



Operation guide

Installation Instructions

1. Log on to Windows with in an account with the administrator rights.
2. Please close them if there are other running applications.
3. When a **RebroViewer** installation media is put into the optical drive on a PC, the installer for 32-bit or 64-bit starts automatically according to the PC. Note: If the installer does not start, browse through the installation media with Explorer and execute "RebroViewerInstaller.exe".
4. The necessary software (Microsoft .NET Framework 4.8, Microsoft Visual C++ 2015-2019 Redistributable Package) will be installed to start **RebroViewer**.
Note: In the user account control dialog, please select "allow to make changes".
5. Confirm the license agreement that appears and if you agree, select "I accept the terms in the license agreement" to left-click [Next].
Follow the on-screen instructions for installation.
6. When you start **RebroViewer** after completion of installation, the latest version will be checked on the Internet. If the latest version exists, a web updater will start.
Note: Select "allow to make changes" in the user account control dialog. Also, please allow communications for "RebroViewerUp.exe" if your security software interrupts Internet connections.

Uninstallation Instructions

Start [Start Menu]–[Control Panel]–[Program]–[Programs and Features].
Select [**RebroViewer**] and left-click [Uninstall].

Note: The setting file for each user remains on the computer so that it can be used even if RebroViewer is reinstalled. Delete the folders below when deleting the setting.

C: ¥User¥(Login user name)¥AppData¥Local¥NYK Systems¥RebroViewer_EN LocalData

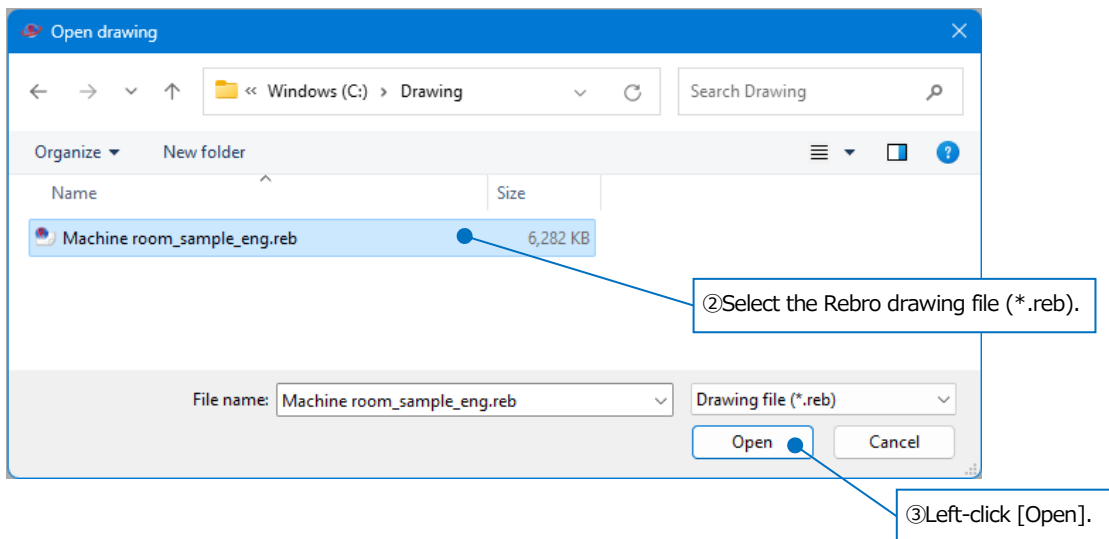
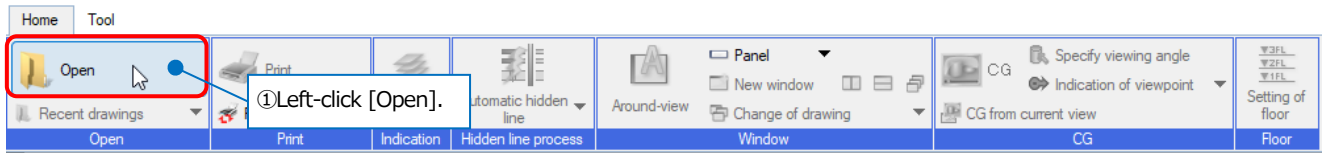
System requirements

OS: Microsoft Windows 11 (Supports 64bit), Windows 10 (Supports 64bit, 32bit)
Graphics boards: :Graphic board or onboard chip that DirectX12 or DirectX9 operates comfortably
Display resolution: 1280×1024 (800) dots per inch or more
Internet connection environments: Required (for the web update)

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- RebroViewer** is a free redistributable viewer.
 - Always use the latest version of **RebroViewer**. If you use an older "**Viewer**" version than the "**Rebro**" on which the drawing was created, the "**Viewer**" may not correctly show the newly added functions to "**Rebro**".
 - No individual support for **RebroViewer** is available.

1. Open a drawing

Open a Rebro drawing file.



2.Set up the displays

How to enlarge, reduce, or move screens

-Enlarge or reduce

You can enlarge or reduce a screen by rotating a wheel around the mouse position.

-Enlarge a specified area

Right-drag the area where you want to enlarge.

Note: Press End key to revert to the previous display area.

-Move a screen

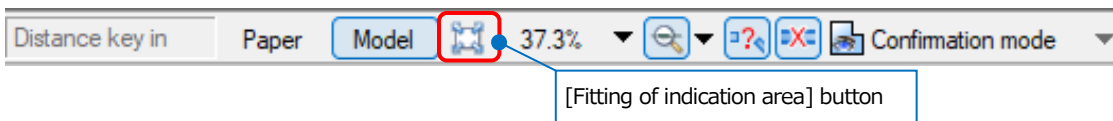
Press ↑ ↓ ← → keys.

Drag a wheel to move a screen.

Also, drag scroll bars that are placed on the right or bottom on a screen to move a screen.

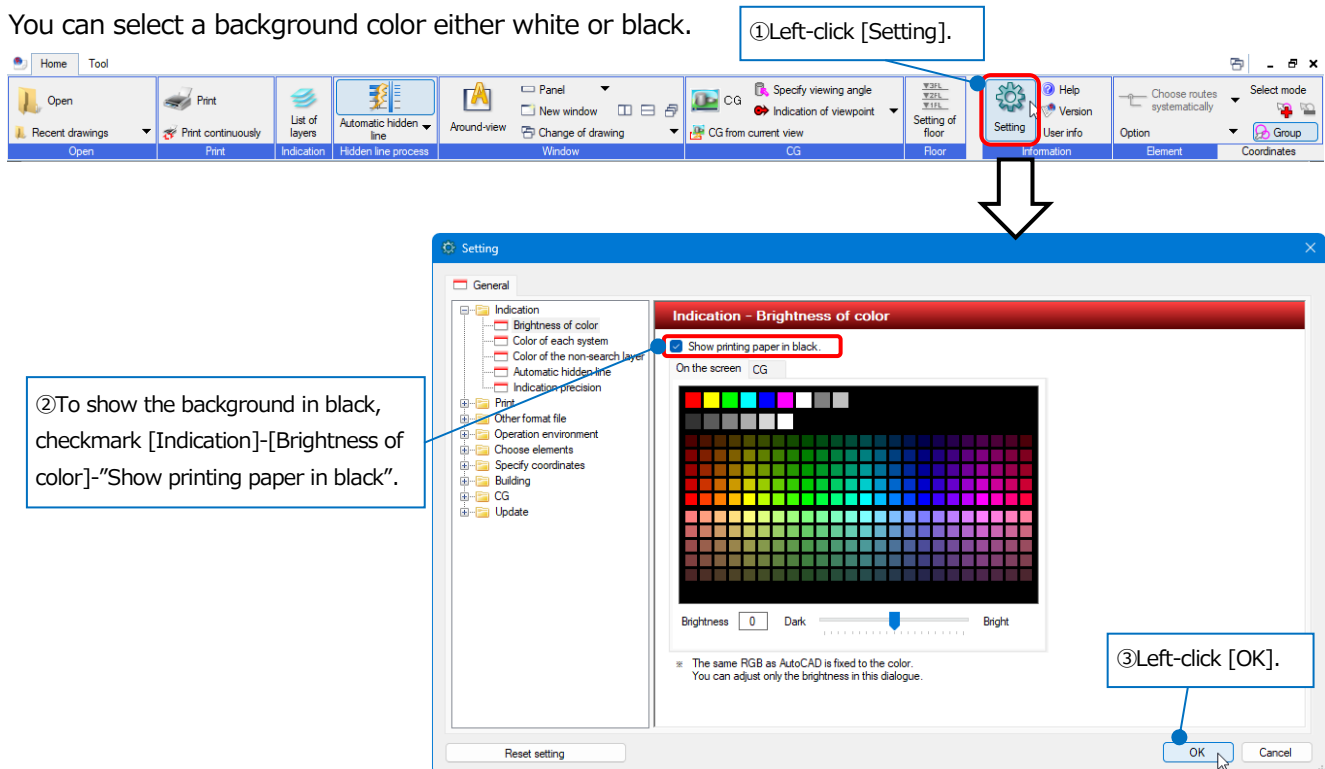
-Show entirely

Left-click [Fitting of indication area] button on the status bar, or press Home key.



How to change a background color

You can select a background color either white or black.



How to switch between layer displays

You can switch between Indication/Non-indication for each layer.

① Left-click [List of layers].

② Select the layout or view to switch between Indication/Non-indication.

③ Left-click [Indicate] icon to change the settings.

④ Left-click [OK].

Indication
Non-indication

Also, you can operate it on the panel.

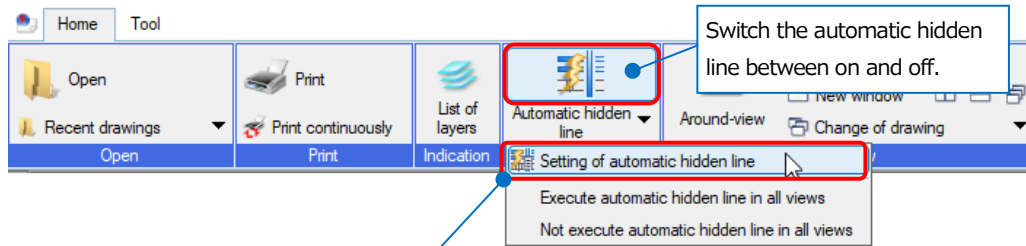
Left-click [Panel]-[Layer].

Current layout: Facilities - air conditioning

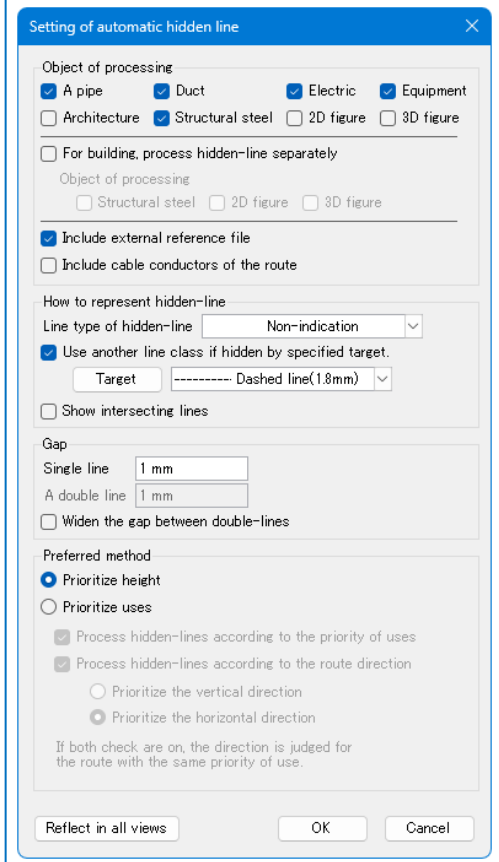
Indicate	Search	Layer name	QTY
		Bypass pipe	65
		Cool and warm water (supply)	213
		Cool and warm water (return)	333
		Cold water (supply)	0
		Cold water (return)	0
		Warm water (supply)	0
		Warm water (return)	0
		Cooling water (supply)	193
		Cooling water (return)	80

How to set up an automatic hidden line

If an automatic hidden line is set for the drawing that you want to open, the setting is reflected.

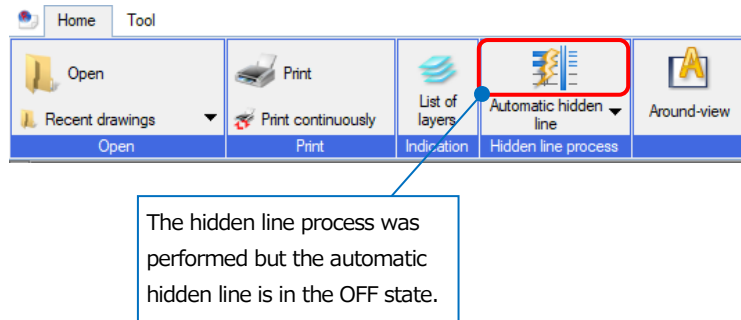


You can check or change the setting of automatic hidden line by [Automatic hidden line]-[Setting of automatic hidden line].



- Supplementary explanation

In the case that [Process hidden-line manually] is set for the drawing:

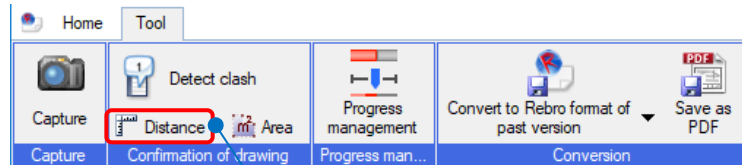


When you apply an automatic hidden line to the drawing for which hand operated hidden line was set, Rebro changes the setting details to automatic hidden line. If you want to recheck the state of hand operated hidden line, open the drawing again.

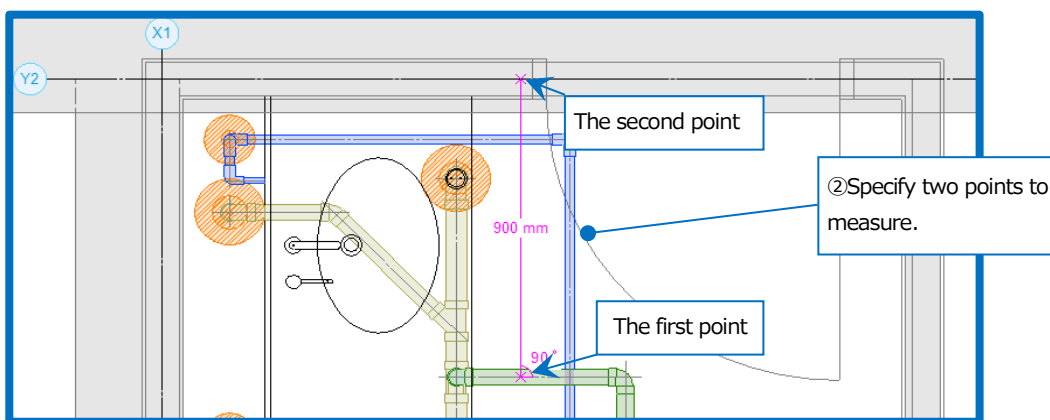
3. Check a drawing

How to measure a distance or an angle

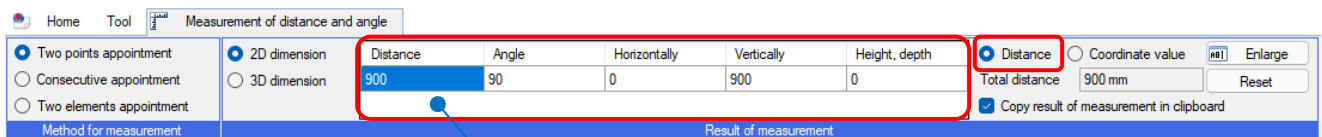
You can determine a distance and coordinate values between the two specified points.



①Left-click [Distance].

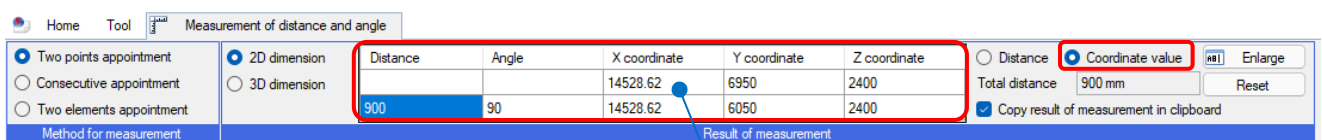


For [Distance]



The distance between two specified points appears in the result field.

For [Coordinate value]



The coordinate values and the distance between two specified points appear in the result field.

How to measure the area

Measure the area by specifying vertices.

① Left-click [Area].

The ninth point

The sixth point

The seventh point

The eighth point

The tenth point

The eleventh point

The fifth point

The second point

The first point

The third point

The fourth point

The twelfth point

② Specify all vertices to left-click [Decision].

③ The measurement result appears on the ribbon.

Office
DH=2600
FL±0

Shape of line connecting to next point
Straight line
Arc (two points)

Method for measurement

Result of measurement

Total area 0 m²

Enlarge Reset

37.63 m²

Total area 37.63 m²

Enlarge Reset

How to check the floor height

You can check the floor height set in a drawing.

① Left-click [Setting of floor].

② The table of floor names and floor heights can be checked.

Open

Print

List of layers

Automatic hidden line

Around-view

Panel

New window

Change of drawing

Window

CG

Specify viewing angle

Indication of viewpoint

CG from current view

CG

Setting of floor

Floor

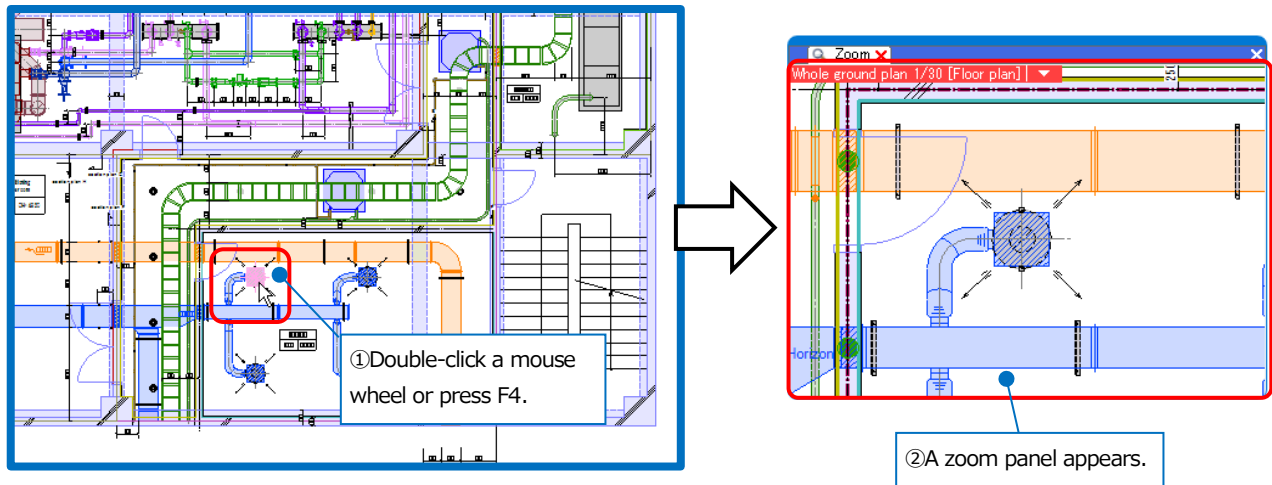
Setting of floor

Floor name	Floor height	Z-coordinate value
RFL		19000
5FL	3800	15200
4FL	3800	11400
3FL	3800	7600
2FL	3800	3800
1FL	3800	0
GL	450	-450

Close

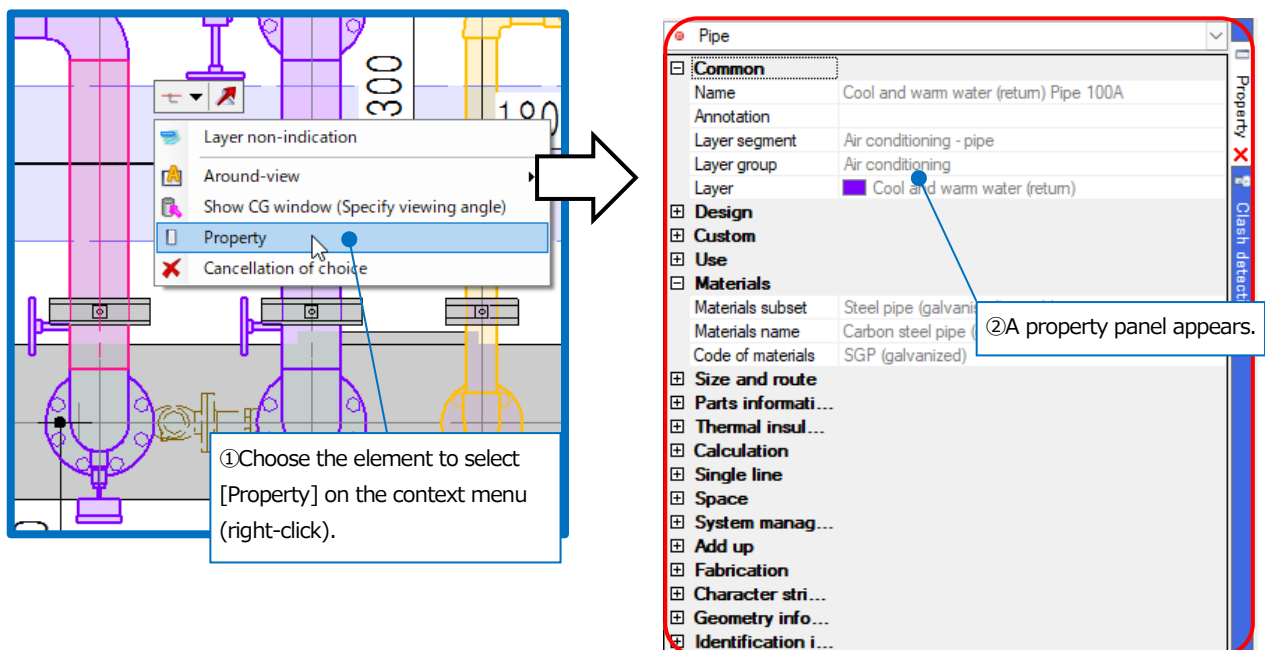
As for zoom panels

You can enlarge an area around a mouse pointer on a drawing.



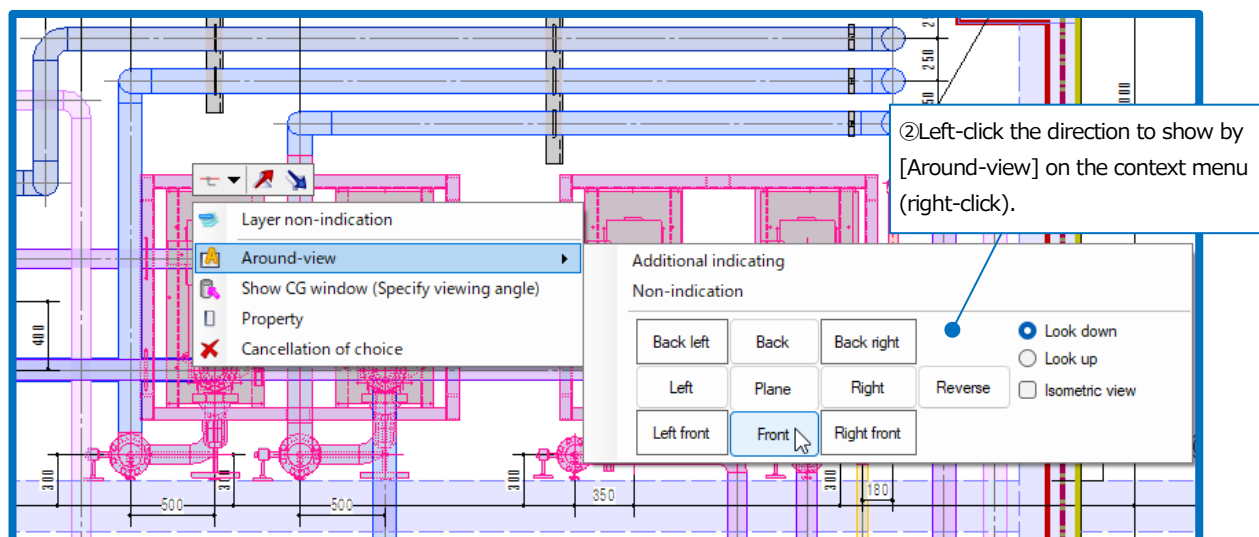
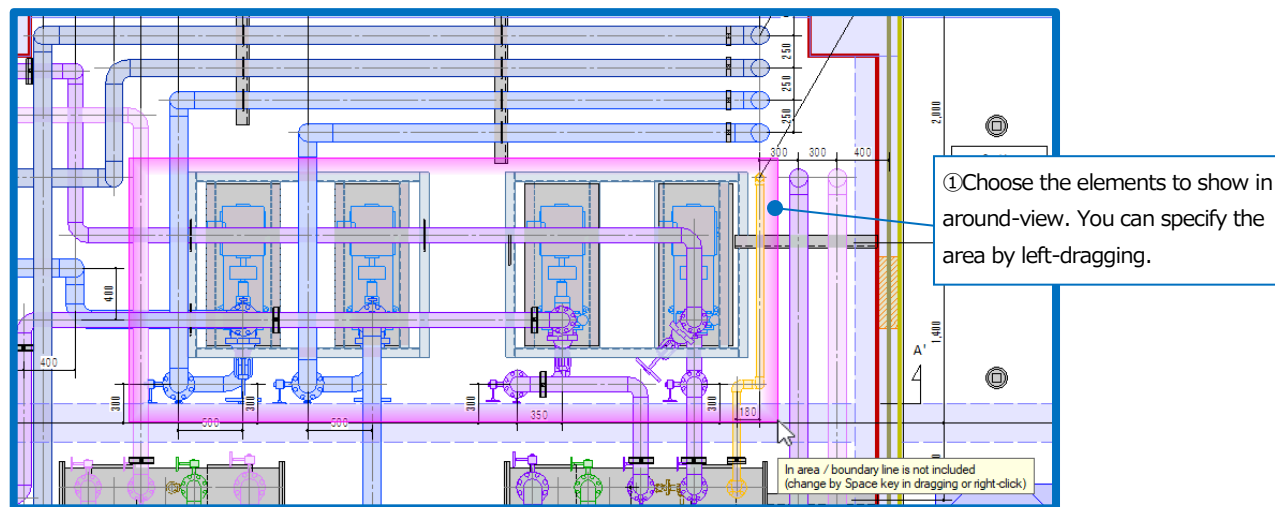
As for property panels

You can check attributes of an element.

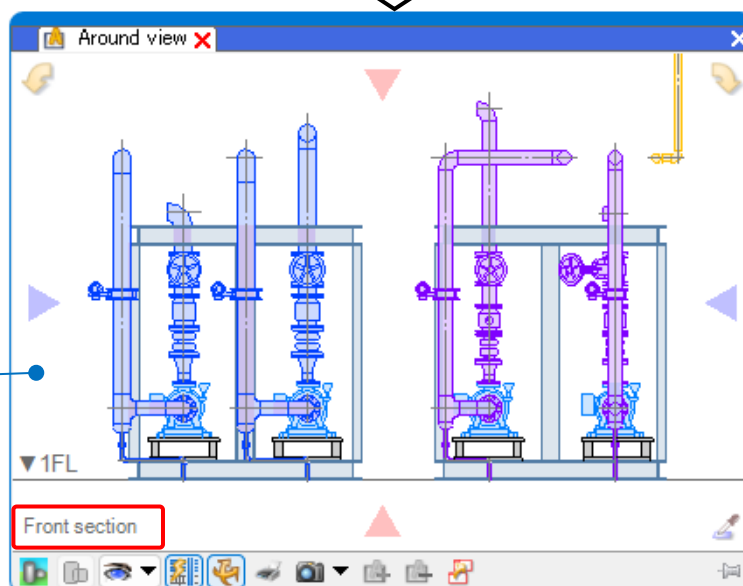


As for around-view

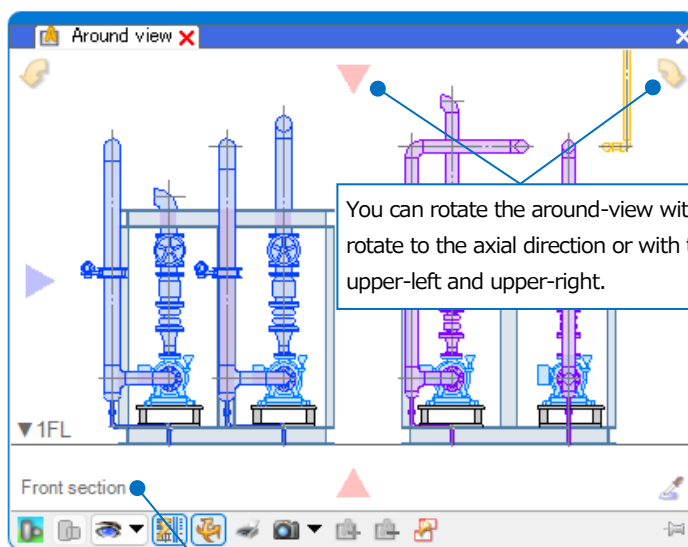
You can show the chosen elements from another direction.



③ An around-view in the specified direction appears.










You can switch the viewpoints in around-view.








Back left	Back	Back right	<input checked="" type="radio"/> Look down
Left	Plane	Right	<input type="radio"/> Look up
Left front	Front	Right front	<input type="radio"/> Isometric view
Angle appointment			
<input checked="" type="checkbox"/> azimuth angle of reference			0°

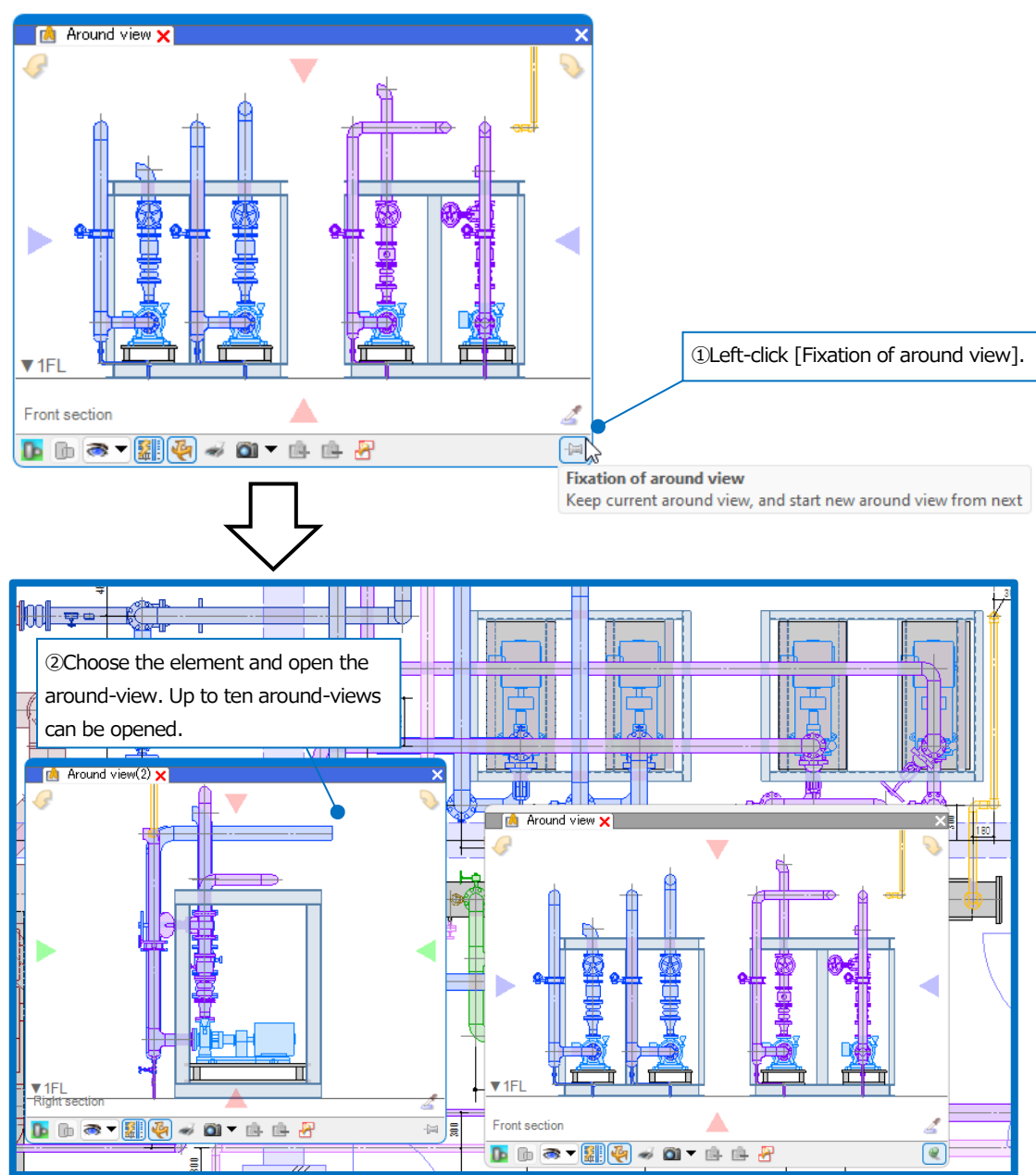
Specify the direction to show. If you specify "Angle appointment", you can specify any azimuth and elevation angles.

You can change the viewpoint based on the azimuth set in [azimuth angle of reference]. It is automatically set according to the viewpoint of the view from which the element was selected when starting the around view.

	Left-click a pipette button and choose a line on the drawing to change the viewpoint according to the line angle.
	Switch around-view to CG display.
	Change transparency of CG display in around-view.
	<div> <div>  Display or hide of element </div> <div> Display additionally <input type="checkbox"/> Only in a view <input type="checkbox"/> Across all floor plane-view </div> <div> Additional line <input type="checkbox"/> Indication of the grid Setting <input checked="" type="checkbox"/> Grid line <input checked="" type="checkbox"/> Floor line </div> <div> Single line/Double line <input type="radio"/> Double line indication <input type="radio"/> Single line indication <input checked="" type="radio"/> As original </div> </div> <div> <p>Switch the expression of around-view.</p> <p>[Display or hide of element]: You can set up display or hide for each element type, and settings of CG transparency for around-view.</p> <p>[Display additionally]: You can switch display or hide for elements Only in a view or Across all floor plane-view.</p> <p>[Additional line]: You can switch display or hide for Indication of the grid, Grid line, or Floor line.</p> <p>[Single line/Double line]: You can switch between single-lines and double-lines in around-view.</p> </div>
	Switch the automatic hidden line between on and off.
	In the ON state, right-drag a mouse to turn the around-view. Choosing an element allows you to turn the around-view around the chosen element.

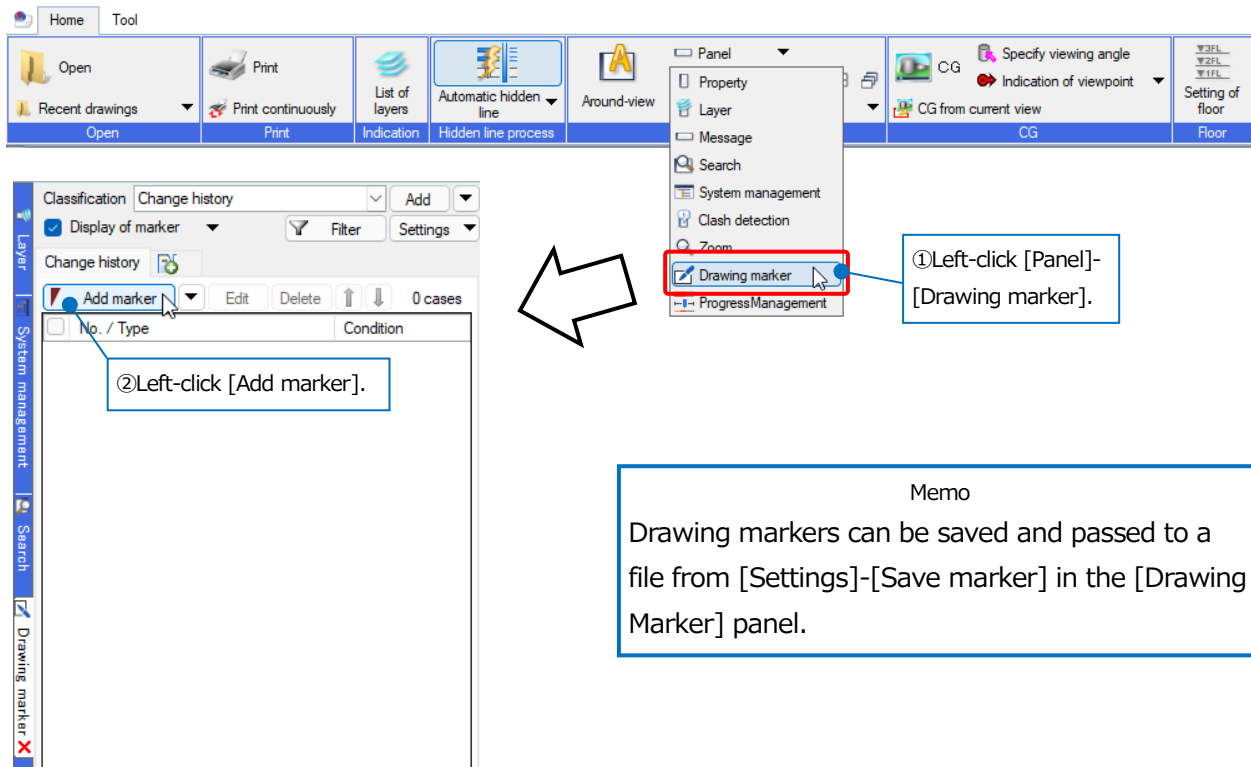
	Print the around-view.
	Save the image as an image file. [Save in file]: You can save the images into BMP, JPEG, GIF, TIFF, and PNG image format. [Save in clipboard]: You can paste the images onto Word or Excel. [Send by email]: You can send the saved images by e-mail. Left-click [Setting of email sending point] to enter an email address, subject, and main text. [Setting the resolution]: You can set the resolution for a captured image.
	Display additionally the selected element on the current around-view.
	Hide the selected element on the current around-view.
	Start an around-view in the same state of display.

You can start multiple around-views.

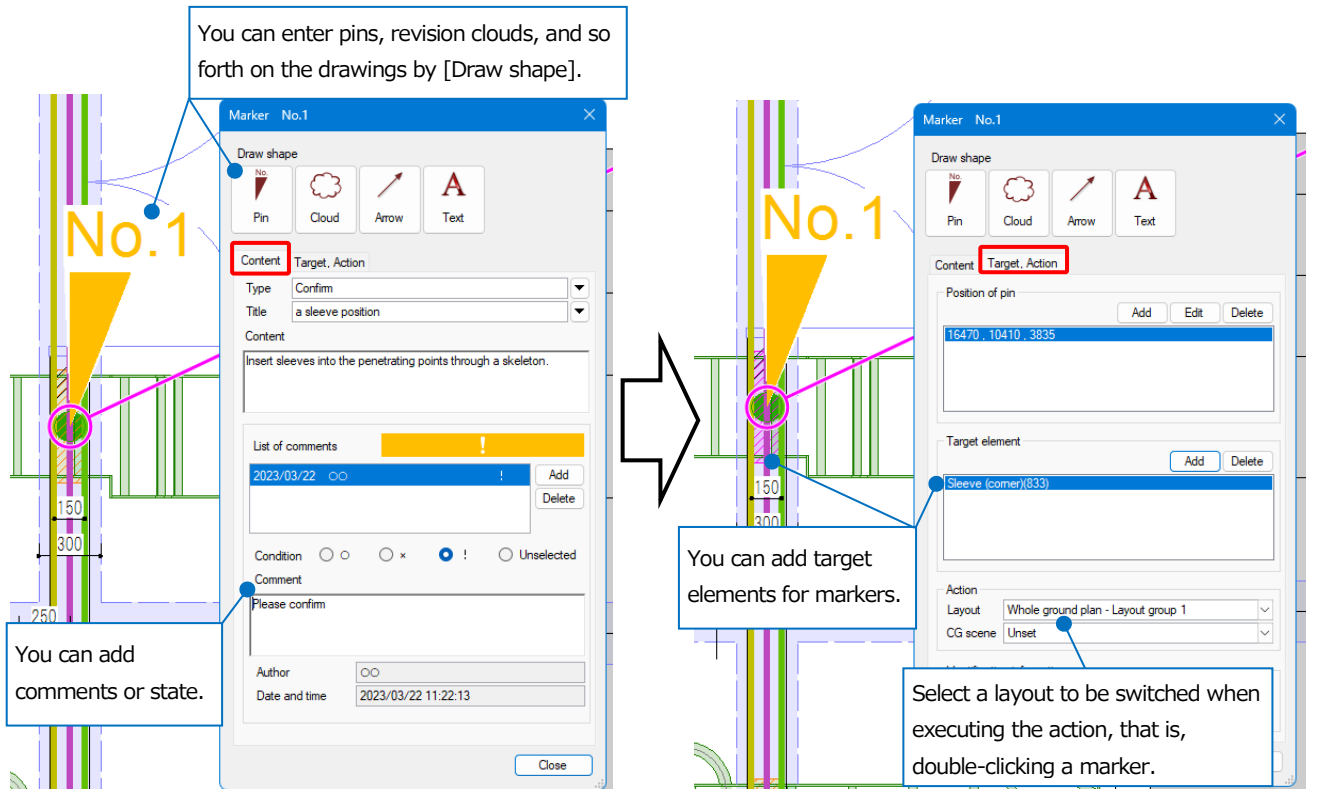


Drawing marker

You can add, edit, delete, etc., markers on the drawing. Shapes can be entered for each marker to annotate the drawing, and comments can be added to write instructions.

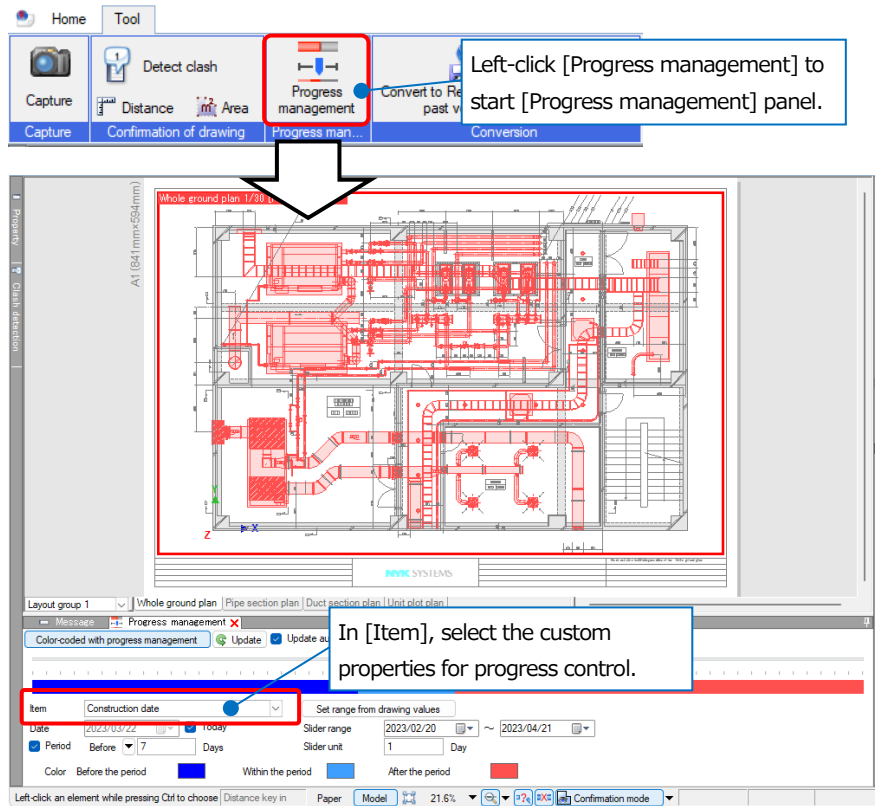


[Marker] dialog box appears, allowing you to enter shapes on the drawing, as well as marker titles, descriptions, and comments. When you switch to [Target, Action] tab and add target elements of the marker, Rebros can also rubber-display target elements of the selected marker.

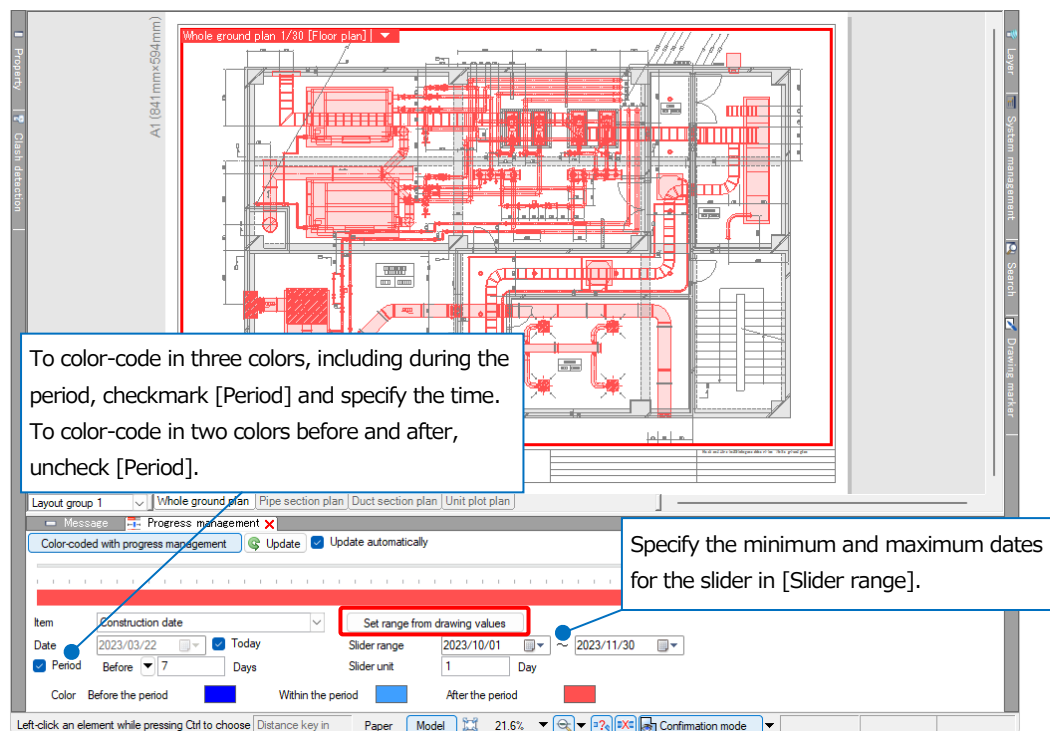


Progress management

When you open a drawing with a construction date (date) set as custom properties, Rebro can color-code and show it before the reference date or after; or before the period, during, or after.



Decide on [Period] or [Slider range] to be checked in progress control. When you left-click [Set range from drawing values], Rebro gets the date set in [Item] on the whole drawing; and sets again the minimum value to the slider's start date and the maximum value to the end value.



In [Date], enter a date that will be the reference for progress management. When you turn on [Color-coded with progress management], all elements are color-coded according to the specified date. Checkmark [Update automatically] and move a slider to update the date and the color-coding on the drawing automatically.

Elements on the drawing are color-coded based on progress control settings.

If [Today] is unchecked, you can enter a reference date for progress management in [Date].

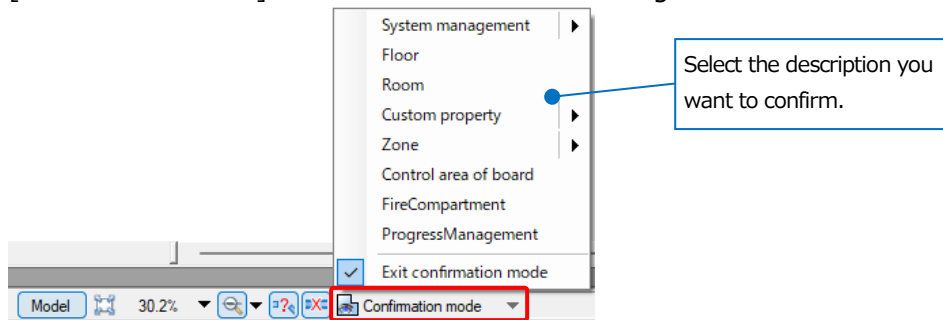
When you turn on [Color-coded with progress management], Rebro enables [Confirmation mode]-[Progress management] and color-codes the elements. ※See also page 14 for "Confirmation mode".

If you checkmark [Update automatically], Rebro automatically updates the color-coding of a confirmation mode on the drawing when progress management settings are changed. If you uncheck it, manually press [Update] to update the color-coding for a confirmation mode on the drawing.

As you move the slider, the date is updated and the color-coding is also updated.

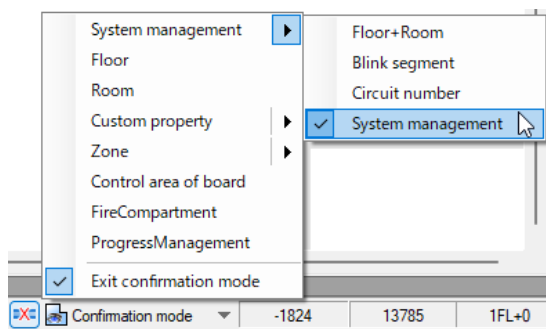
As for confirmation mode

In the case that System management, Room, Custom property, etc. are set, you can left-click [Confirmation mode] to color-code and show drawings or CGs.

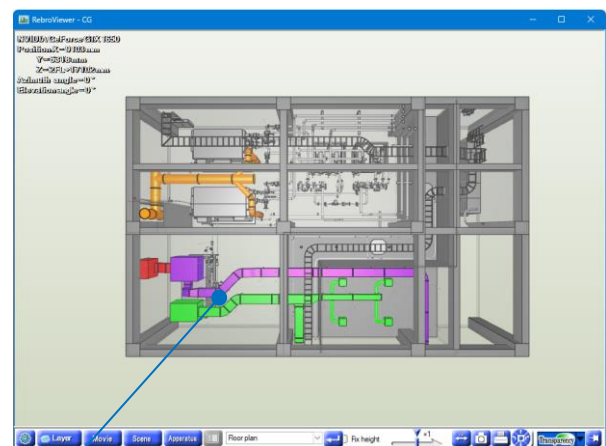
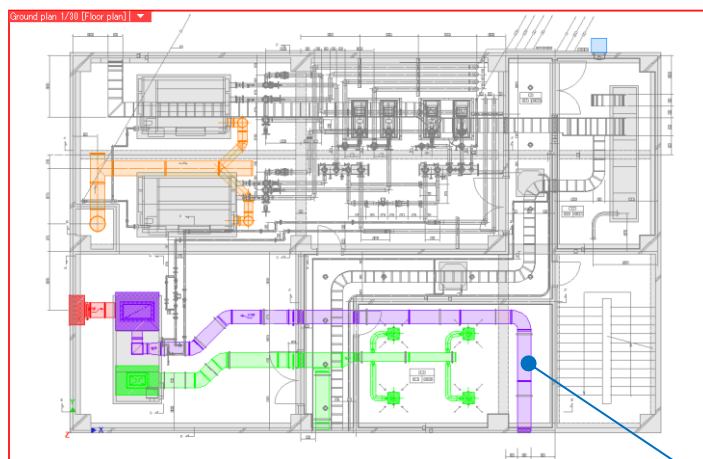


For Color-coding, Custom property, Zone type, etc., confirm at "▼" next to the "Confirmation mode" icon. To exit a confirmation mode and return to the original colors, left-click [Confirmation mode]-[Exit confirmation mode].

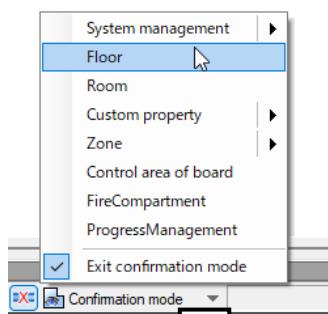
Confirm system management










Color coding	
■	Supply air/Duct
■	Supply air/Elbow
■	Supply air/Air terminal
■	Outside air/Duct
■	Outside air/Elbow
■	Outside air/Air terminal
■	Return air/Duct

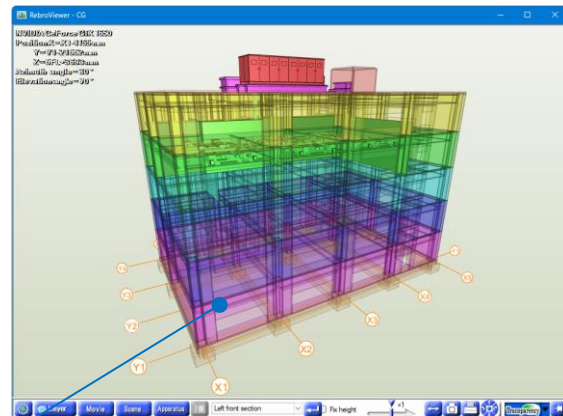
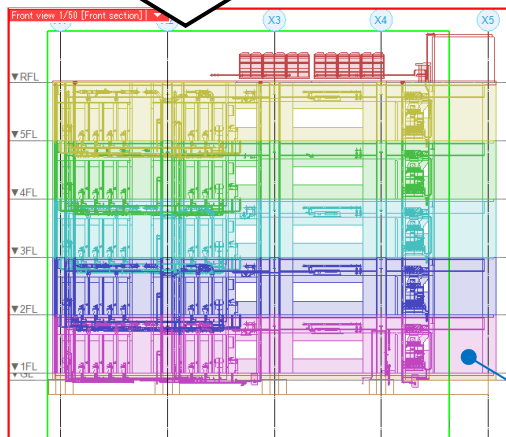


Confirm each floor



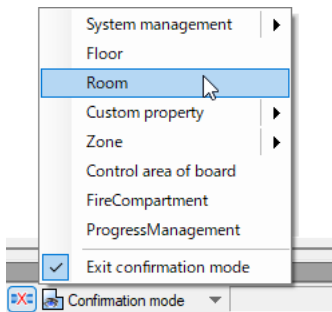
Color-code each floor.





Color coding	
	RFL
	5FL
	4FL
	3FL
	2FL
	1FL
	GL

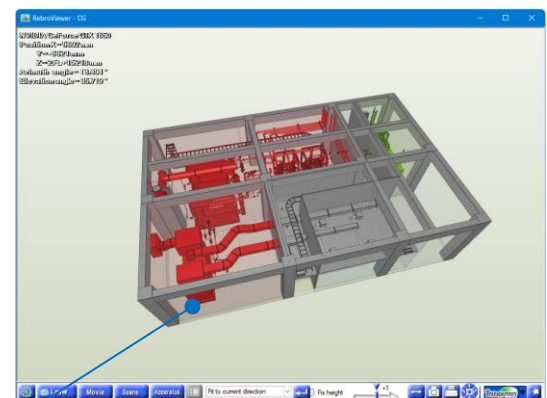
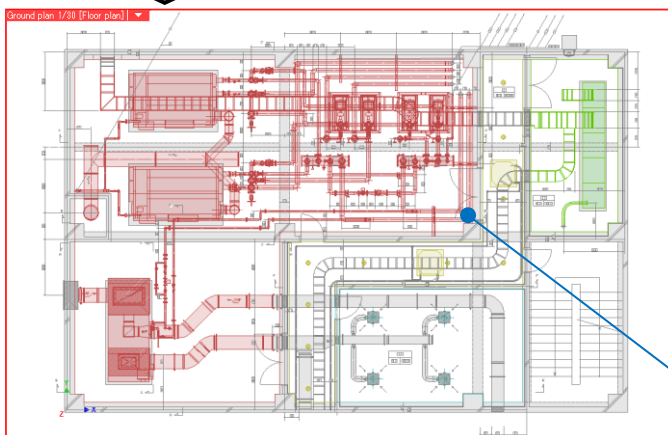


Elements will be colored for each reference floor.

Confirm each room

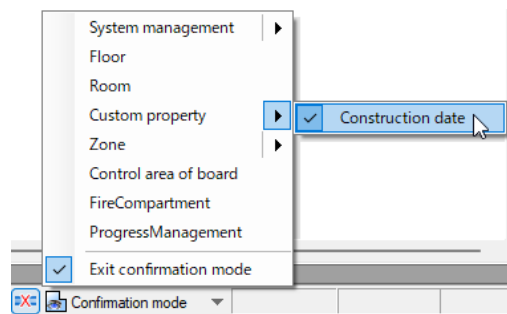


Color coding	
	Air conditioning machine room
	Locker room
	Electric room
	Corridor

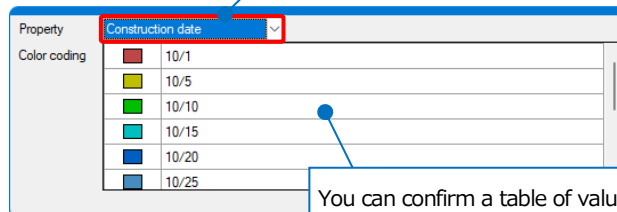


Each room that is set will have a color.

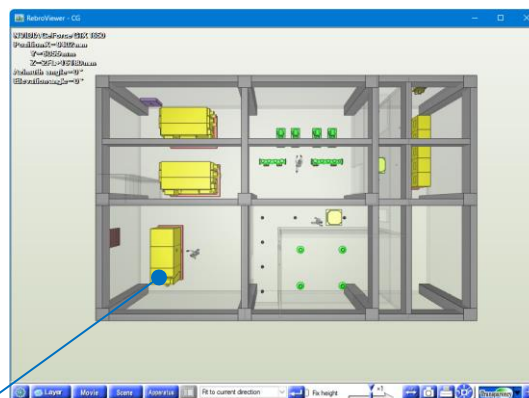
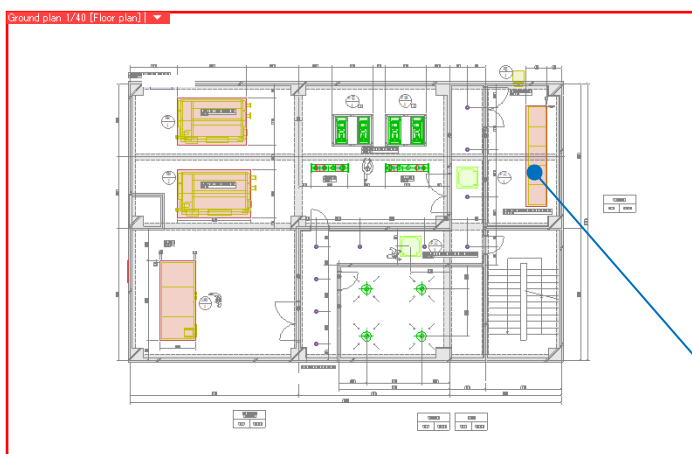
Confirm custom property



Select the property. The display is color-coded for each description of the property.

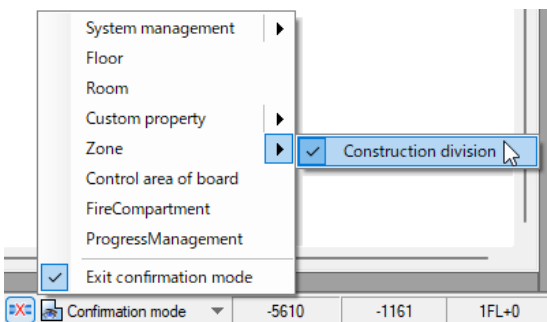


You can confirm a table of values and colors that are set for the property.

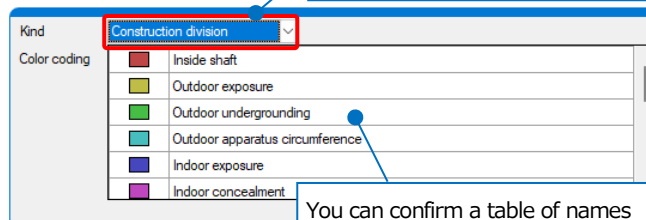


The element for which you set custom properties will be colored.

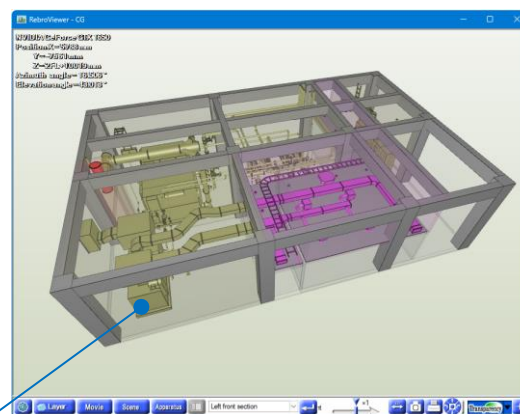
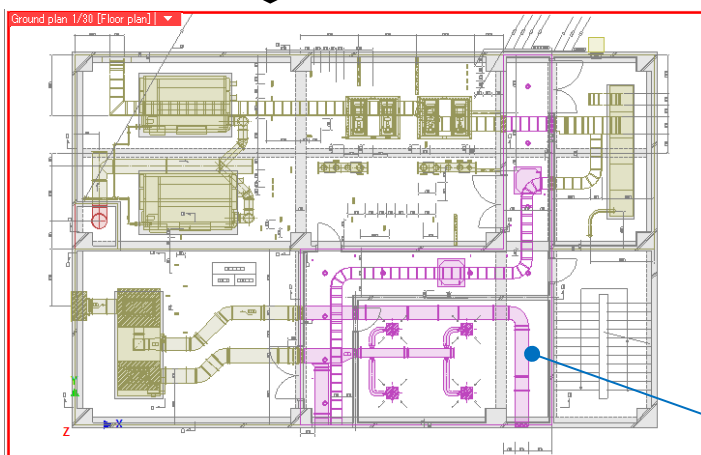
Confirm each zone



Select one in the types you set. Each type will be color-coded.

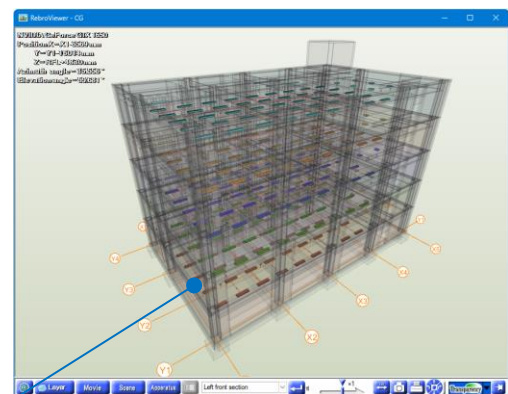
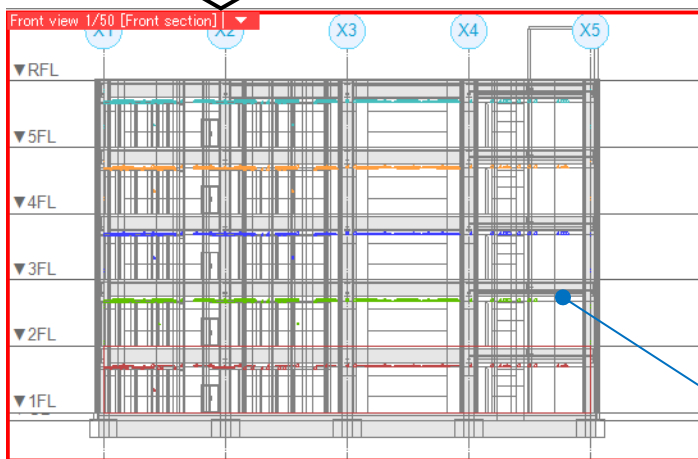
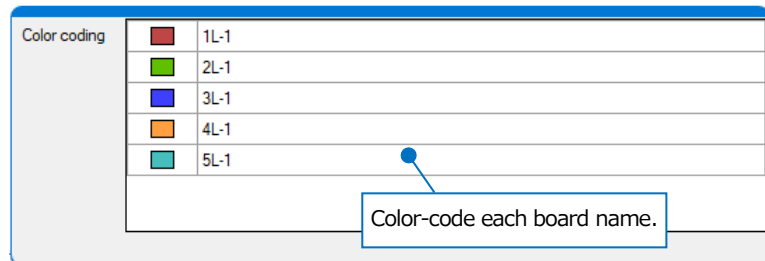
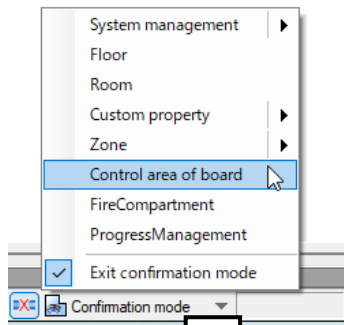


You can confirm a table of names and colors that are set for the zone.

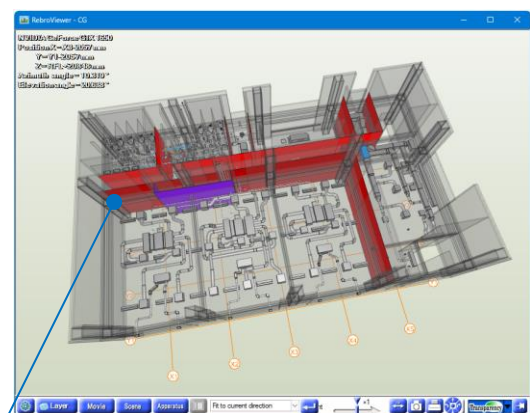
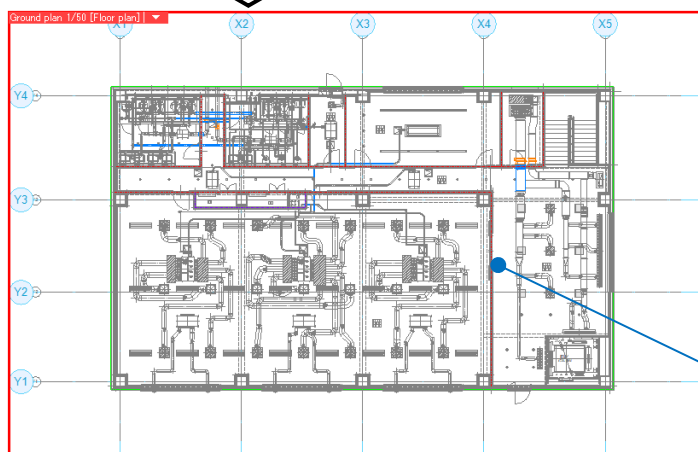
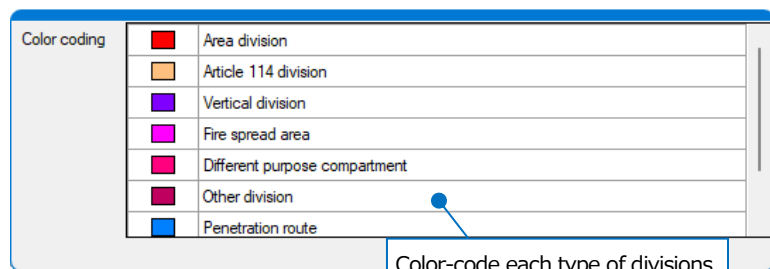
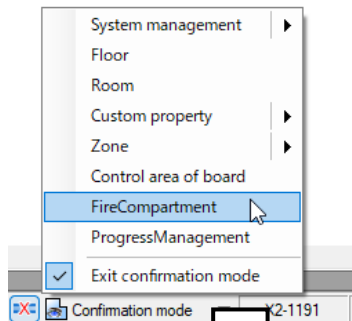


Elements will be colored in each zone.

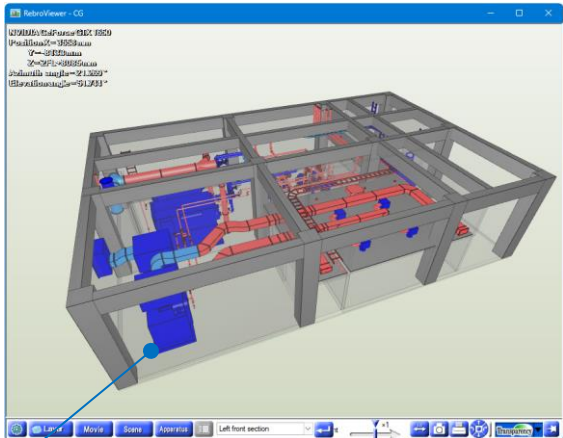
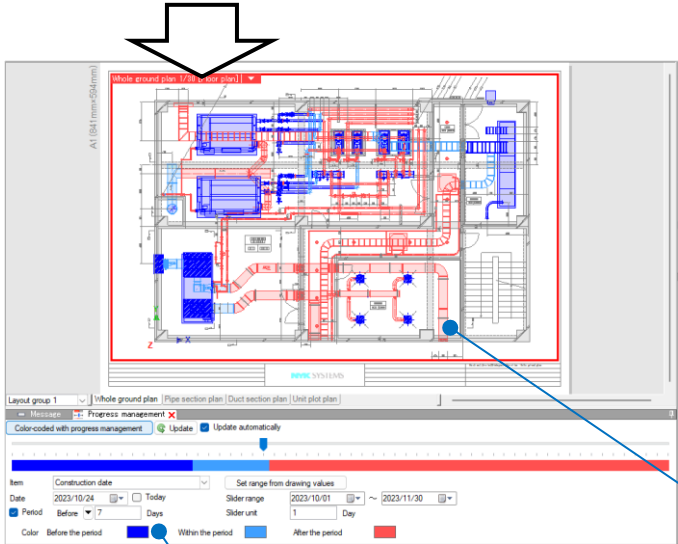
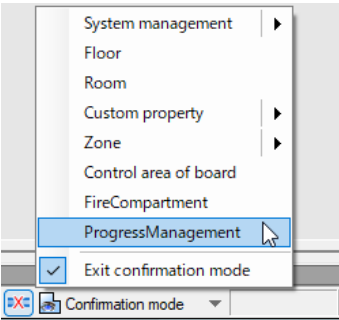
Confirm control area of board



Check fire compartment

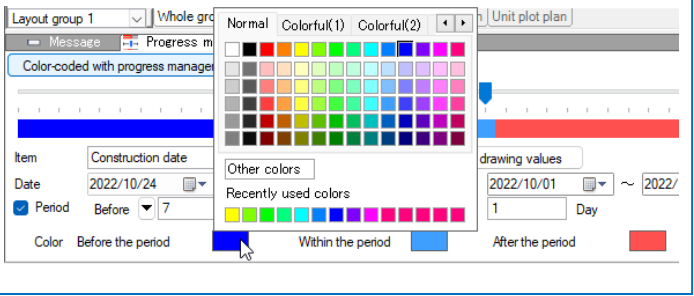


Confirm progress management



Elements of the selected item in progress management are colored.

Elements are color-coded and shown according to the settings on a [Progress management] panel. Left-click a rectangle in the area where the color is shown to change the color.



How to detect clashes

You can confirm the clash detection results by opening the drawing for which Rebro detected clashes.

Left-click [Detect clash] to open [Clash detection] panel.

Balloons of the appropriate color appear at the points of clash or lack of separation. Left-click the clash number on the panel to change the balloon color with the same number.

[Clash detection] panel

Need to execute detect clash and editing / output (Excel*CG) of detect clash result in Rebro.

Position of interference List of exclusion

Number of shown clashes (19) / The number of clashes (19)

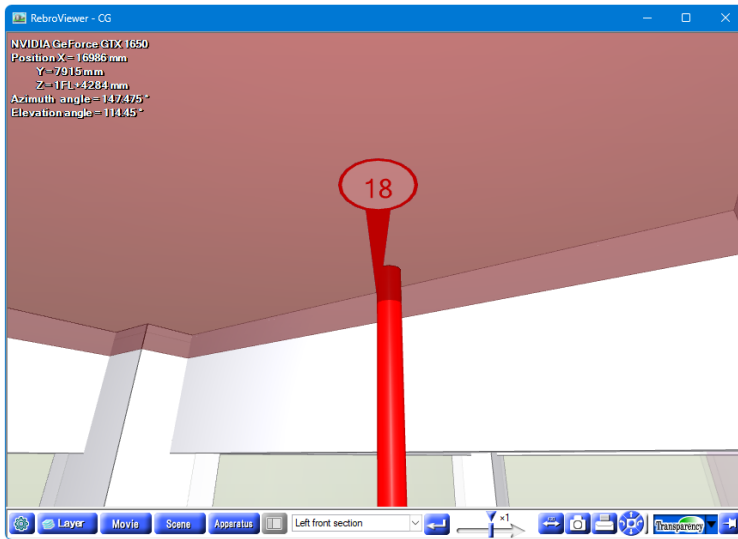
Filter

NO.	Element name	Element name	Contents	X	Y	Z	The quantity of clashes (upper)	The quantity of clashes (lower)
1	City gas Pipe 80A	Beam 350x700H	Lack of Separation	350	7825	1FL+4139		
2	City gas Pipe 80A	Floor 150H	Clash	394	7833	2FL+0	1723	150
3	Smoke control D...	Smoke control D...	Clash	4990	9149	1FL+3870	284	284
4	Smoke control D...	Smoke control D...	Clash	4990	8768	1FL+3864	378	378
5	Smoke control D...	Smoke control D...	Clash	5196	8943	1FL+3732	263	263
6	Smoke control D...	Smoke control D...	Clash	5275	8744	1FL+3942	419	419
7	Smoke control D...	Smoke control D...	Clash	5275	9156	1FL+3658	412	412
8	Cooling water (ret...	Fitting for pipe fab...	Clash	6007	11287	1FL+2149	38	2
9	Cooling water (su...	Floor 150H	Clash	13849	11949	2FL+0	1304	151
10	Expansion pipe (a...	Floor 150H	Clash	13830	11302	2FL+0	1373	151
11	Cooling water (su...	Floor 150H	Clash	13849	11699	2FL+0	1240	151
12	Cool and warm w...	Floor 150H	Clash	14149	11251	2FL+0	1264	151
13	Cooling water (ret...	Floor 150H	Clash	13849	12101	2FL+0	1304	151
14	Cooling water (ret...	Beam 350x700H	Lack of Separation	13800	12400	1FL+4348		
15	Cooling water (ret...	Floor 150H	Clash	13849	12351	2FL+0	1304	151
16	Cool and warm w...	Beam 350x700H	Lack of Separation	14400	11300	1FL+4368		
17	Cool and warm w...	Floor 150H	Clash	14449	11349	2FL+0	1264	151
18	Thick conduit pip...	Floor 150H	Clash	17821	6590	2FL+0	1646	150
19	Cable rack 400x70	Floor 150H	Clash	17795	11260	2FL+0	1331	151

On the drawing, switch between balloon shapes, or Indication/Hide for the points of clash or lack of separation.

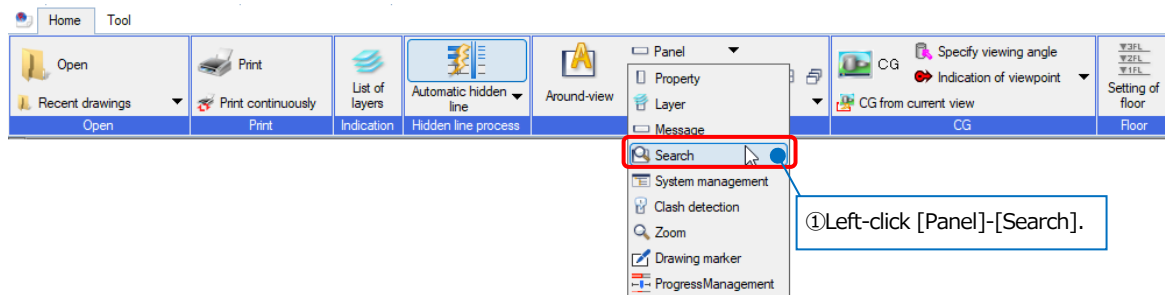
Left-click the list to check the quantity of clashes at the clash points.

When you double left-click the table or balloon, CG screen appears and brings the viewpoint close to the clash point.

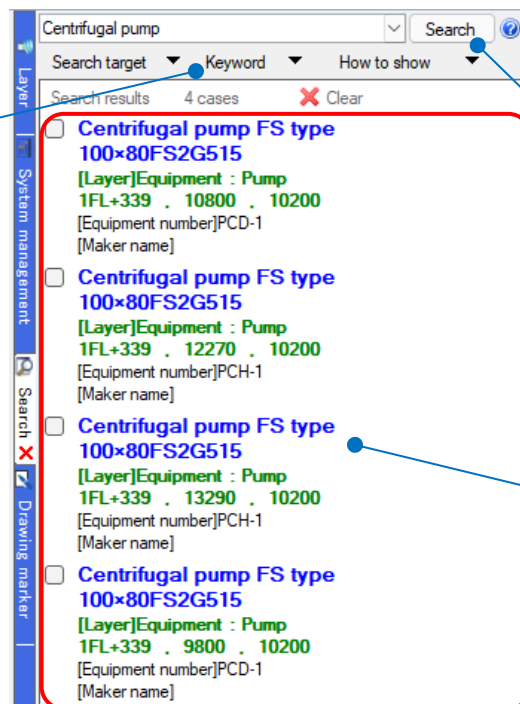
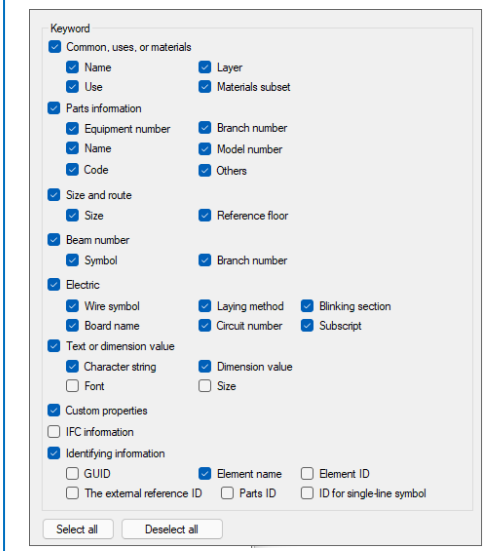


How to search for characters and so on

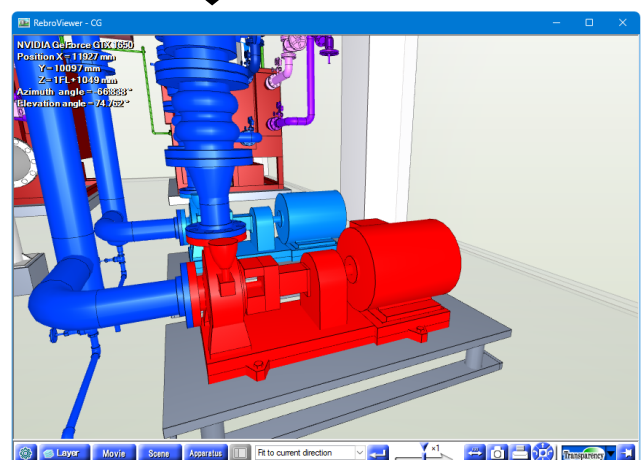
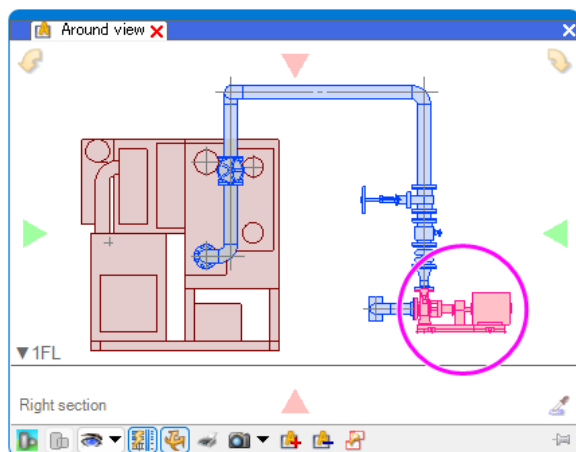
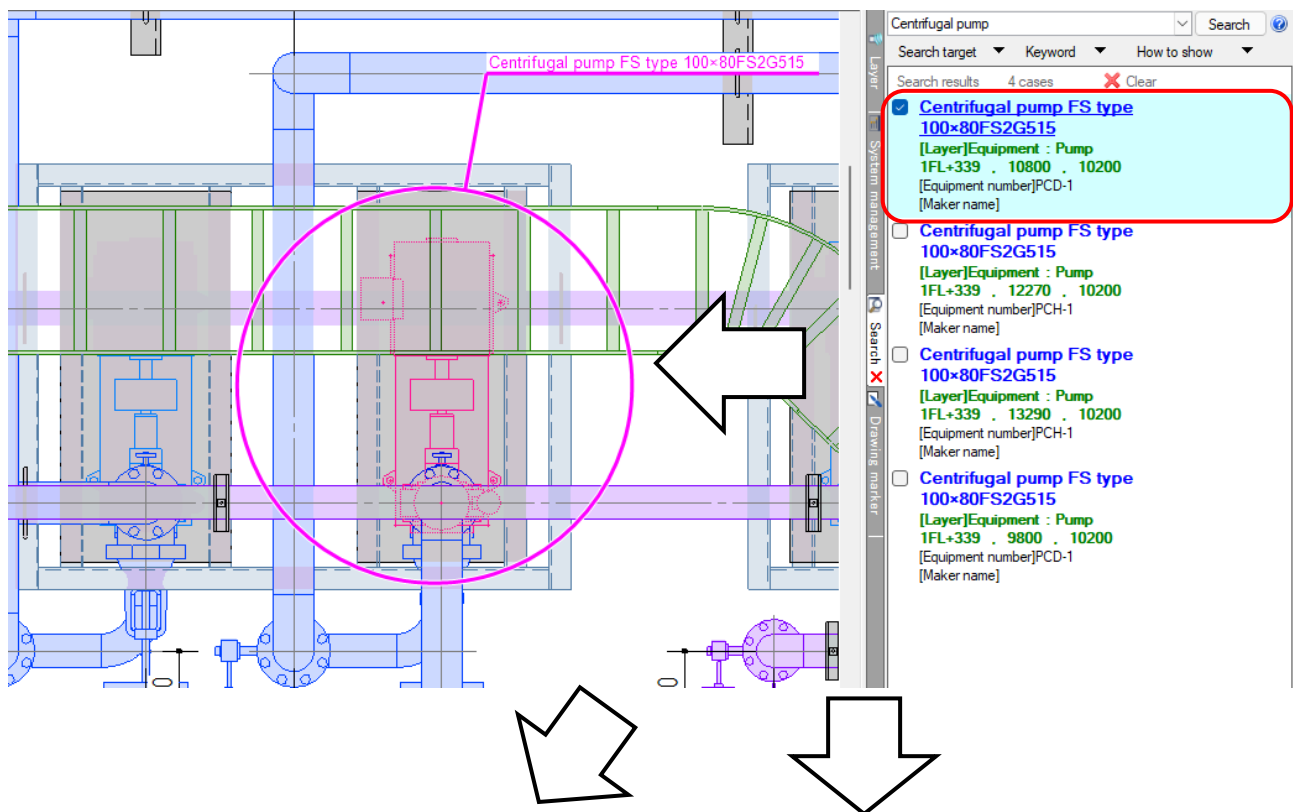
By entering keywords, you can search for characters, parts and so forth on the drawing.



Narrow down keywords for property descriptions.

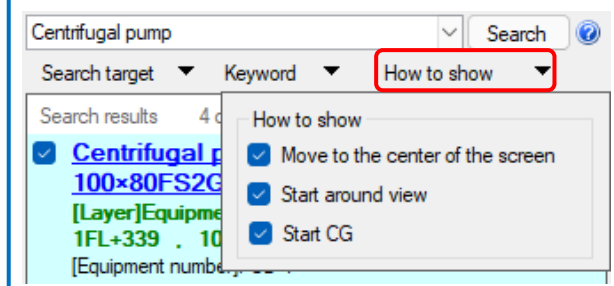


If you select the part from the search results, you can confirm the part on a drawing, around-view, or CG.



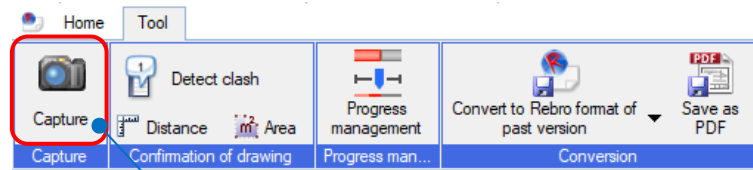
Memo

Left-click [How to show] to select whether to display or hide CG or around-view, when you select a search result list.



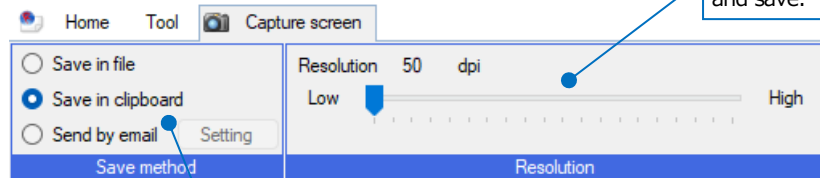
How to capture images

You can save a specified area on Rebro screen as an image.



①Left-click [Capture].

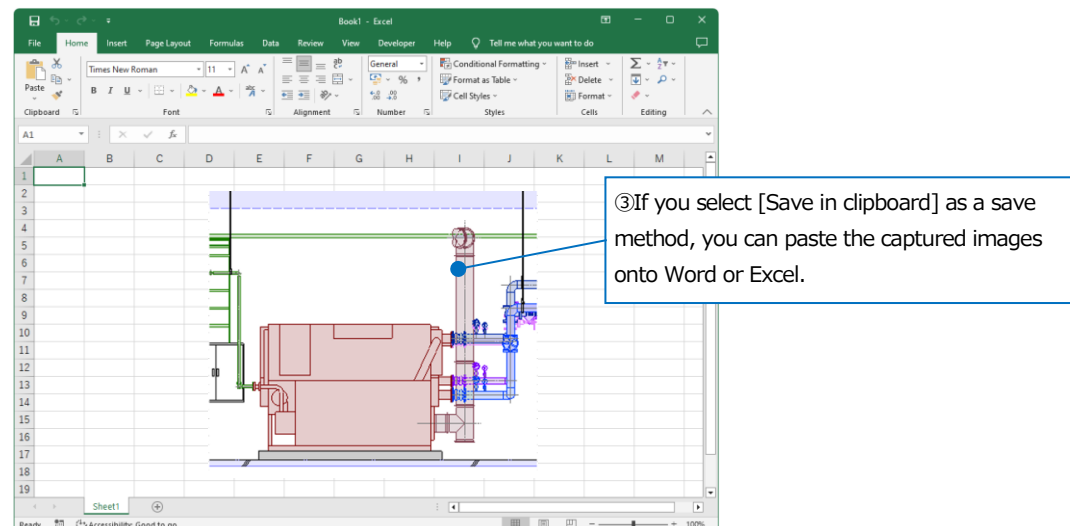
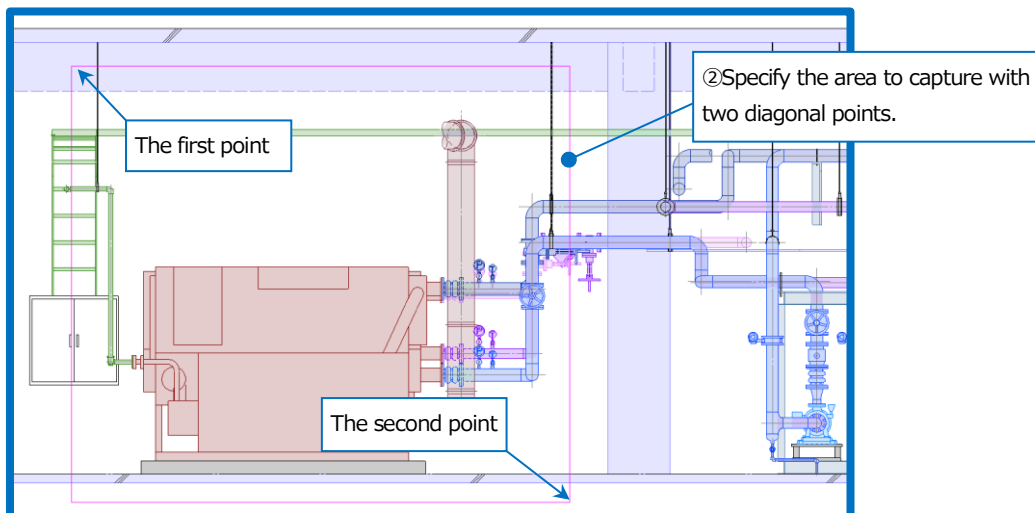
You can set the resolution and save.



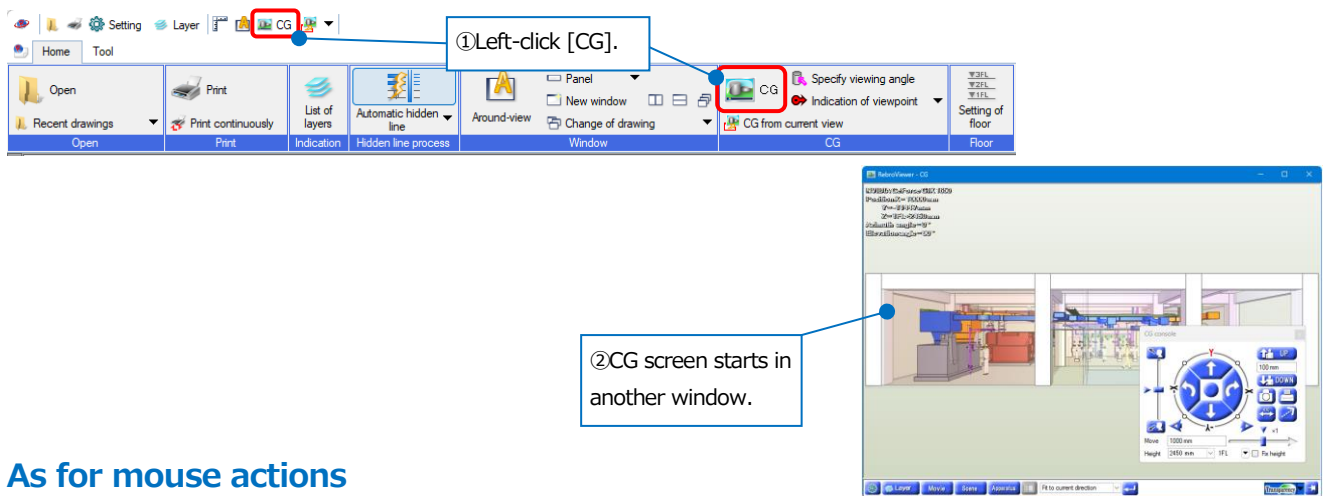
[Save in file]: You can save the images into BMP, JPEG, GIF, TIFF, and PNG image formats. Also, you can save into PDF file format.

[Save in clipboard]: You can paste the images onto Word or Excel.

[Send by email]: You can send the saved images by e-mail. Left-click [Setting] to enter an email address, subject, and main text.



4.CG





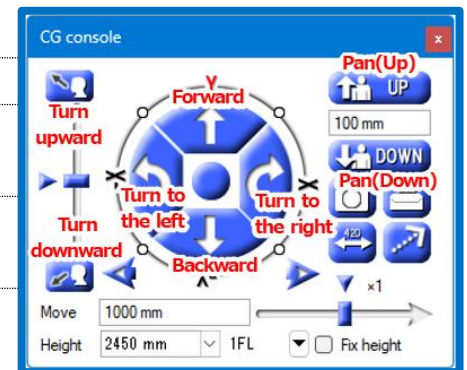
As for mouse actions

Wheel	Go forward or backward by rotating. Move the screen by dragging.
Left-drag	Turn the screen up, down, left, and right around the current position.
Right-drag	Rotate the screen around the position (on the element) where the mouse points.
Double left-click (sweeping)	Bring the viewpoint closer to the specified element.
Double right-click	Make the screen level.

Note: If you rotate the wheel while pressing Ctrl, the screen moves at twice the distance.

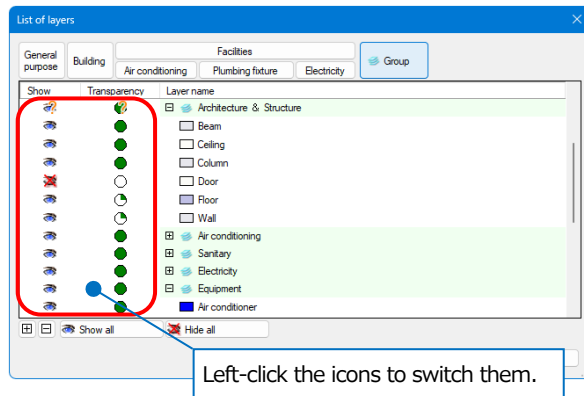
How to operate screens on a CG console panel

Forward or backward	Move the viewpoint forward or backward.
Turn to the left or turn to the right	Turn the viewpoint to the left or right.
Turn upward or turn downward	Turn the viewpoint upward or downward.
Slider handle 	Adjust the speed and quantity of movement when moving on the screen.
Move	Specify a moving distance. Set the distance at a pitch of one-click for moving forward or backward.
Pan (Up) or (Down)	Move the viewpoint up or down at the input value.
Pan (Left) or (Right) 	Move the viewpoint to the left or right.
Height	Select the floor name and enter the viewpoint height directly to move the screen.
Fix height	Checkmark in the box, to fix the current height and move the screen forward, backward, left, or right.




As for layers

On CG screens, you can set up Indication/Non-indication layers and layers transparency.



Left-click [Show] icon to switch the settings.



 Indication

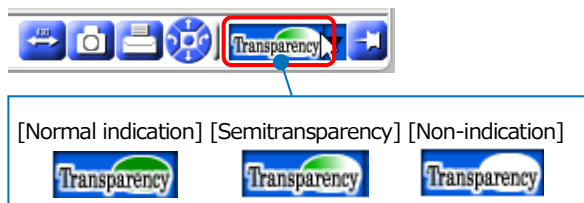
 Non-indication

[Transparency] can be changed by left-clicking the icon.

As the white ratio increases, the transparency increases.



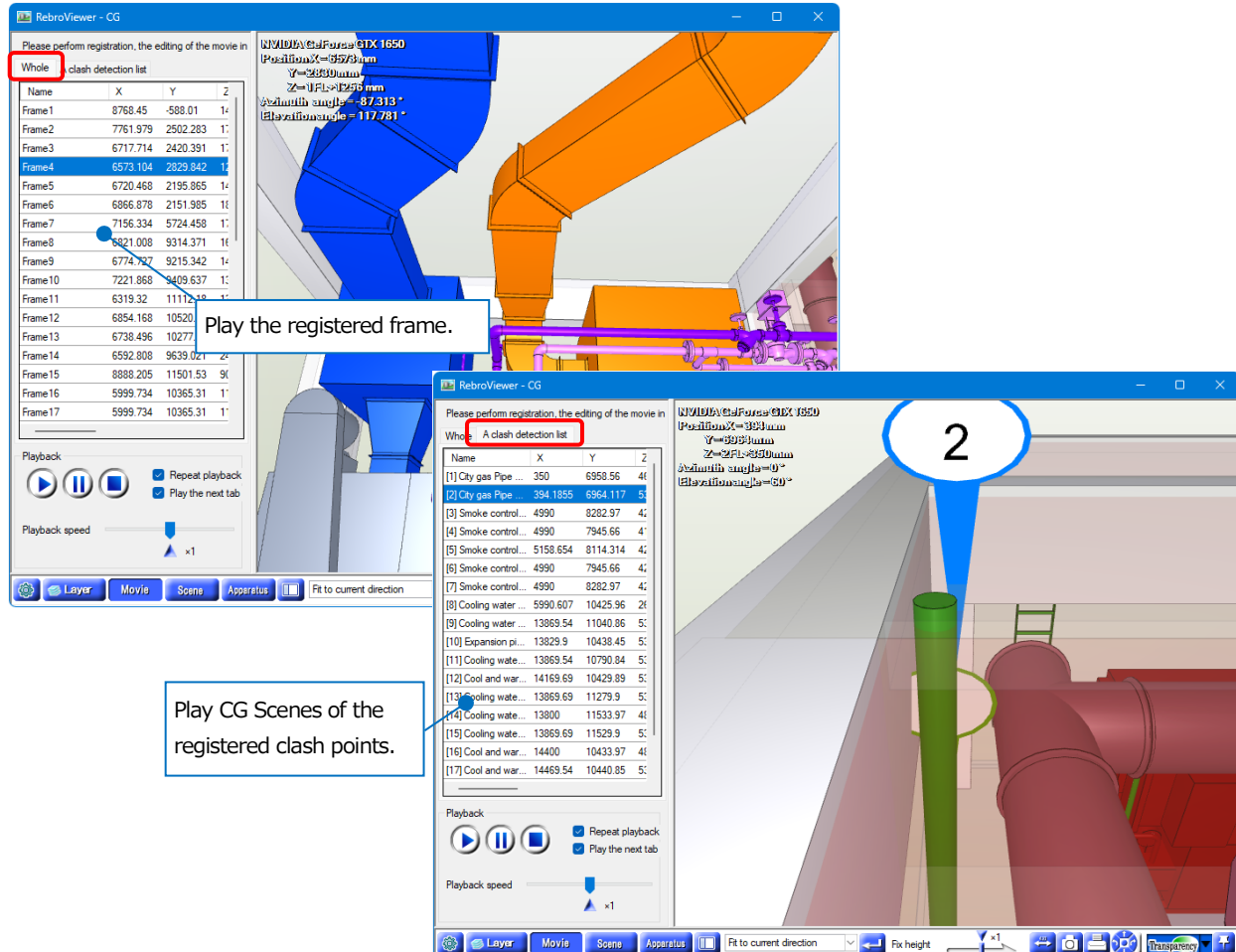
When Non-indication  is left-clicked, the transparency icon will be .



When you left-click [Transparency], you can switch between [Normal indication], [Semitransparency], or [Non-indication] for the layer that is set to semitransparent in [List of layers].

As for a movie

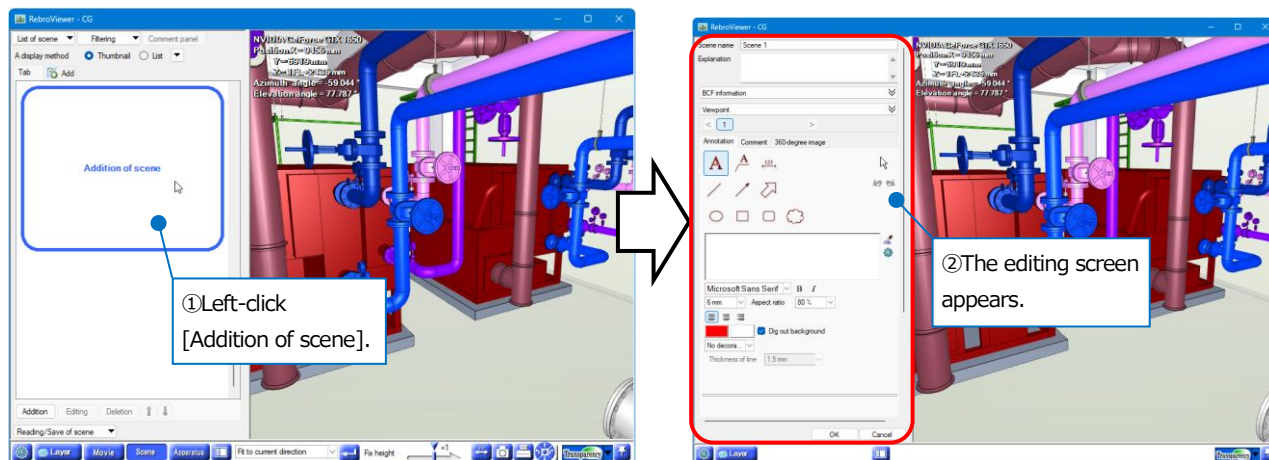
You can play movies created with Rebro, or [CG movie output] output with [Clash detection].



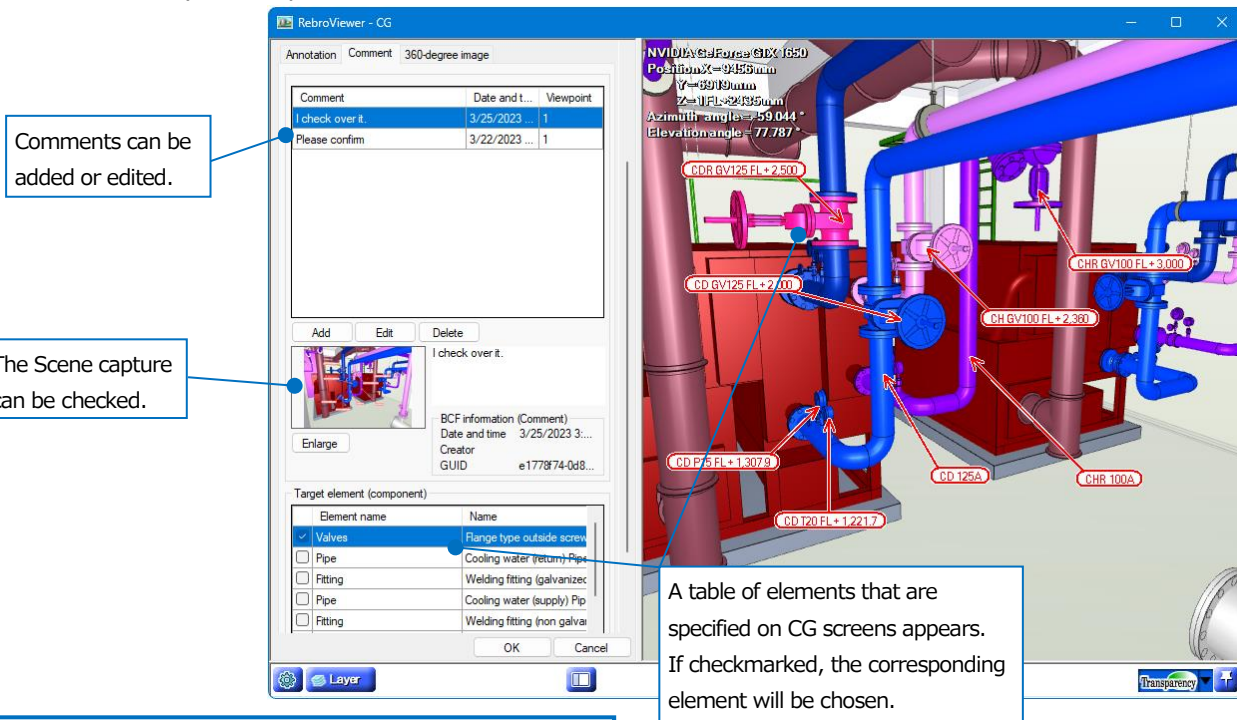
As for Scenes

You can register the currently shown CG screen as Scene, and fill out with characters, dimension lines, or figures on it by using [Annotation] tab.

The registered Scene can be printed, saved, and also passed to Rebro.



Comments on Scene can be exchanged in [Comment] tab. You can also pass the data to Rebro, if you save or read in BCF, you can pass it to other CAD.

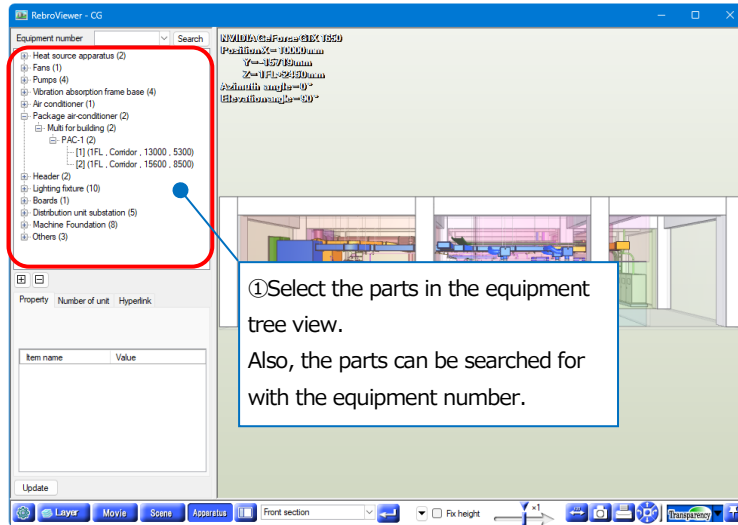


Memo

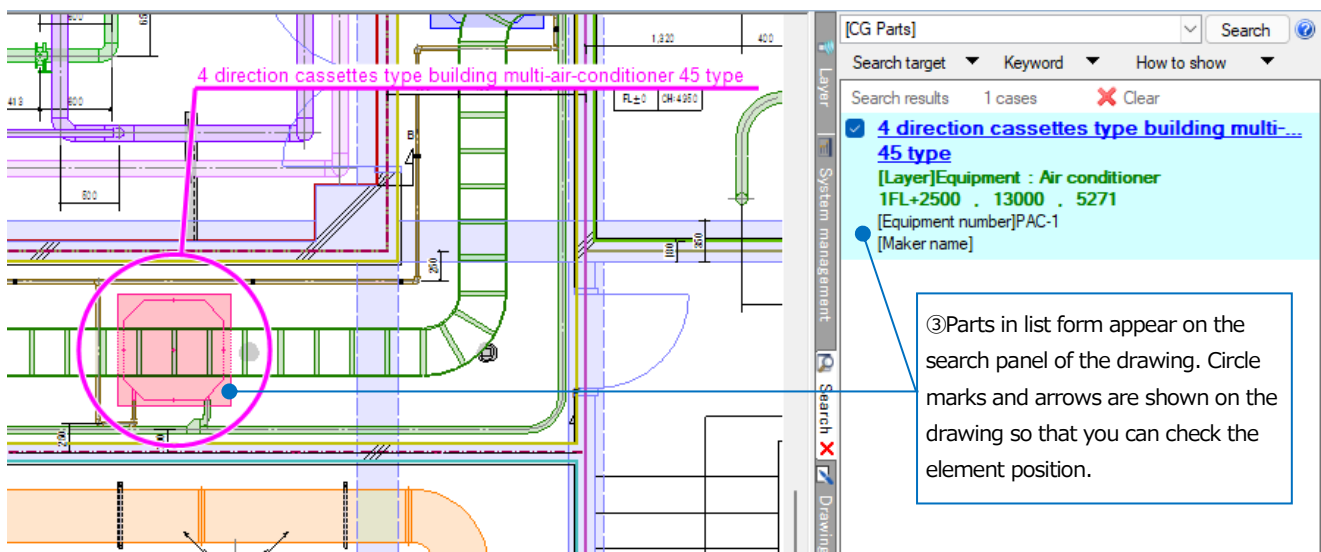
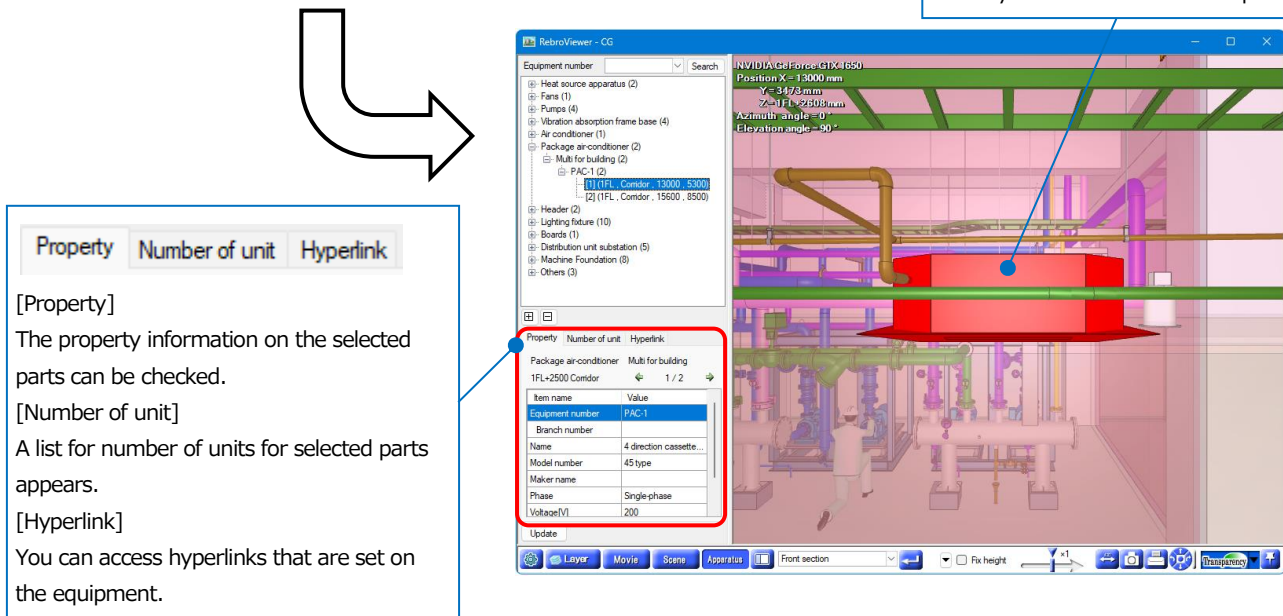
You can register up to 9 different viewpoint directions and contents in one scene from [Viewpoint].

As for equipment

You can check the position of placed parts on CGs or drawings.

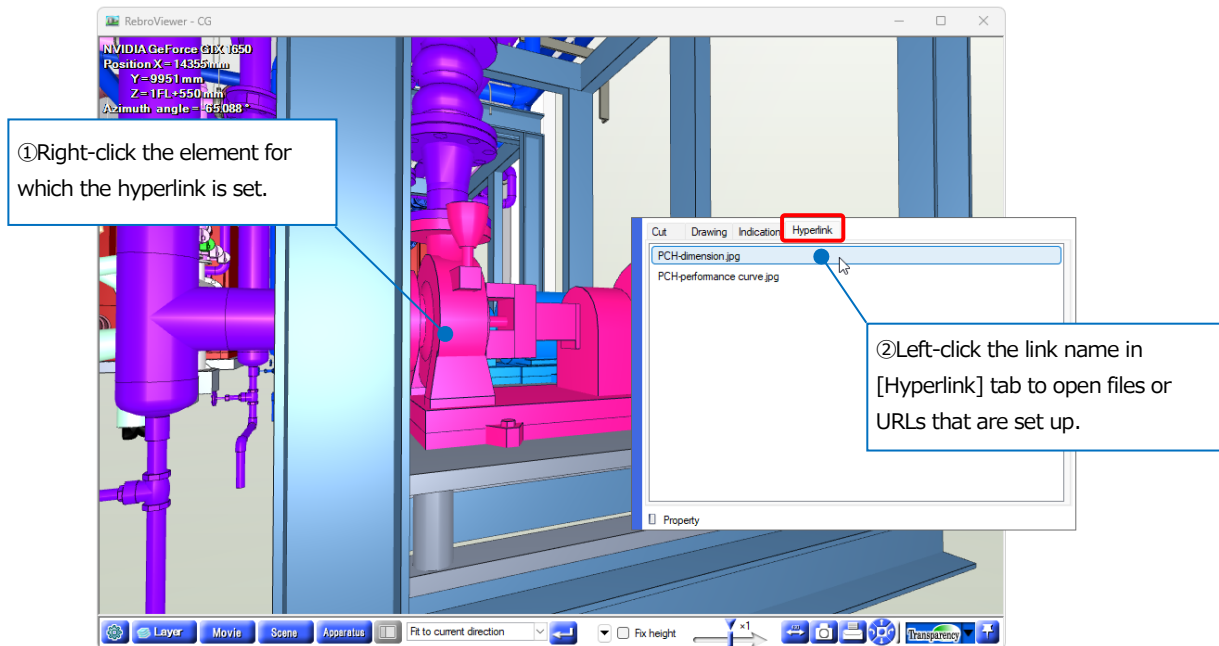


②The screen moves to the position where you can see the selected parts.



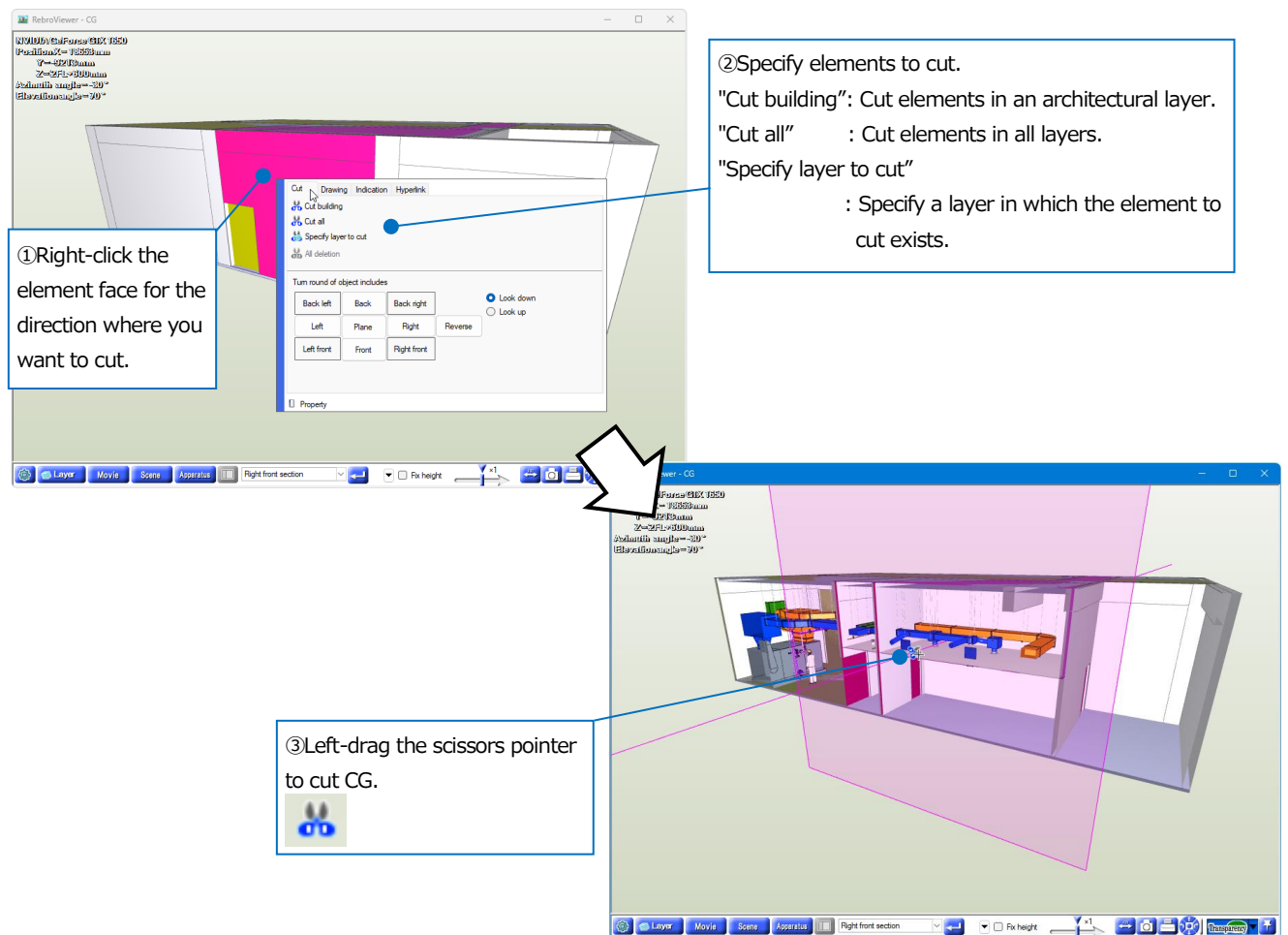
As for hyperlinks

On CG, you can refer to the linked files or URLs for the equipment that you set up hyperlinks.



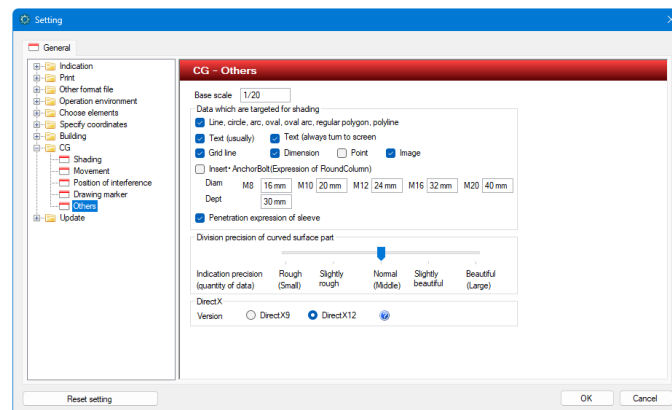
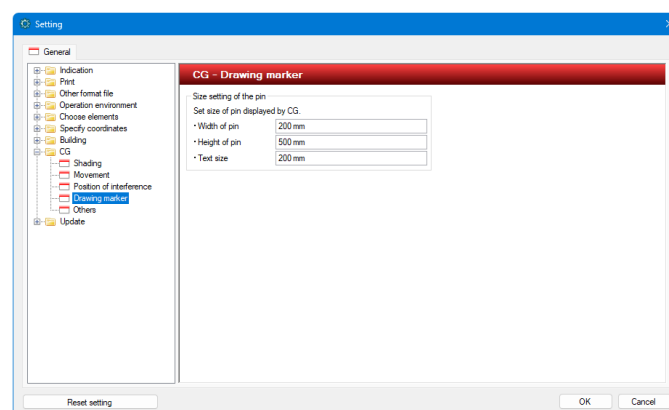
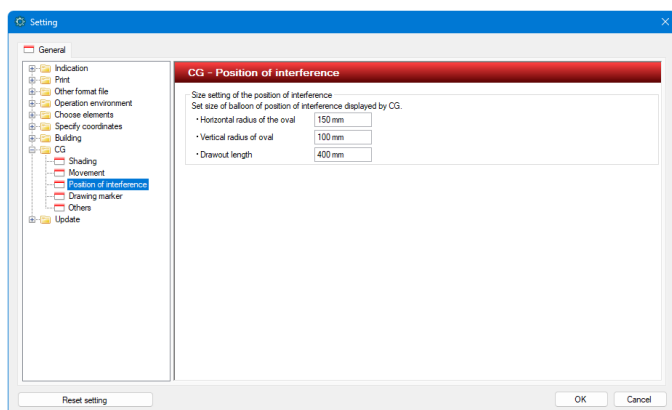
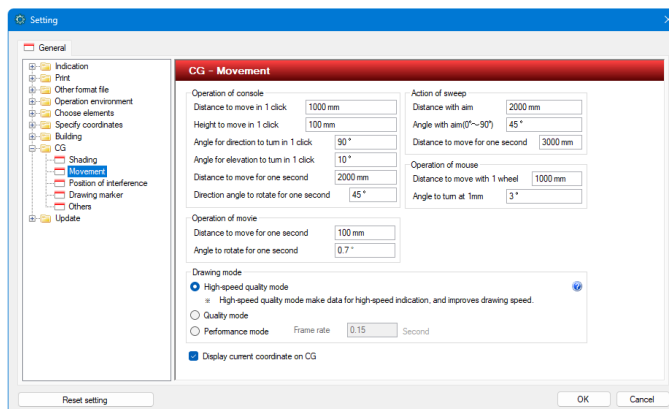
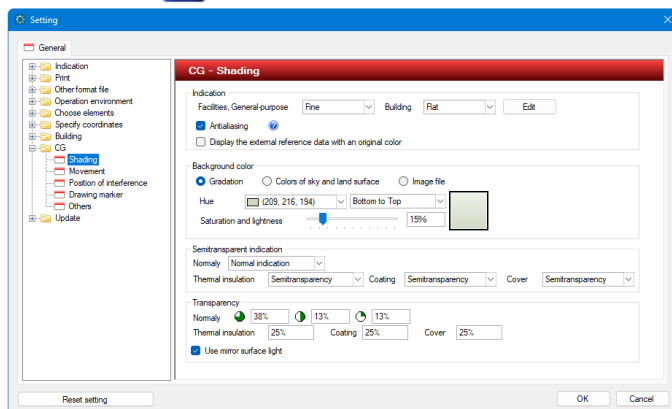
How to cut a cross section

You can cut a cross section of element on CG.



How to set up the displays and so on

In [Setting] , you can set up the indications and movements on CG screens.

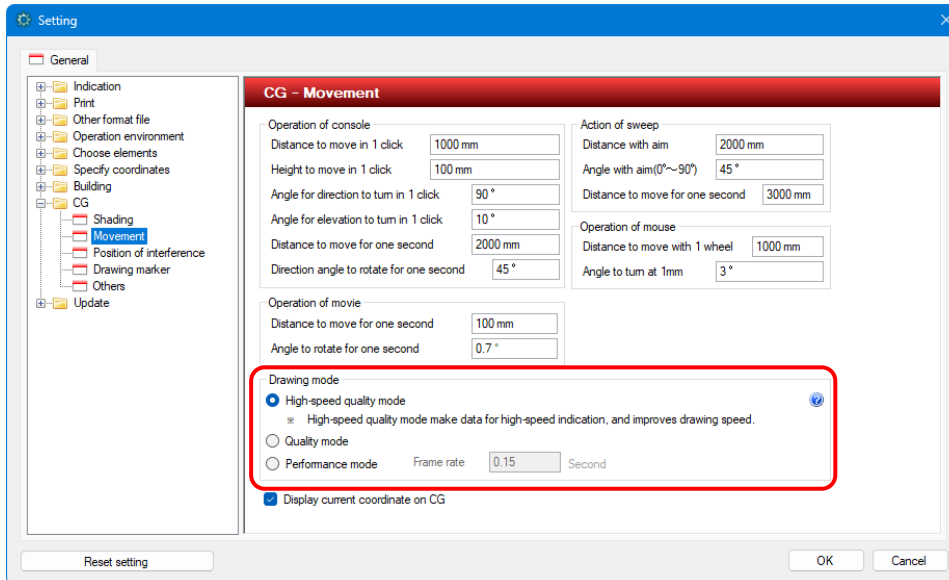


As for “Drawing mode”

“High-speed quality mode”: Move a screen even in the middle of drawing while keeping the image quality of Quality mode.

“Quality mode”: Move a screen after showing all elements.

“Performance mode”: Move a screen while drawing the screen.



5. Print

How to print

You can print Rebro drawings.

① Left-click [Print].

② Select a printer.

③ Select the print color and number of copies in [Output setting].
If you uncheck "Change line types or thickness according to the printing scale", Rebro prints the line types and thickness as specified when drawing, without reference to the printing scale.

④ Select the paper size and printing orientation in [Paper setting].

⑤ Select the enlargement ratio for the drawing in [Print scale].

⑥ Left-click [Print].

Select [Change of print area] to return to the drawing and specify the printing size and position with a mouse.

When printing, you can change the line thickness for each scale in [Pen setting]-[Thickness] tab.

When printing, you can change the print color for each element color in [Color] tab.

Printing line thicknesses per scale

Line thicknesses on the drawing

Colors on the drawing

Printing color

Thickn...	Remarks	1/10	1/20	1/30	1/50	1/100	1/200	1/300	1/400	1/500	1/600	1/601 ...
0.01mm	The thin...	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.05mm		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
0.07mm		0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
0.09mm		0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
0.10mm		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0.13mm		0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
0.15mm		0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
0.18mm		0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18

How to print continuously

You can print layouts of multiple Rebro drawings collectively.

①Left-click [Print continuously].

②Select a printer.

③Select multiple drawing files in [Addition of file]. You can also select drawing files collectively by specifying a folder with [▼] on the right of the tab.

④Checkmark the layout to print.

⑤Left-click [Print].

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