

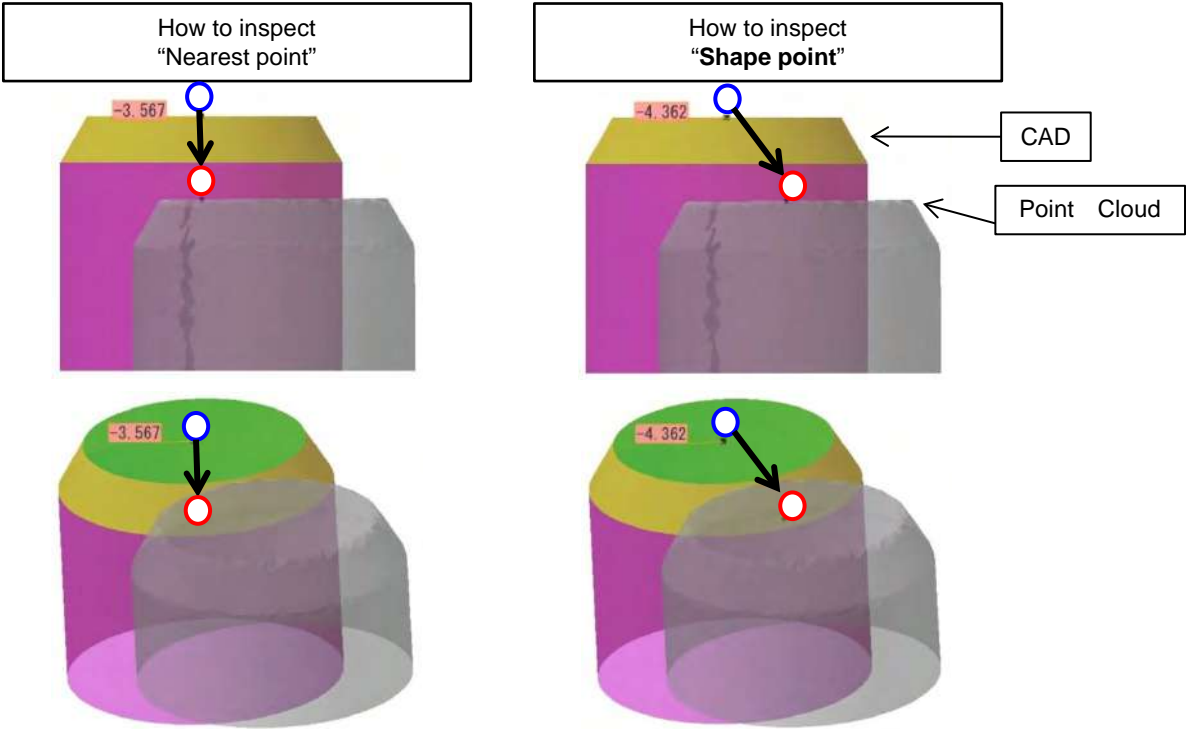


spGauge 2020.1

Upgrade News

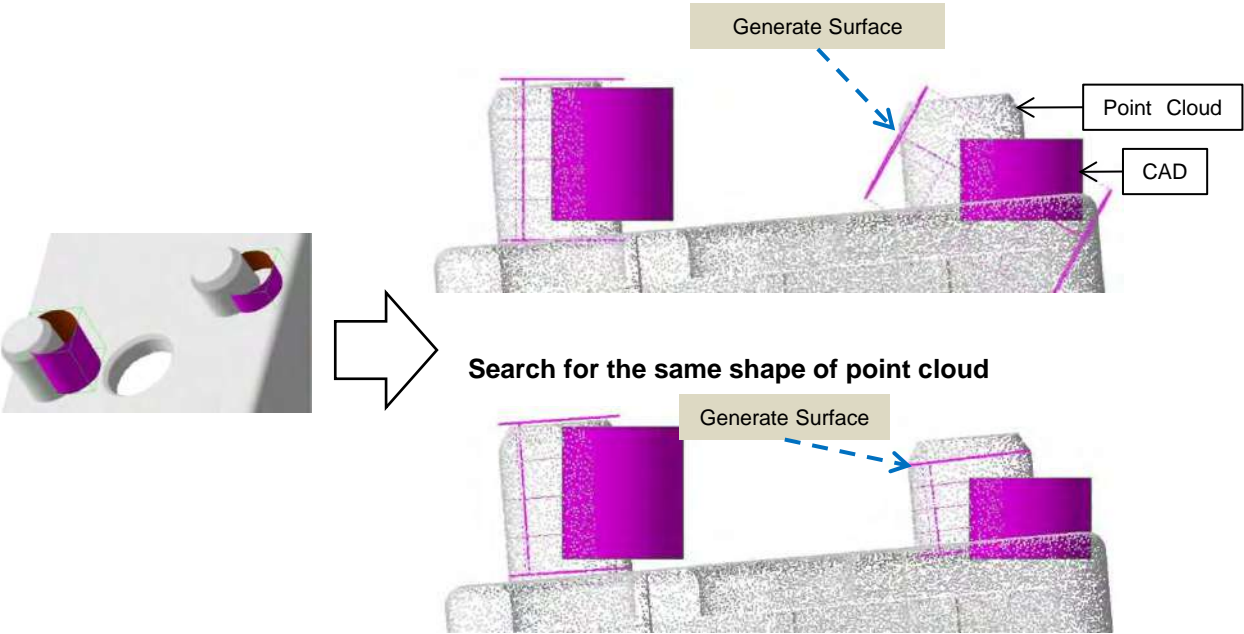
Point inspection

Added a feature to search for the same shape as the shape in the vicinity of BASE point as an inspection method.



GD&T (Dimensional Tolerance)

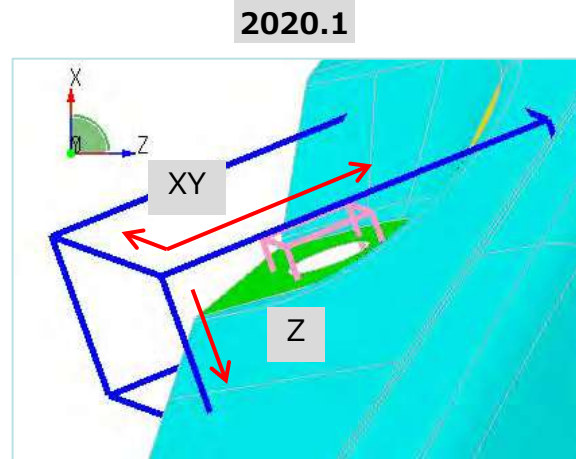
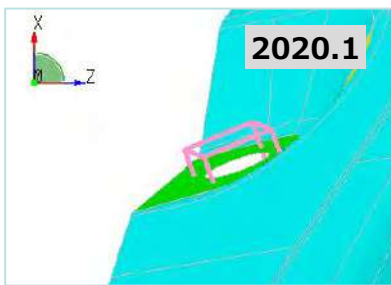
Added a feature to search for the same shape part as the generating target CAD surface shape from point cloud.



Hole inspection

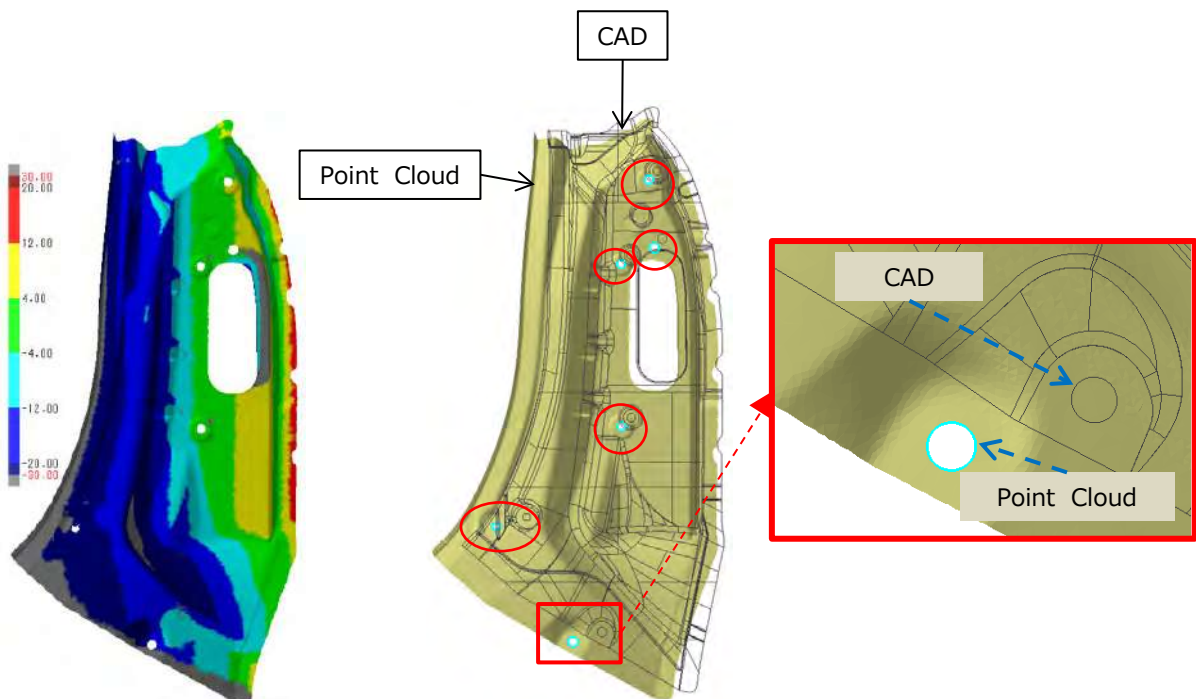
Enhanced so that an automatically identified hole's box display is displayed in the direction of hole's normals.

Added a feature to set the extraction range of hole's horizontal and vertical (normal) direction and display that area's box.



Hole inspection

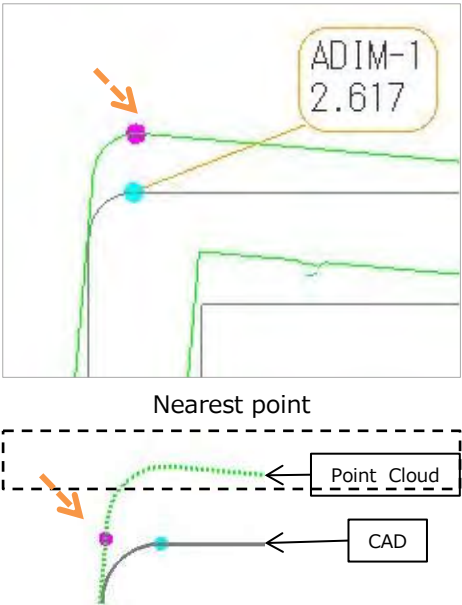
Added a feature to search for the same shape parts as the extraction target's hole shape from the point cloud.



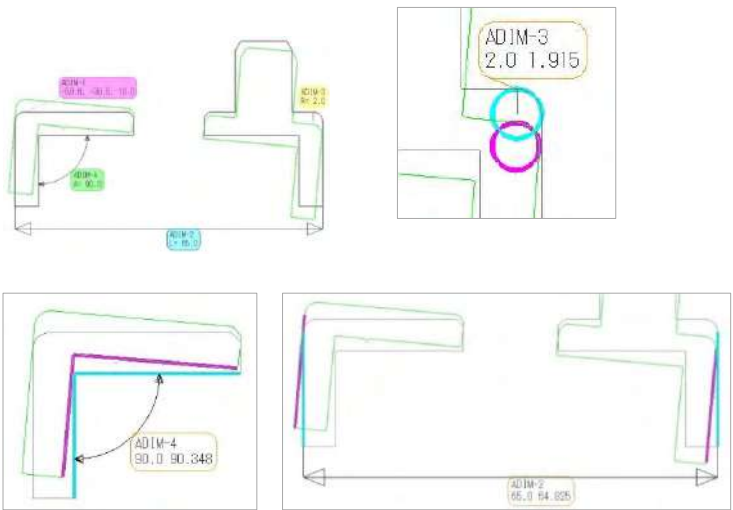
Auto 2D Measure

Added a feature to search for the same shape as the inspection target's CAD cross sectional curve from the point cloud cross sectional curve.

Search for the shape of point cloud

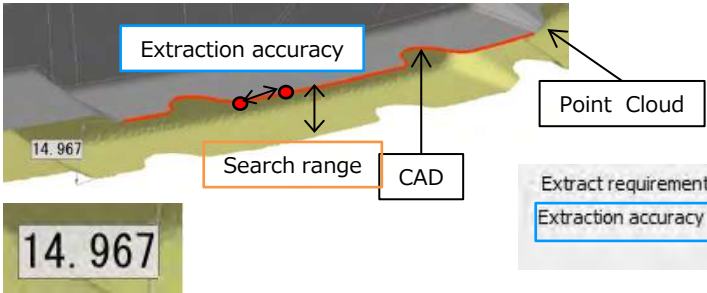


- : Line elements of CAD data created by indicating during planting.
- : Line elements automatically created from point cloud.



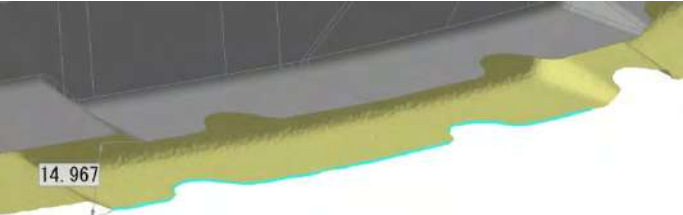
Edge inspection

Added a feature to search for the same shape as the shape in the vicinity of BASE point as an inspection method.

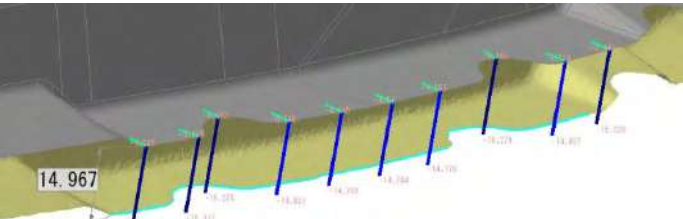


Extract requirements

Extraction accuracy	5	Search range	20
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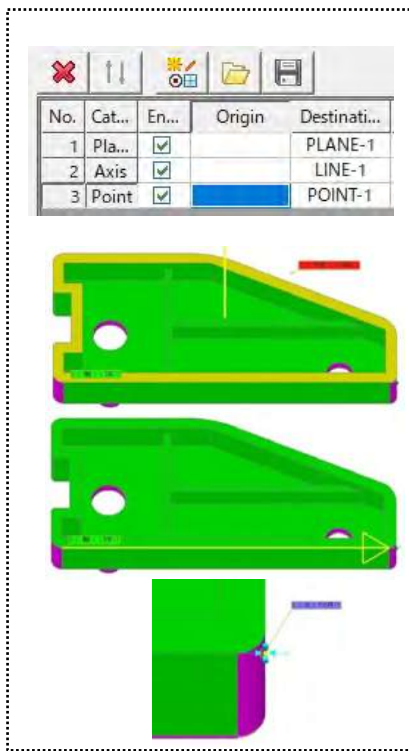


Extract and inspect curves.

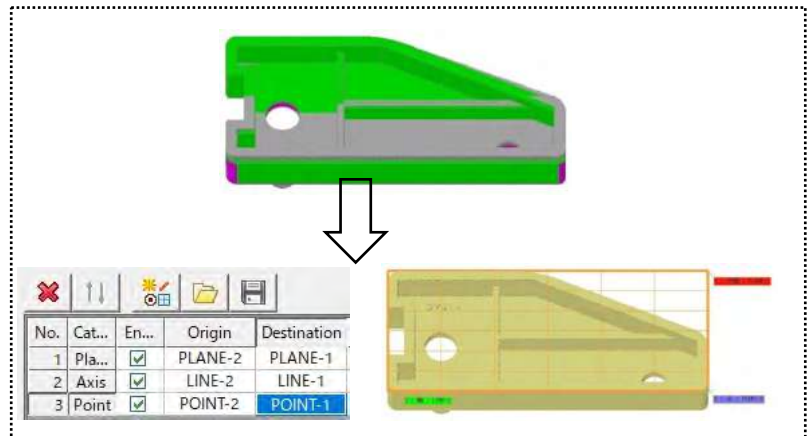


Unification Fit

Added a feature to detect and extract the shape element that is the same as the target from extracting point cloud when automatically extracting the source of point cloud group.

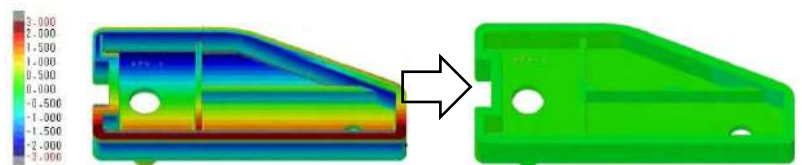


Auto extract



Before

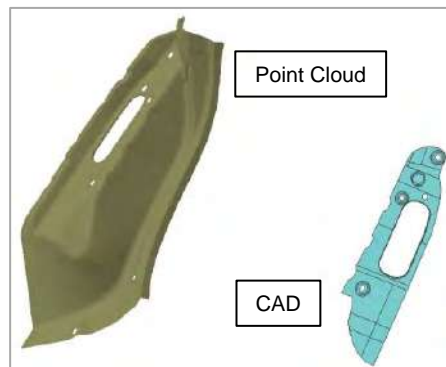
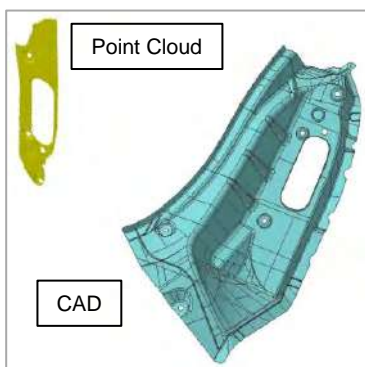
After



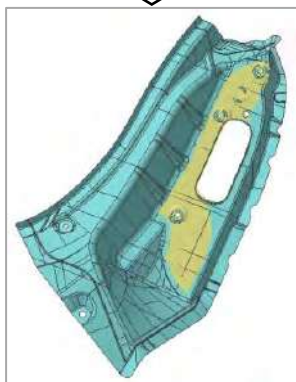
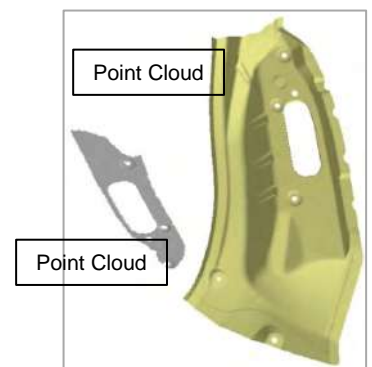
Global Fit

Added [High accuracy global fit] option as an Align parameter.

Point Cloud → CAD



Point Cloud → Point Cloud



NEW!

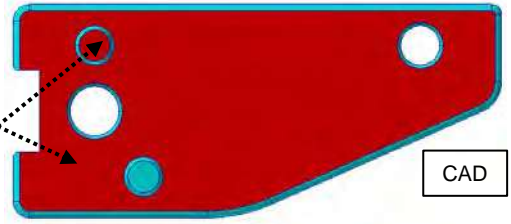
Select points

Added [Area ratio (%)] option as a Shrink value parameter for extracting point cloud.

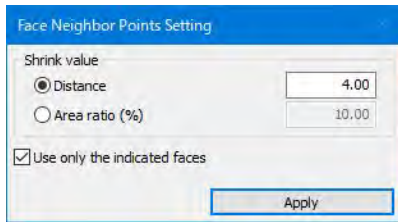


Specify by Face **Specify by Faces**

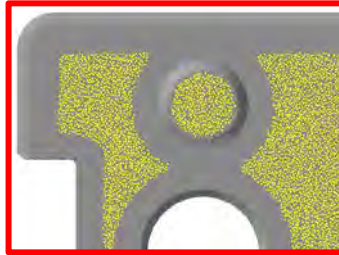
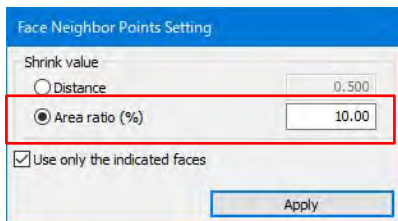
Selection plane



CAD

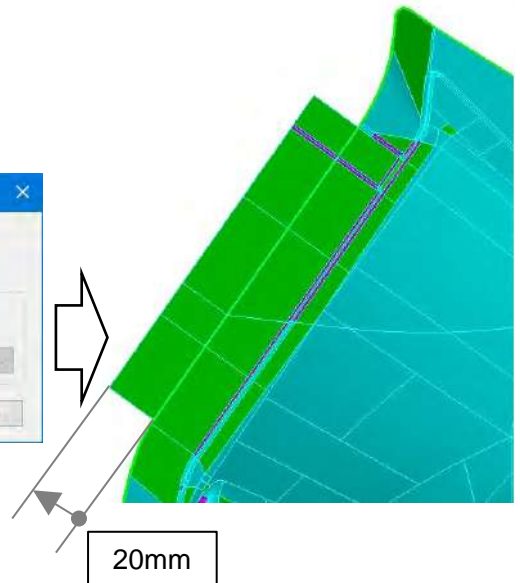
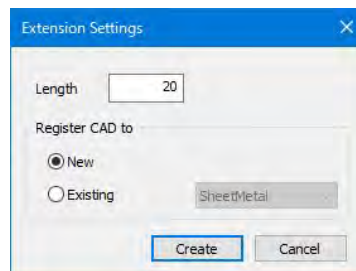
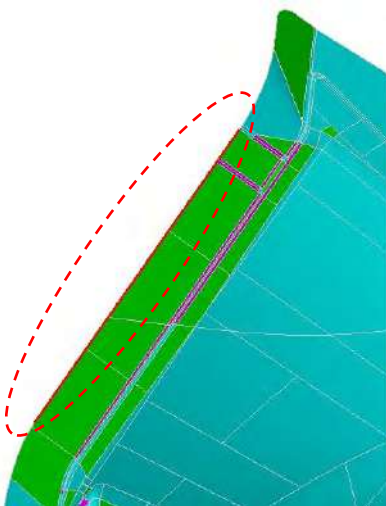


Point Cloud

**NEW!**

Extend Endshape CAD Surf

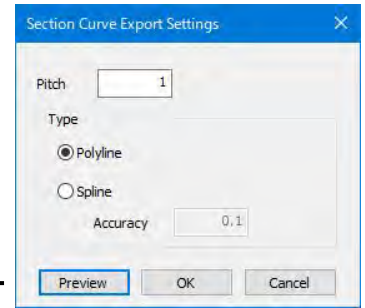
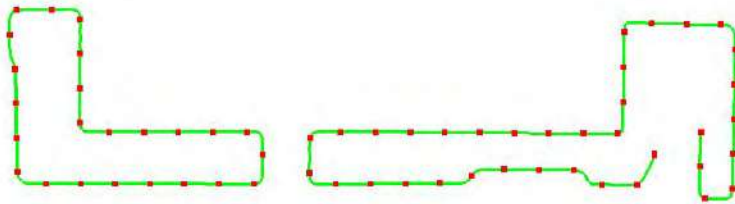
Added a feature to create a surface extending an endshape of CAD data.



20mm

Added a feature to export point clouds created on the top of point cloud's cross sectional curve to ASCII format.

The created point cloud is previewed in red.

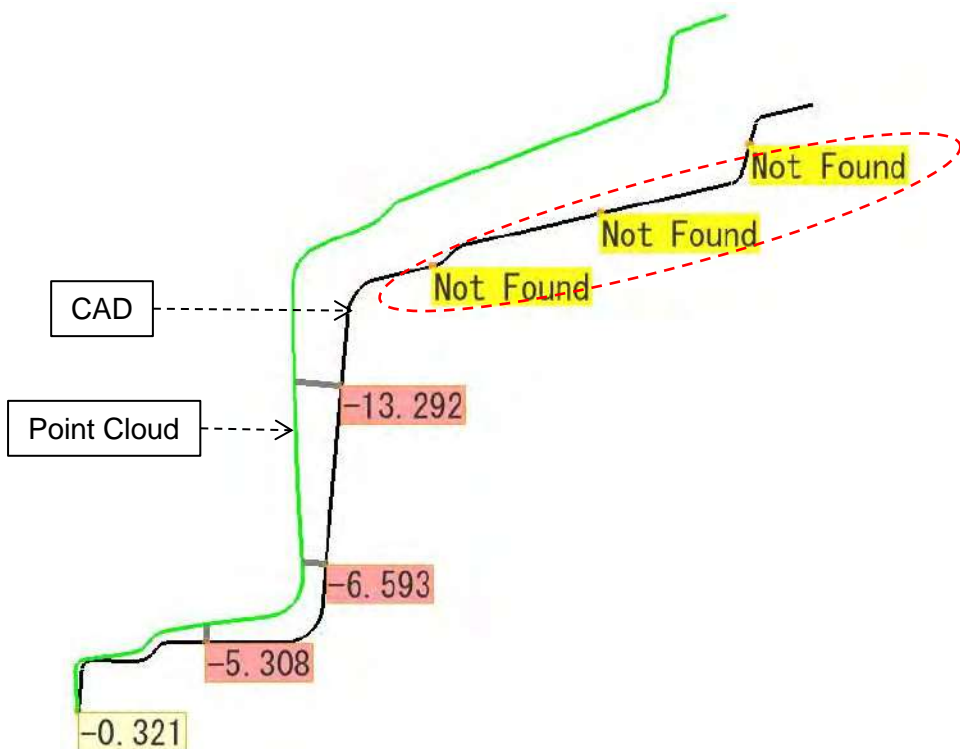


-11.988	-42.846	-4.204
-11.957	-42.846	-5.204
-12.103	-42.846	-6.120
-12.896	-42.846	-5.838
-12.918	-42.846	-4.838
-12.937	-42.846	-3.839
-12.958	-42.846	-2.839
-12.974	-42.846	-1.839
-12.565	-42.846	-1.102
-11.565	-42.846	-1.095
-10.566	-42.846	-1.073

Save the previewed point cloud as ASCII format.

Section inspection

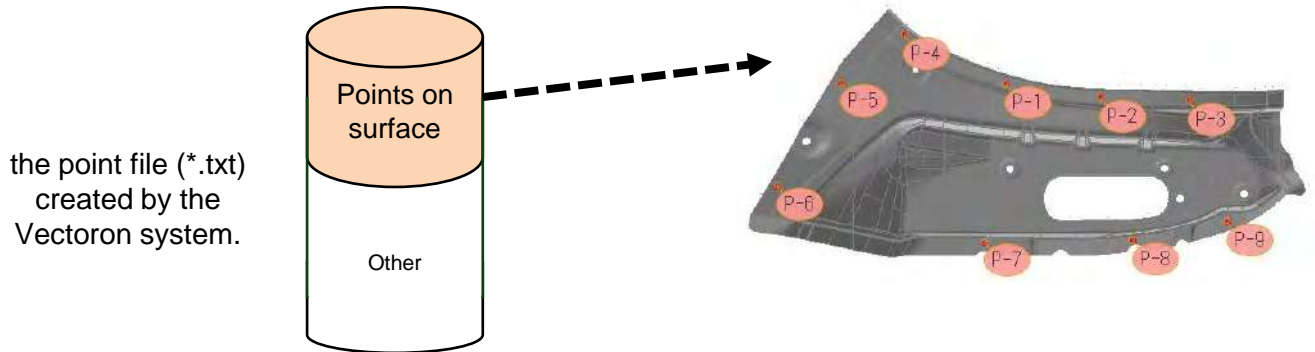
Added a feature to add 'Not Found' annotation when inspection parts are not found within the search range.



Now you can import point cloud data in PLY format.



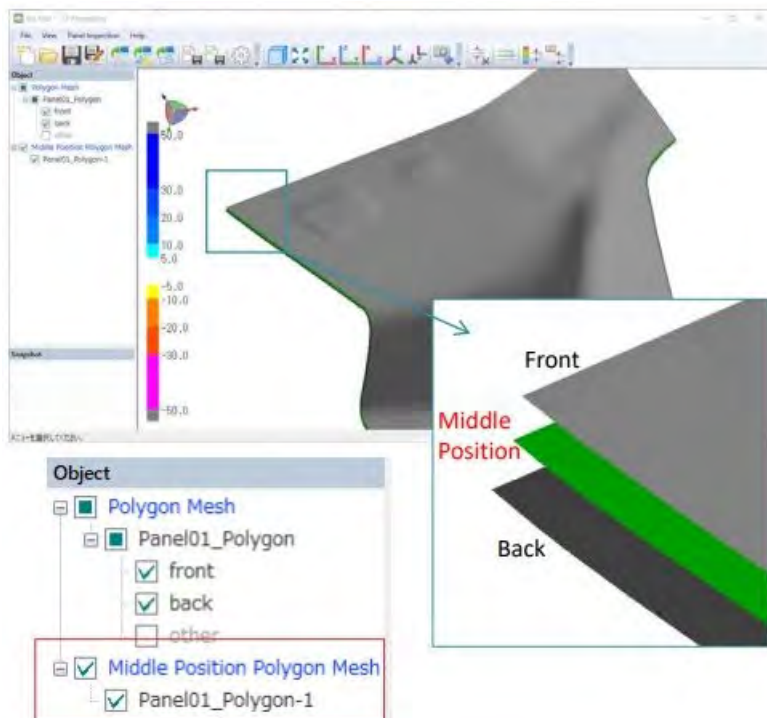
Added a feature to import the point data of points on surface from the point file created by the Vectoron system.



Prototype - Panel Thickness

Enhanced the panel thickness evaluation feature.

The [Panel Thickness] command is accessible while the maintenance license is valid.



Added a new alignment feature with new user interface.

The [New Alignment] command is accessible while the maintenance license is valid.

Function

Global Fit

N Points

Drag

Reference point

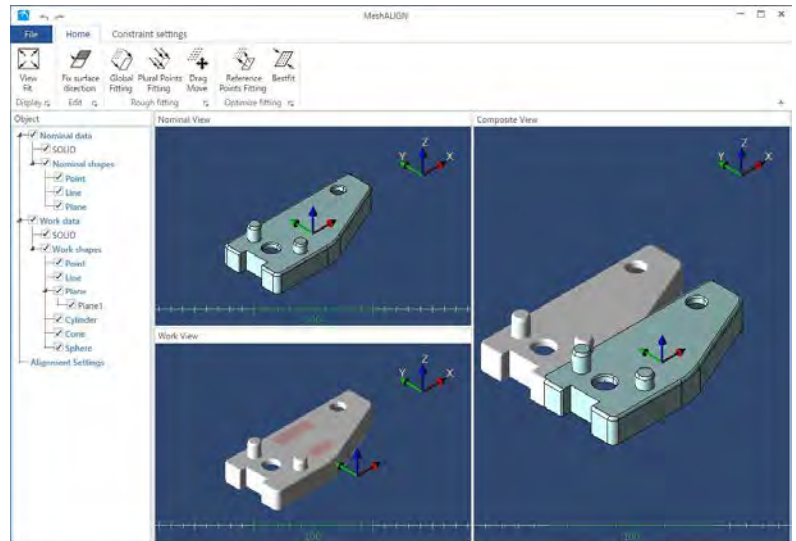
Best Fit

Other

Fix Surf Direction

Restraint

(Point/Axis/Plane)

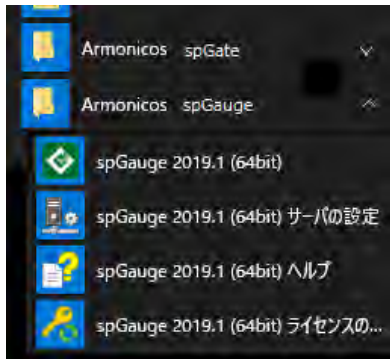


spGate-Auto-Reader

Updated the versions of CAD data (optional license) that could be imported.

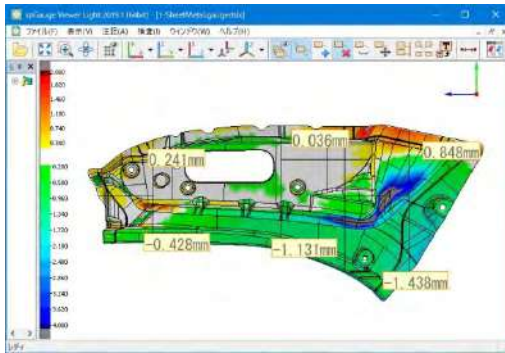
System name	Supported versions
CATIA	R8 ~ V5-6R2018(R28)
NX (UG)	V11 ~ NX12
Creo Parametric (Pro/E)	V16 ~ Creo5.0
SOLIDWORKS	98 ~ 2018
Parasolid	12.0 ~ 30.0
JT	8.1, 9.0, 9.1, 9.5

Changed the structure within the Start menu.



[Armonicos spGate]
[Armonicos spGauge]
spGauge 2020.1
:
[Armonicos spScan]
:

Accelerated the saving process of Viewer Light DSLX.



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 2. Using the Products yourself for the purpose of Developing WMD or for other military purposes, or providing the Products to a person who have such purposes outside of Japan.

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