

The background of the slide is a photograph of an industrial facility, likely a refinery or chemical plant, featuring large, shiny metal pipes and structural steel. A semi-transparent blue diagonal band runs from the bottom-left towards the top-right. Overlaid on this band is a technical drawing or P&ID (Process and Instrumentation Diagram) in white lines. The drawing includes various labels such as 'ASD_45678', 'ASD_4554', 'FDR_8822137', 'FDR_88967', and 'LPSL'.

ClassNK-PEERLESS 2020.x

Upgrade News

2020.1

2020.2

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1-1. ClassNK-PEERLESS : Important Changes

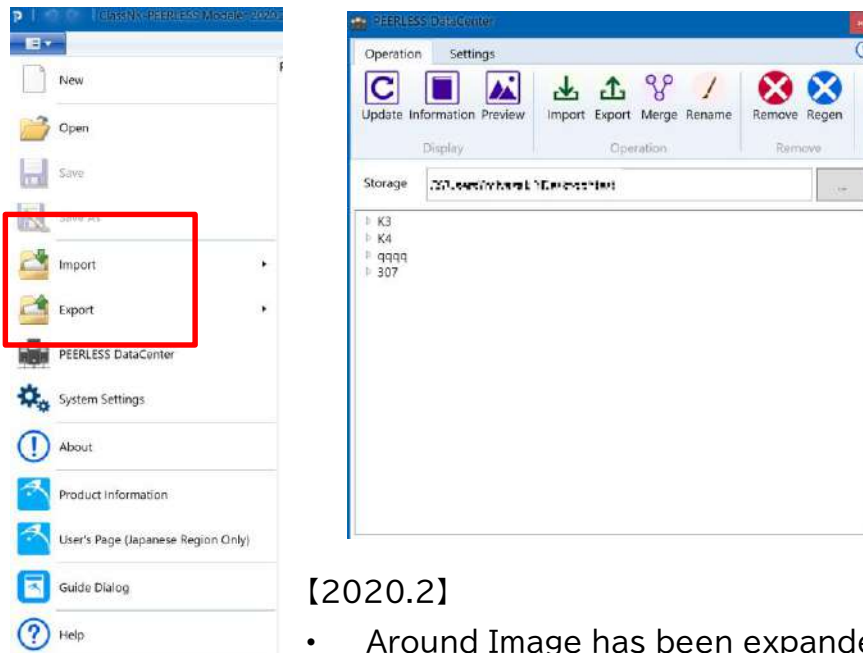
- ① Before installing this version, be sure to note the following warning regarding the compatibility.

The operation of project files, PCS files, and function files created in 2020.x is not guaranteed with earlier versions (2019.2 and earlier).

1-2. ClassNK-PEERLESS : New Features

(1) Supports large scale point cloud

PEERLESS DataCenter is available that can manage hundreds of measurement points.

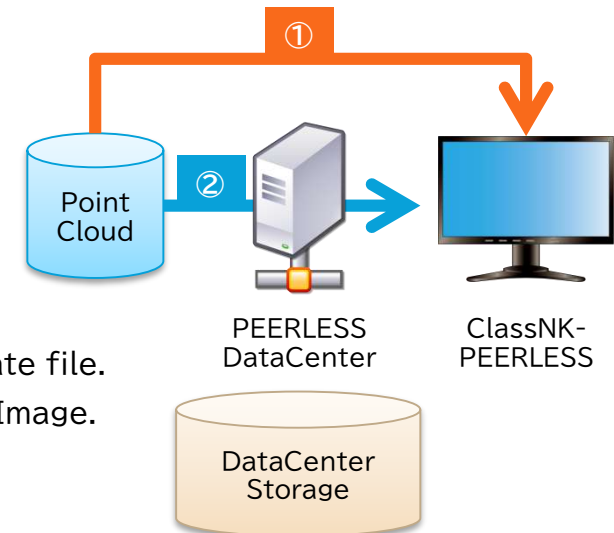


【2020.2】

- Around Image has been expanded.
 - Around Image data is managed in a separate file.
 - Improved to be able to zoom with Around Image.
- Added preview function to DataCenter.
- Change menu location.

From Point Cloud to ClassNK-PEERLESS

- ① Import the Point Cloud directly into ClassNK-PEERLESS.
- ② Manage point cloud data in the PEERLESS DataCenter and import only the necessary point clouds into ClassNK-PEERLESS.



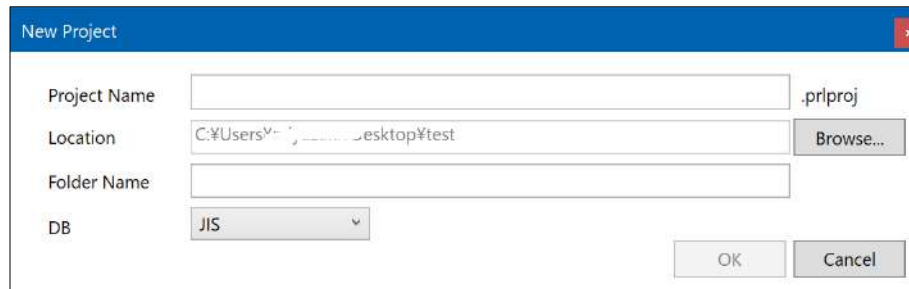
From the next version, the functions will be enhanced, including integration with PreProcessor and others.

1-2. ClassNK-PEERLESS : New Features

② New Project

Set project information when importing new data.

This will reduce the need to share storage locations and set the wrong standard to use.

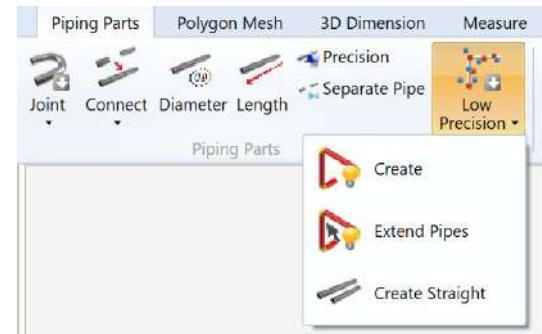
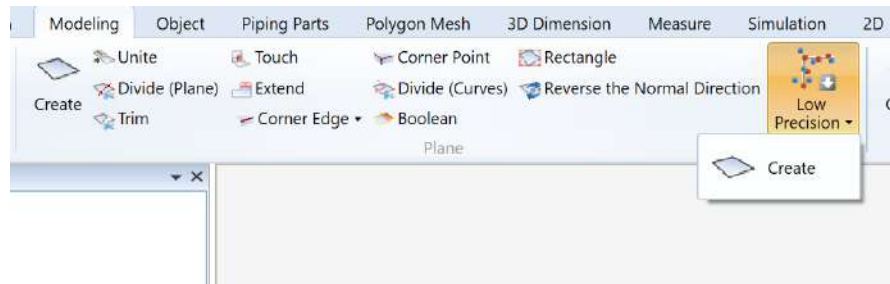


The image shows a 'New Project' dialog box with a blue title bar and a red close button. It contains four input fields: 'Project Name' (empty), 'Location' (containing 'C:\Users\... Desktop\test'), 'Folder Name' (empty), and 'DB' (a dropdown menu with 'JIS' selected). To the right of the 'Location' field is a 'Browse...' button. At the bottom right are 'OK' and 'Cancel' buttons. The file extension '.prproj' is shown to the right of the 'Project Name' field.

1-2. ClassNK-PEERLESS : New Features

- ③ Started providing modeling function for low precision point cloud.
It is used to create low precision point cloud planes and pipes.
Used when processing point clouds acquired using SLAM and point clouds acquired using UAV.

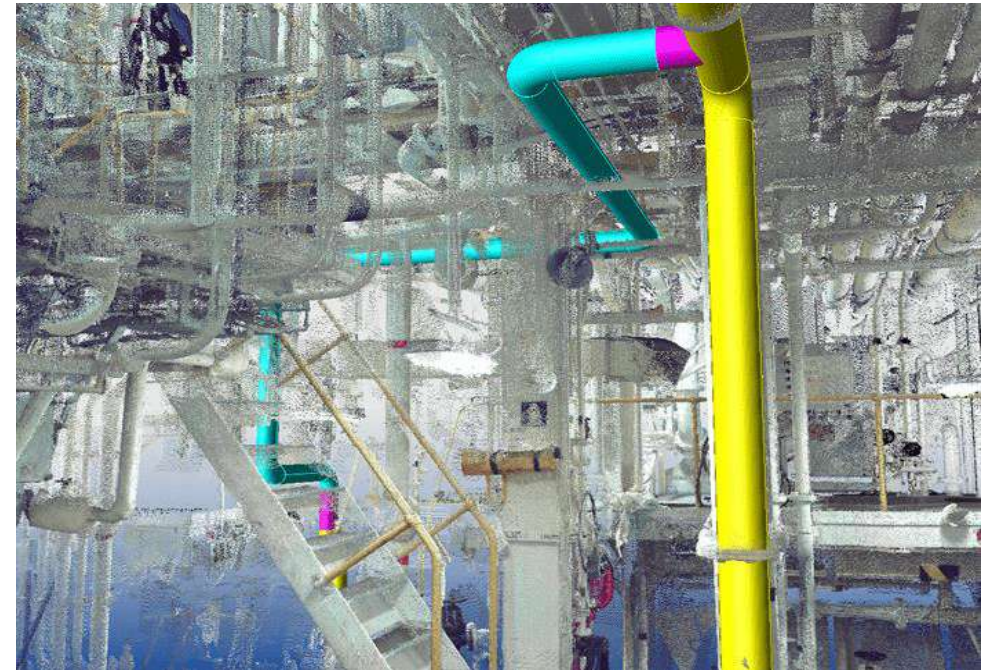
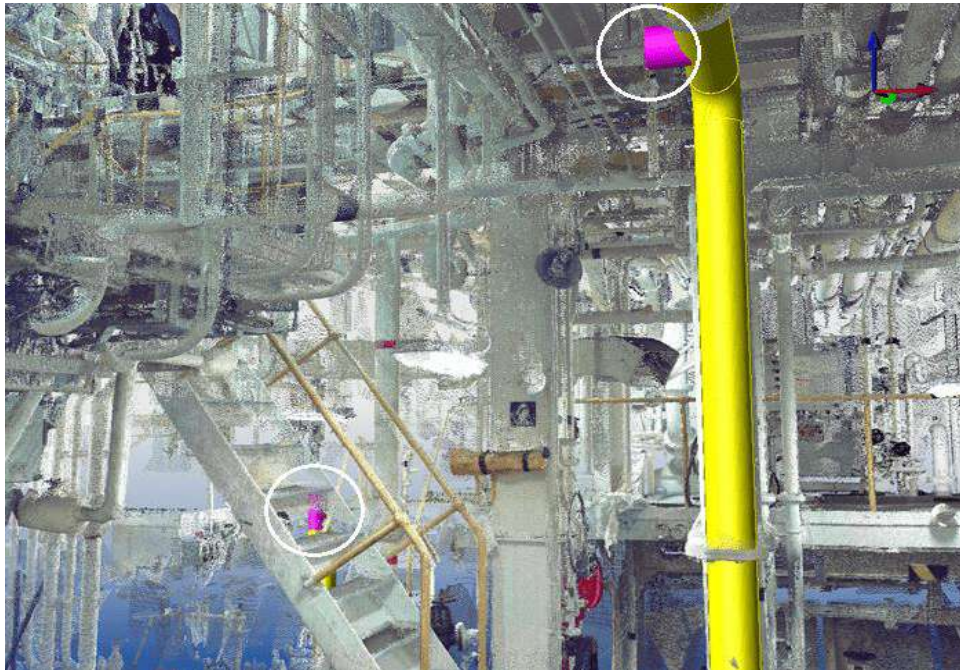
You can use it like any existing feature.



From the next version, we will continue to enhance the functions.

1-2. ClassNK-PEERLESS : New Features

- ④ Started providing new piping route creation function
You can create a route for a new pipe, avoiding point clouds and shapes.



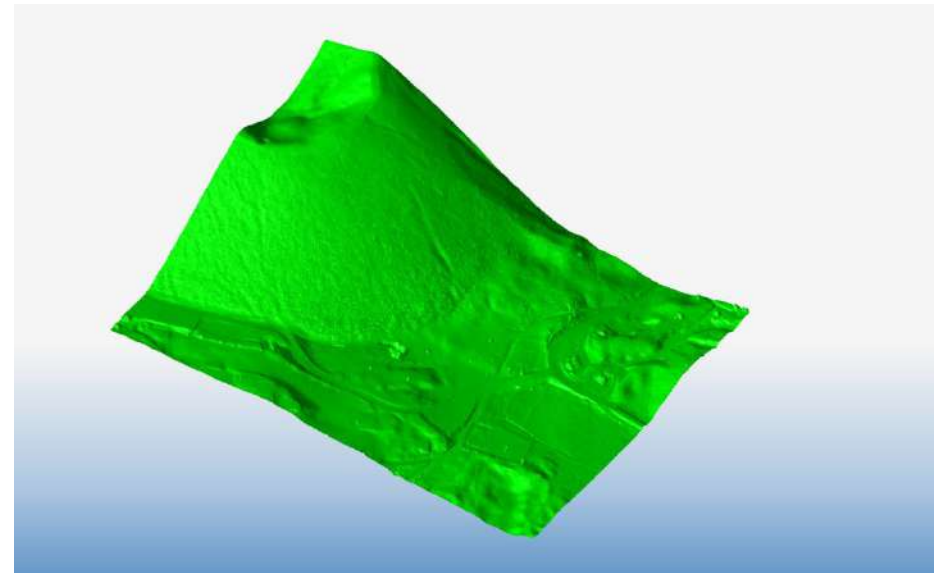
Reference: (only Japanese)

<https://www.armonicos.co.jp/laboratory/lt/geo/>

From the next version, we will continue to enhance the functions.

1-2. ClassNK-PEERLESS : New Features

- ⑤ Ground extraction function
Create a polygon mesh along the ground point cloud.

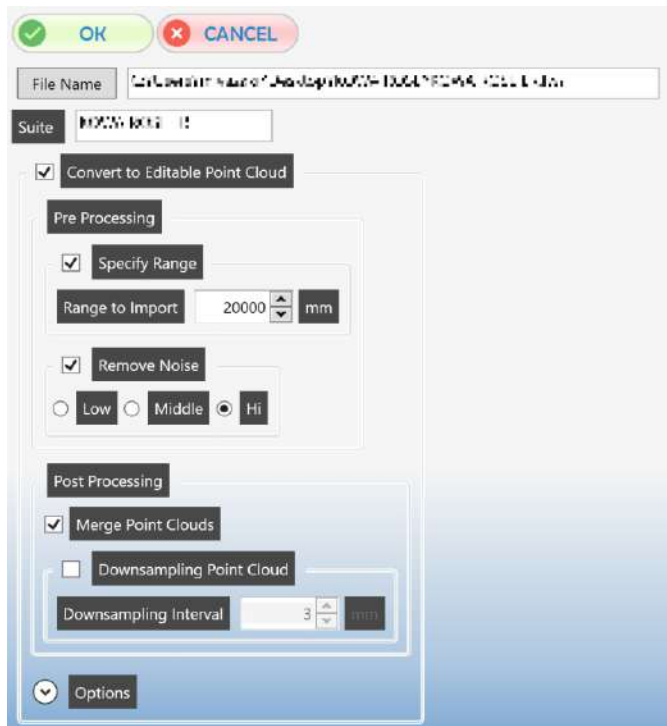


Reference: (only Japanese)

<https://www.armonicos.co.jp/laboratory/lt/geo/>

1-2. ClassNK-PEERLESS : New Features

- ⑥ Point Cloud importing using DataCenter
Changed the Point Cloud reading function to process via PEERLESS DataCenter.

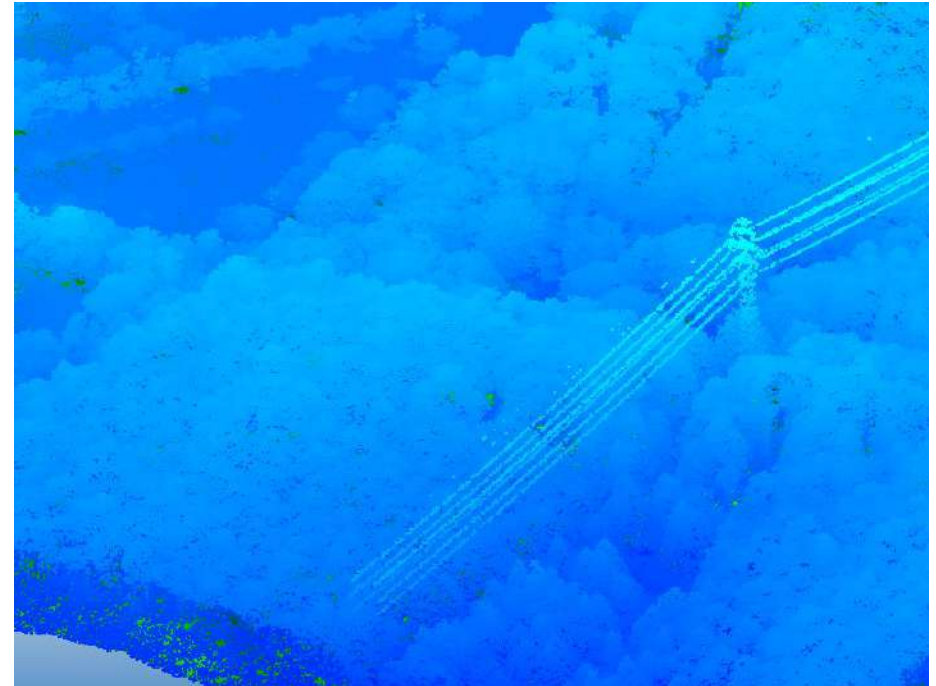
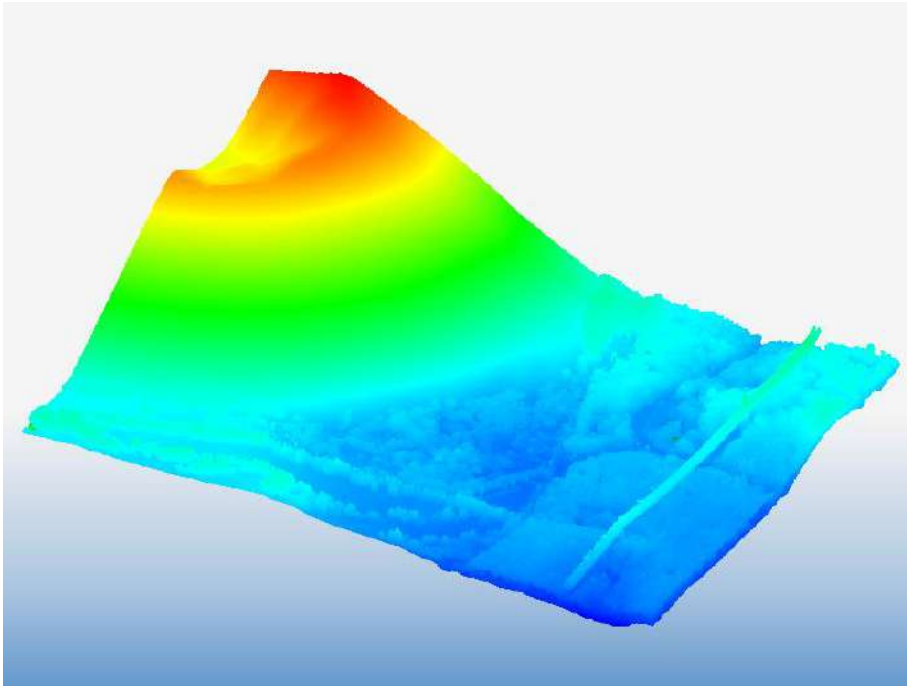


- Convert to a point cloud for editing and then model.
- It is possible to register in the DataCenter.
- As part of the process, it is now possible to execute the merge process as well.
- Improved Z + F (zfs) import process.

From the next version, the functions will be enhanced, including integration with PreProcessor and others.

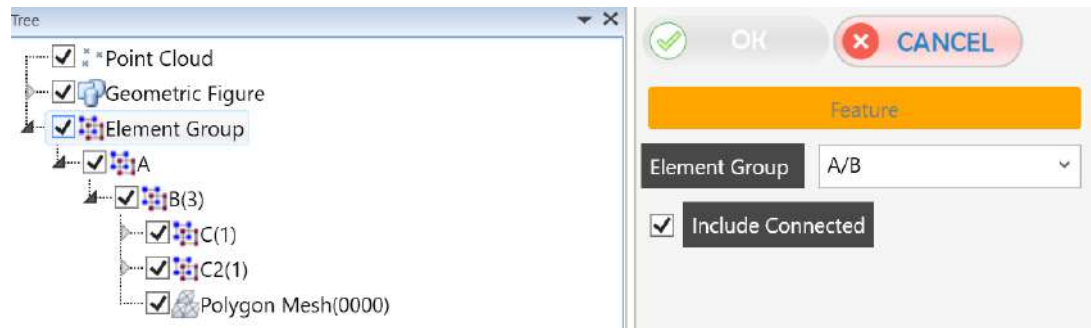
1-2. ClassNK-PEERLESS : New Features

- ⑦ Added point cloud step color display function
The point cloud color is colored and displayed according to the height (currently fixed in the Z direction).
This makes it easier to see point clouds of the same color with varying heights.



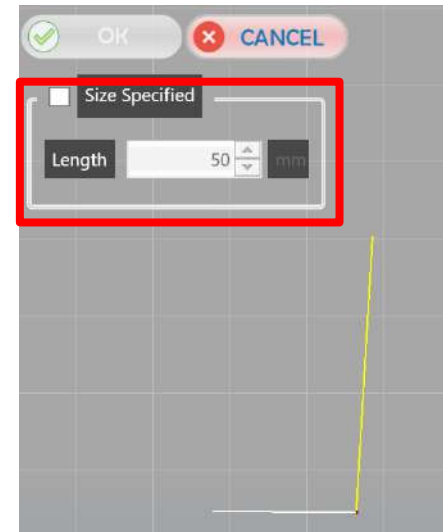
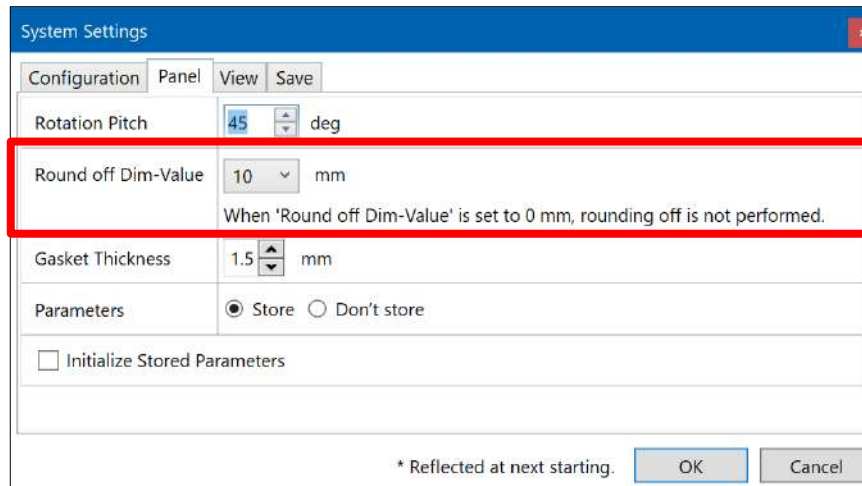
1-3. ClassNK-PEERLESS : Improvements

- ① Grouping function supports hierarchical display
You can view the groups hierarchically.



1-3. ClassNK-PEERLESS : Improvements

- ② Supports rounding of numbers in sketch and primitive creation functions.
You can round the values in units of 1 mm, 5 mm, and 10 mm.



1-3. ClassNK-PEERLESS : Improvements

③ Sketch function enhancement

A command has been added to the sketch function.

- Add room creation command
- Expansion of stretch function (stretches connected elements together)

2-1. Installation Notes : Important Changes

No major changes

2-2. Installation Notes : Version Compatibility

Before installing this version, be sure to note the following warning regarding the compatibility.

- This version can open and work with PEERLESS project file data created in versions 2020.2 and before.
- The operation of project files, PCS files, and function files created in 2020.2 is not guaranteed for earlier versions (2019.2 and earlier).

2-3. Installation Notes : Upgrade Notes

- When the latest version is installed in the same environment where an older version is installed, the software will be upgraded.
- If you have modified the data base in a previous ClassNK-PEERLESS' version, then you have to update them manually in the latest version.

3. Features to be released

2021.1(Major Version Up : Summer 2021)

Category	Description
Point cloud process	PEERLESS DataCenter enhancements
Point cloud process	Strengthening point cloud registration function (under consideration for implementation)
Modeling	Correspondence to heat insulation tube
Modeling	Duct creation function
UI	UI improvements