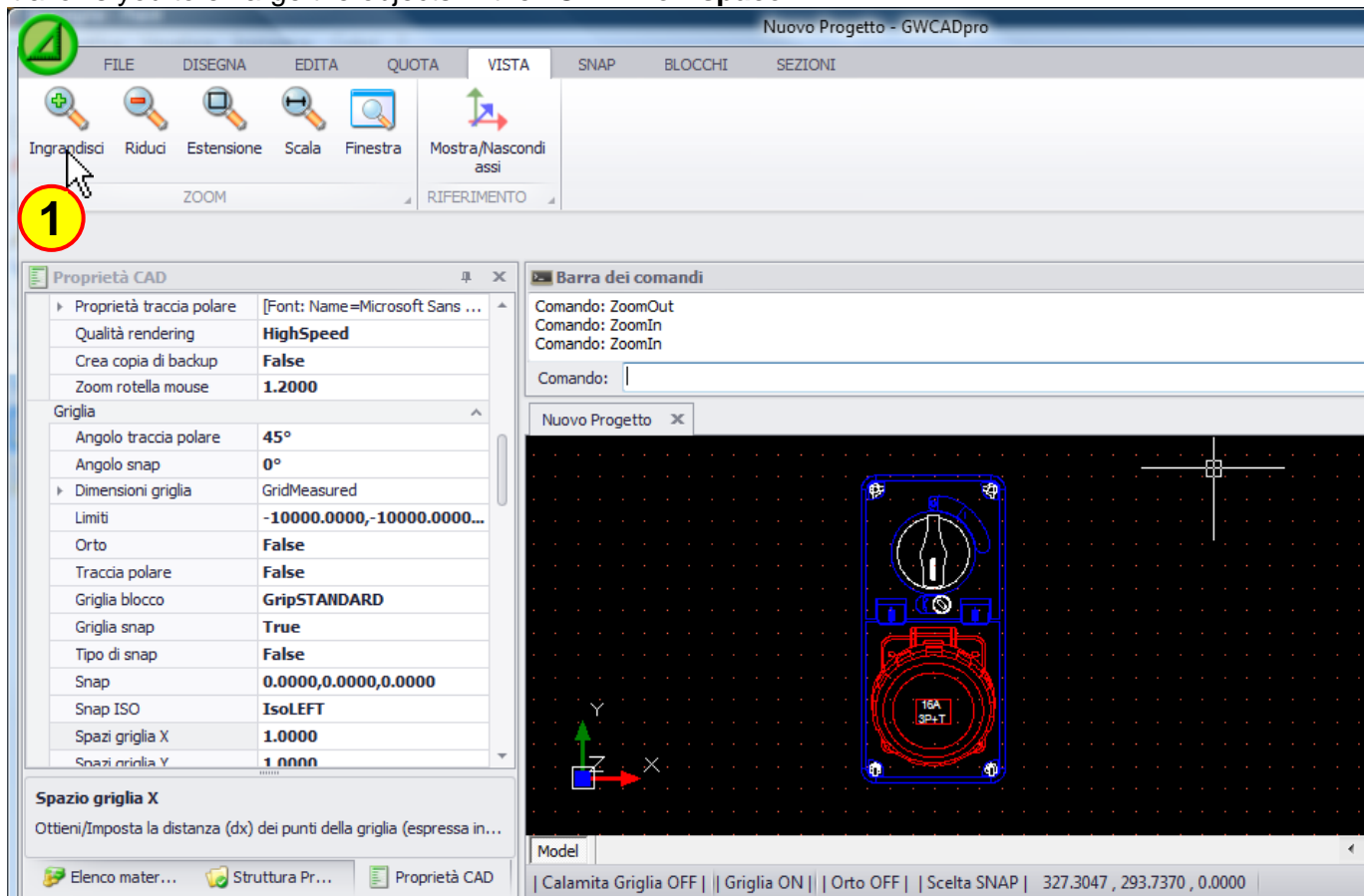


We will apply to this project various types of zoom.



1501 - Enlarge

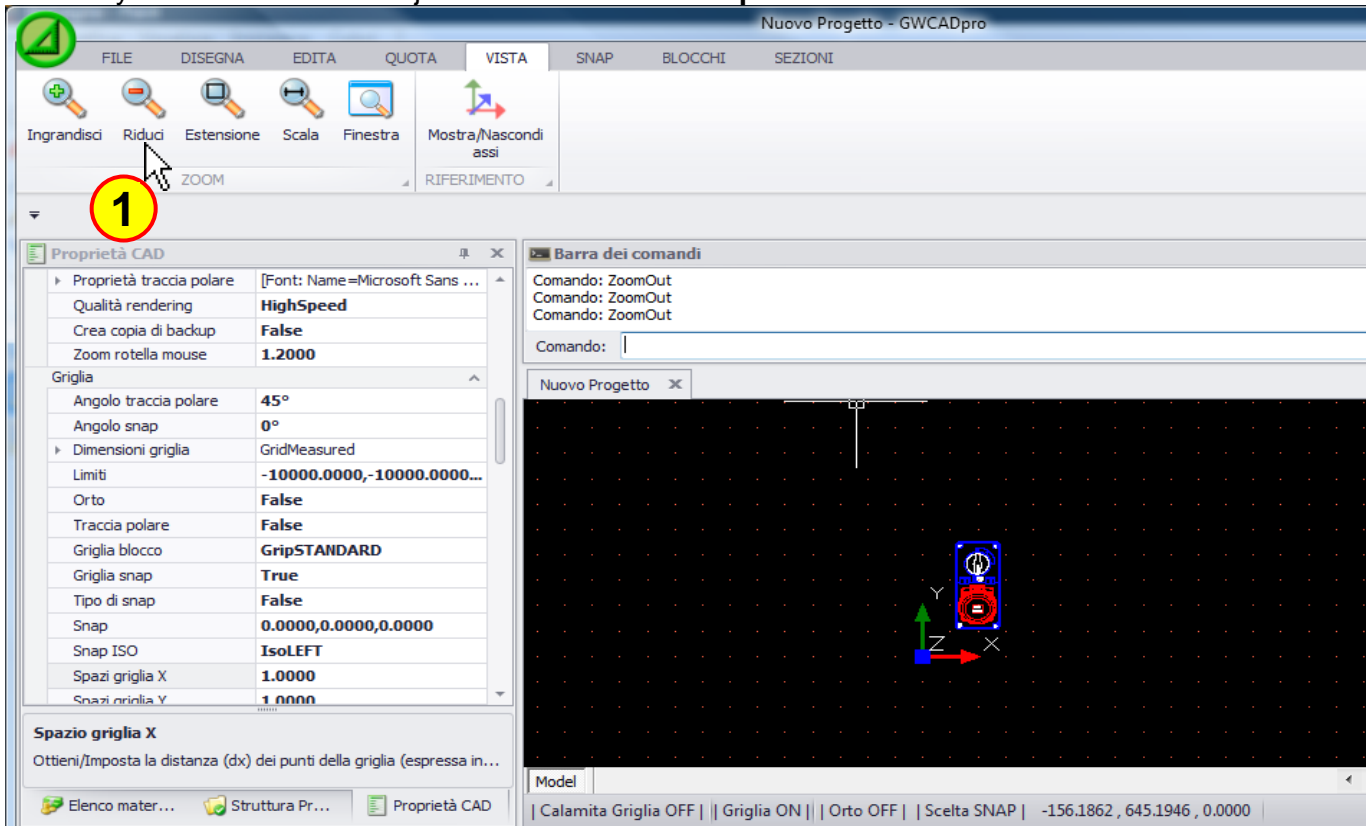
It allows you to enlarge the objects in the “CAD Workspace”:



(This function can also be realized through the mouse wheel)

1502 - Decrease

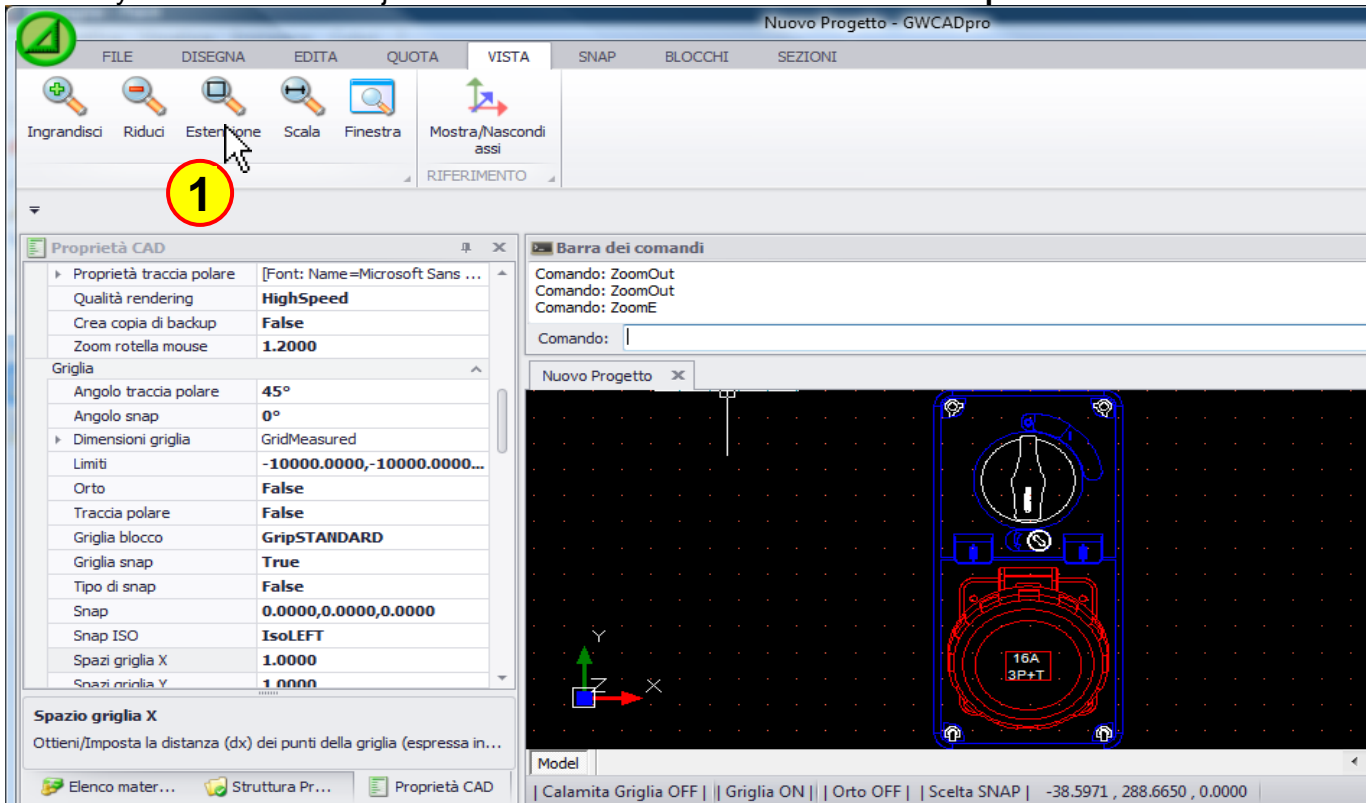
It allows you to decrease the objects in the “CAD Workspace”:



(This function can also be realized through the mouse wheel)

1503 - Extension

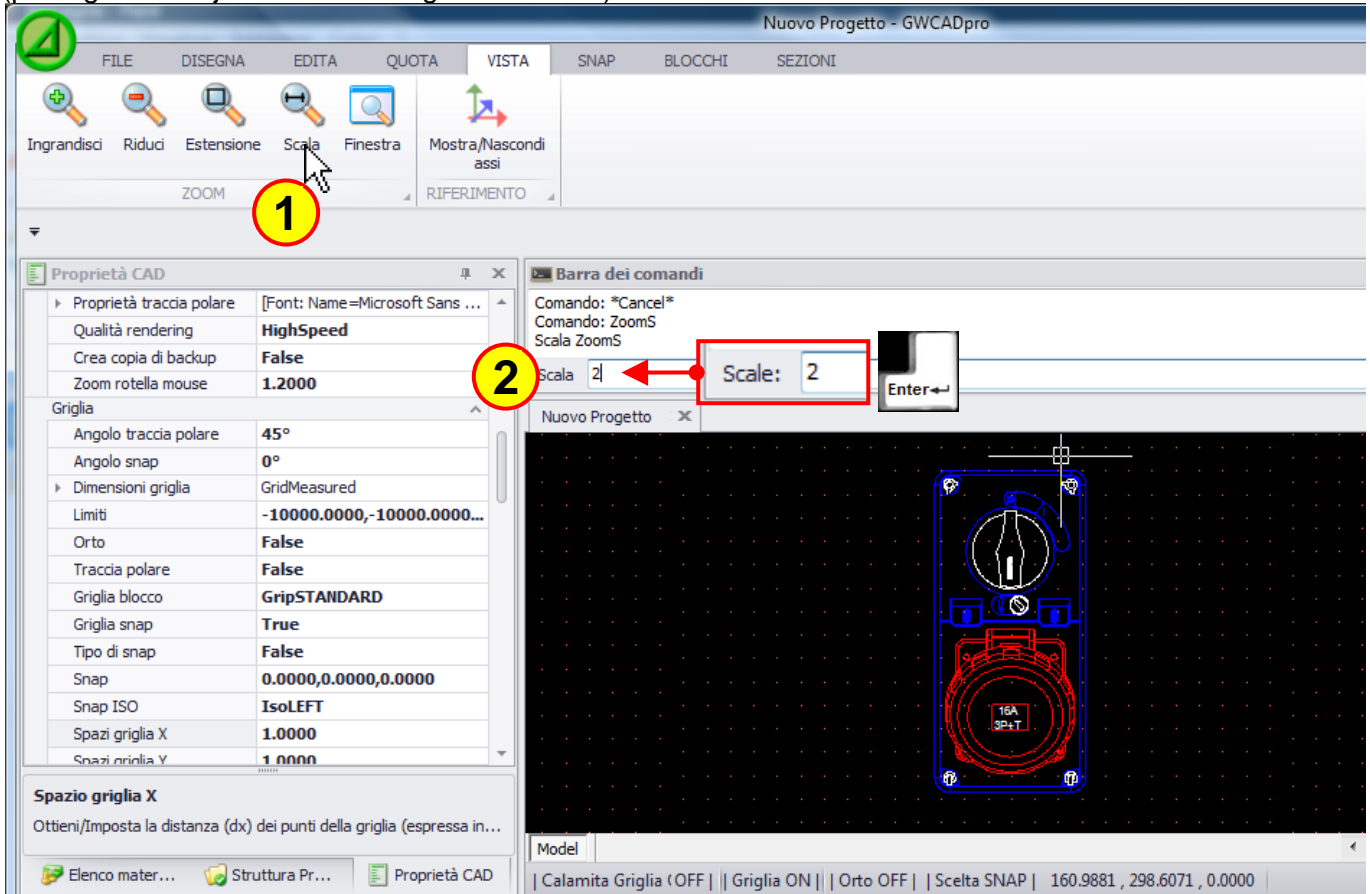
It allows you to extend the objects to the maximum size of the “CAD Workspace”:



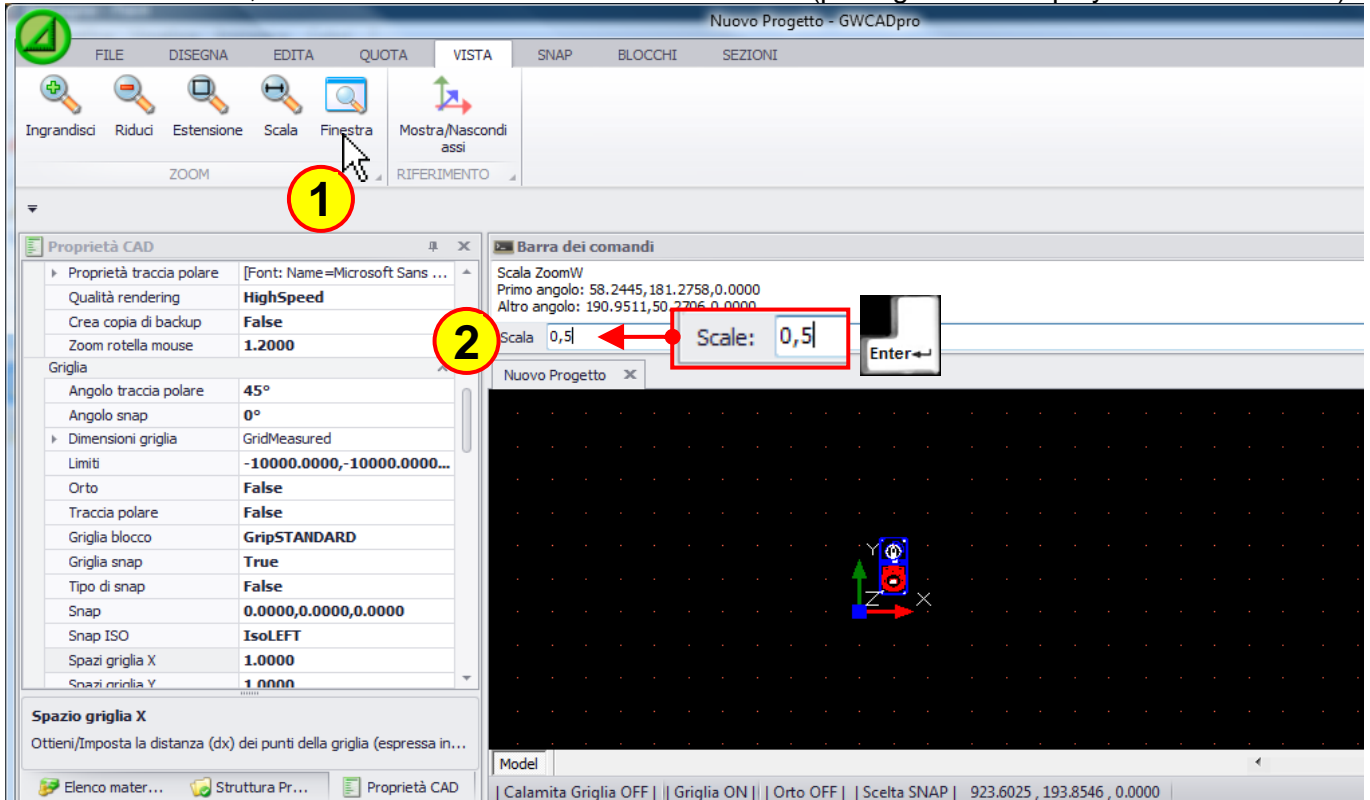
(This function can also be realized by double clicking the mouse wheel)

1504 - Scale

It allows you to scale the objects in the "CAD Workspace" using a scale factor that will be > 1 to enlarge (putting 2 the object will be enlarged two times):

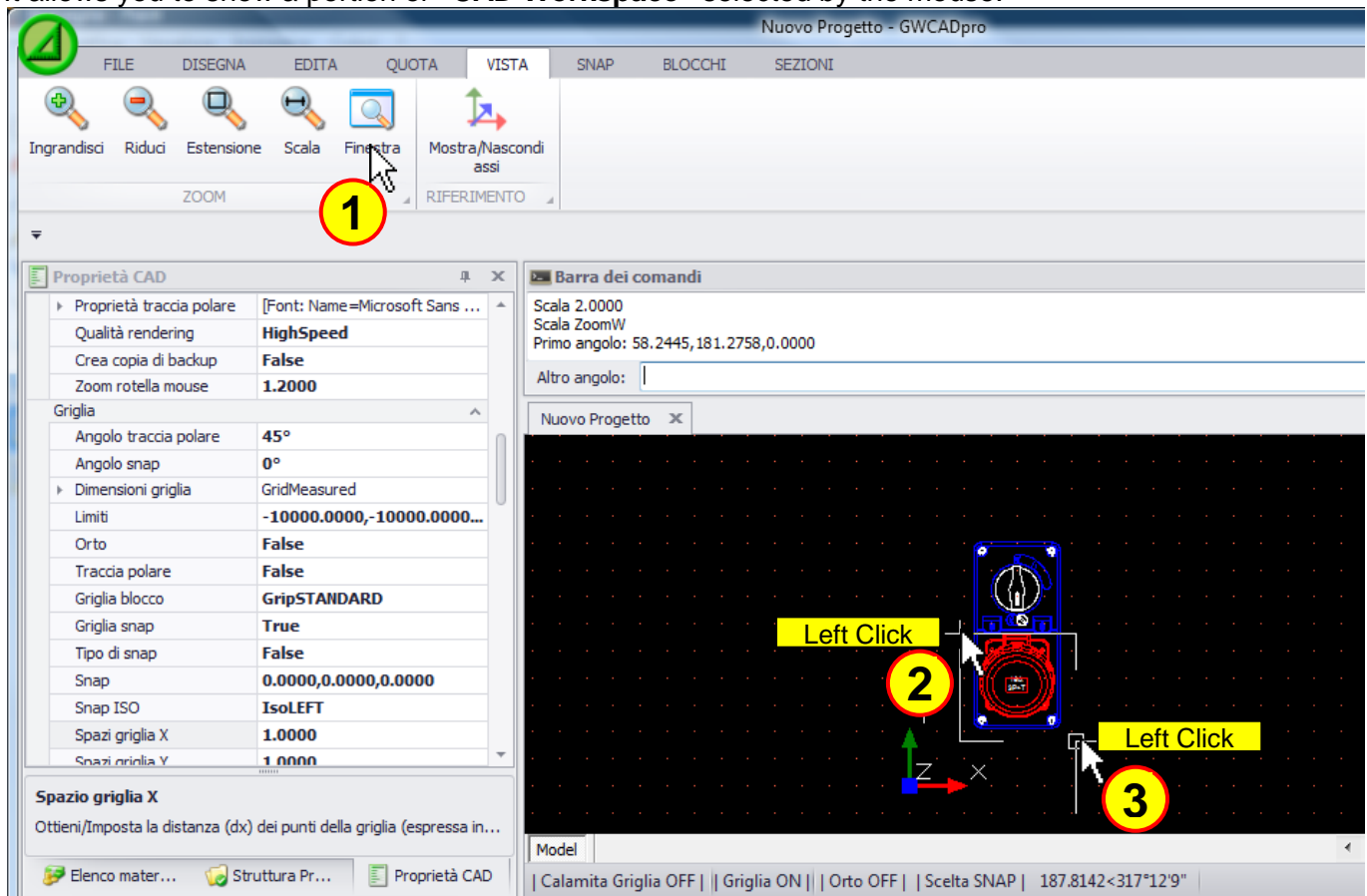


To reduce the view, the scale factor must be between 0 and 1 (putting 0.5 the display is reduced to half):

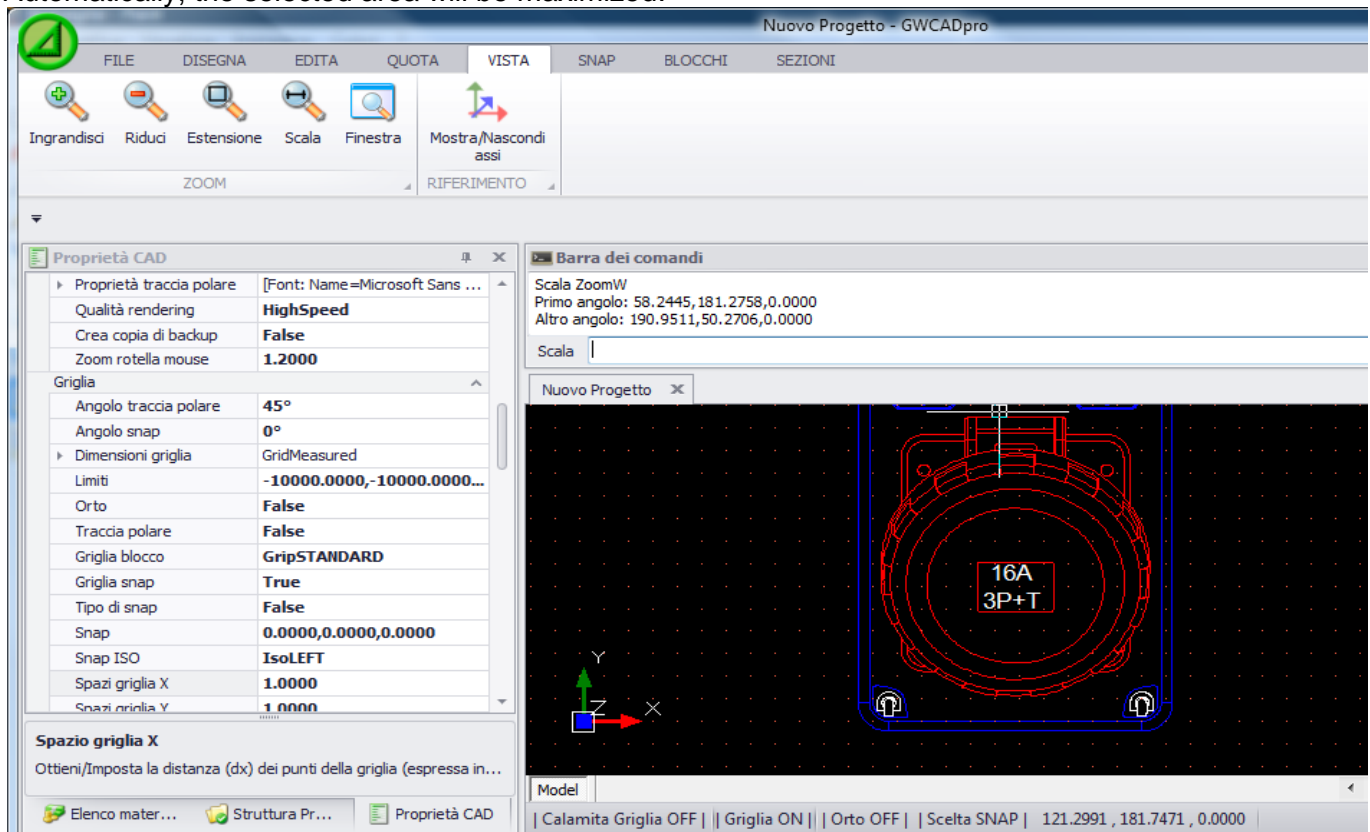


1505 - Window

It allows you to show a portion of “CAD Workspace” selected by the mouse:

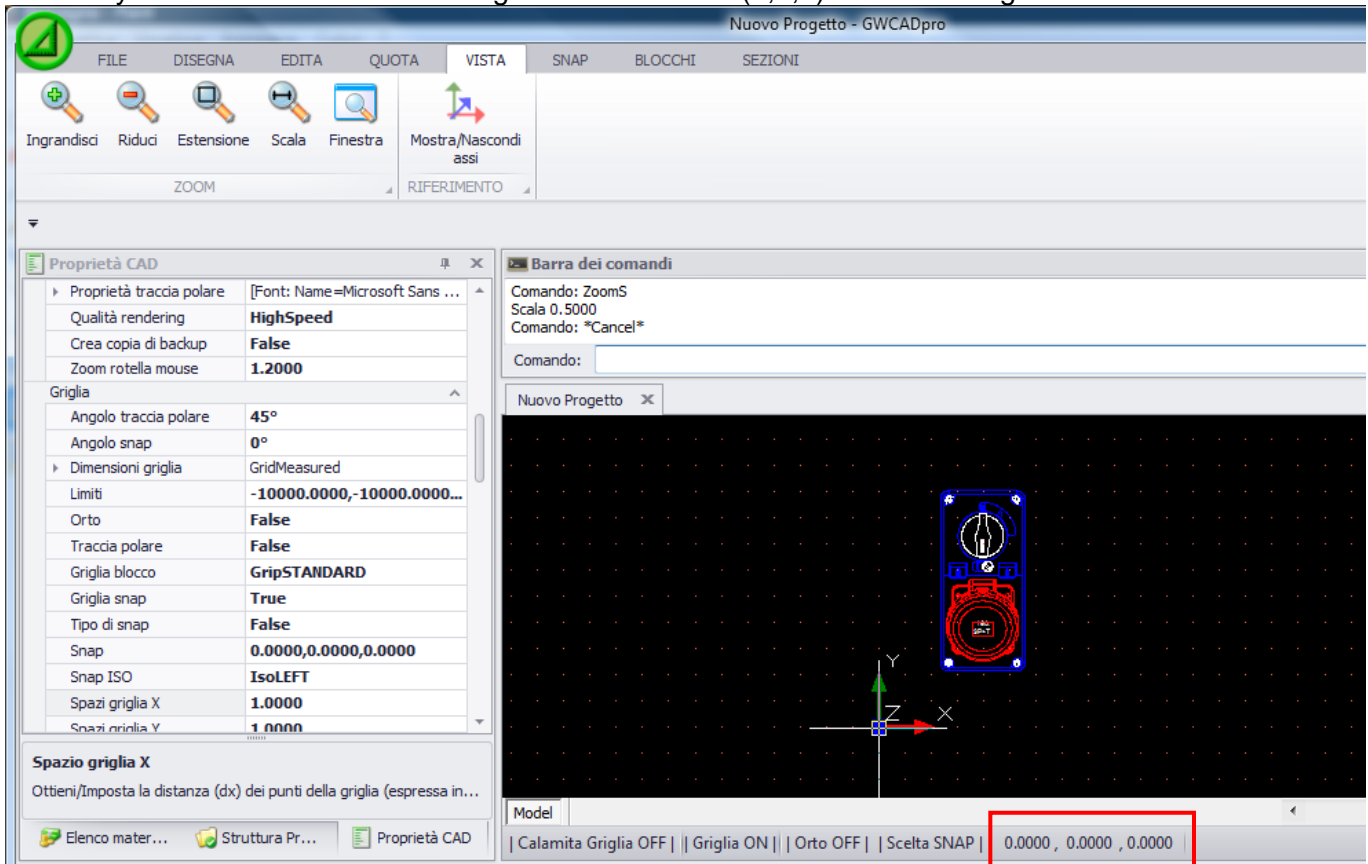


Automatically, the selected area will be maximized:

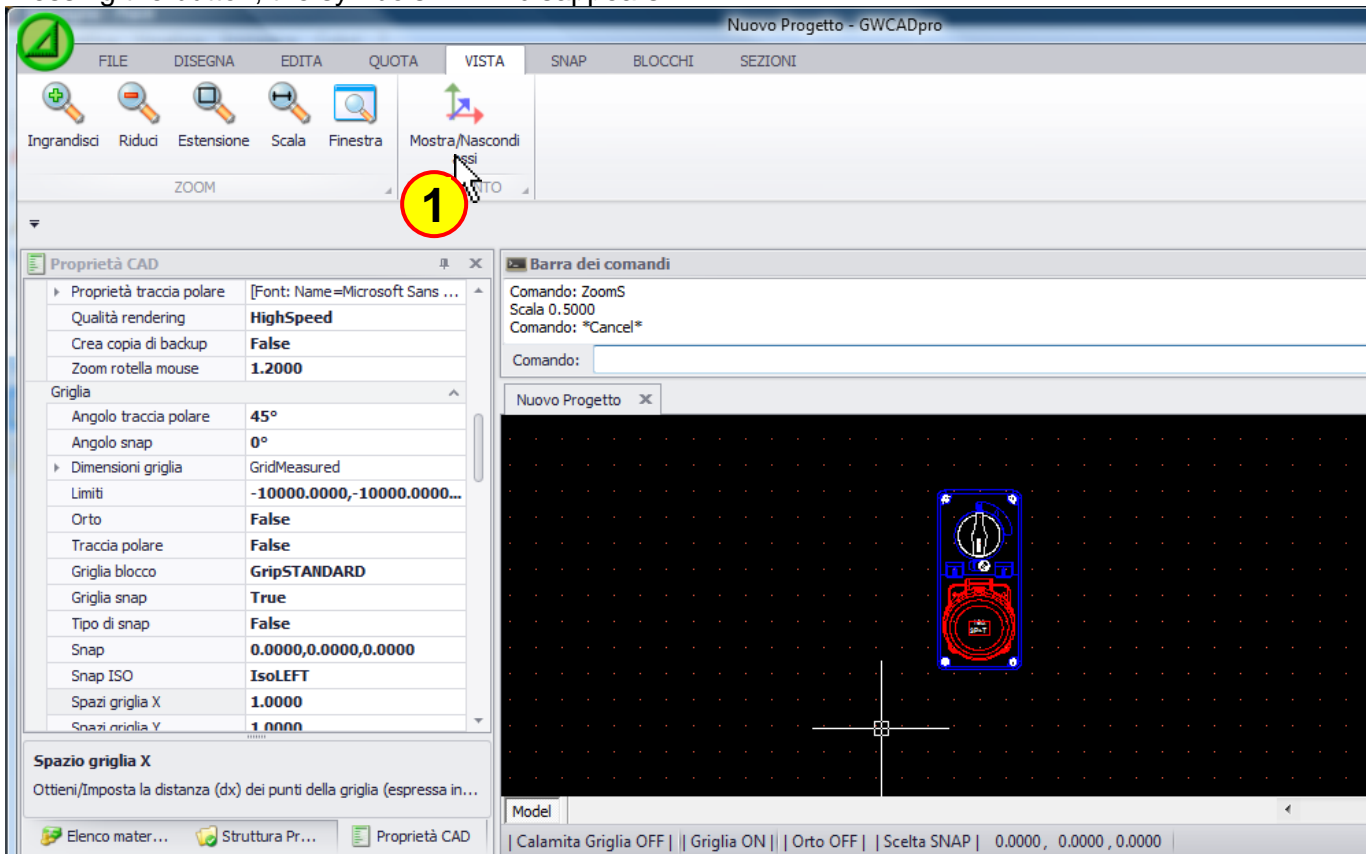


1506 - Show/Hide axis

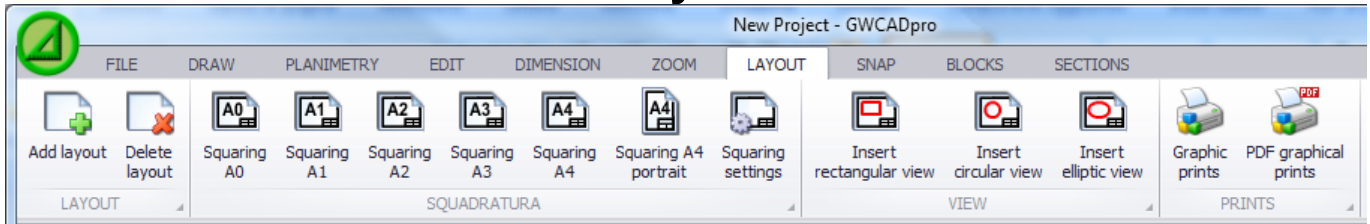
It allows you to show or to hide the origin identifier X Y Z (0,0,0) in the drawing:



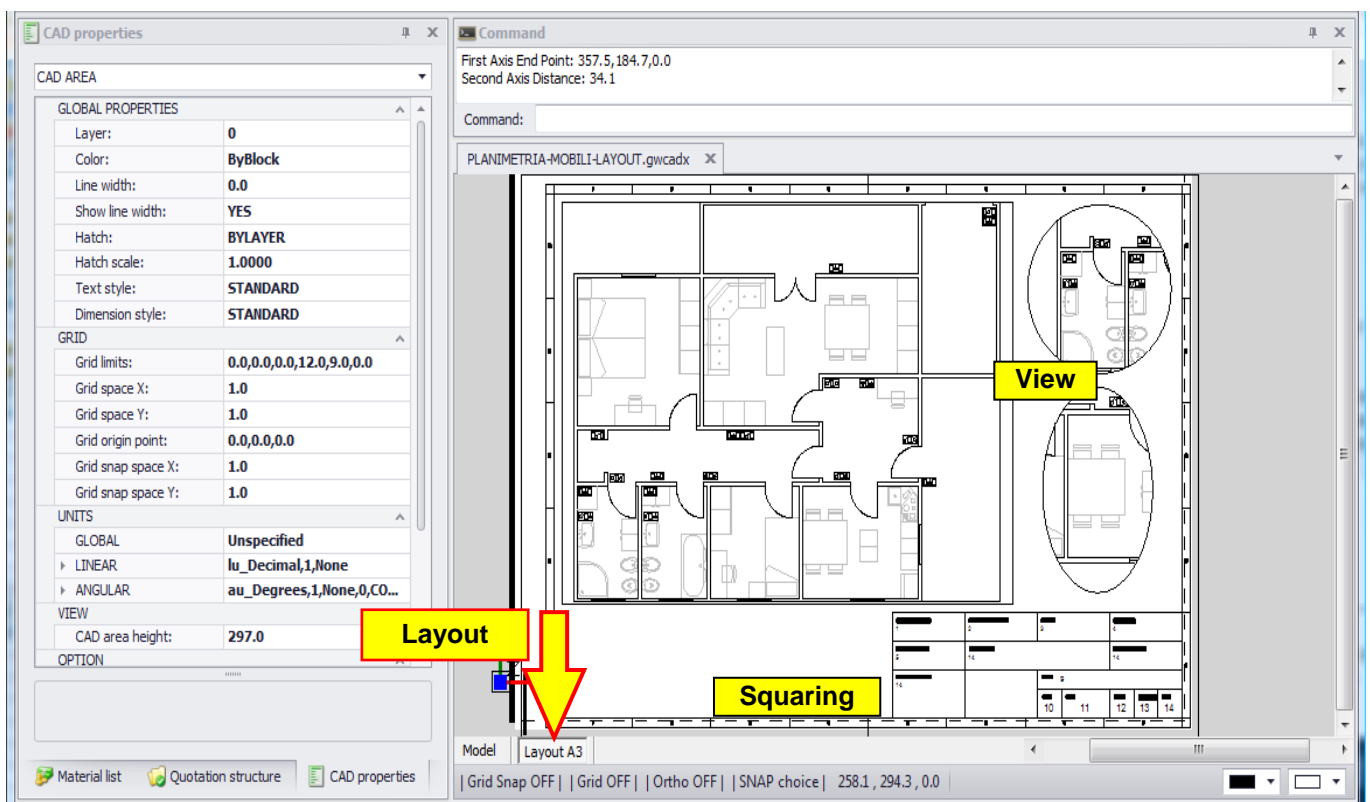
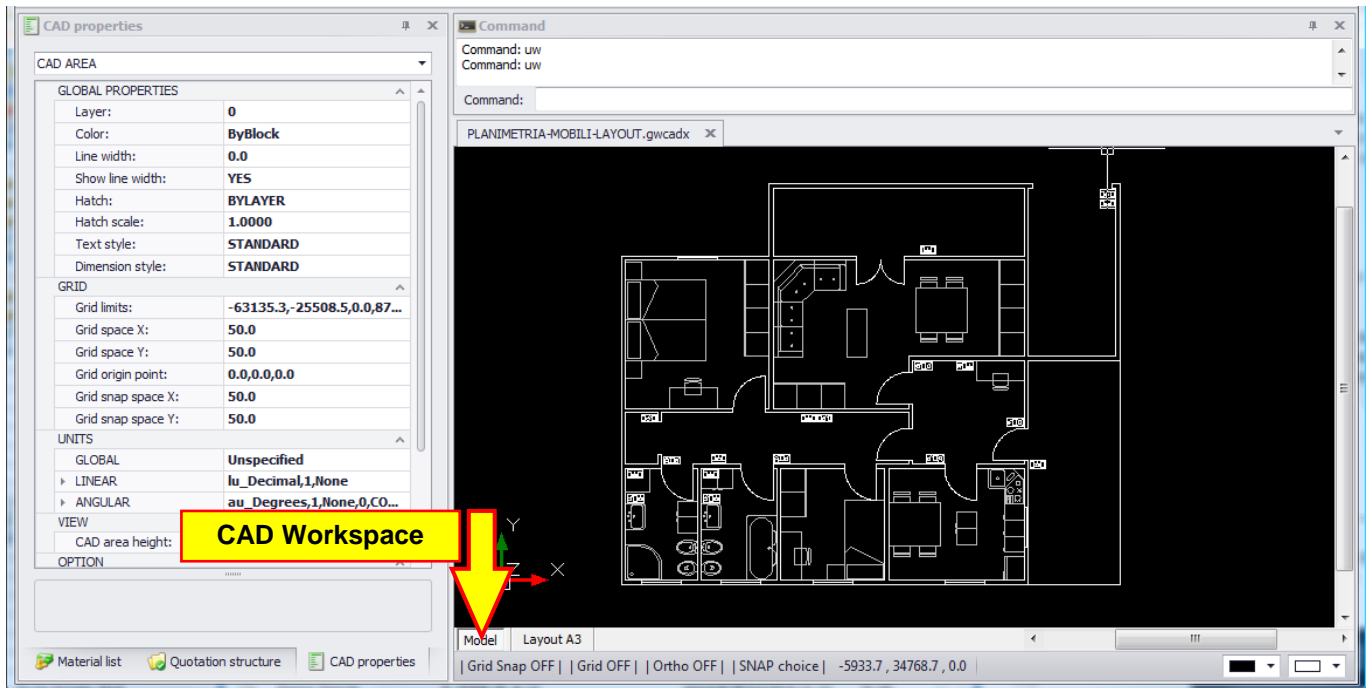
Pressing the button, the symbols X Y Z disappears:



1600 – Layout Menu

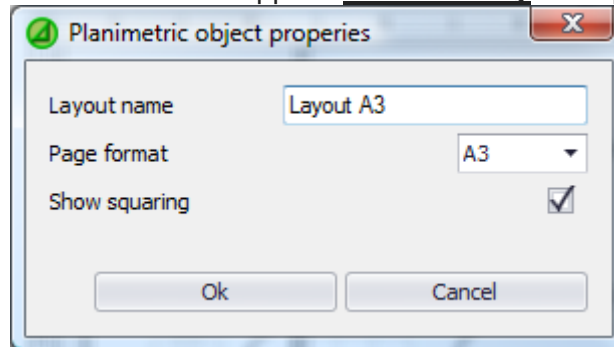


The layout is a particular section as the CAD workspace where you can enter a squaring and various views that show portions or all of the contents of the project:



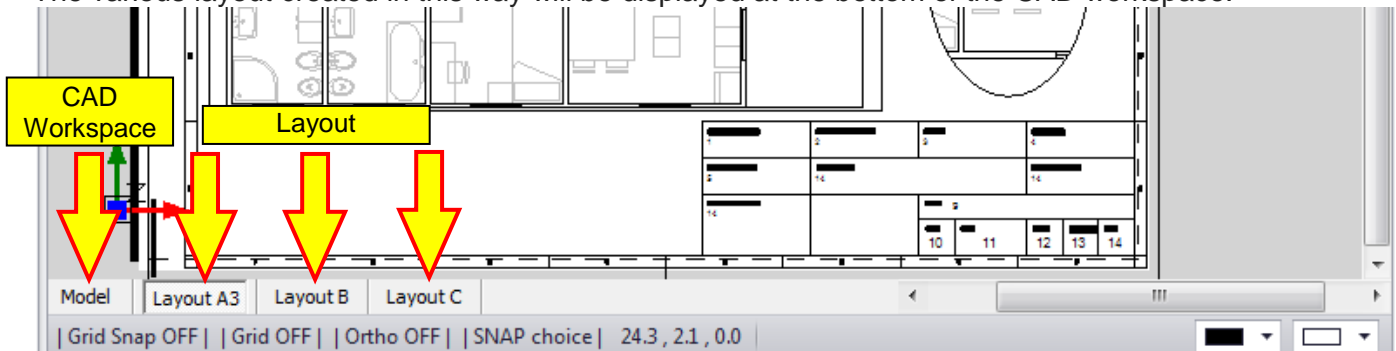
1601 - Add layout

With this button is possible to create a new layout in the current project by choosing: the name for the layout and the paper format on which it will be applied **automatically** the squaring:



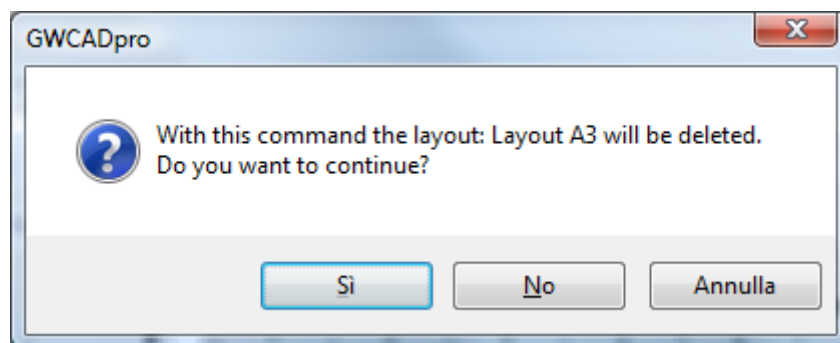
By the flag "Show squaring" is possible to insert a squaring with its cartouche or a simple black rectangle that identifies the area of the sheet.

The various layout created in this way will be displayed at the bottom of the CAD workspace:

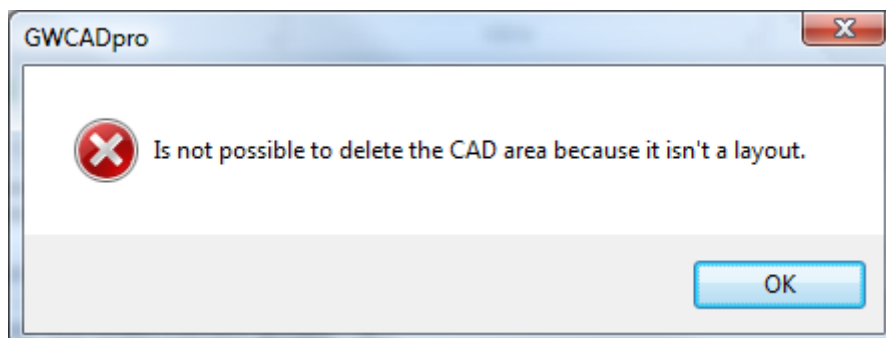


1602 - Delete layout

With this command is possible to delete a layout but it must be selected before pressing the button delete:

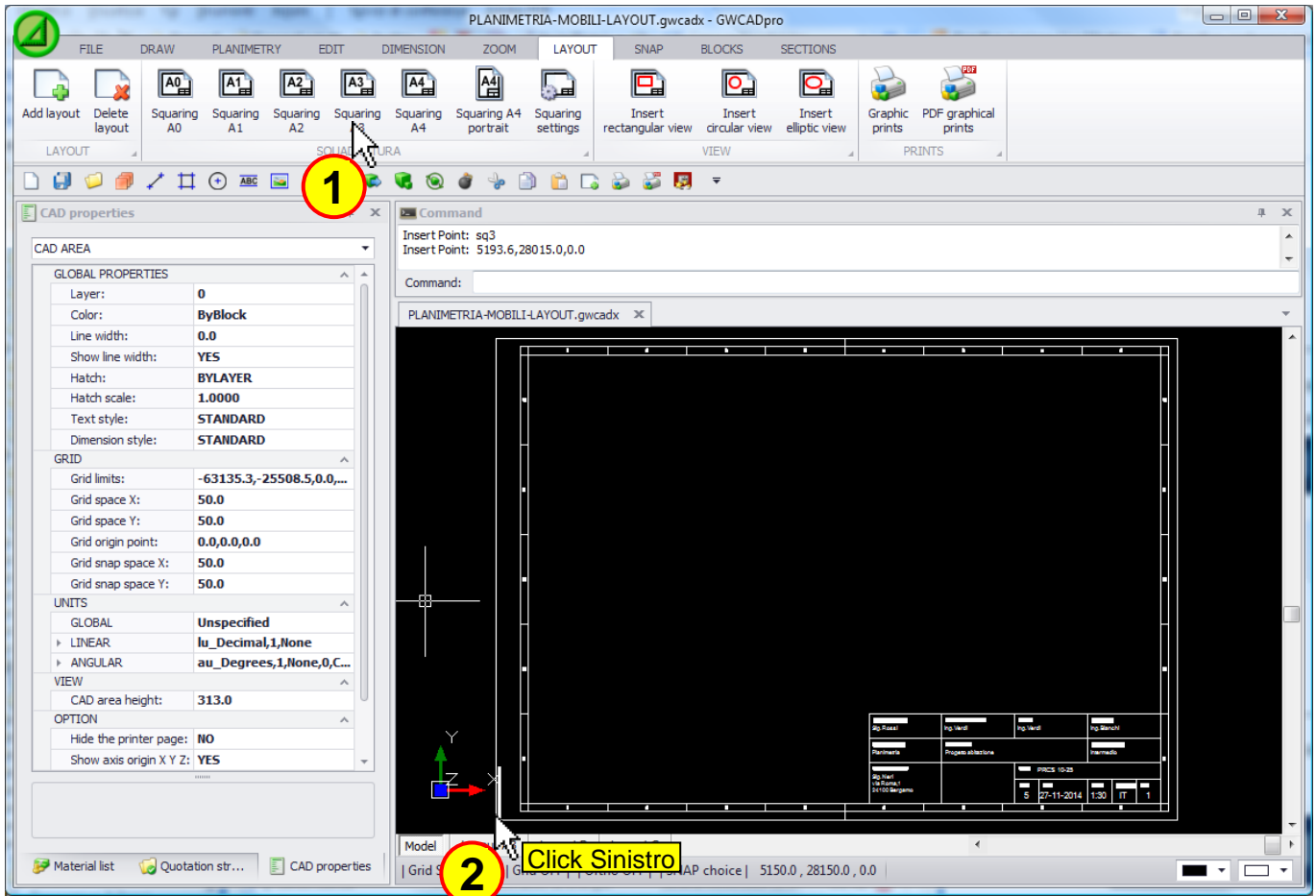


If you press this button while the CAD workspace is active, this message will appear:



1603 - Squaring A0 A1 A2 A3 A4 e A4 portrait

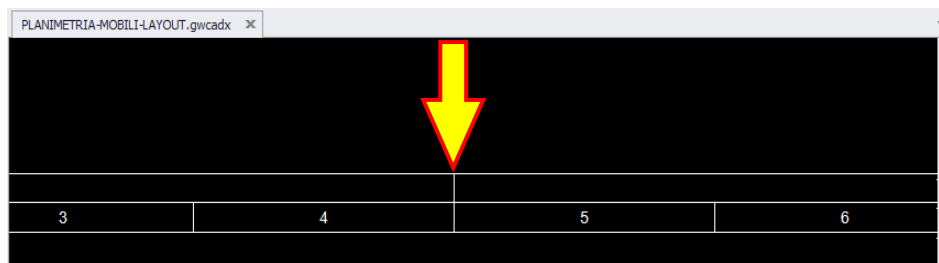
This command allows you to manually insert in the CAD workspace a squaring in various size: A0, A1, A2, A3, A4 and A4 portrait:



The squaring is composed by:

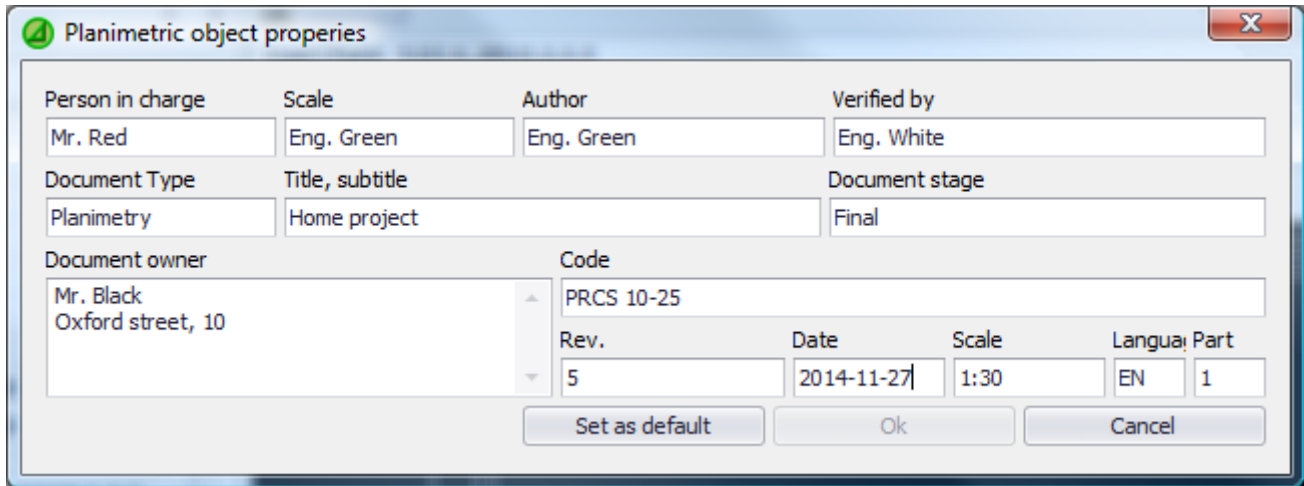
- A rectangle that identifies the real size of the paper
- A squaring with numbers and letters
- A data table in the lower right corner that shows the data of the project

Between the rectangle and the squaring are positioned the lines for the bending of the paper:



1604 - Squaring settings

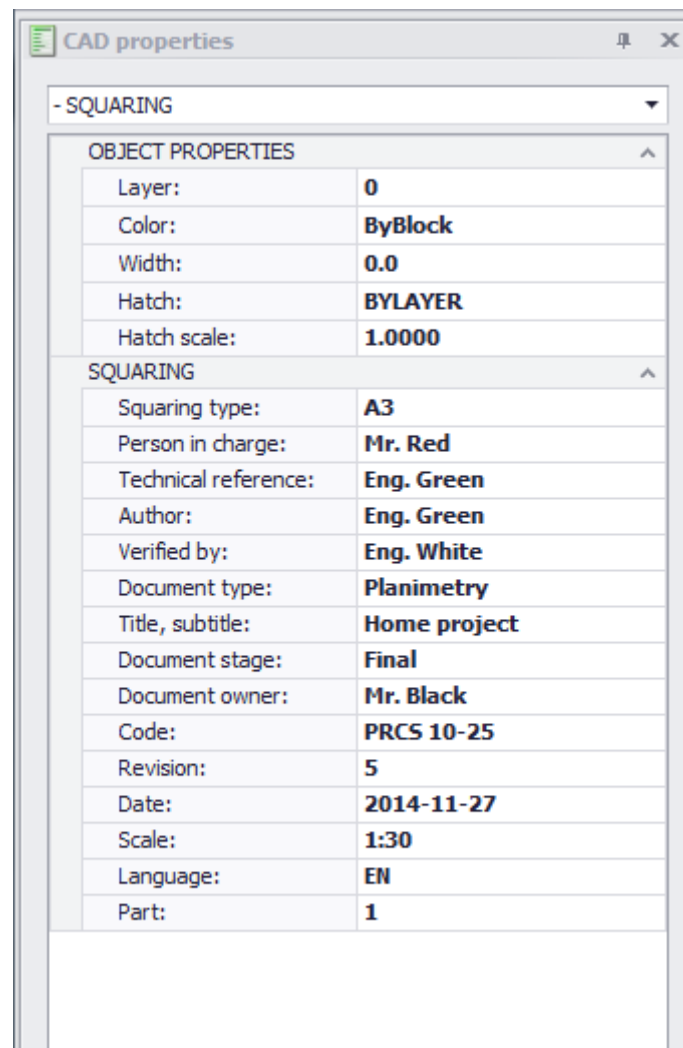
With this command you can set the default data shown in the lower right corner of squaring using the button "Set Default", these settings will be valid for all squaring that will be included in the project:



Person in charge	Scale	Author	Verified by
Mr. Red	Eng. Green	Eng. Green	Eng. White
Document Type	Title, subtitle		Document stage
Planimetry	Home project		Final
Document owner	Code		
Mr. Black Oxford street, 10	PRCS 10-25		
	Rev.	Date	Scale
	5	2014-11-27	1:30
			Language
			EN
			Part
			1

Set as default Ok Cancel

This window also allows you to change the data for a squaring currently selected in the CAD workspace, the same information are also displayed and editable in the CAD properties section:



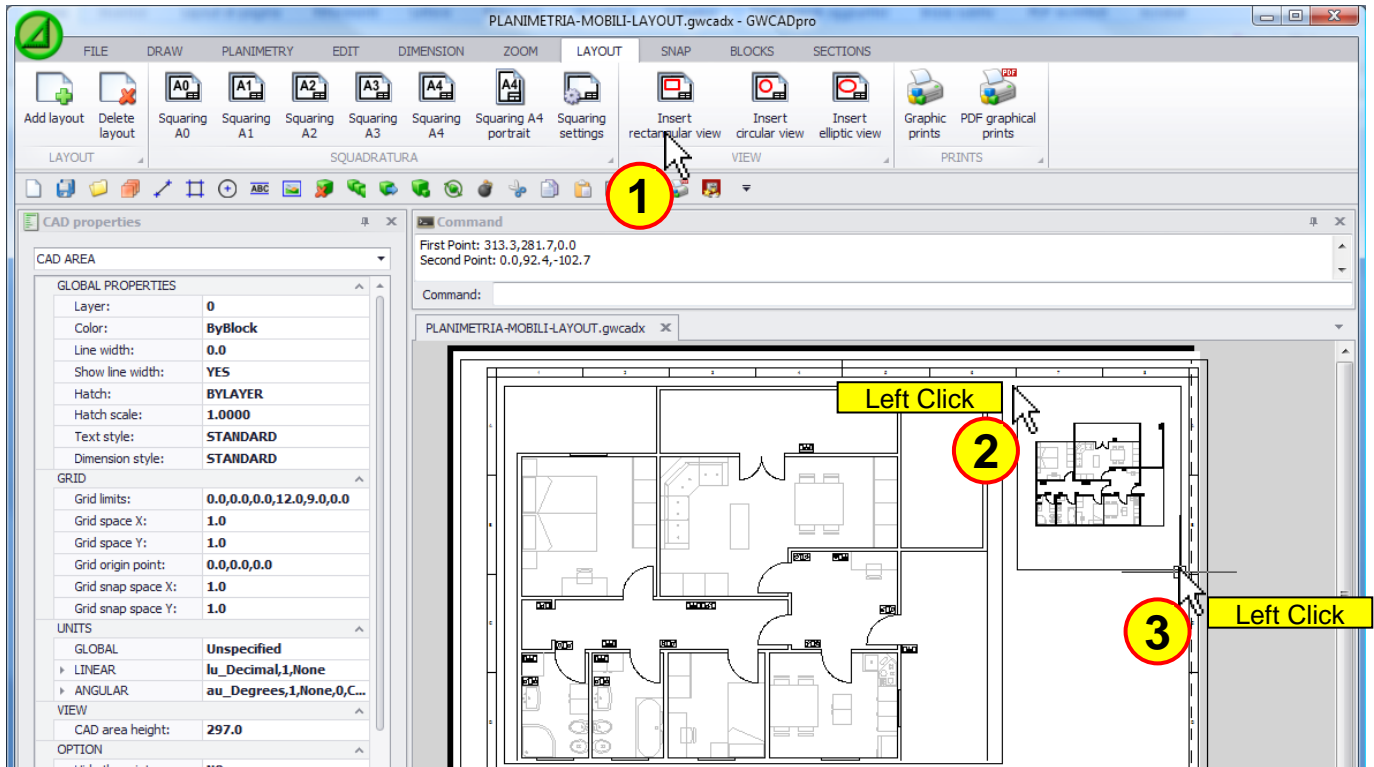
OBJECT PROPERTIES	
Layer:	0
Color:	ByBlock
Width:	0.0
Hatch:	BYLAYER
Hatch scale:	1.0000

SQUARING	
Squaring type:	A3
Person in charge:	Mr. Red
Technical reference:	Eng. Green
Author:	Eng. Green
Verified by:	Eng. White
Document type:	Planimetry
Title, subtitle:	Home project
Document stage:	Final
Document owner:	Mr. Black
Code:	PRCS 10-25
Revision:	5
Date:	2014-11-27
Scale:	1:30
Language:	EN
Part:	1

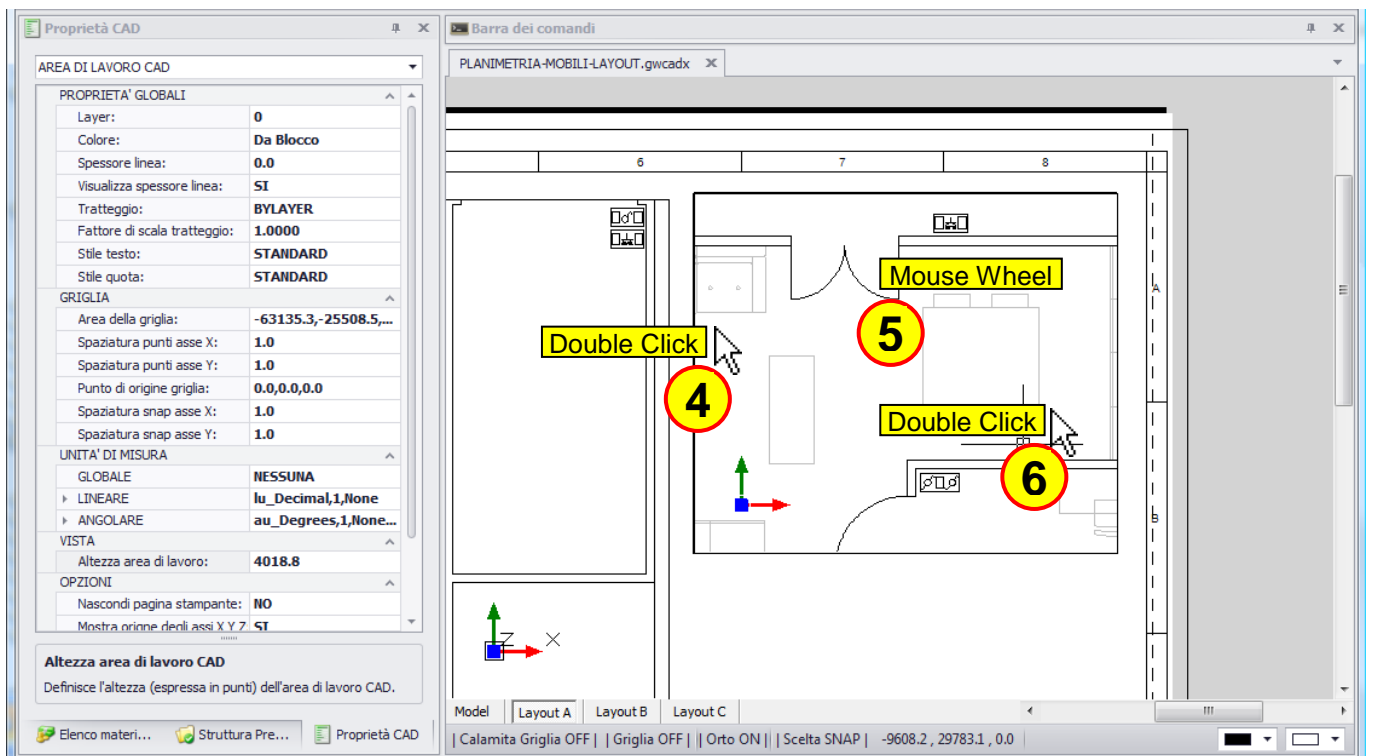
1605 - Insert rectangular view

When a layout is created, automatically a rectangular view will be inserted and it shows all the content of the CAD Workspace.

To insert another rectangular view is necessary to click on the button "Insert rectangular view" and define the size of the view by the mouse:

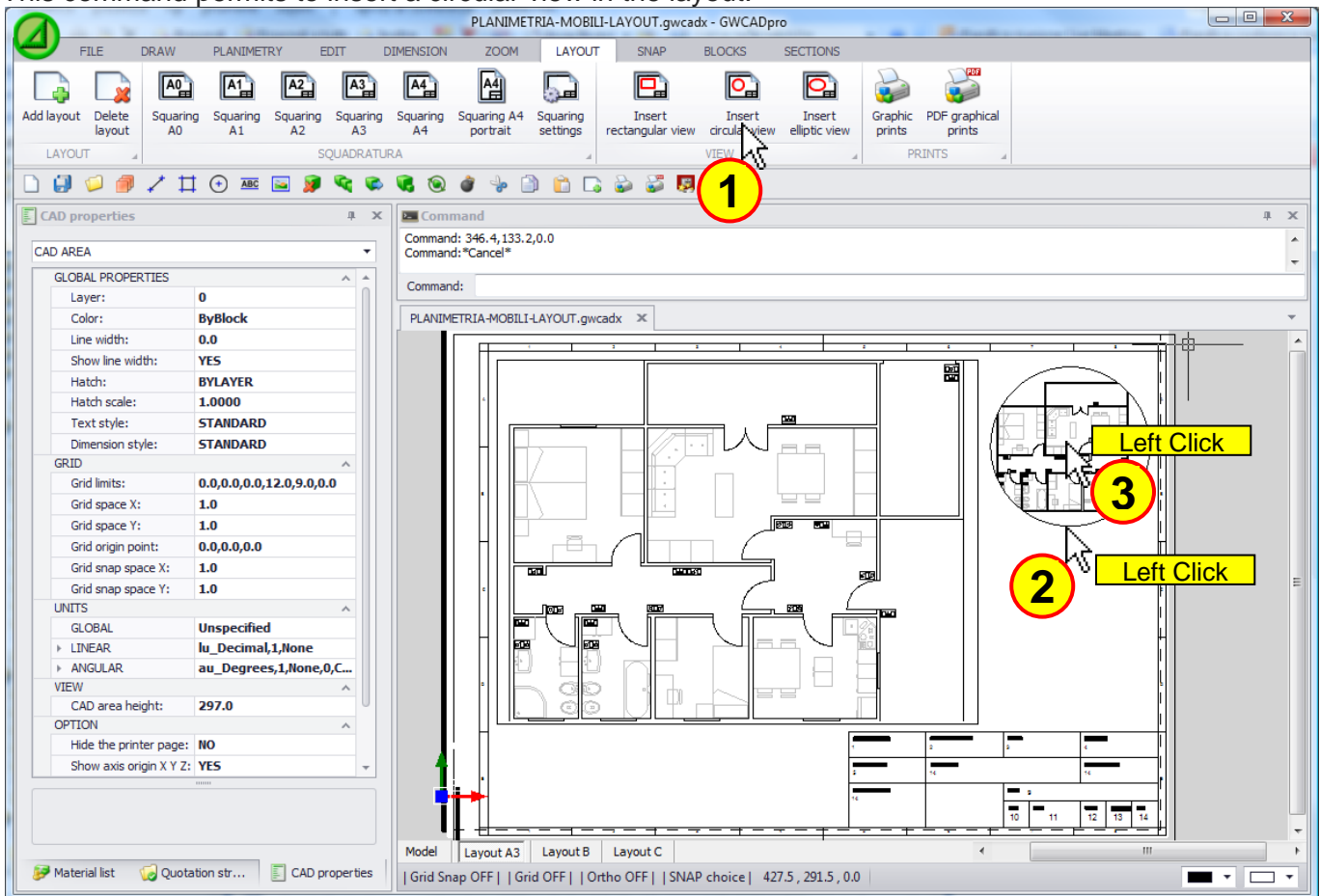


Also in the new view inserted will be shown the contents of the CAD workspace that can be moved or zoomed in this way: double click on the view, zoom or move the design with the mouse then double click again to exit from the view:

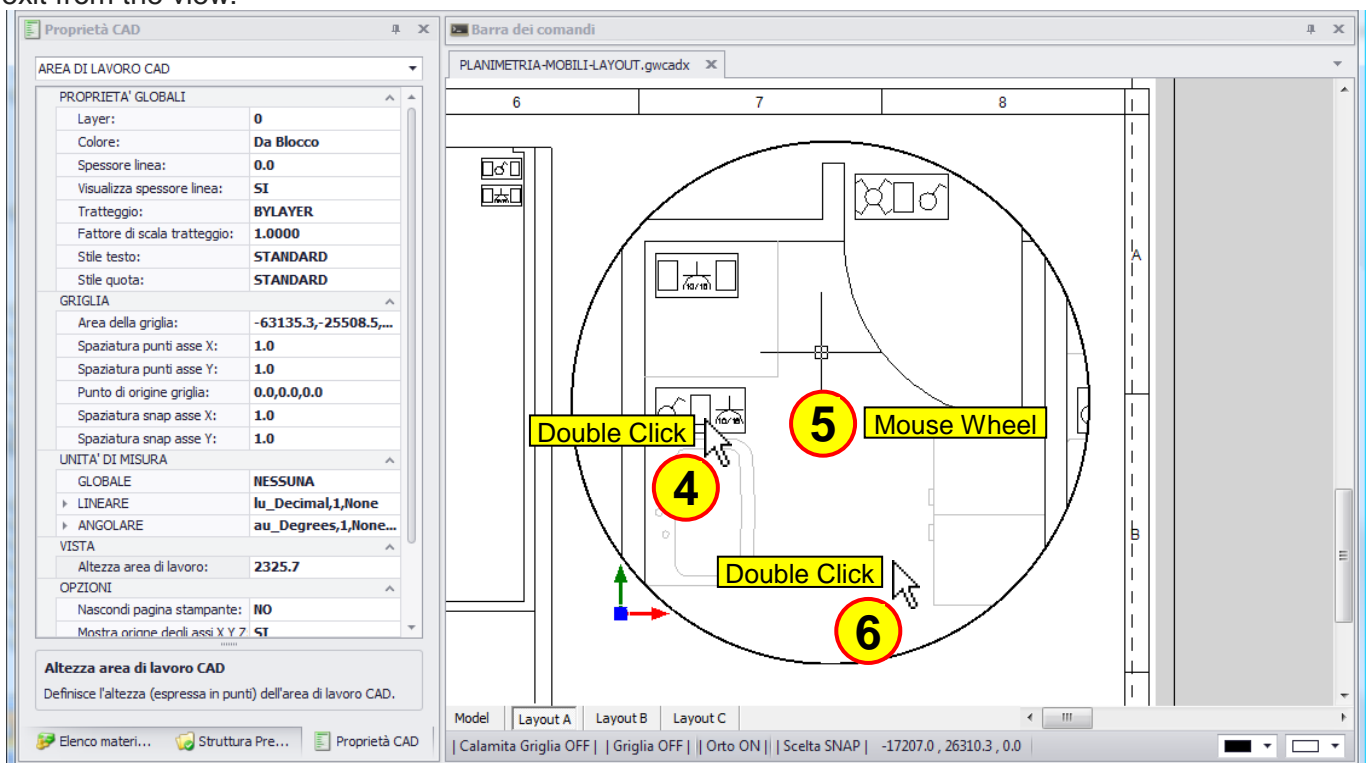


1606 - Insert circular view

This command permits to insert a circular view in the layout:

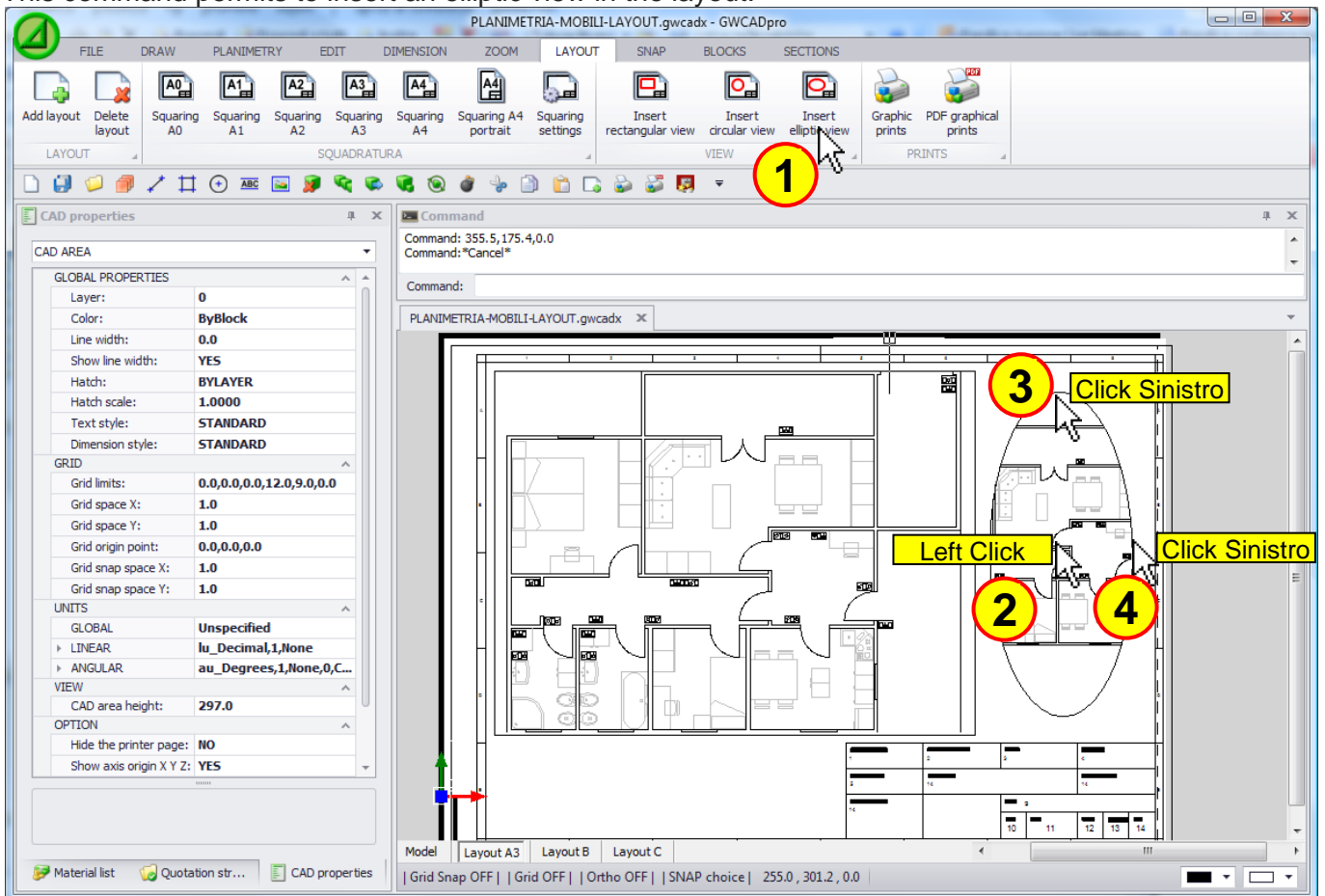


The view inserted will be shown the contents of the CAD workspace that can be moved or zoomed in this way: double click on the view, zoom or move the design with the mouse and again double-click to exit from the view:

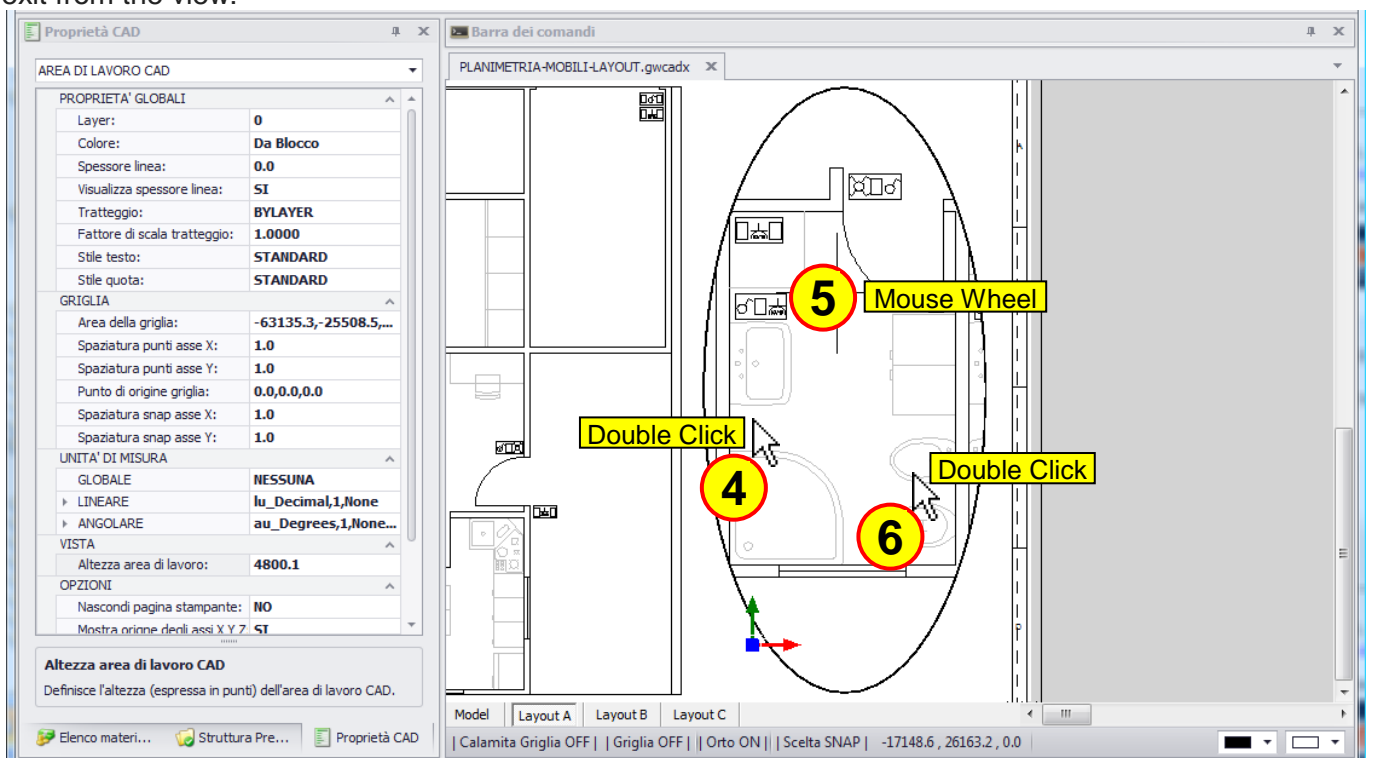


1607 - Insert elliptical view

This command permits to insert an elliptical view in the layout:

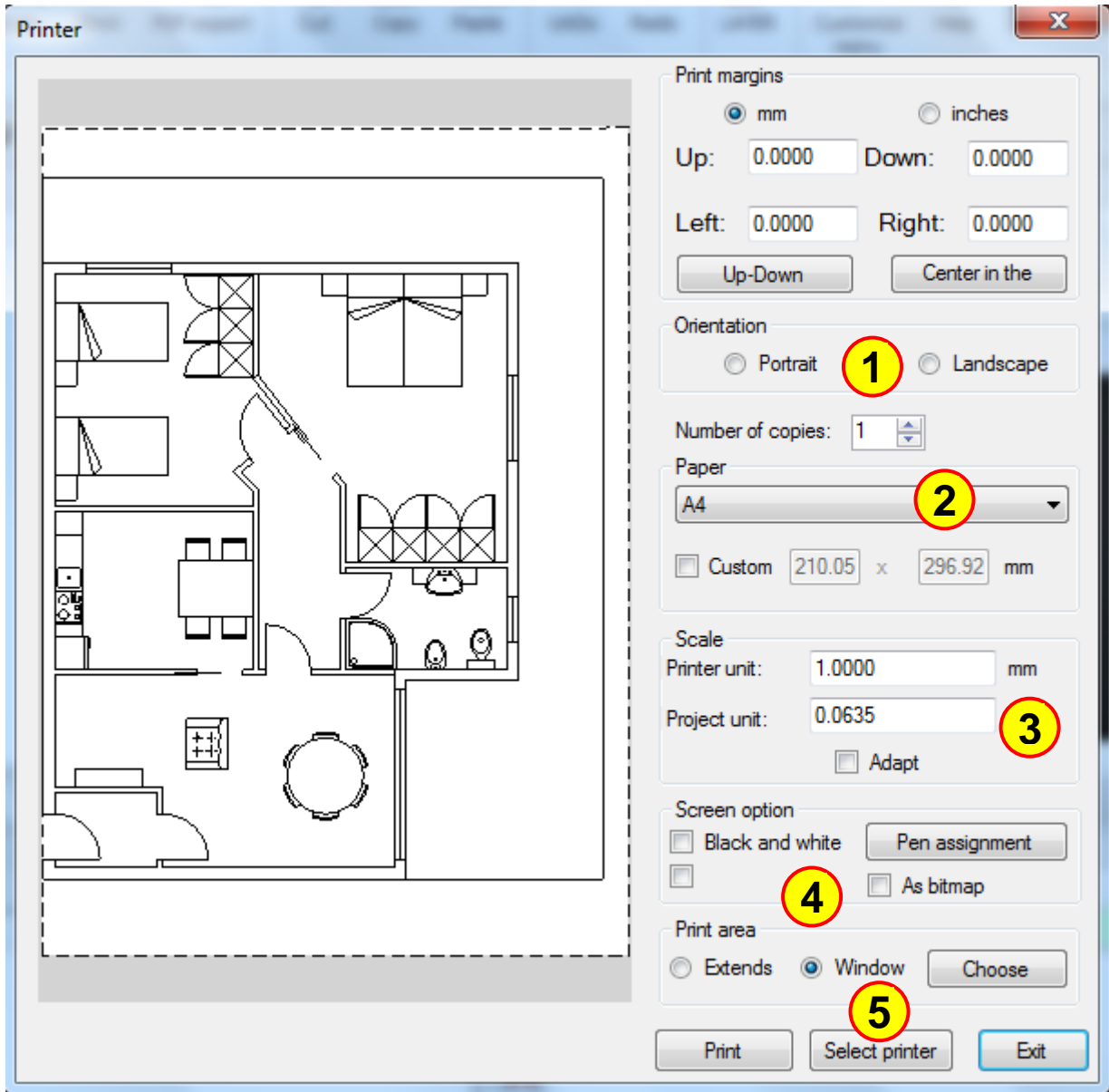


The view inserted will be shown the contents of the CAD workspace that can be moved or zoomed in this way: double click on the view, zoom or move the design with the mouse and again double-click to exit from the view:



1608 - Graphic prints

With this command you can open the print preview of the project, the program automatically optimizes the preview of the project to the printing sheet:



The print preview settings are:

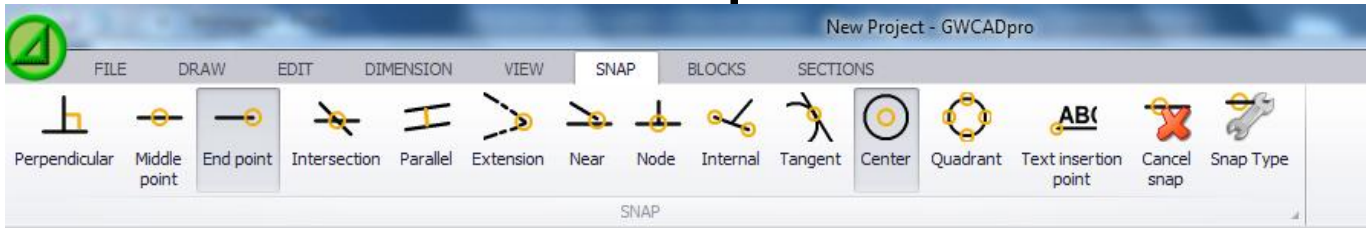
- 1) Portrait or Landscape orientation of the sheet
- 2) Sheet dimension
- 3) The print scale to eventually print with real size
- 4) Assign specific thicknesses based on the objects colors
- 5) Select the printer

1609 - PDF graphical prints

The window is the same of the print preview but clicking on the "Print" button a PDF document is created.



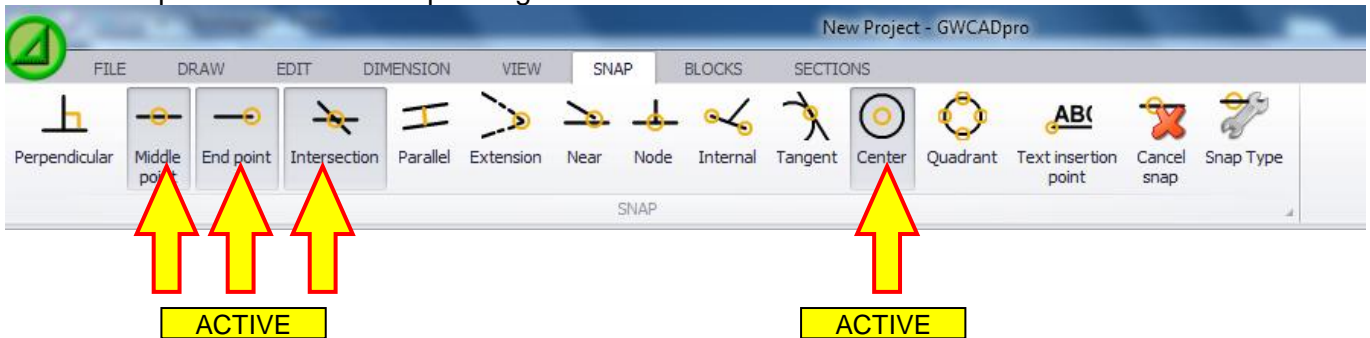
1700 – Snap Menu



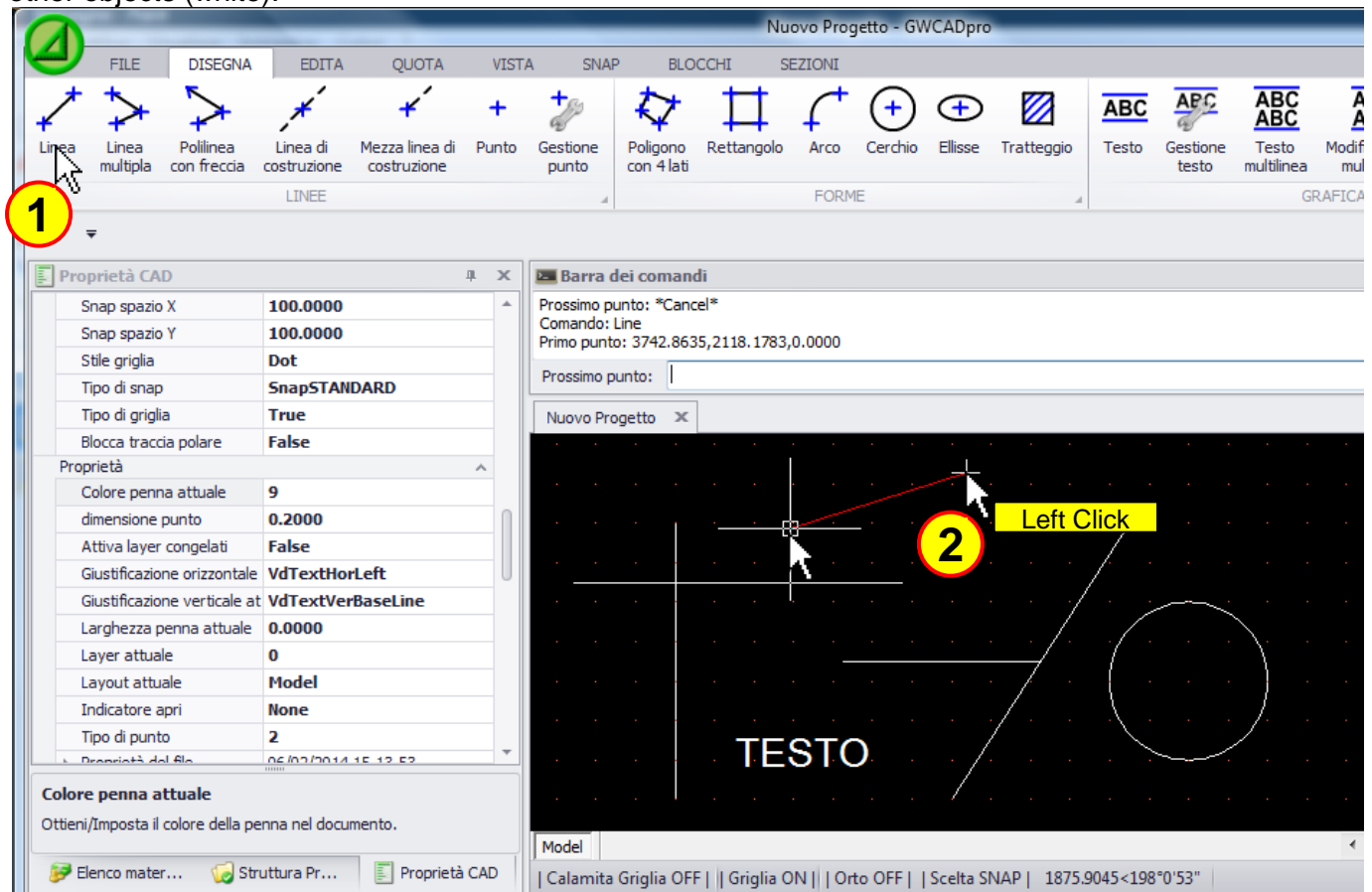
Snap are tools that facilitate the connection of a line in certain points of other objects in the drawing.

One or more snap can be selected or deselected simultaneously by acting directly in this menu.

When a snap is active the corresponding button in the menu is selected.



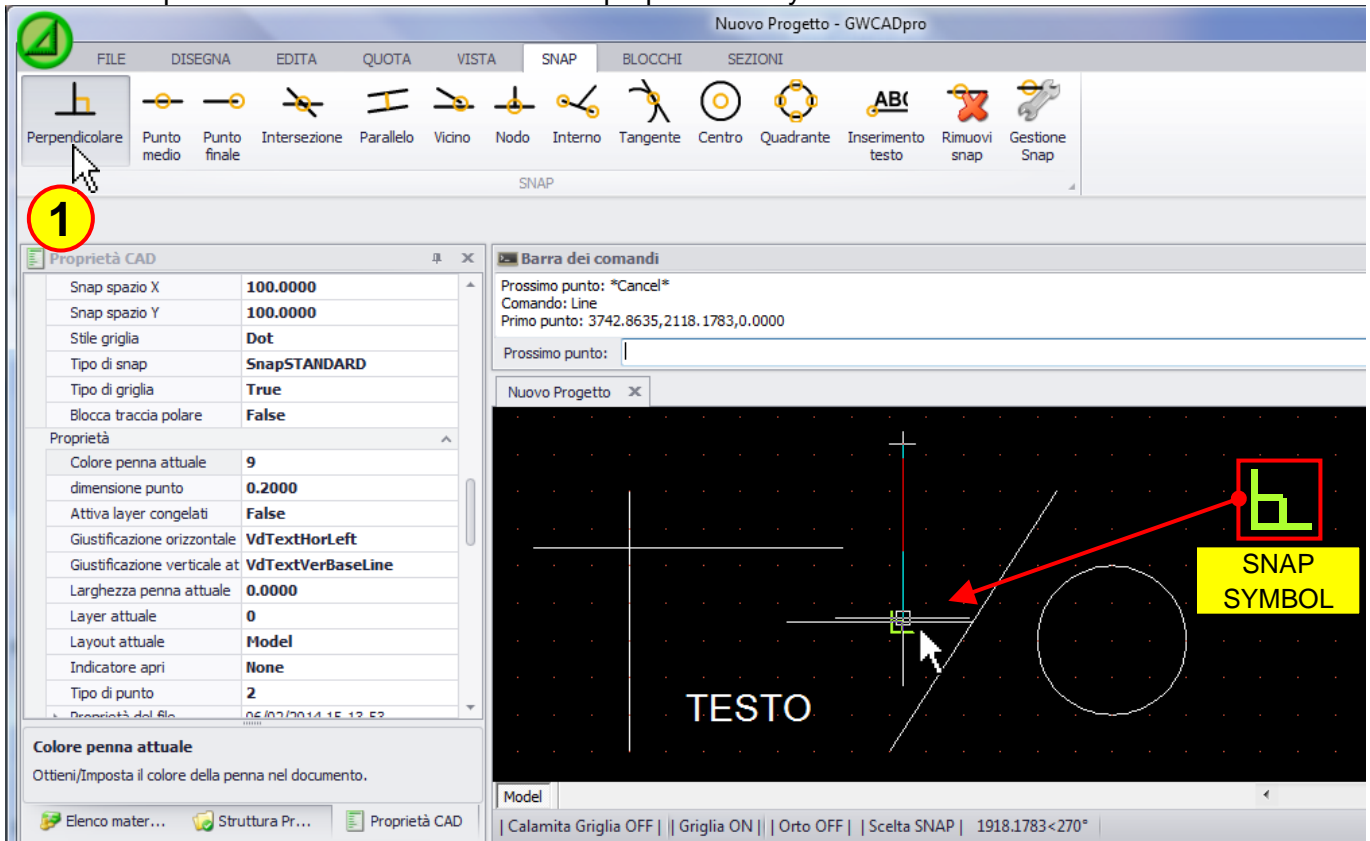
To understand how snaps work, you can draw a line (red) inside the “**CAD Workpasce**” that contains other objects (white):



The second point of the line will be connected to the other objects.

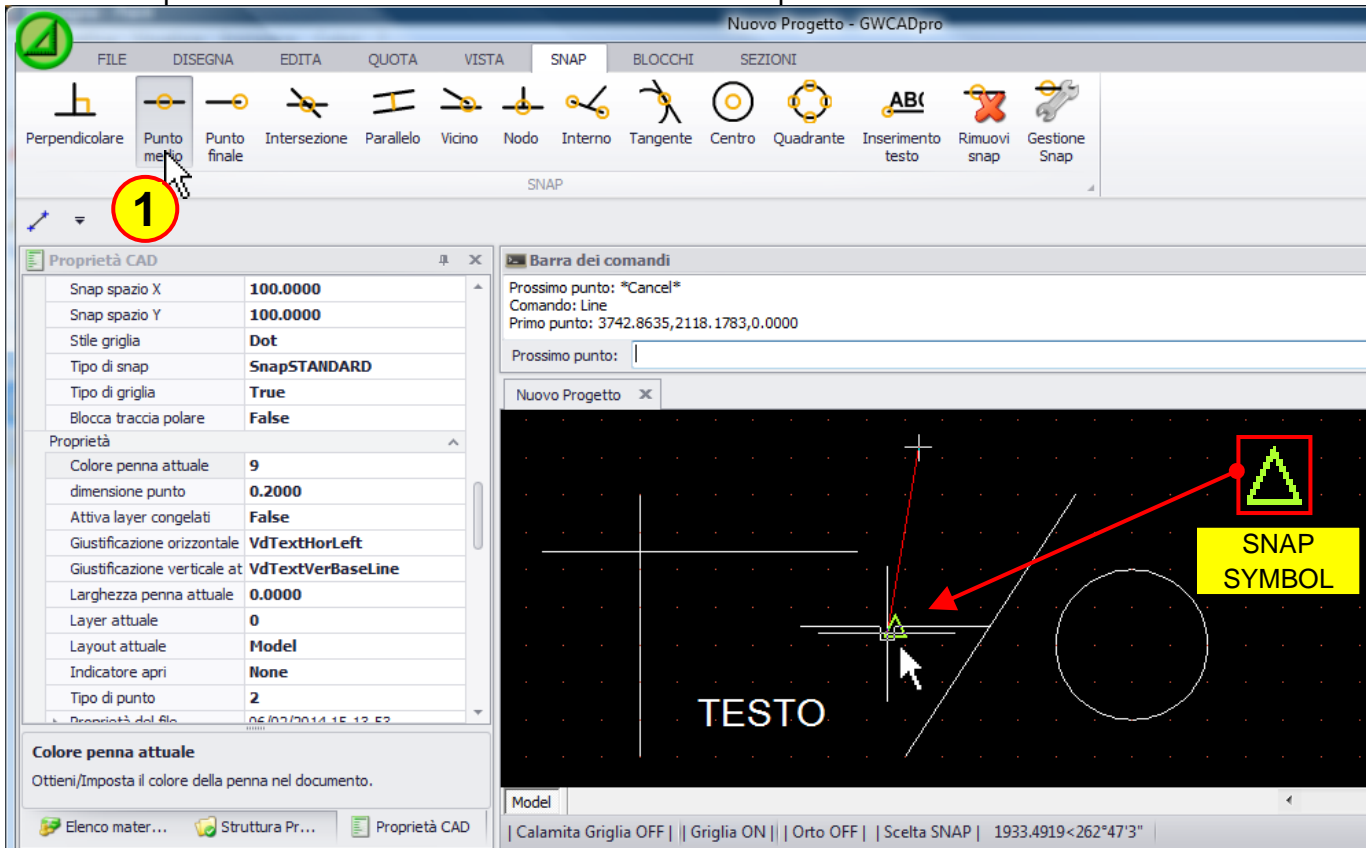
1701 - Perpendicular

The second point of the line will be connected perpendicularly to another line:



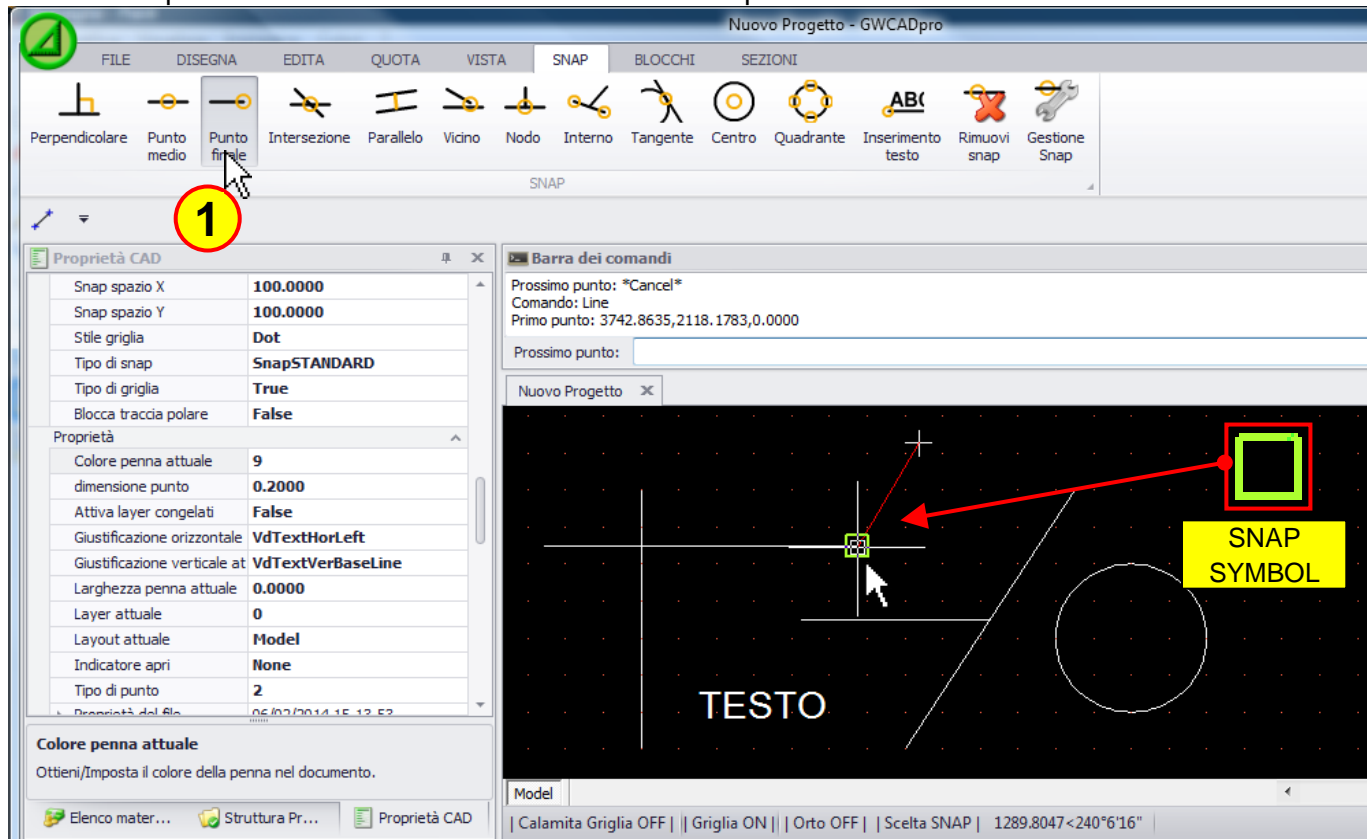
1702 - Middle point

The second point of the line will be connected in the middle point of another line:



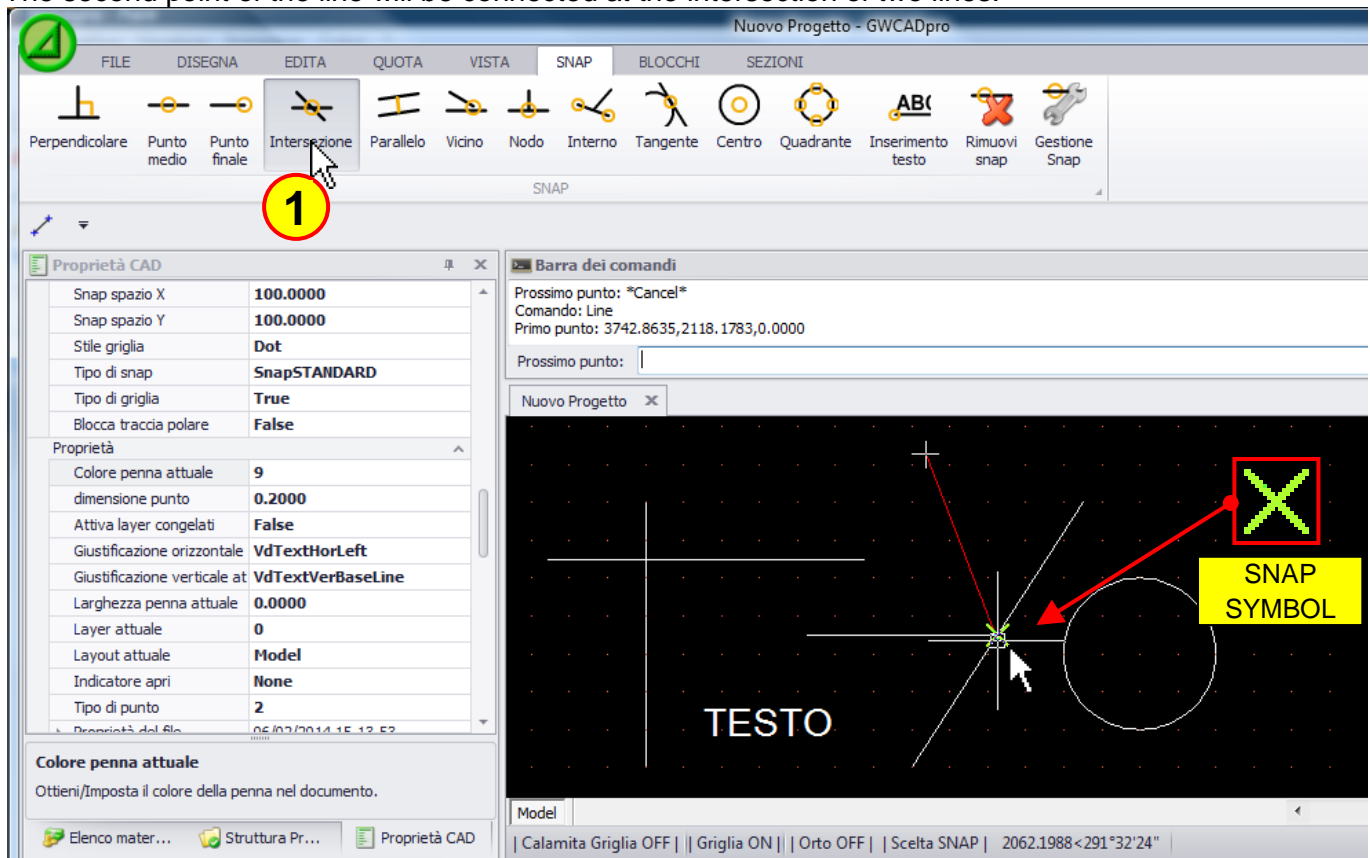
1703 - End point

The second point of the line will be connected at the end point of another line:



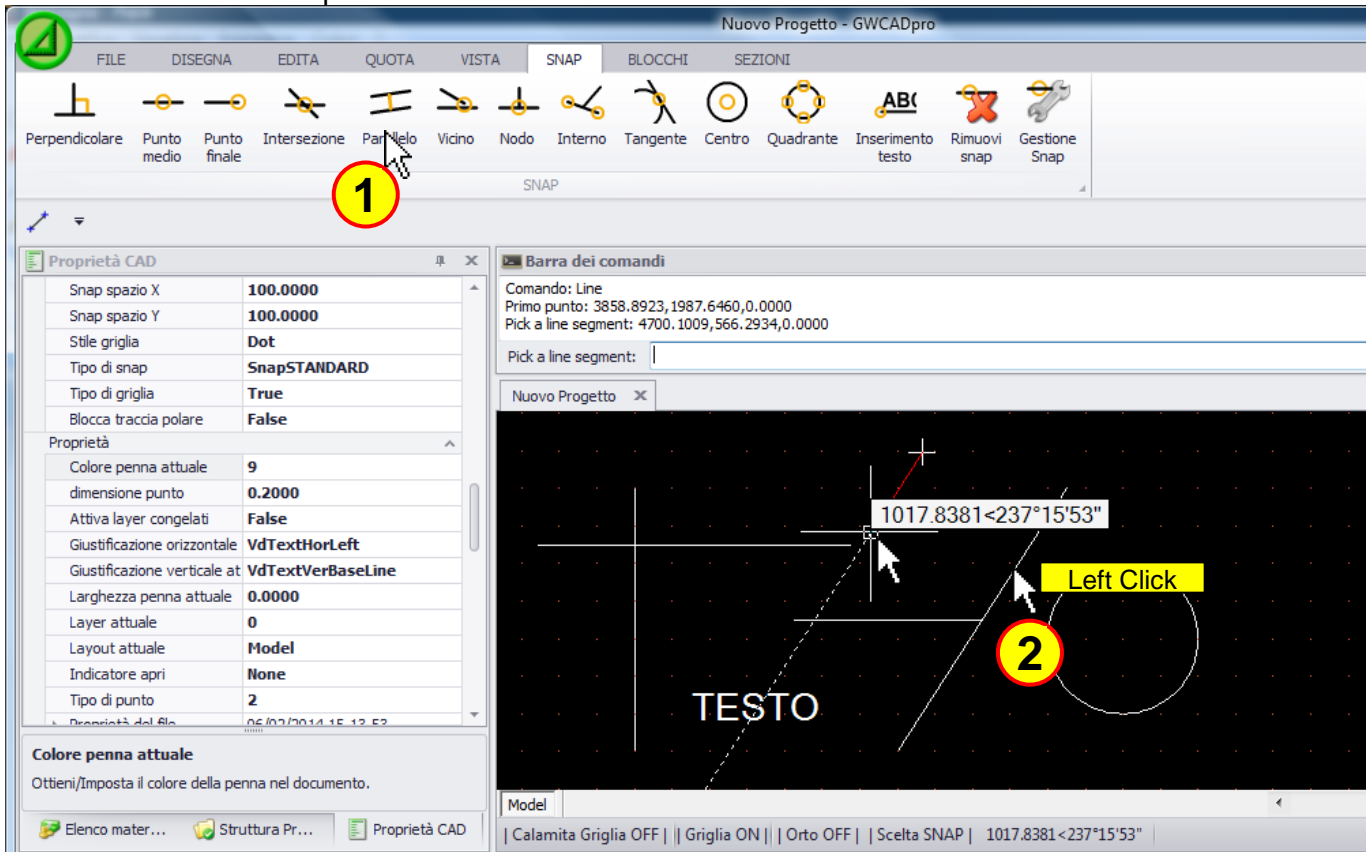
1704 - Intersection

The second point of the line will be connected at the intersection of two lines:



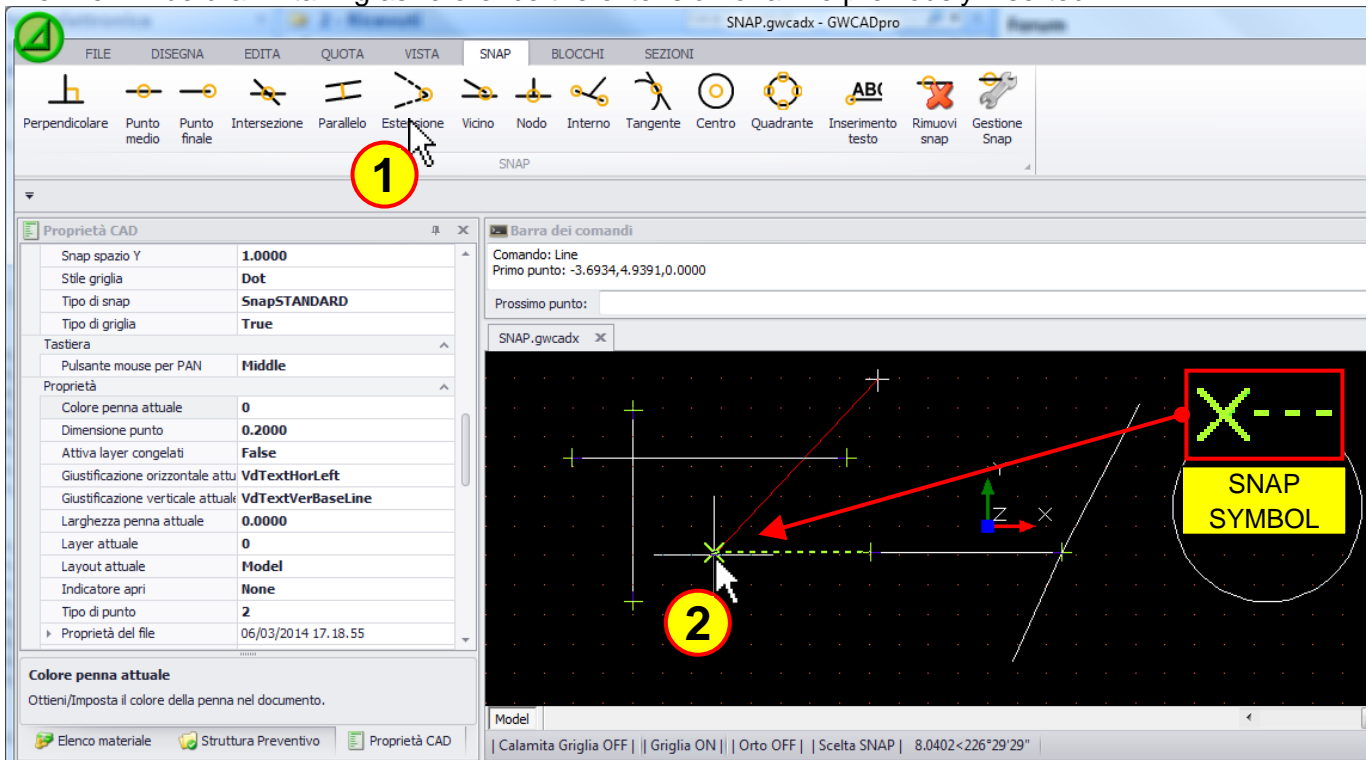
1705 - Parallel

The line will be drawn in parallel to another line:



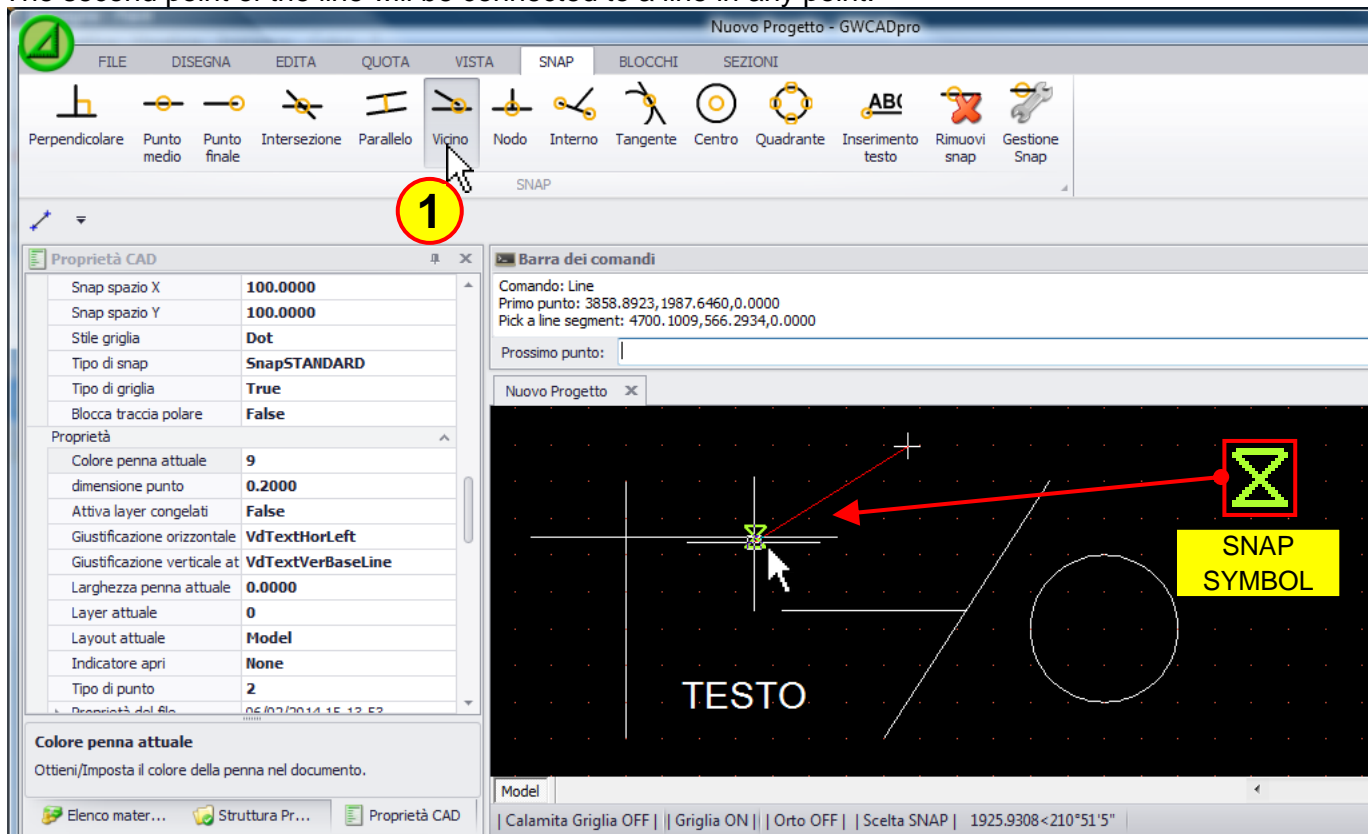
1706 - Extension

The line will be drawn taking as reference the extension of a line previously inserted:



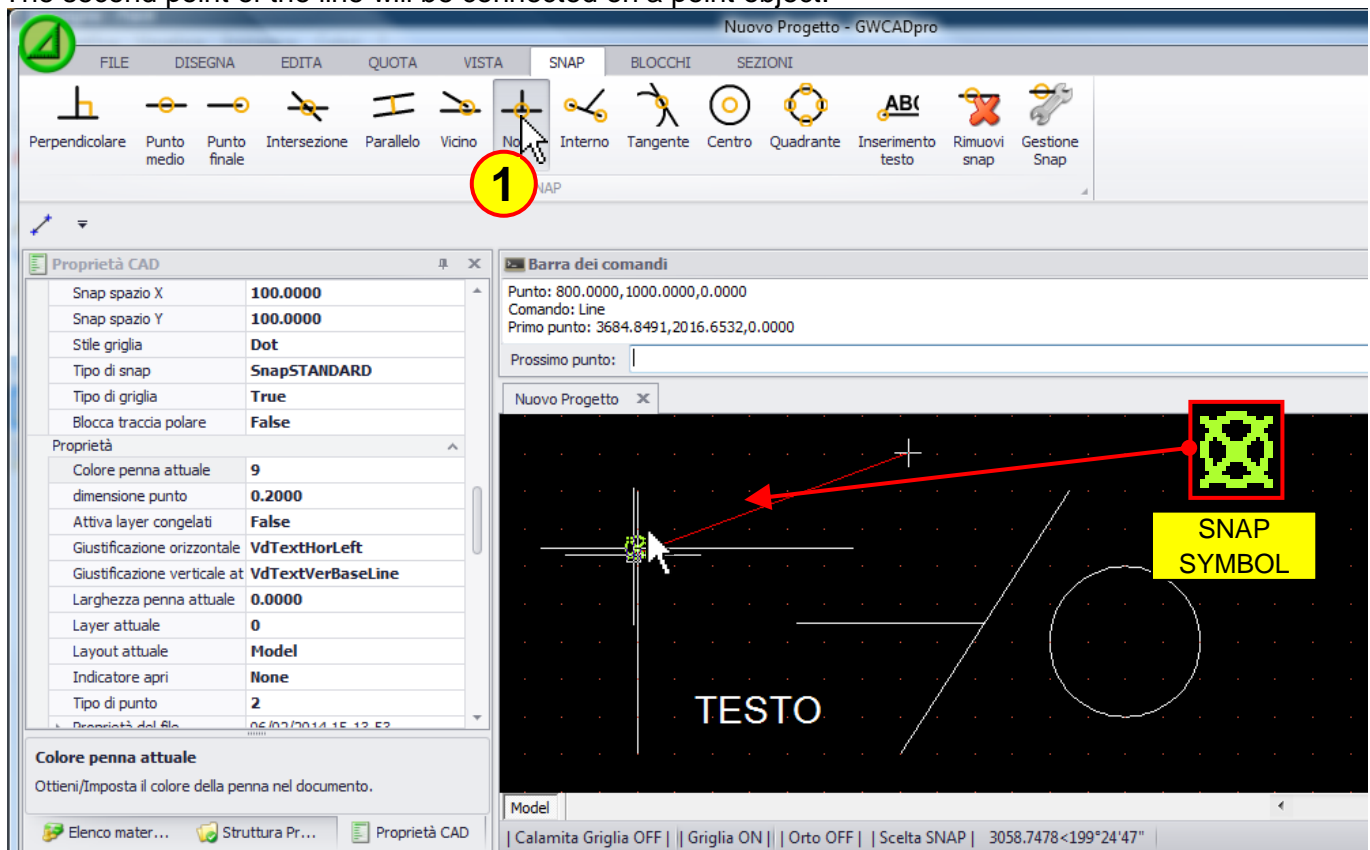
1707 - Near

The second point of the line will be connected to a line in any point:



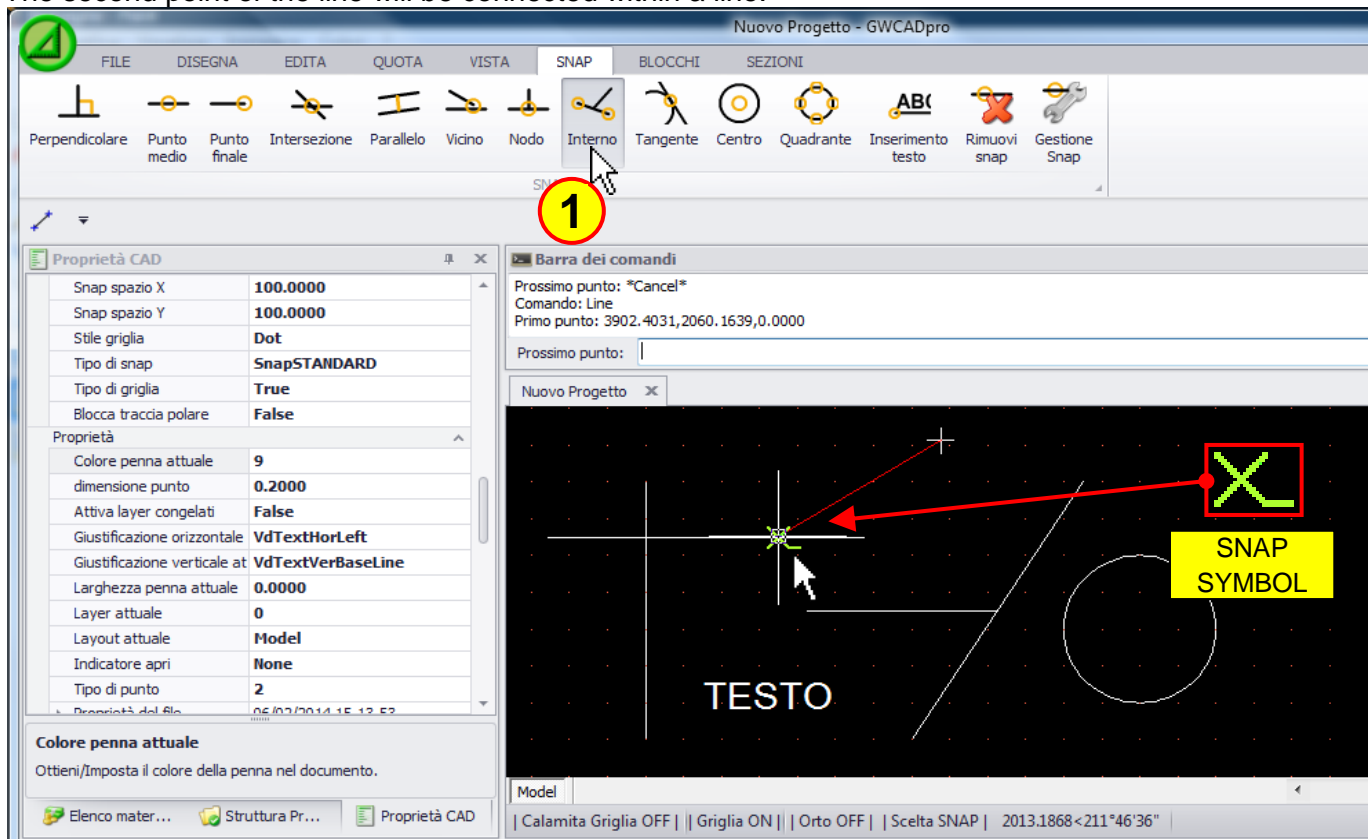
1708 - Node

The second point of the line will be connected on a point object:



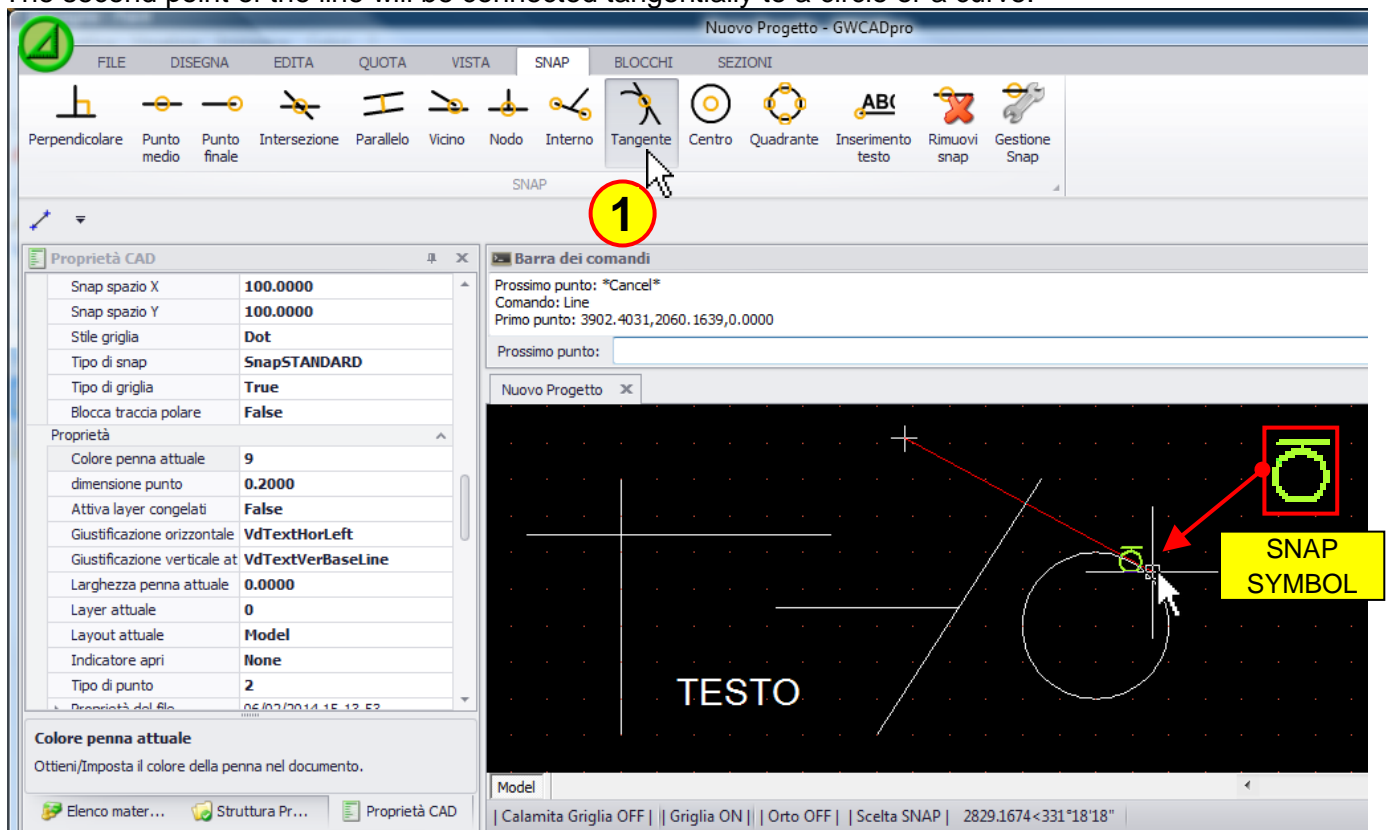
1709 - Internal

The second point of the line will be connected within a line:



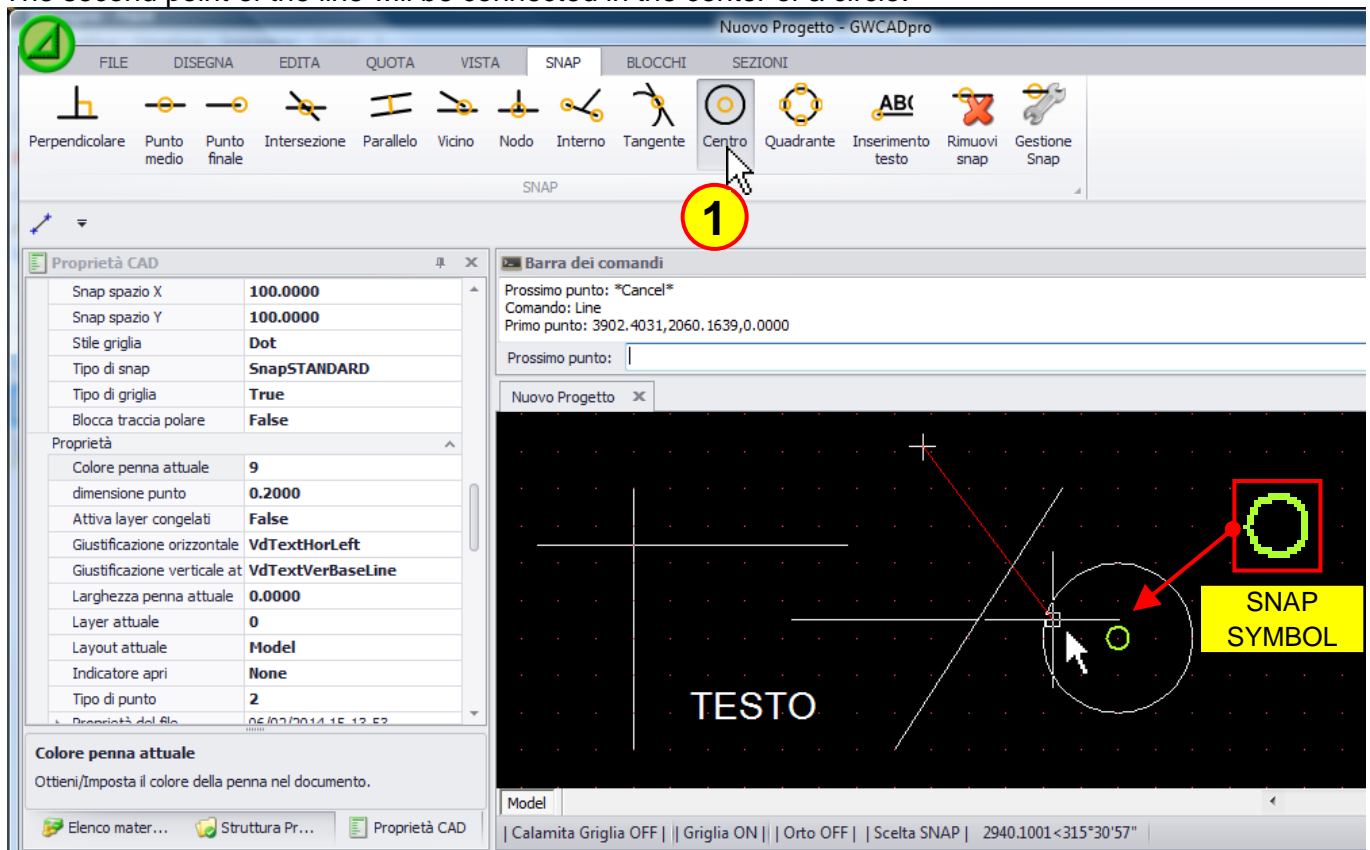
1710 - Tangent

The second point of the line will be connected tangentially to a circle or a curve:



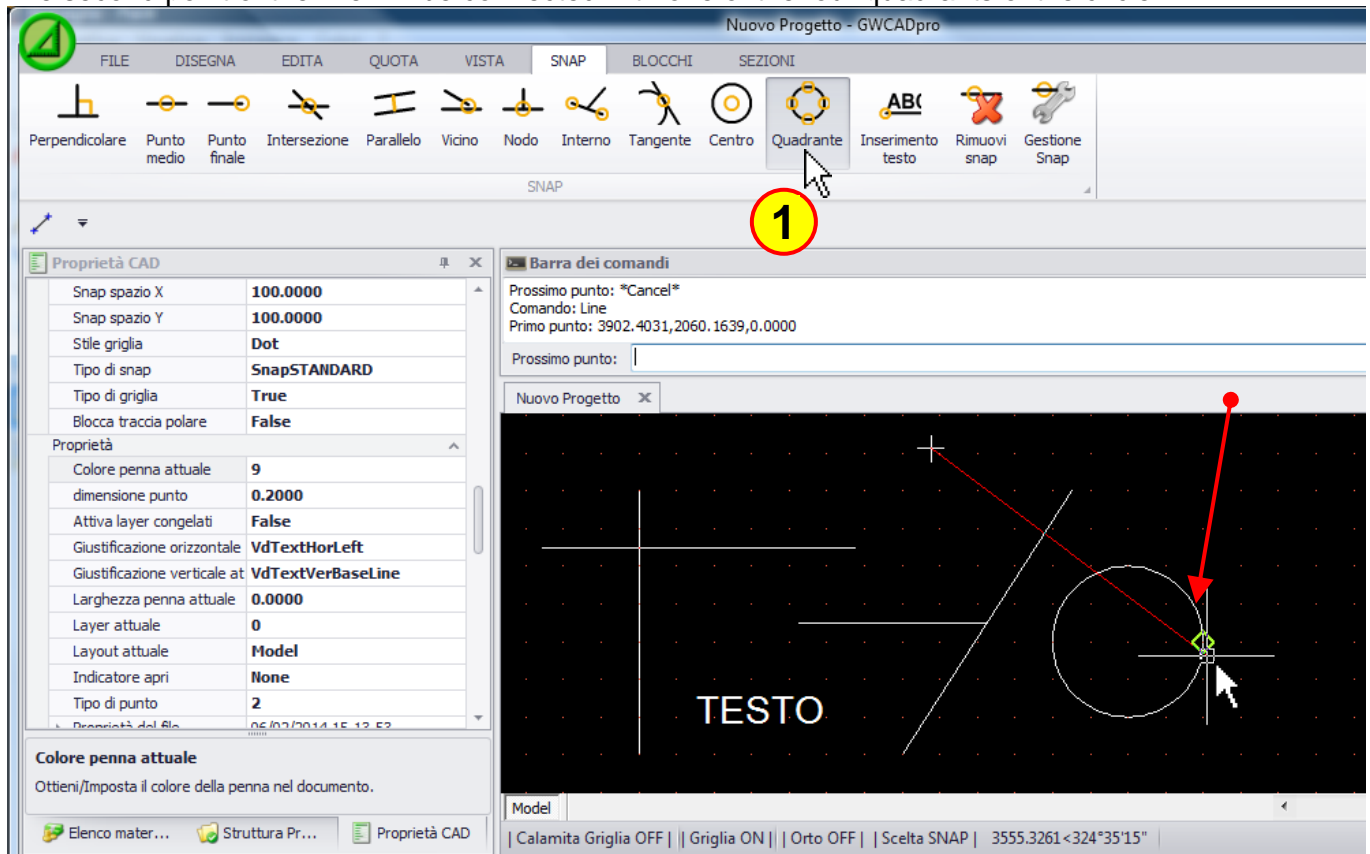
1711 - Center

The second point of the line will be connected in the center of a circle:



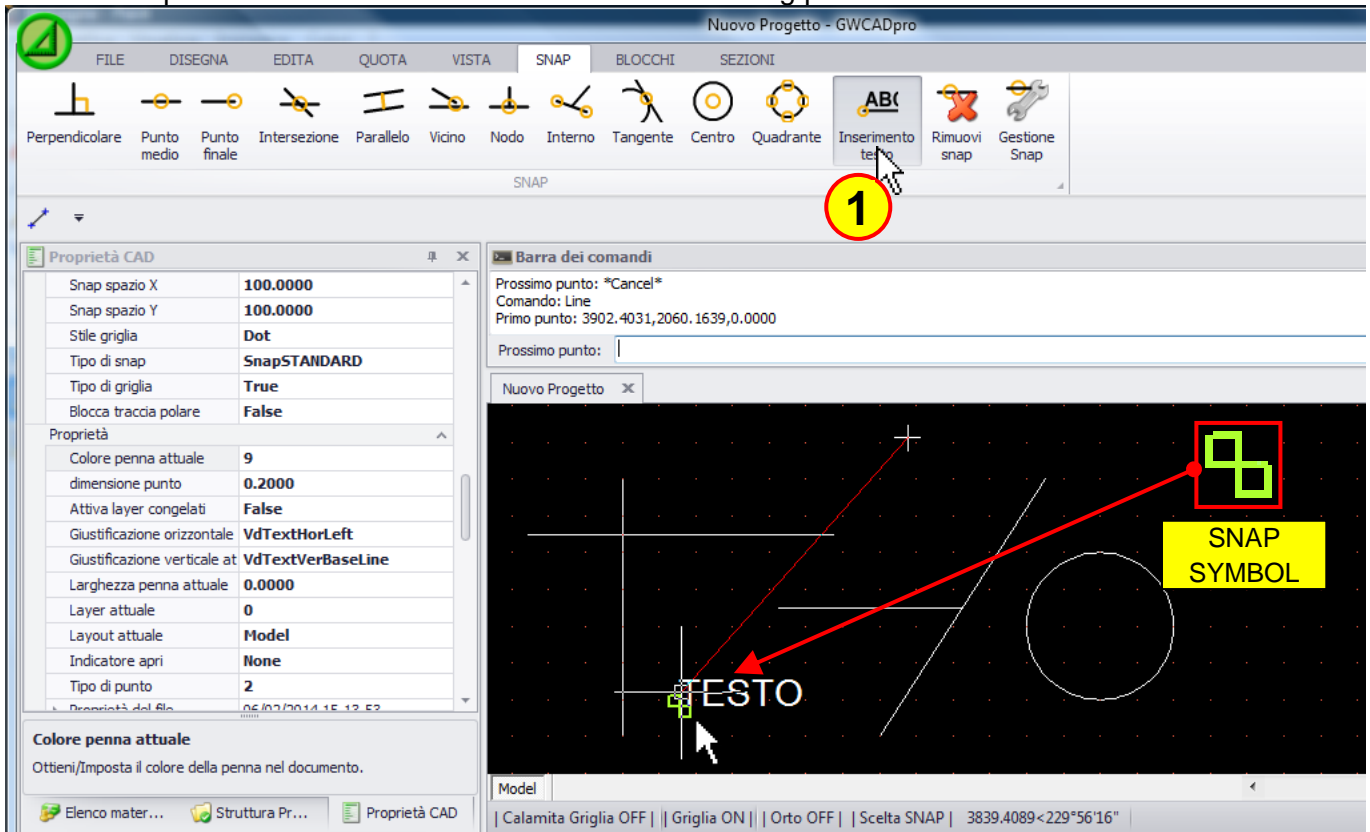
1712 - Quadrant

The second point of the line will be connected with one of the four quadrants of the circle:



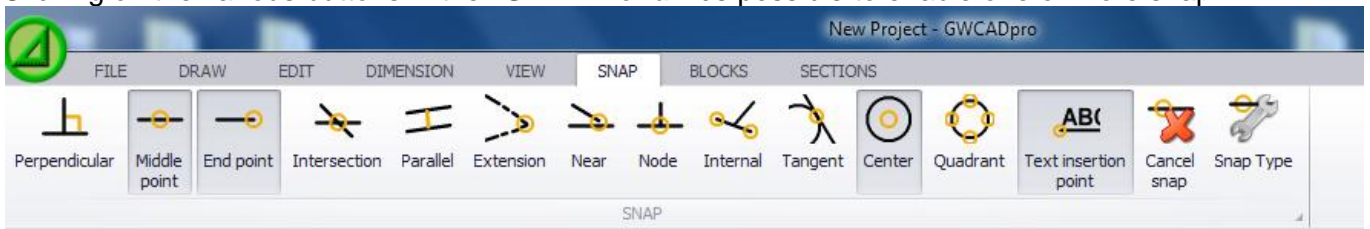
1713 - Text insertion point

The second point of the line will be connected to the inserting point of the text:

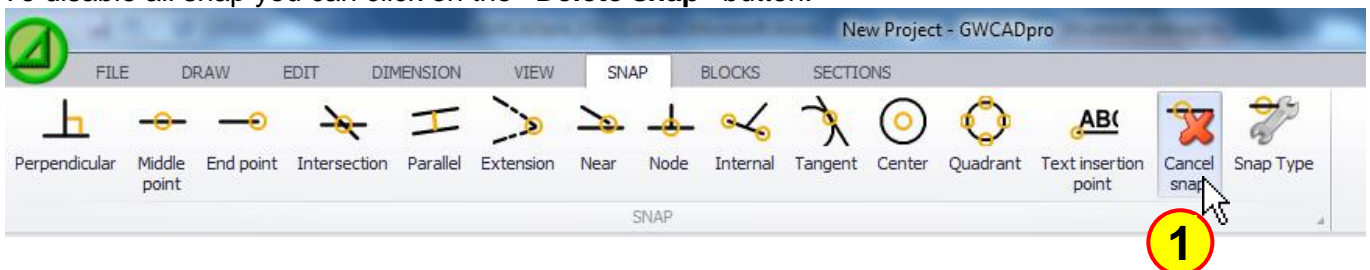


1714 - Delete snap

Clicking on the various buttons in the “SNAP Menu” it’s possible to enable one or more snap:



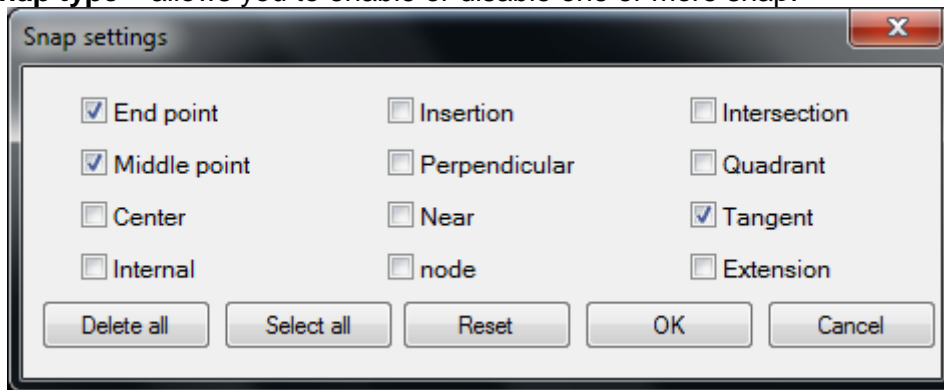
To disable all snap you can click on the “Delete snap” button:



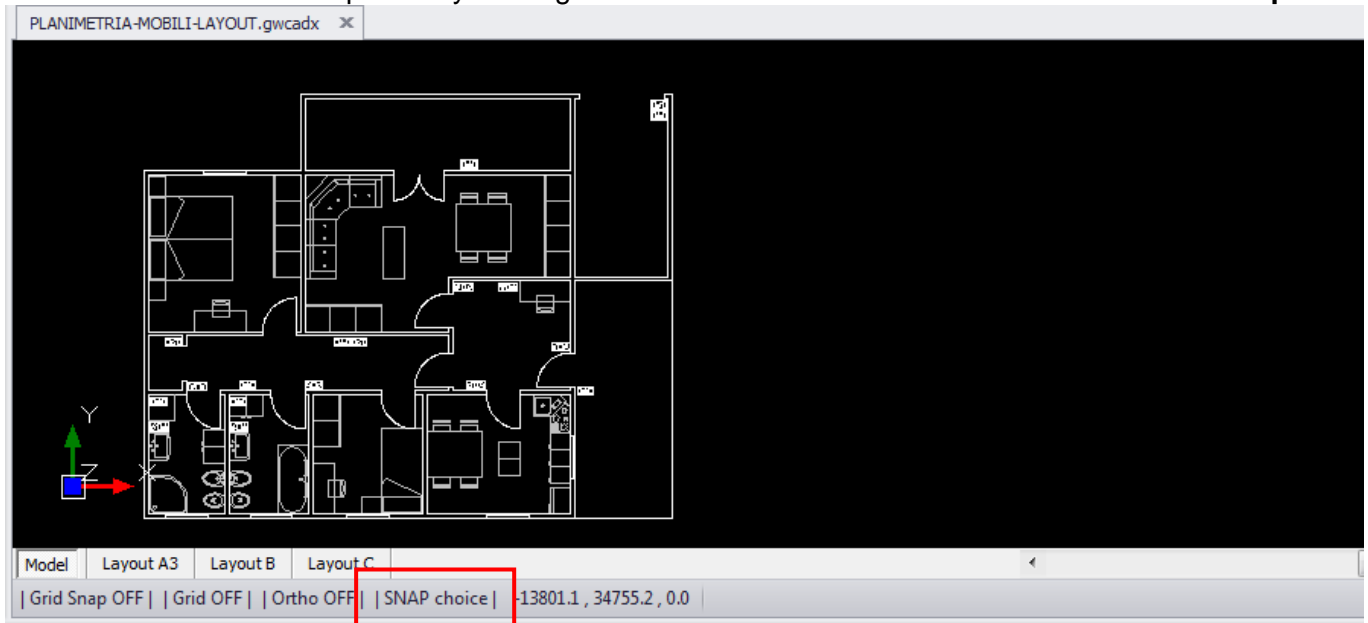


1715 - Snap type

The window “**Snap type**” allows you to enable or disable one or more snap:

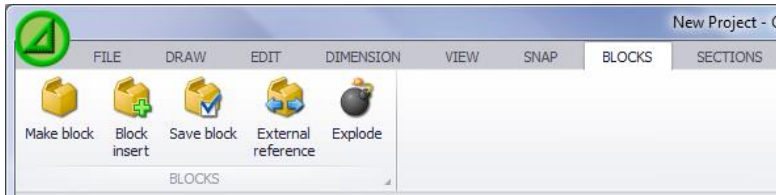


This window can also be opened by clicking “**SNAP choice**” button in the bottom of “**CAD workspace**”:



(To enable or disable snaps you can use the shortcut key F9 by the keyboard)

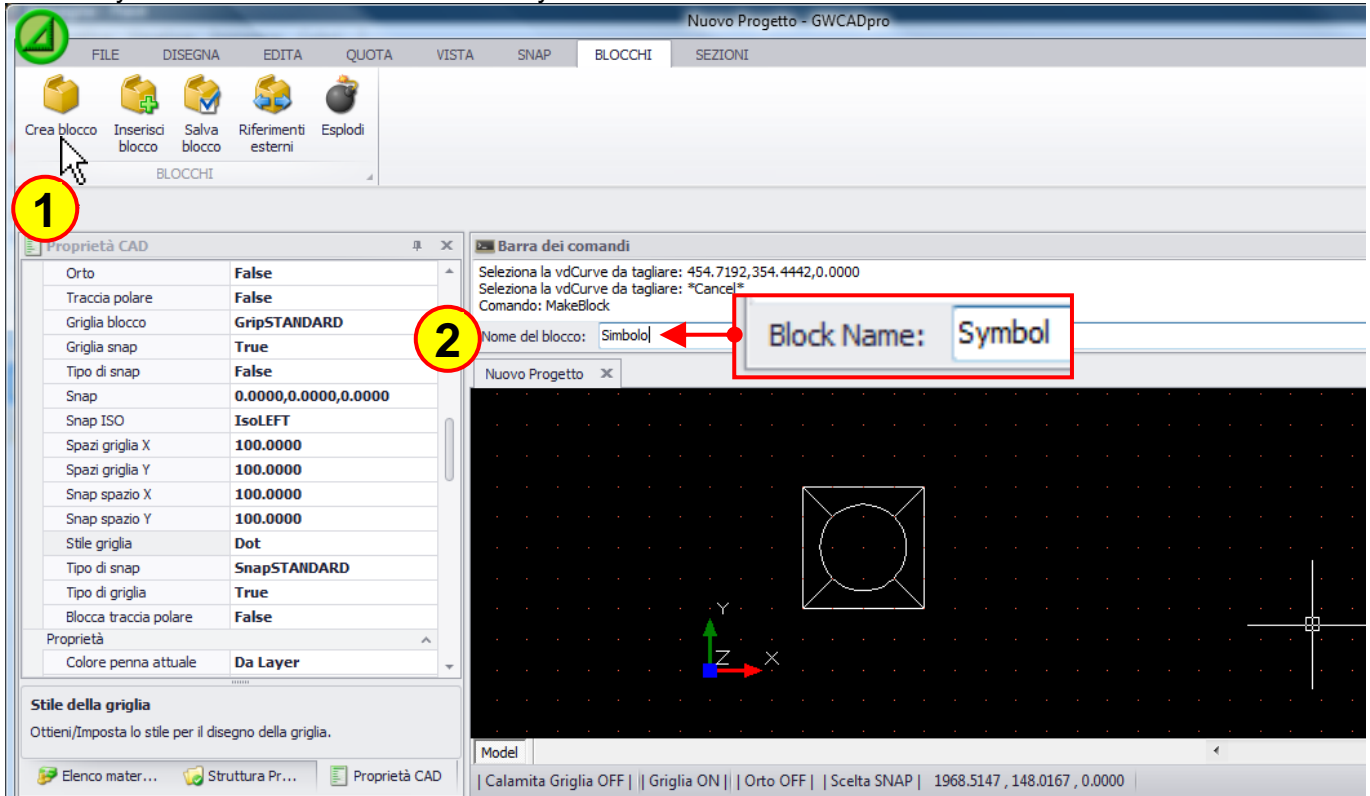
1800 – Blocks Menu



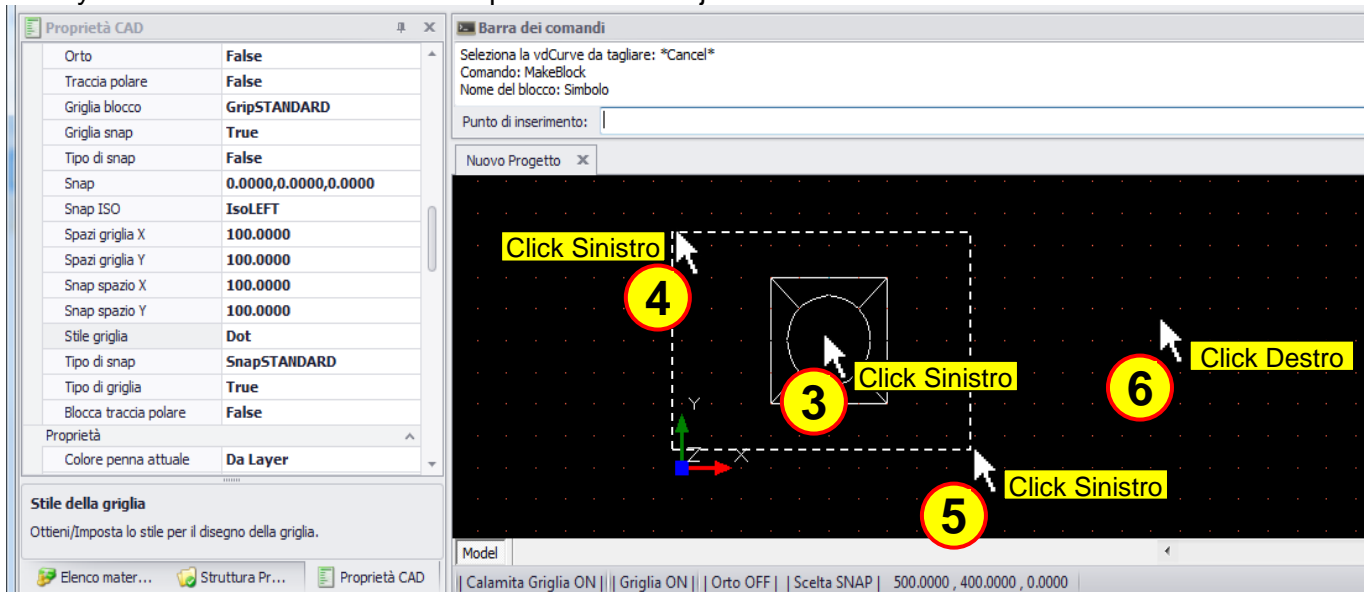
The blocks are sets of objects created by the user that can be used in various projects.

1801 - Made blocks

It allows you to create a block identified by a name:

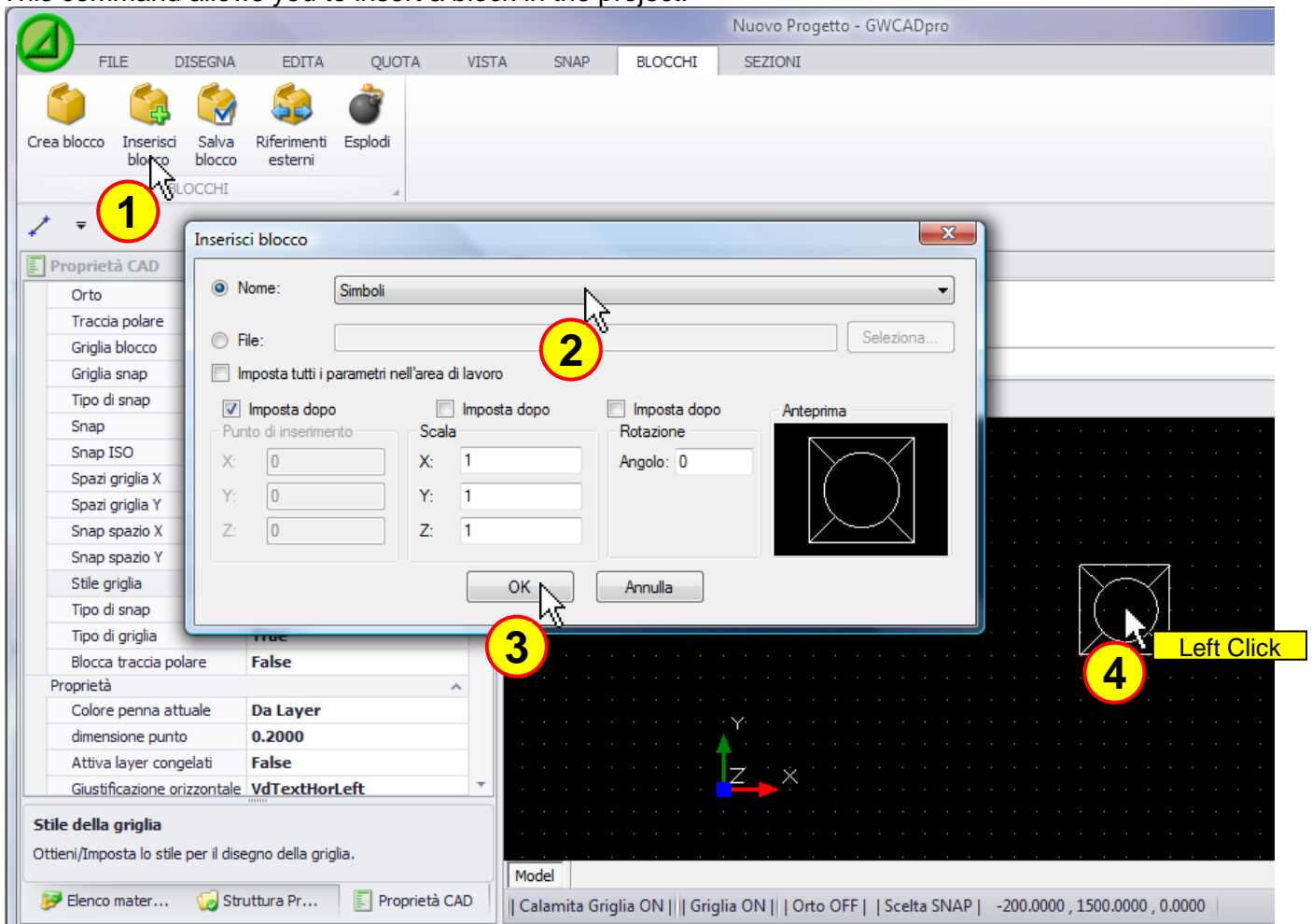


Then you have to select the insertion point and the objects that will constitute the block:

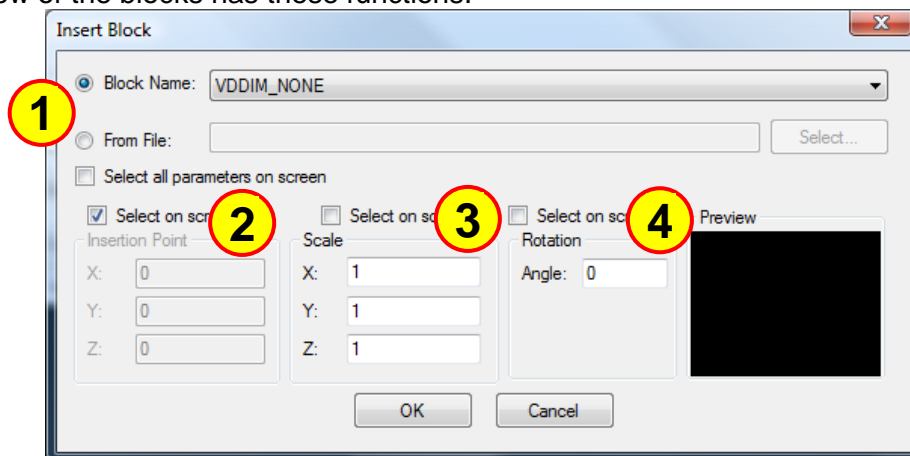


1802 - Block insert

This command allows you to insert a block in the project:



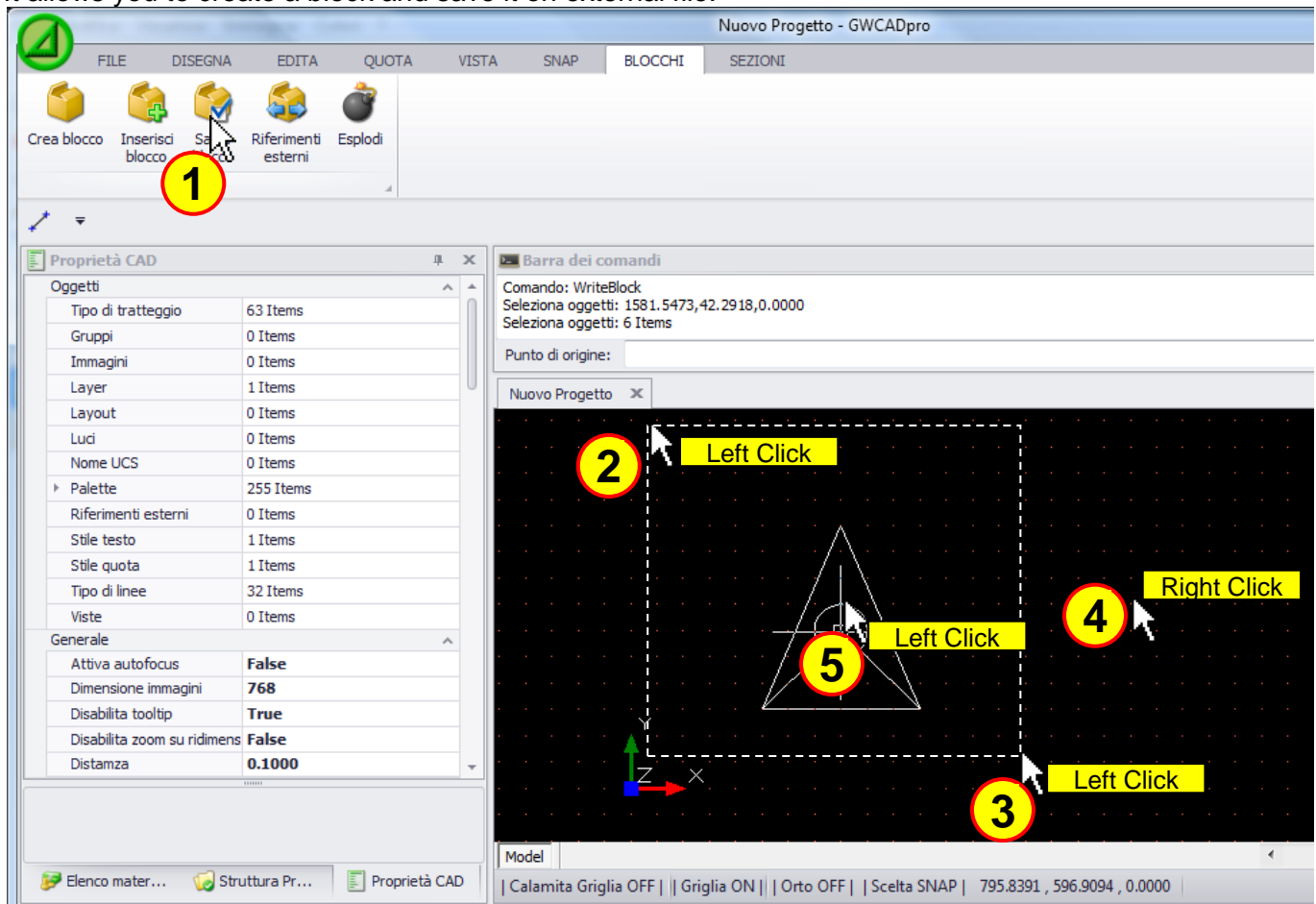
The input window of the blocks has these functions:



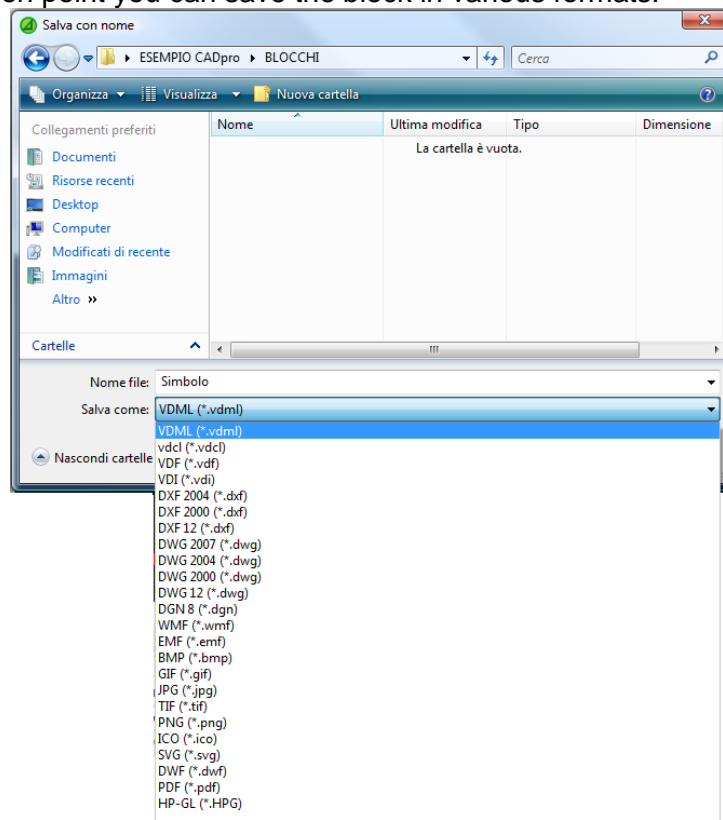
- 1) Select blocks in the current project or import the blocks saved on external files
- 2) Define the insertion point of the block
(Clicking on the flag, the insertion point will be defined in the “CAD Workspace”)
- 3) Define the scale of the block
(Clicking on the flag, the scale factor will be defined in the “CAD Workspace”)
- 4) Define the rotation angle of the block
(Clicking on the flag, the rotation angle will be defined in the “CAD Workspace”)

1803 - Save block

It allows you to create a block and save it on external file:

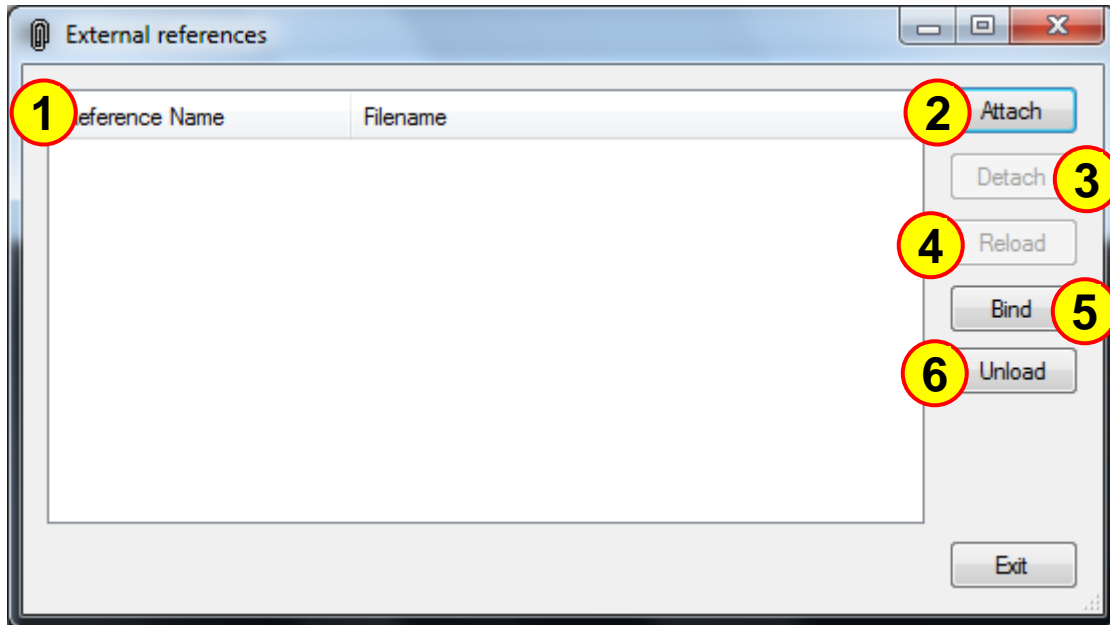


After defining the insertion point you can save the block in various formats:



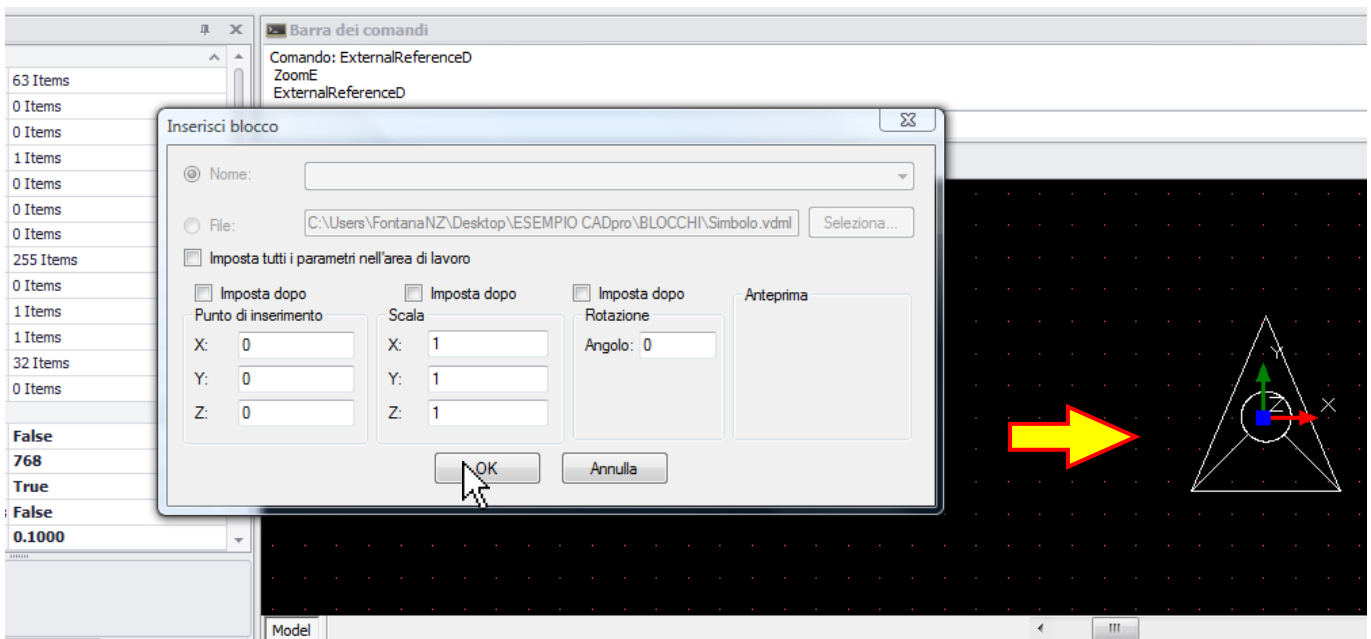
1804 - External reference

It opens an external file inside the “CAD Workspace” without importing it into the project, it will remain connected as an external file:



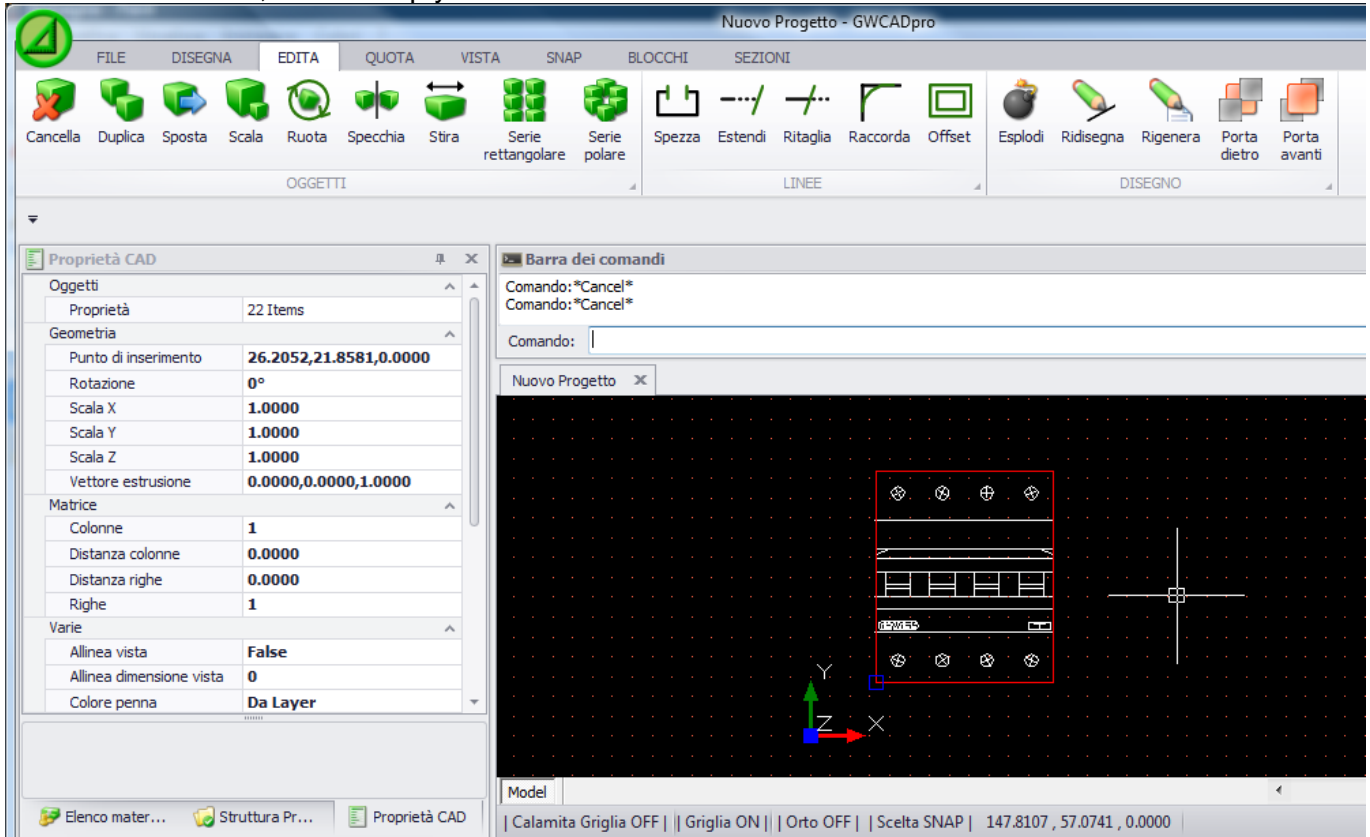
- 1) Show the files linked to the project and their position on the hard disk
- 2) To insert an external file in the project
- 3) To remove the selected file from the project
- 4) It allows you to update the selected file
- 5) It allows you to import the selected file in the project
- 6) It allows you to delete the selected file

With the “**Attach**” button is possible to open the window in which you can select the file to import into the project:

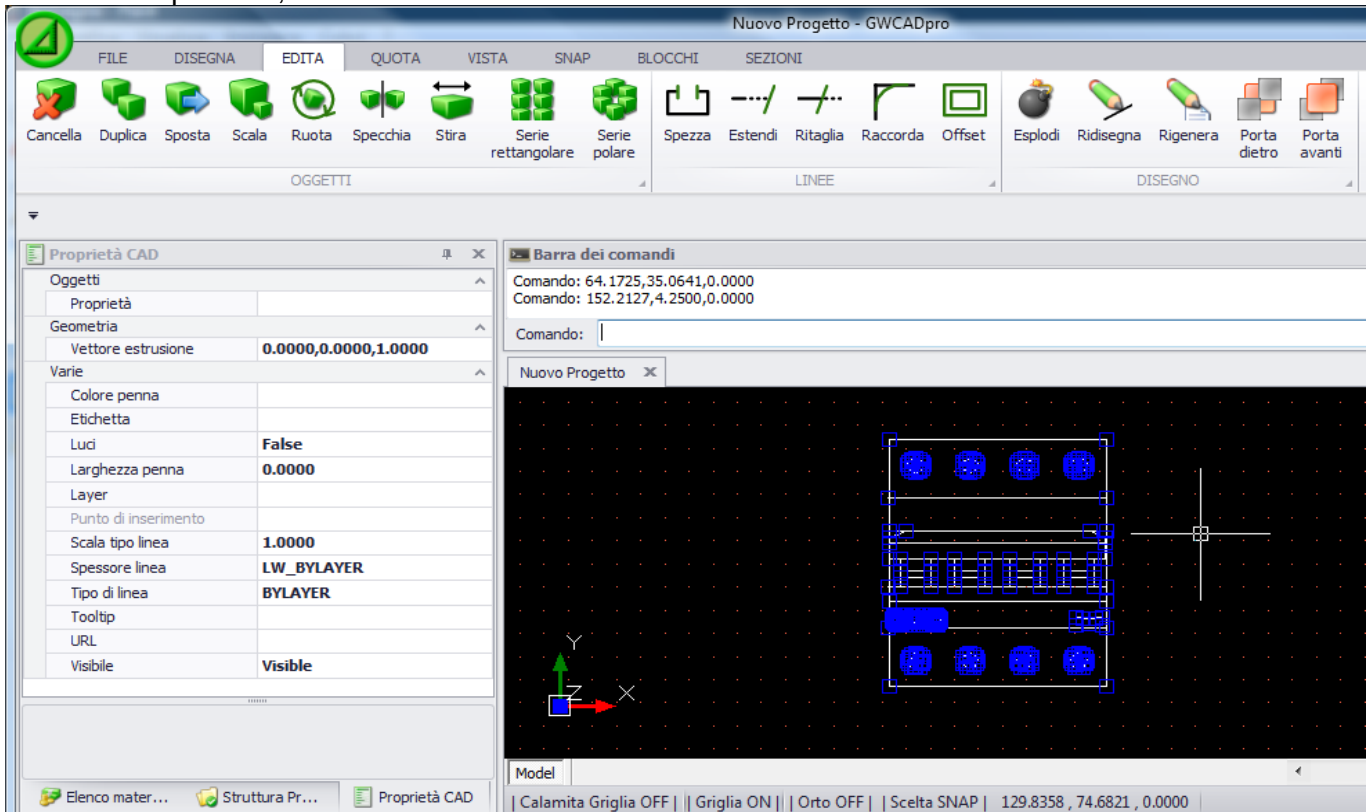


1805 - Explode

The **“Explode”** button is used to decompose a block in individual objects (lines, curves, circles, etc.). A block, when selected, is identified inside the **“CAD Workspace”** by a red outline and a blue square in the lower left corner, as first step you have to select the block...

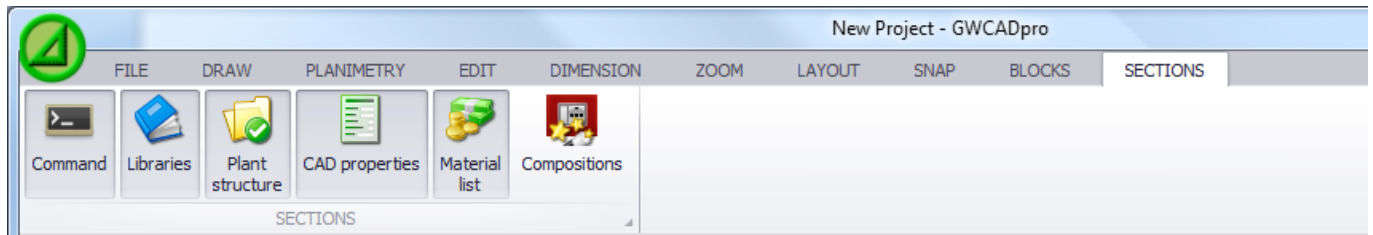


... after this operation, the block has become a set of lines

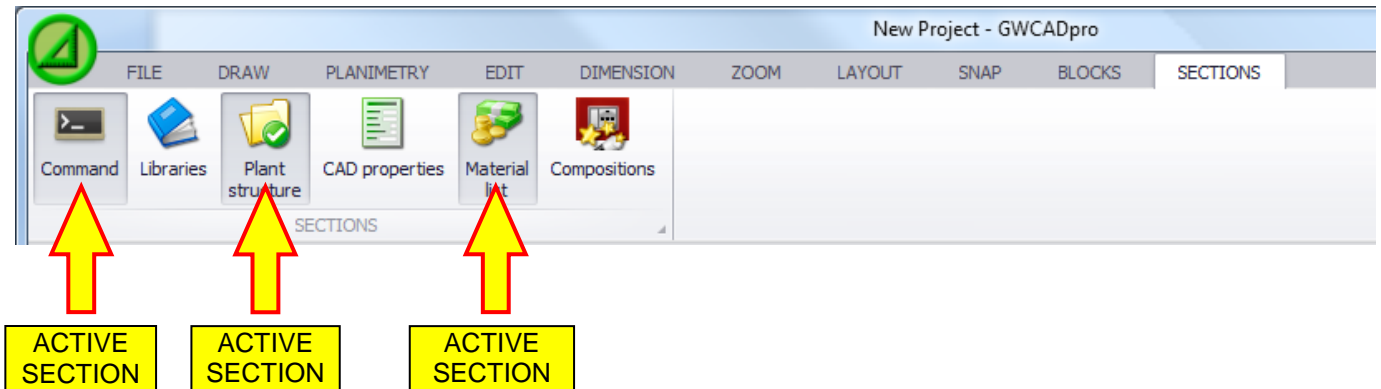


(The selection of objects can be done before or after pressing the **“Explode”** button)

1900 – Sections Menu



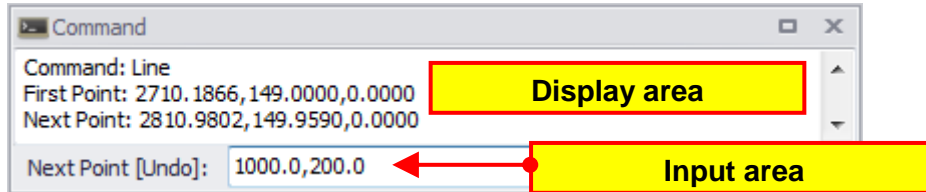
This menu allows you to show or to hide at any time the various sections of the program.



200 - Command Bar

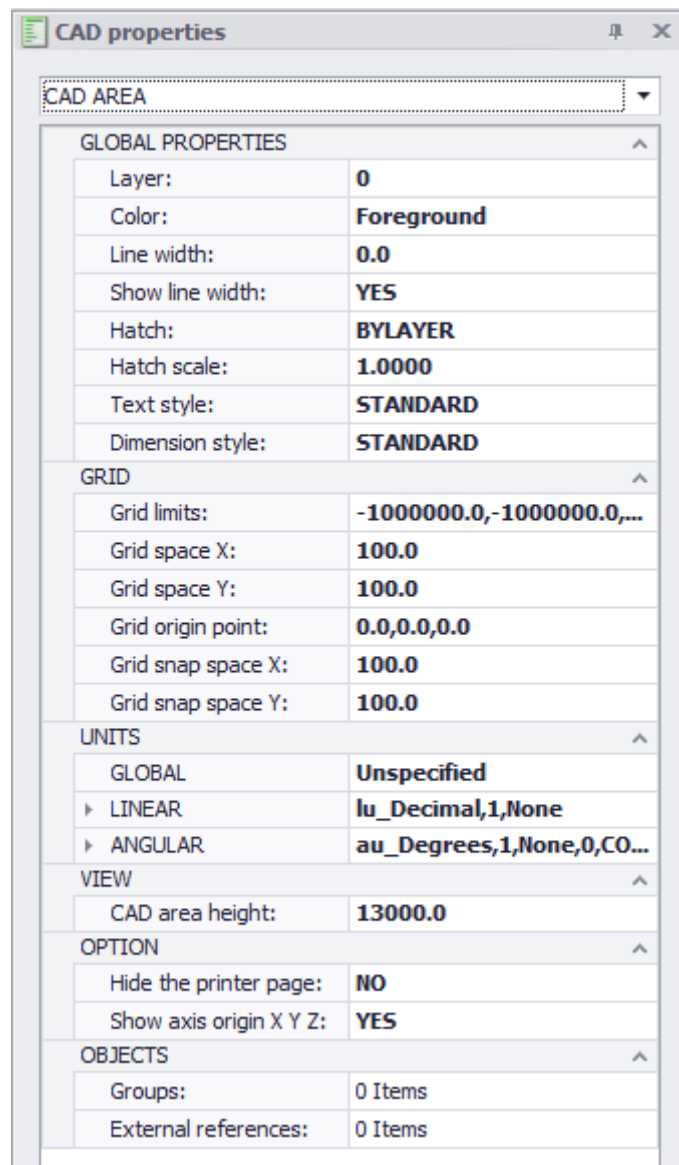
The “Command bar” shows all the information and parameters that characterize the various CAD commands.

This bar has a display area and an input area in which the user can type in the various information required by the CAD commands.



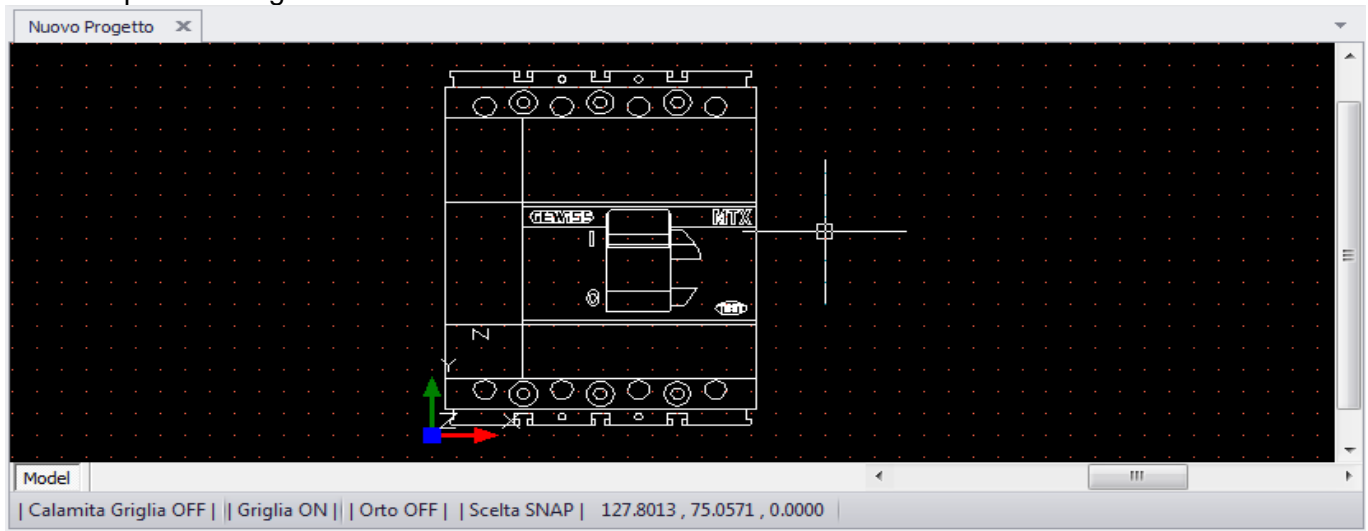
300 - CAD Properties

The section “CAD properties” contains all the properties for the selected objects in “CAD Workspace”. If no objects are selected, the properties are these:

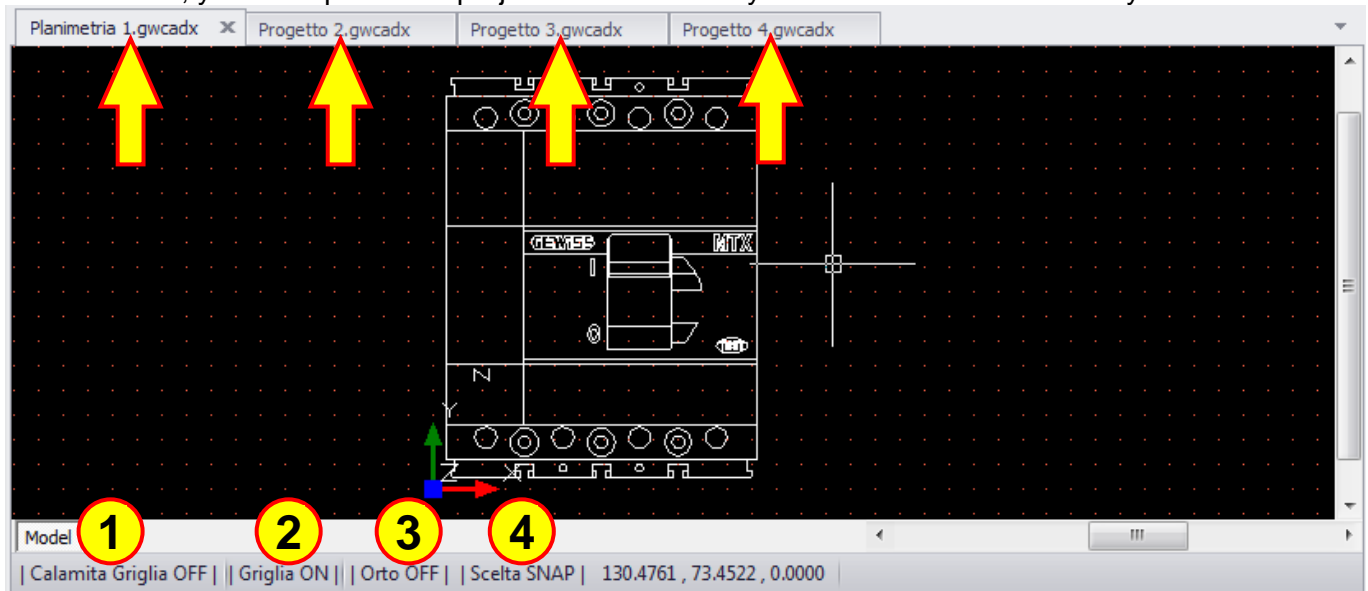


400 - CAD Workspace

The controls located in the various menus act in the “CAD Workspace”. In this section you can create and/or import drawings DXF and DWG:



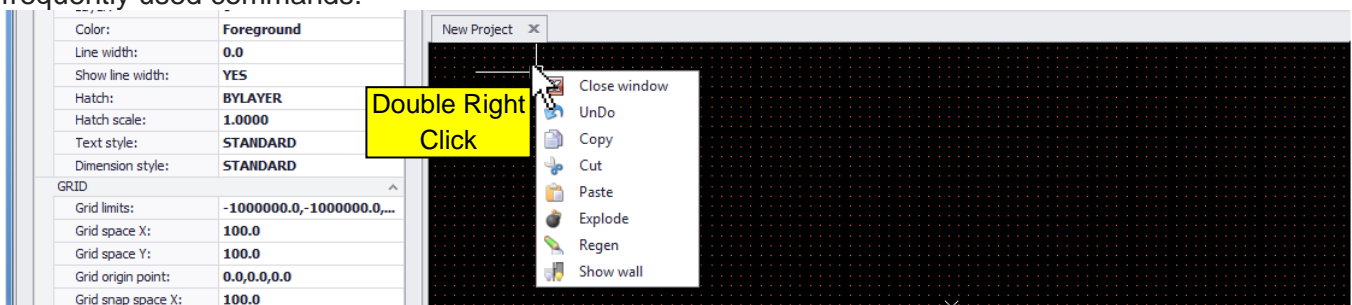
In this section, you can open more projects simultaneously and switch between them by the "tab":



In the lower part instead there are quick commands used to speed up the realization of the drawing:

- 1) Enable / Disable the magnet grid of the mouse cursor
- 2) Show / hide the grid on-screen display
- 3) Enable / Disable the orthogonal command used to draw the line (keyboard shortcut F8)
- 4) Open the selection windows for the snap

By double-clicking with the left mouse button in the workspace CAD appears a special menu with some frequently used commands:



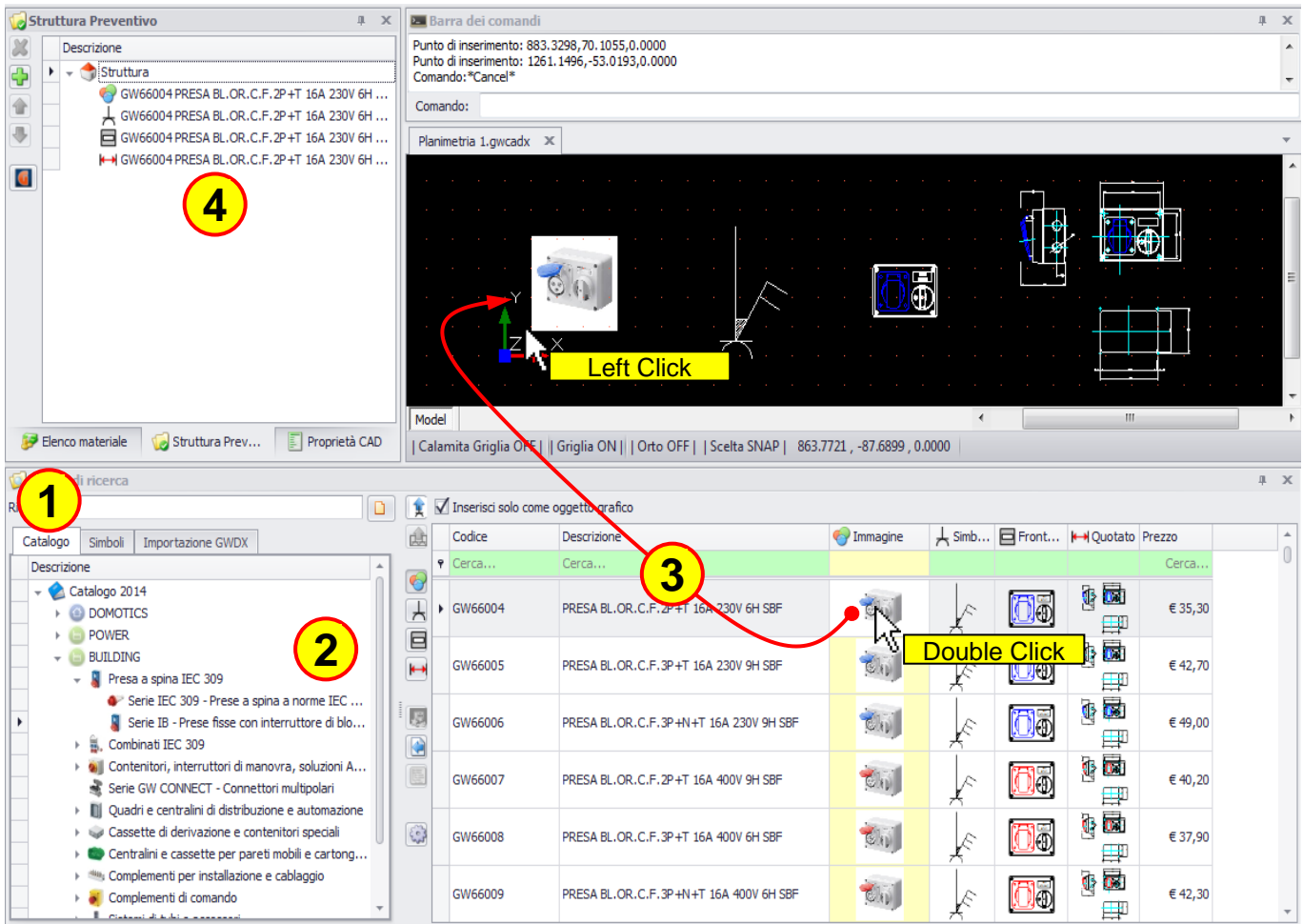
500 - Library

This section contains drawings, electrical symbols, frontal DXF and dimensioned DXF for the GEWISS products organized into three different structures:

- 5100** - Selection by catalogue structure
- 5200** - Selection by electrical symbol
- 5300** - Furnishings
- 5400** - Importing by file *.GWDX

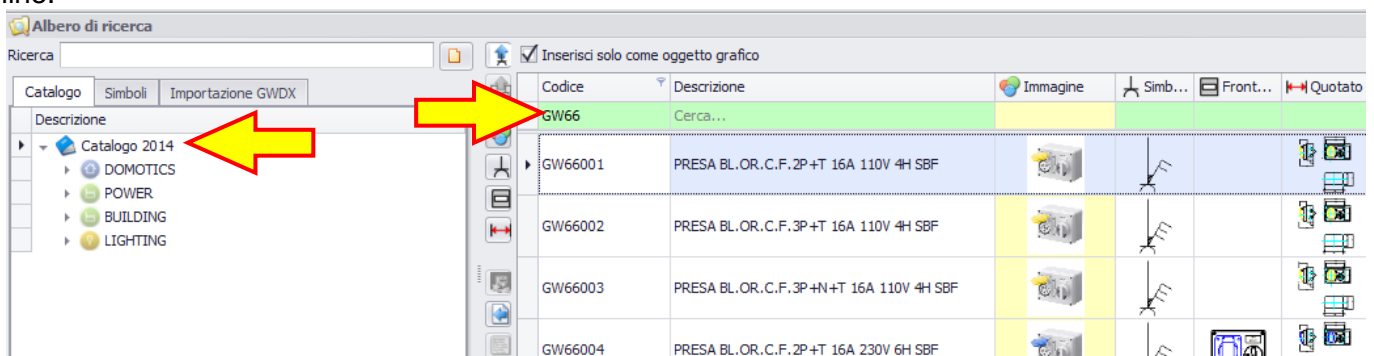
5100 - Selection by catalogue

To insert an object in the “CAD Workspace” the steps are these:



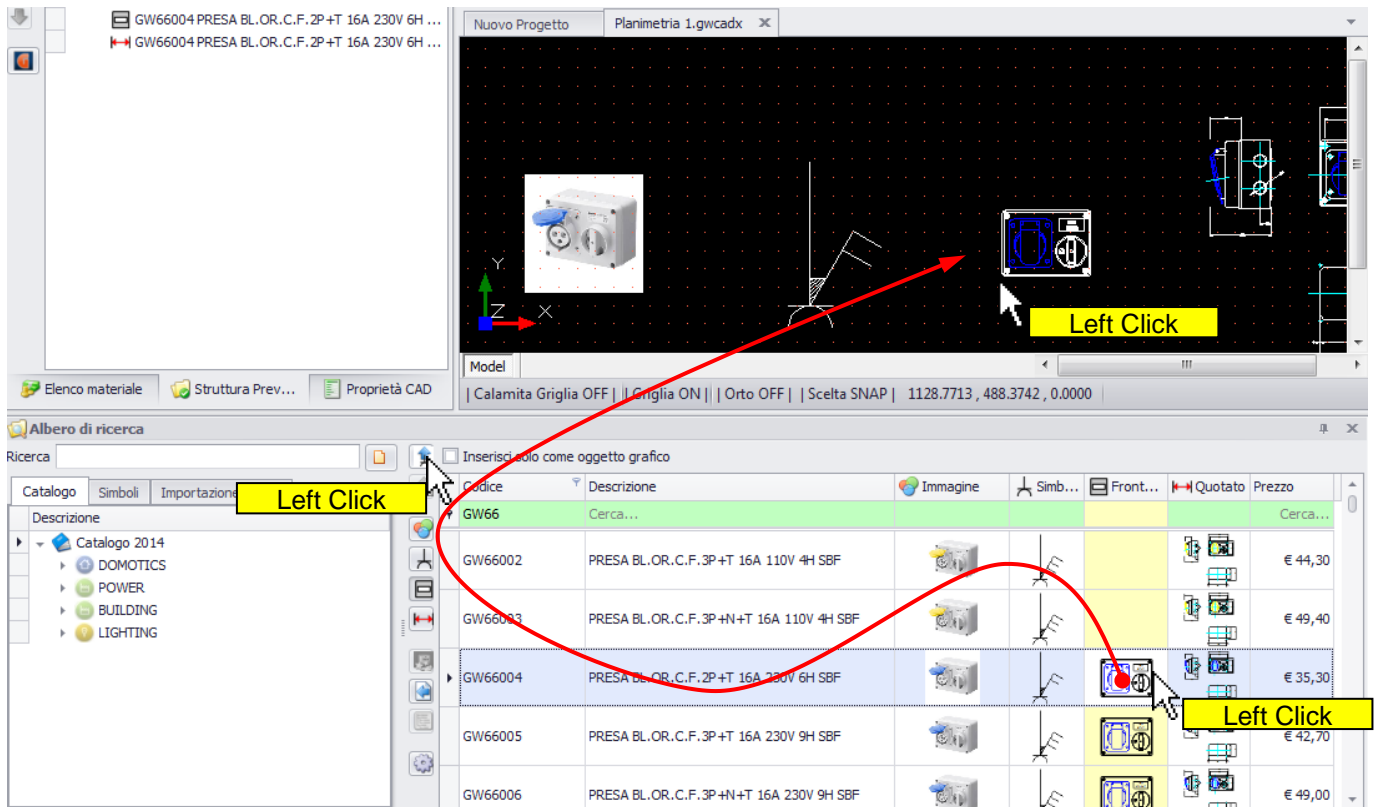
1) Select the tab “Catalogue”

2) Scroll through the catalogue structure looking for the GEWISS products. You can click on the folder "Catalog 2014", in this way is possible to search the product code or the product description by the green line:

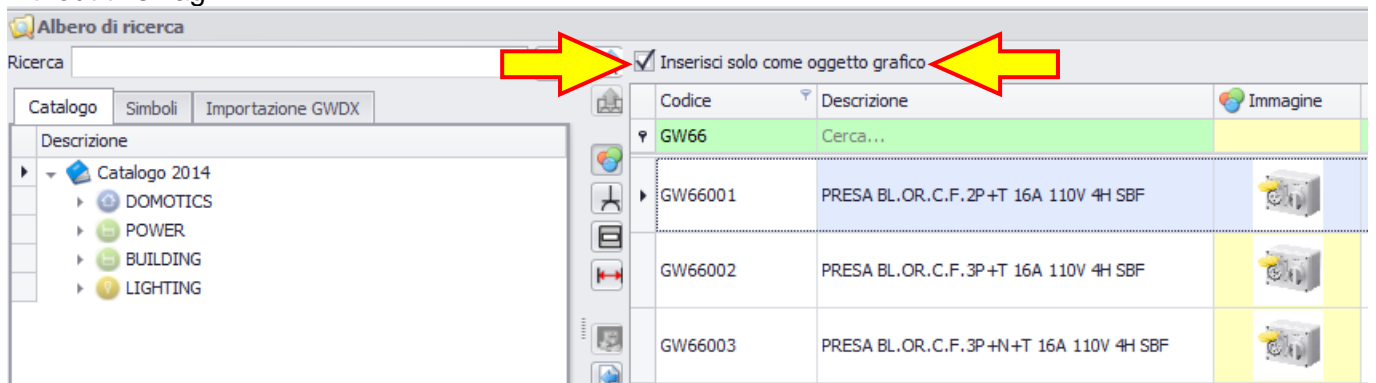


3) By double-click with the mouse on the object and then click in the **“CAD Workspace”** to insert it in the project.

Another way to insert a graphic object is selecting it with the mouse, click on the button **“Insert Symbol”** and click in the **“CAD Workspace”** to place it:



4) All the objects inserted in the **“CAD Workspace”** are also automatically shown in the **“Quotation structure”** while in the section **“Material list”** are inserted only the objects inserted in the project without this flag:

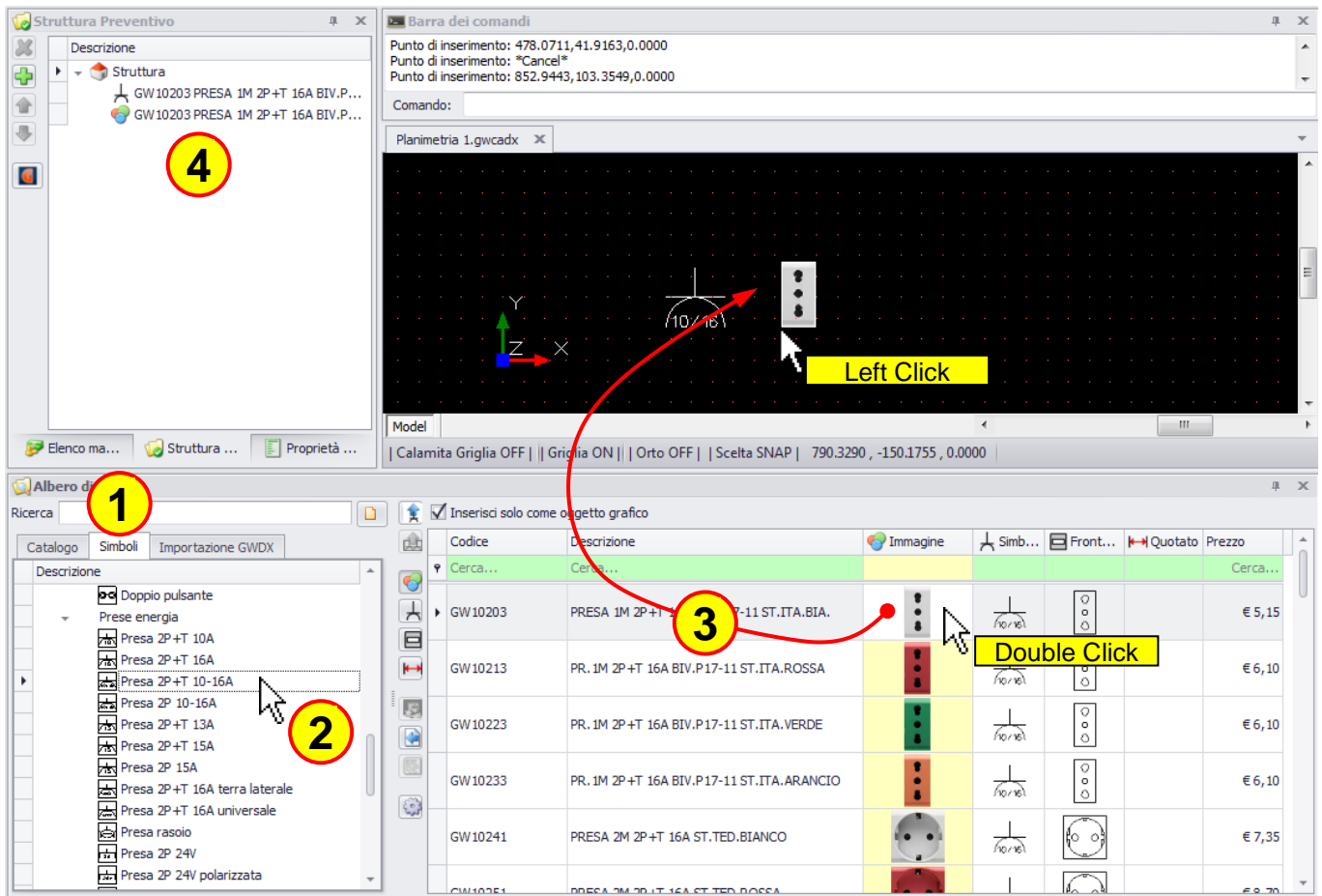


If the flag is active, the object inserted in the **“CAD Workspace”** is considered only as a graphical object and it doesn't appear in the material list.

If the flag is inactive, the object inserted in the **“CAD Workspace”** is considered as a component of the system and it is included in the material list of the project.

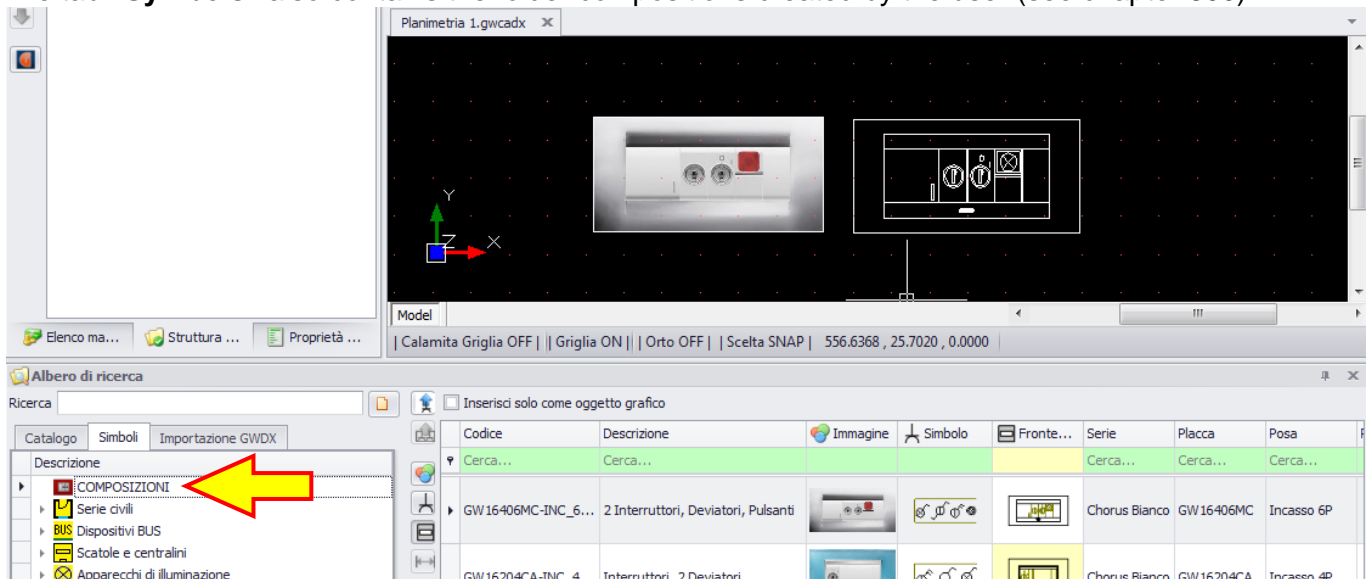
5200 - Selection by electrical symbol

To insert an object in the “CAD Workspace” the steps are these:



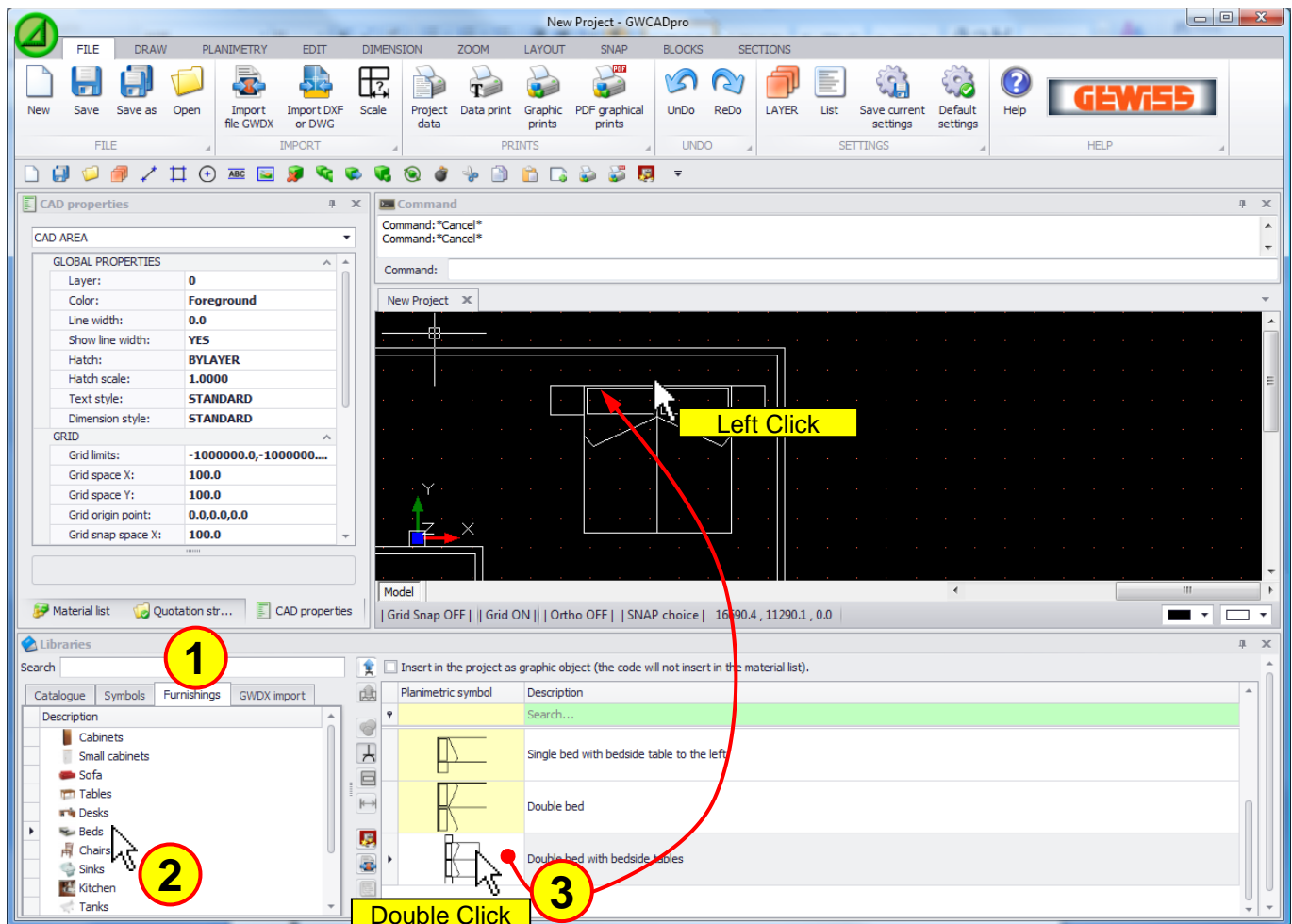
- 1) Select the tab “Symbols”
- 2) Then scroll through the list of symbols
- 3) Double click with the mouse on the object that you want to insert in the project and click in the “CAD Workspace” to position it
- 4) All objects included in the “CAD Workspace” will also be automatically shown in the section “Quotation structure”

The tab “Symbols” also contains the folder compositions created by the user (see chapter 800):



5300 - Furnishings

To insert a furnishing in the planimetry the steps are these:



1) Select the tab **"Furnishings"**

2) Then scroll through the list of symbols

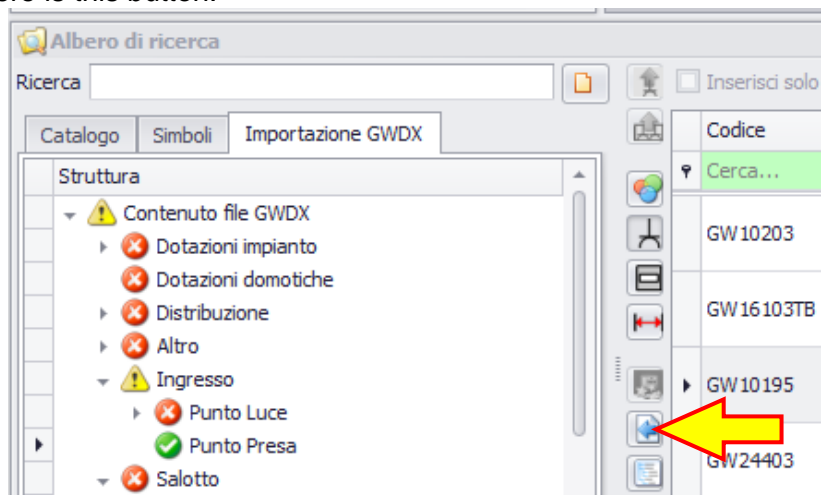
3) Double click with the mouse on the object that you want to insert in the project and click in the **"CAD Workspace"** to position it

5400 - Importing by file *.GWDX



In this section you can import a file *.GWDX exported by the GEWISS software:

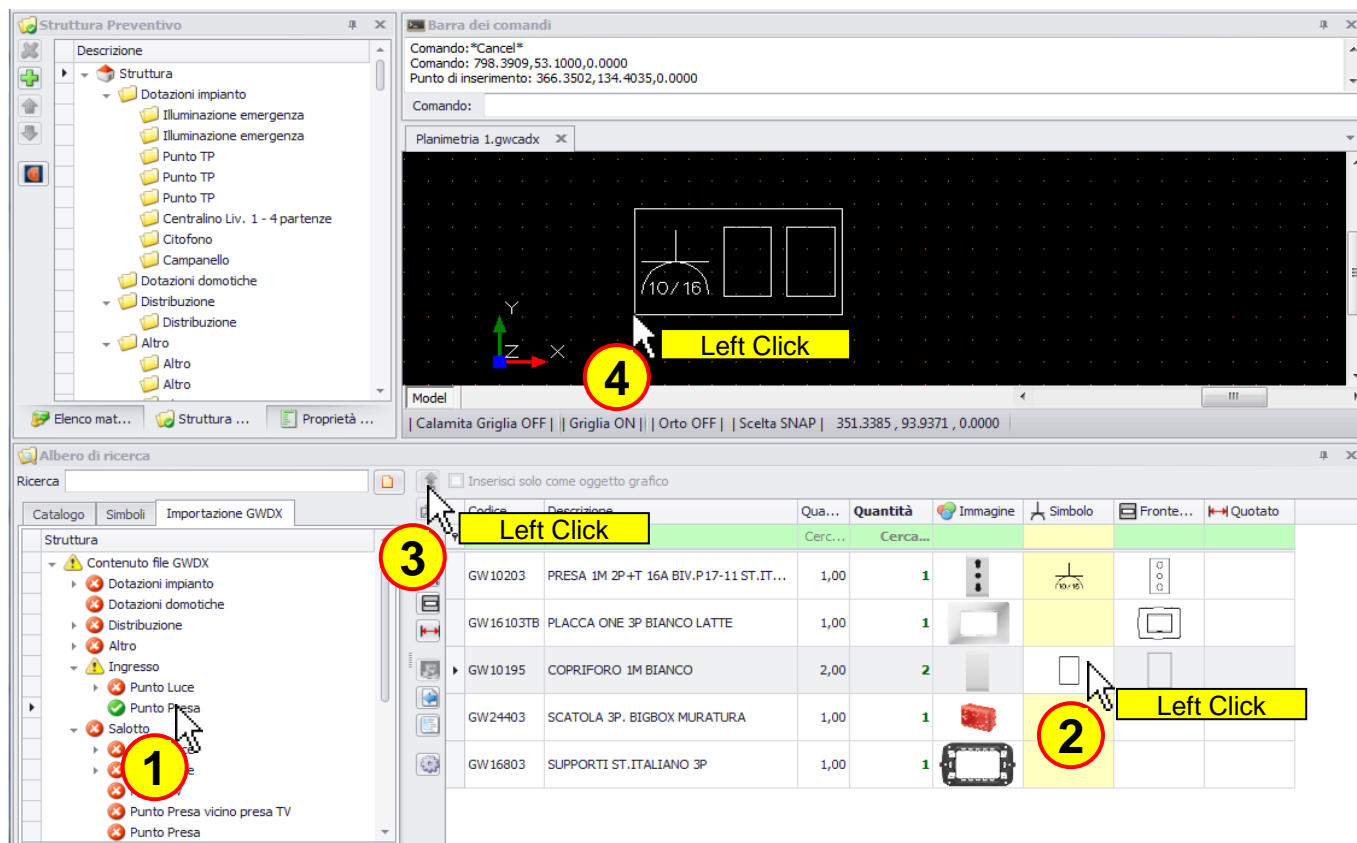
- **GWPRICE**, Software for the estimation of electrical systems
- **GWCITYVISION**, Design and budgeting Software for VIDEO INTERCOM systems
- **GWPBTQ**, Low voltage systems and boards software for design and estimation
- **GWBUS/VISION**, Design and budgeting Software for BUS and VIDEO INTERCOM systems

To import this file there is this button:

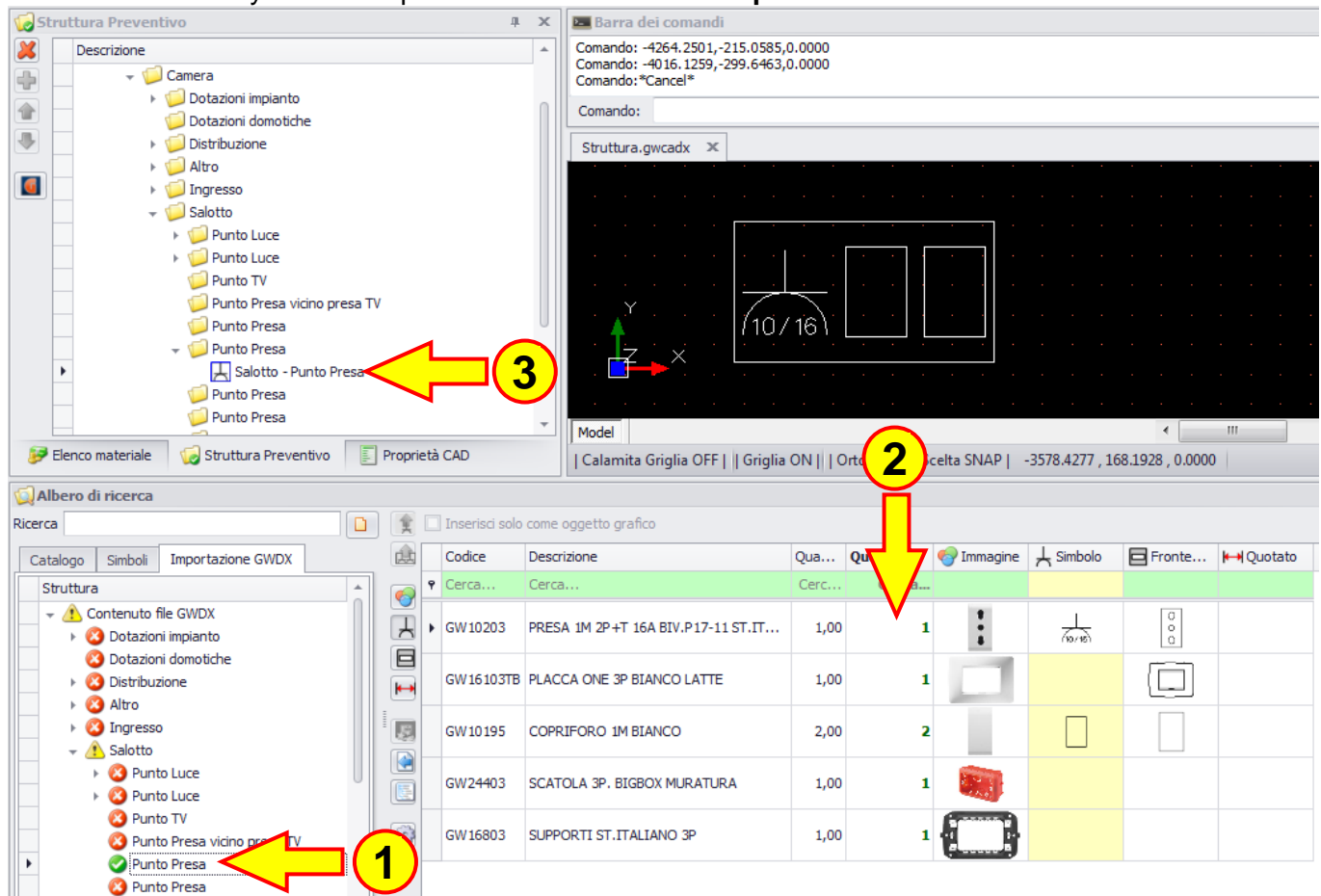


After importing the file, you can insert in the “CAD Workspace” these objects:

-  Symbols compositions
-  Frontview compositions



The insertion of a Symbols composition in the “CAD Workspace” involves:







- 1) The icon in the system structure becomes (object inserted)
- 2) The quantity column inserted is compiled
- 3) The composition is automatically inserted in the “Quotation structure”

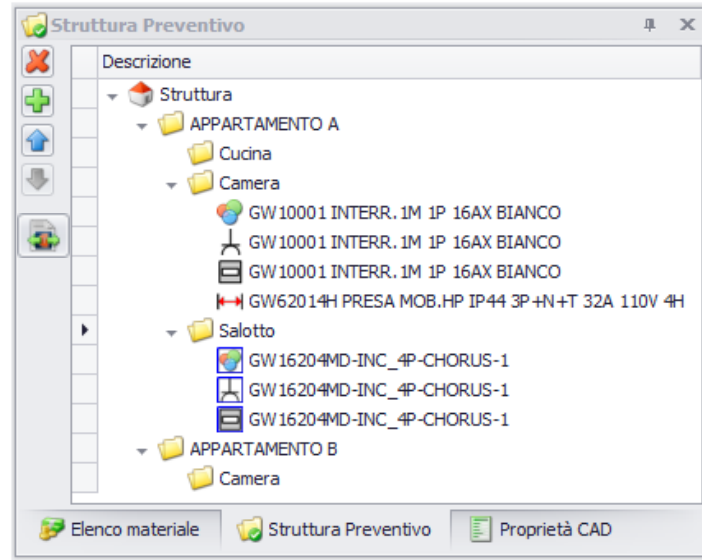
If you want to insert other objects related to this composition, they will be inserted only as graphical objects and will not appear in the material list.

600 - Quotation Structure








This section contains the plant structure that can be implemented as you like through the commands:

-  Add node
-  Delete node
-  Move up
-  Move down

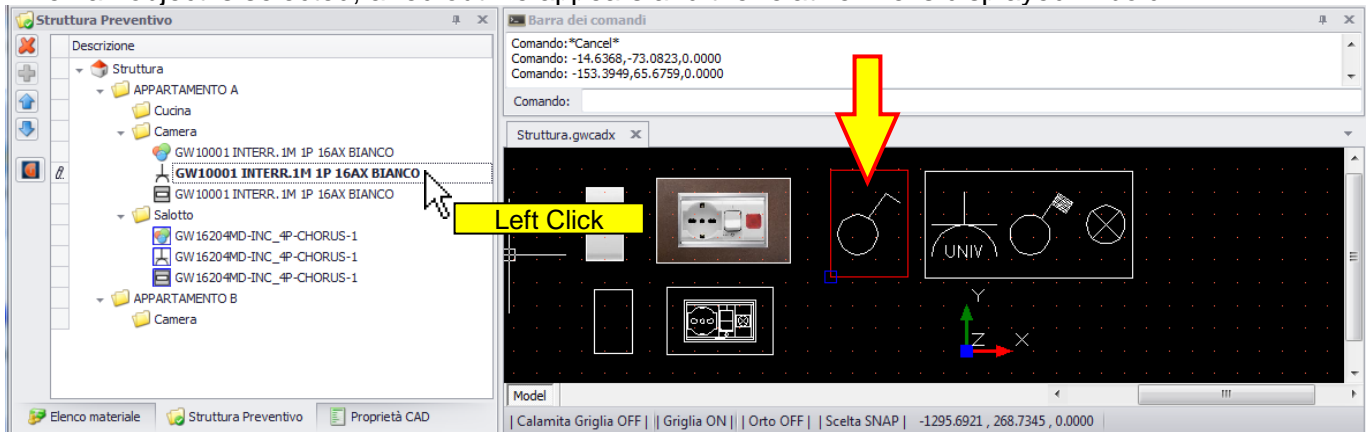
When an object is inserted in the “CAD Workspace” automatically it is inserted in this section:




To each product are associated more graphical objects:

-  Image
-  Symbol
-  Frontview DXF
-  Dimensioned DXF
-  Images compositions
-  Symbols compositions
-  Frontview compositions














When an object is selected, a red outline appears and the relative line is displayed in bold:



In this section you can also export the structure and related items in the file *.GWDX by the button 

700 - Material list

This section provides a material list of the project:

Material list				
Quotation				
Im...	Code	Code	Qty	
🔍	Search...	Search...	S...	
	GW10001	INTERR. 1M 1P 16AX BIANCO	5	
	GW1610...	PLACCA ONE 3P BIANCO LATTE	54	
	GW10195	COPRIFORO 1M BIANCO	101	
	GW24403	SCATOLA 3P. BIGBOX MURATURA	54	
	GW16803	SUPPORTI ST.ITALIANO 3P	54	
	GW10203	PRESA 1M 2P+T 16A BIV.P17-11 ST.IT...	19	
	GW10051	DEVIATORE 1M 1P 16AX BIANCO	10	
	GW10361	PRESA TV 1M DIR. CONN.MASC.9,5m...	4	
	GW10204	PR.2M 2P+T 16A BIV.P30-17 ST.ITA./...	5	
	GW10004	INTERR. 1M 2P 16AX BIANCO	1	
	GW10091	INVERTITORE 1M 1P 16AX BIANCO	4	
	GW48008	CASSETTA DERIVAZIONE INCASSO 39...	1	
	GW48006	CASSETTA DERIVAZIONE INCASSO 19...	4	


Export EXCEL Export GWDX

Material list Quotation structure CAD properties

In this section you can view the partial material list based on the selected objects in the “**CAD Workspace**”:

Elenco materiale

Preventivo

Foto	Codice	Codice	Qta	U...	Totale ...
🔍	Cerca...	Cerca...	Cer...	C...	Cerca...
	GW10001	INTERR. 1M 1P 16AX BIANCO	2 pz		€ 7,80

€ 7,80

Esporta EXCEL Esporta GWDX

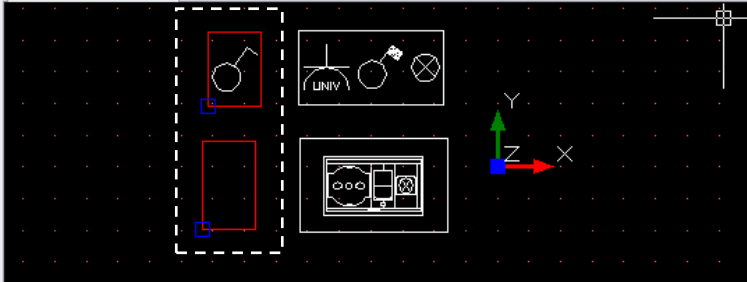
Elenco materiale Struttura Preventivo Proprietà CAD

Barra dei comandi

Comando: -1.0260,-344.7598,0.0000
Comando: *Cancel*
Comando: -858.1822,-389.8733,0.0000

Comando:



Struttura.gwcadx



Model

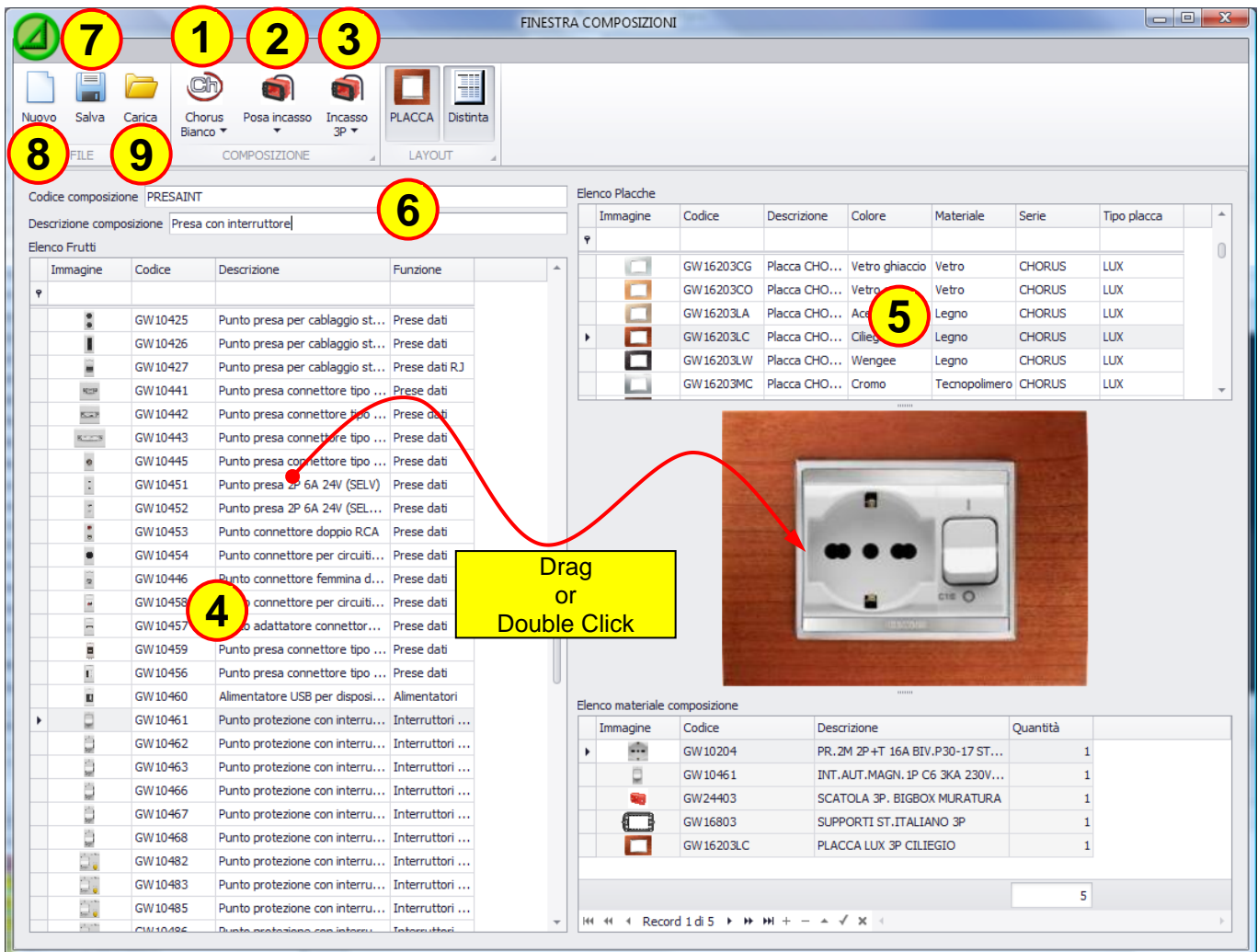
| Calamita Griglia OFF | | Griglia ON | | Orto OFF | | Scelta SNAP | 912.5220 , 602.6233 , 0.0000 |

The material list can be exported:

-  **Export EXCEL** Export the material list in excel format
-  **Export GWDX** Export the material list in the file *.GWDX

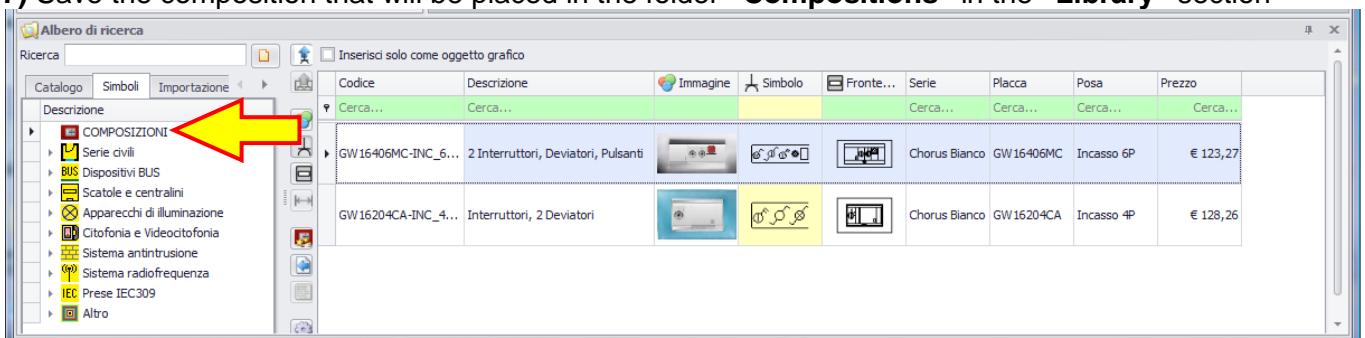
800 - Compositions

The compositions section allows you to create compositions composed by device, plate, frame and box:



To create a composition you can proceed in this way:

- 1) Choice of the domestic range
- 2) Choice of the laying
- 3) Choice of the plate size
- 4) Place the fruits in the plate dragging them or by double click on the selected device
- 5) Choice of the plate color and style
- 6) Edit code and description (optional, if they're missing, the program automatically assigns them)
- 7) Save the composition that will be placed in the folder **"Compositions"** in the **"Library"** section



- 8) With the "New" button you can create a new composition
- 9) With the "Load" button you can load a composition.

20 – Update with GWSINC



GWSINC is a simple program that permits to update automatically all the GEWISS Software and the only requirement is an Internet connection.

GWSINC can recognize if the GEWISS programs installed on your PC are updated or not. Any update happens simultaneously for all programs with this check mark ☒



The background color of each software in the list can be of 3 colors:

- ☐ White color: The software is installed and updated
- ☐ Yellow color: The software is installed but not updated
- ☐ Gray color: The software isn't installed on your PC

The update software GWSINC can be downloaded by the GEWISS website:

http://pro.gewiss.com/irj/portal/gwsinc_IN