



# What's New in VGSTUDIO MAX

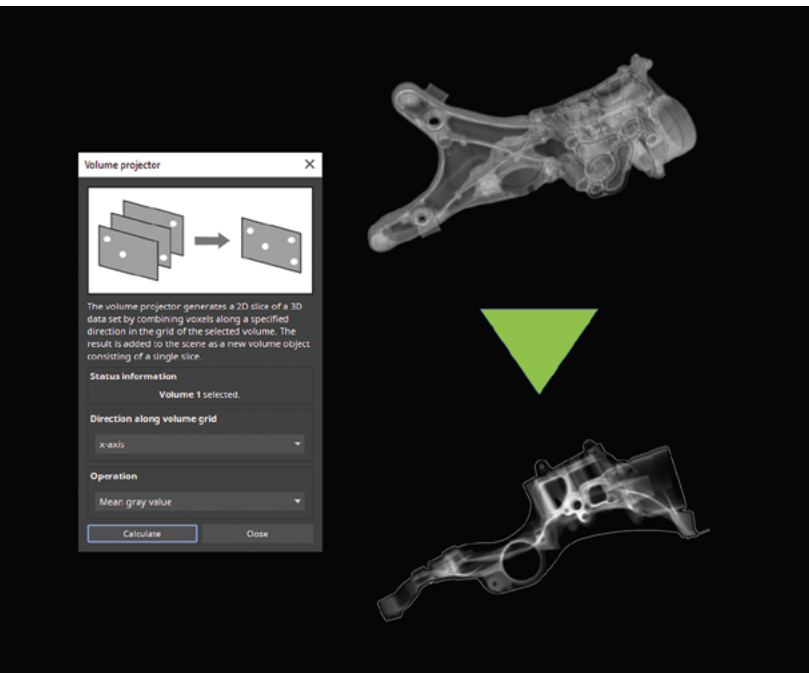
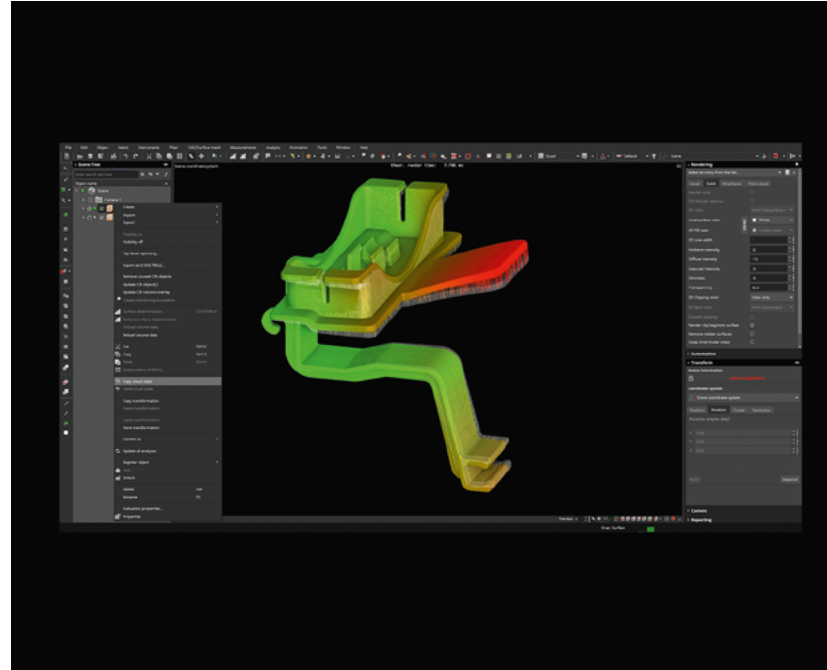
Discover the Exciting New Capabilities of Version 2022.3  
(as of October 2022)

# Visualization and Navigation

## Transfer Visual States Easily

Save yourself time, effort, and nerves—especially in a multi-part inspection—by simply copying & pasting the visual state of one object to another.

## Filter



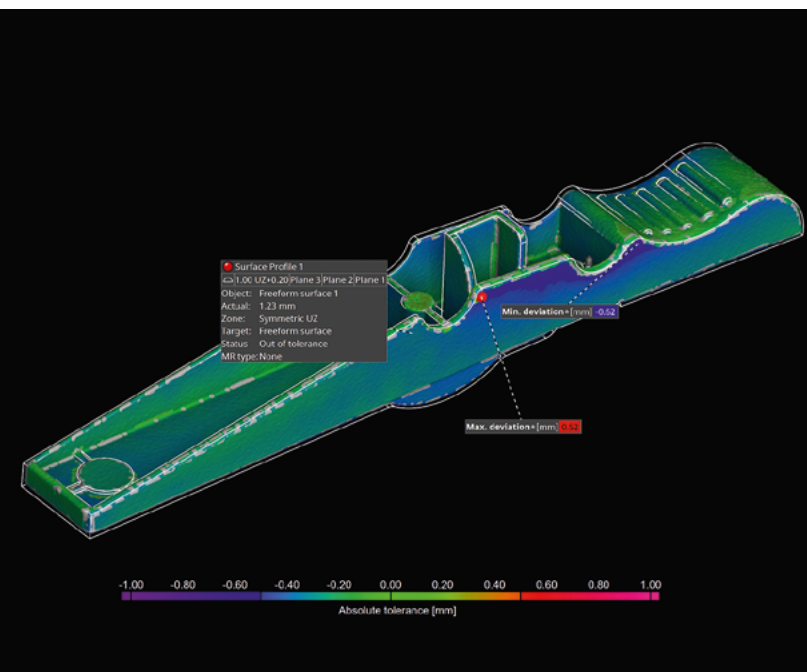
## Introducing the Volume Projector

With the new volume projector, you can quickly generate a simple 2D slice of a complex 3D data set. Now you can visually inspect your part with more ease.

# Coordinate Measurement

## When Alignment Meets Measurement

Measurement plans now contain all possible alignments, including complex sequential alignments. It has never been easier to transfer a measurement plan from one part to another—without the need for separate alignment macros.

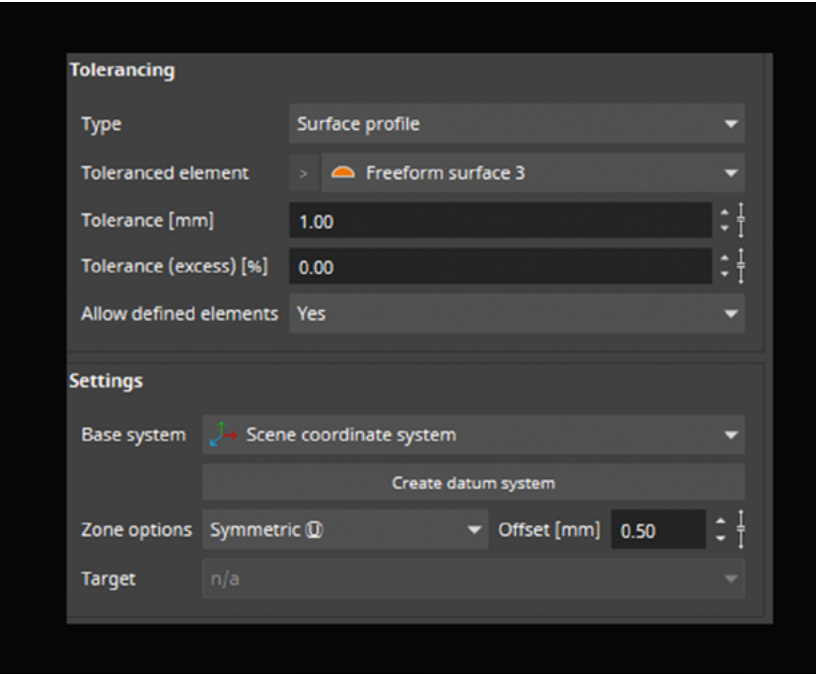


## Introducing Faster Profile Tolerances

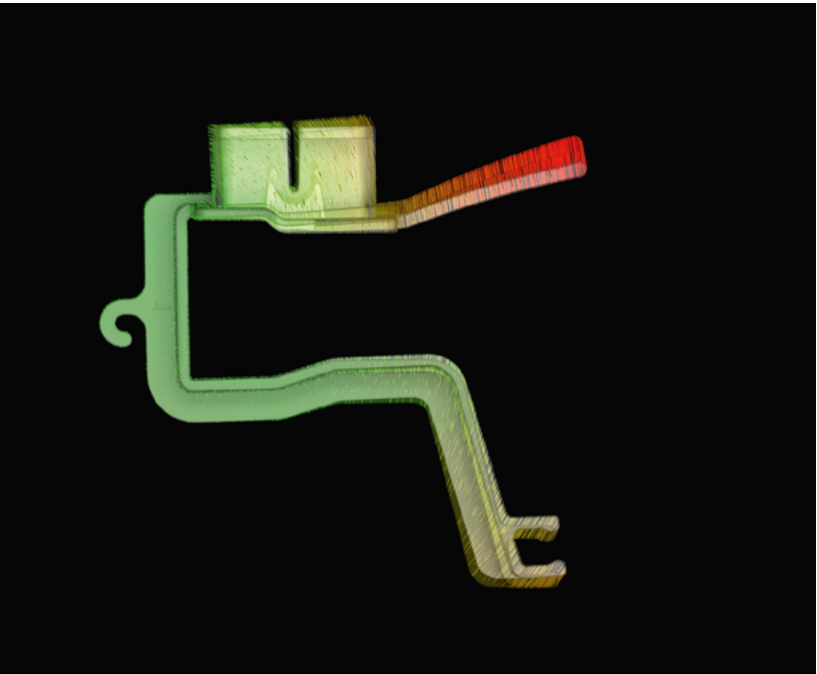
With our latest developments in geometric tolerancing, evaluating profile tolerances is now 10 times faster, more accurate and more powerful than before—even with tolerances that have hundreds of thousands of measurement points.

## Enhanced Tolerance Support for ASME Standards

Now you can directly use modifier symbols and avoid time-consuming workarounds.



## Nominal/Actual Comparison



## Announcing Displacement Analyses as an Alternative to Classic Nominal/Actual Comparisons

The new displacement analysis is an alternative to nominal/actual comparisons, especially for distorted parts. With unique hairline visualizations, you can now see which points on your actual object correspond to points on the nominal object. This feature comes with hairline display, tolerancing, and a histogram.

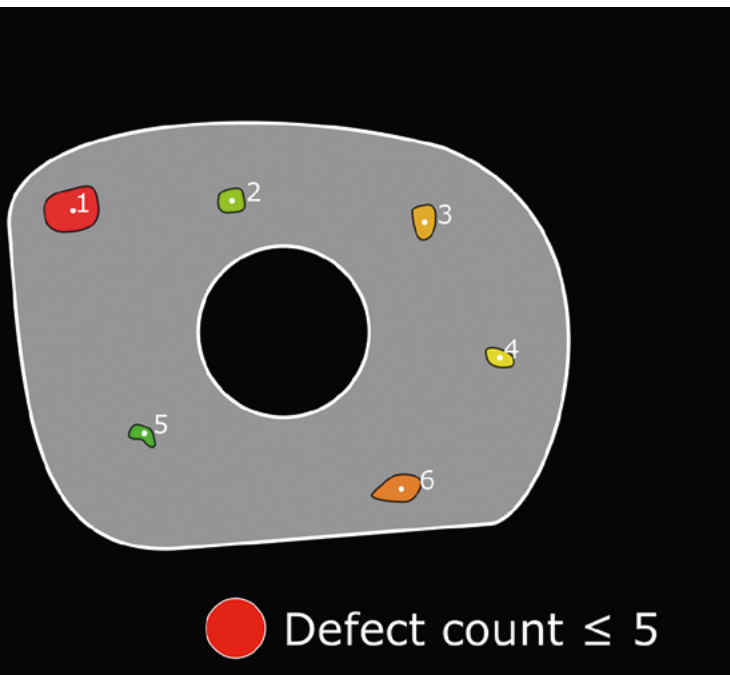
## BDF Format Now Available for Simulation Meshes

Import and export simulation meshes directly in BDF format without having to convert them beforehand.

## “Export Displacement Information in MARC Format

You can now export the individual node movement of a mesh compensation as a Hexagon MSC MARC ASCII file. This allows for smoother sailing, especially when it comes to simulation meshes.”

## Porosity/Inclusion Analysis



## Tolerancing the Number of Pores

Before, it was only possible to tolerance the maximum number of pores with a P 203—but now no longer! Now you can do the same with a standard porosity/inclusion analysis.

## Optimized Performance of Defect Filter

Filtering a large number of defects has never been faster. In such cases, our optimized defect filter boosts the speed of porosity/inclusion analyses of up to 20%.

## Slice Area Analysis

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### Measuring Background in Specific Slices

Our slice area analysis has gotten a boost. Now, it can measure both material and background area in a slice, saving you a lot of time on workarounds.

## Volume Meshing

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### Upgrade in Wall-Thickness-Based Refinement

Meshing thin parts of a volume is now more accurate than ever. By specifying the number of tetrahedral elements, you can greatly enhance mesh fidelity.

## Automation

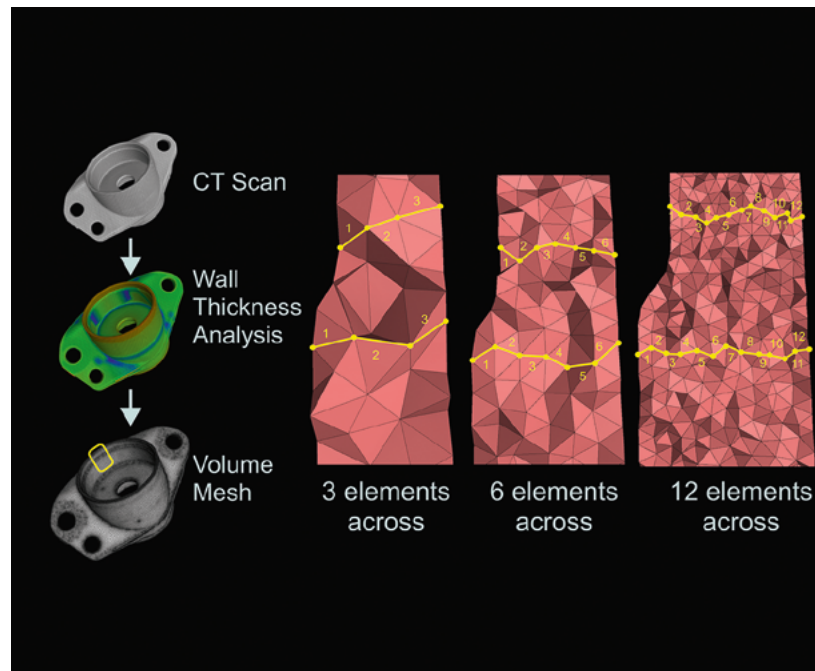
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### Detecting Port Conflicts via Remote Control Service

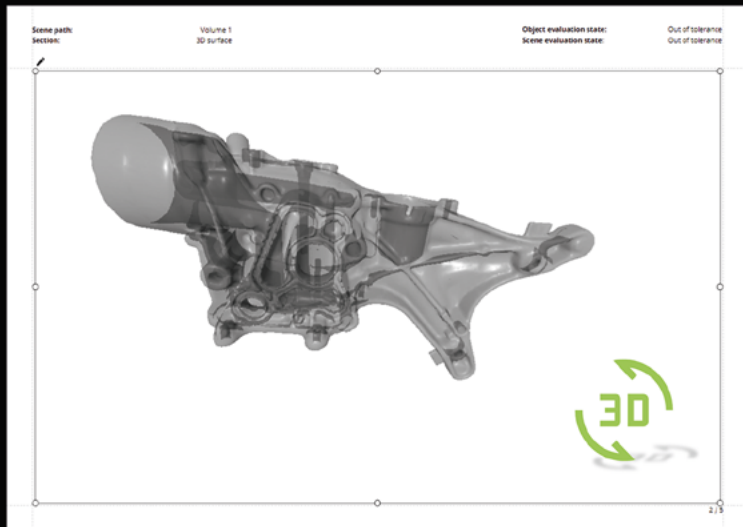
Conflict resolution is also a thing in automation. The Remote Control Service in VGiNLINE will now detect and inform users of port conflicts, removing time-consuming error diagnoses. It also reduces the risk of error when upgrading from an older version of VGSTUDIO MAX and VGiNLINE.

### “Instant Feedback on Calculated Areas

Get an instant preview on which area is being calculated in your slice, which makes setting up analysis parameters easier and much more intuitive.”



## Reporting and Traceability



### Interactive 3D Objects in Reports

Watch your data come to life in interactive 3D visualizations of object surfaces in your report. This reduces the need to switch between report and full scene.

### Reporting Annotation Tables

Reporting annotation tables has gotten that much easier. Existing display settings—like sorting, column order, and column width—can now be easily reused in reports, which eliminates the need to manually adjust the settings every time.

### Bookmark Descriptions in Reports

New and improved reporting allows you to provide more textual information for individual images in the form of bookmark descriptions. This makes it much easier to have all your info at a glance."



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