

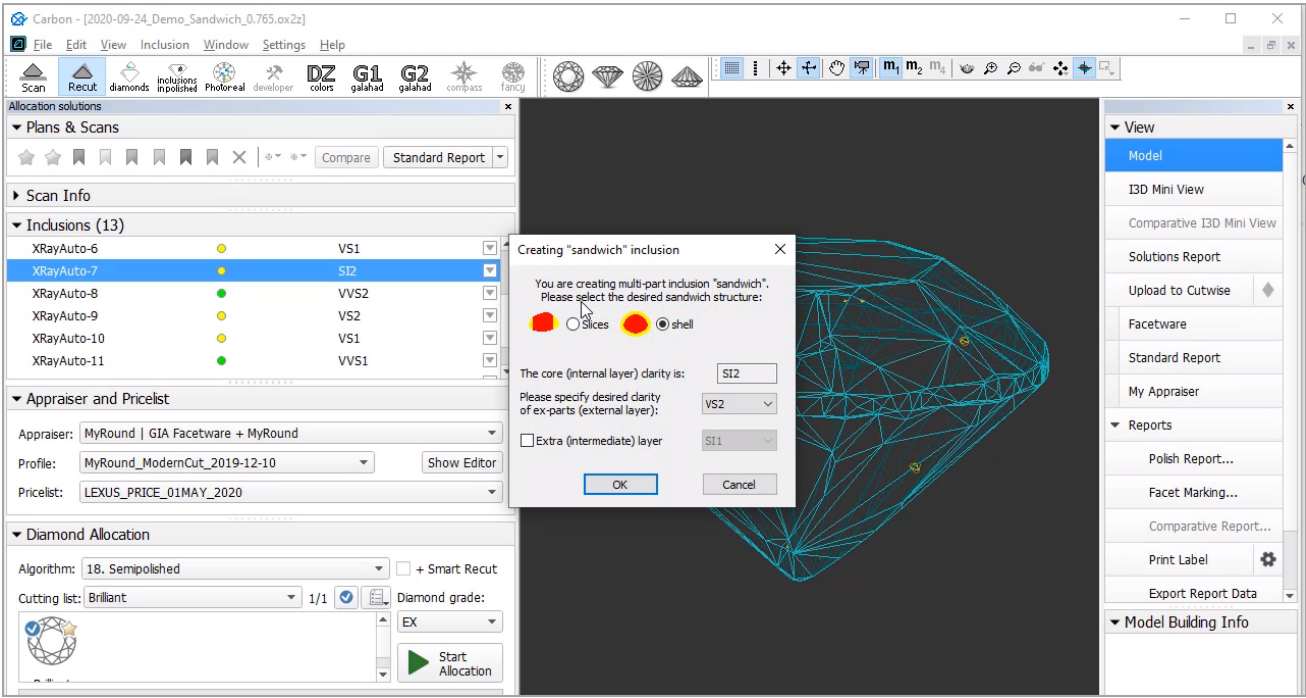
2020-12-29 - HP Carbon 1.1.33

Here you can find information about what is new in HP Carbon version 1.1.33.

On this page:				
1	Creating "Sandwich" Inclusions			
2	Scanning - Applying Facet Marking from Sample			
3	Industrial Object Models - Build and Facet Marking Improvement			
3.1	Trapezoid Workflow			
4	Polish Report Templates			
4.1	HTML Illustrated for Trapezoid			
4.2	Square Cushion - Cutting Type Support and Reports			
5	Comparative I3D Mini View - Distance from Reference/Current			
6	New Smart Recut Parameters			
6.1	SquareDeviation Tolerance			
7	G1 Galahad			
7.1	New Features			
7.2	Slope Allowance Parameter			
8	DZ Color Estimation - New Approach and Progress Bar			
9	Polish RTF Reports - Views without Invisible Edges with Rotation			
10	Cutwise Integration - Upload to Cutwise vs Manual			
11	New Logo and Icons			
12	Fixed Problems and Improvements			

Creating "Sandwich" Inclusions

For the stones with inclusions, the system now supports the ability to increase in some cases the mass of the solution by specifying that ***some part*** of inclusion can be included in the future solution. This can be done by marking an inclusion as multi-part ("Sandwich").



For a future "sandwich" inclusion you can specify:

- Desired structure: **Slices** (Recommended) or **Shell**.
- Desired clarity of the external layer compared to the internal layer clarity.
- Optionally - Extra (intermediate) layer presence and clarity.

To make an inclusion "sandwich":

1. In the **Recut** mode, access the **Inclusions** panel.
2. From the menu for your inclusion, select **Make Sandwich**. The **Creating "Sandwich" Inclusion** dialog is displayed.
3. Specify the "sandwich" options and then click **OK**. In the **Inclusions** panel, your inclusion will be slit into the corresponding parts.
4. Run optimization with your new inclusions.

You can find some details in the video below:

Video Increasing Mass - Using Sandwich Inclusions				
Published:	2020, October 16	Last Updated:	2020, October 16	v.2.0

Your browser does not support the HTML5 video element

Video summary:

- Sandwich Inclusion function allows increasing the mass of a solution without a decrease of its clarity
- It splits an inclusion into layers
- The external layer (shell) can be included in the solution thus it becomes bigger, increases the mass
- The internal (core) continues to limit the solution boundaries, keeps the Clarity high
- Big inclusions outside but close to the surface give the chance for using "Sandwich"
- Appropriate inclusions can be searched using QC Panel

Video keywords: clarity, inclusion, sandwich, QC panel

Published in:	Release Notes	2020-12-29 - HP Carbon 1.1.33
	Documentation	Inclusions
	Playlists	All Videos YouTube: HP Carbon
	Also	As Separate Page On YouTube Specification

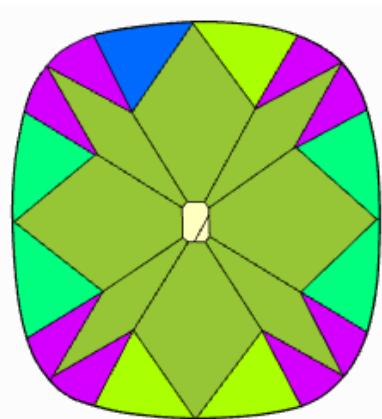
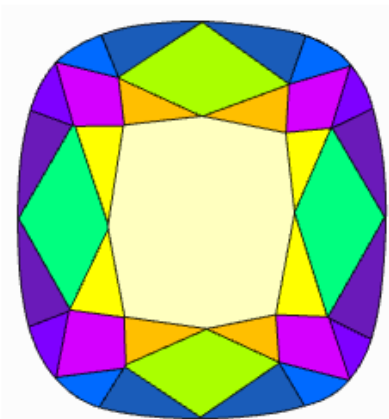
Scanning - Applying Facet Marking from Sample

Now during [scanning](#) using a loaded sample cutting, a facet marking from this sample is automatically transferred to the created 3D model. This provides an effective way of getting the correct facet classification (marking) for your model and creating the ***appropriate reports*** .

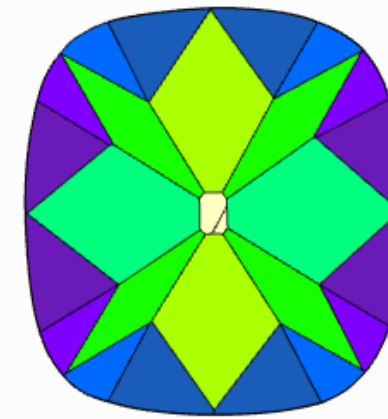
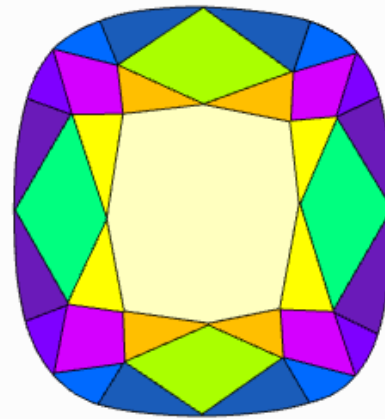
For example:

Auto Marking	Marking of Sample and Resulting Marking (identical)
--------------	---

Facets	Element	*	Tier	Type	SubType	No.	Color	Alias
x	1			Table				Rename...
x	2			Crown	Main	Width		Rename...
x	2			Crown	Main	Length		Rename...
x	4			Crown	Half	Width	1	Rename...
x	4			Crown	Half	Width	2	Rename...
x	4			Crown	Half	Length	1	Rename...
x	4			Crown	Half	Length	2	Rename...
x	4			Crown	Star	Width		Rename...
x	4			Crown	Star	Length		Rename...
x	4			Crown	Corner			Rename...
x	2			Girdle				Rename...
x	4		1	Pavilion	Main	Width		Rename...
x	3		1	Pavilion	Main	Length		Rename...
x	1		1	Pavilion	Half	Length	1	Rename...
x	8		1	Pavilion	Corner			Rename...
x	8		2	Pavilion	Main			Rename...
x	2			Culet				Rename...



Facets	Element	*	Tier	Type	SubType	No.	Color	Alias
x	1			Table				Rename...
x	2			Crown	Main	Width		Rename...
x	2			Crown	Main	Length		Rename...
x	4			Crown	Half	Width	1	Rename...
x	4			Crown	Half	Width	2	Rename...
x	4			Crown	Half	Length	1	Rename...
x	4			Crown	Half	Length	2	Rename...
x	4			Crown	Star	Width		Rename...
x	4			Crown	Star	Length		Rename...
x	4			Crown	Corner			Rename...
x	1			Girdle				Rename...
x	2			Pavilion	Main	Width		Rename...
x	2			Pavilion	Main	Length		Rename...
x	4			Pavilion	Main	Diagonal		Rename...
x	4			Pavilion	Half	Width	1	Rename...
x	4			Pavilion	Half	Width	2	Rename...
x	4			Pavilion	Half	Length	2	Rename...
x	4		1	Pavilion	Half	Length	1	Rename...
x	2			Culet				Rename...

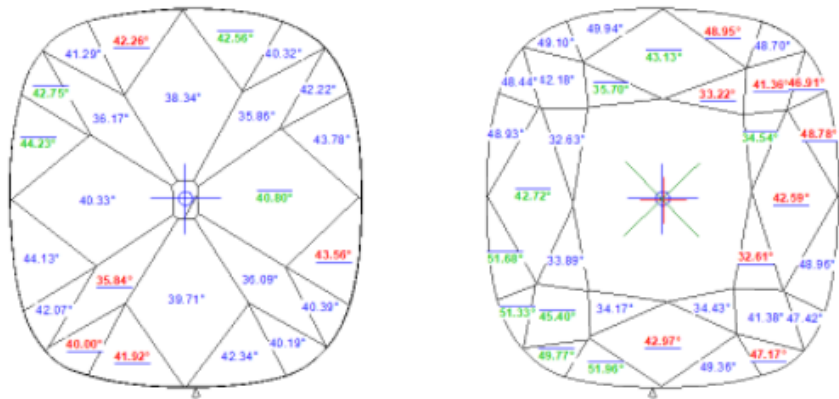


Resulting Polish Report

(strings for Pav Main Width, Pav Main Length, and Pavilion 2 Main are highlighted with the colors from Facet Marking)

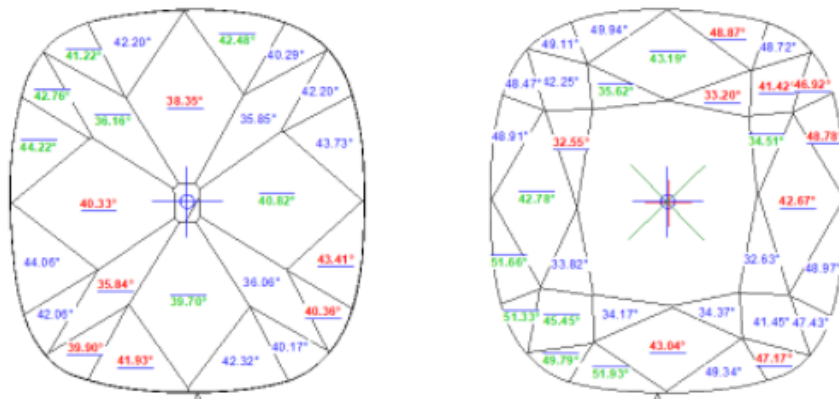
Parameter	Avg	Min	Max	Dev	1	2	3	4	
Crown height, %	22.81	22.73	22.90	0.16	22.73	22.90	N/A	N/A	
Crown Width height, %	22.81	22.73	22.90	0.16	22.73	22.90	–	–	
Crown Length height, %	23.50	22.85	24.16	1.31	24.16	22.85	–	–	
Crn Main Width height, %	22.49	22.46	22.52	0.06	22.46	22.52	–	–	
Crn Main Length height, %	23.16	22.32	24.01	1.69	24.01	22.32	–	–	
Crown Corner height, %	23.51	22.44	25.41	2.97	22.81	22.44	23.37	25.41	
Pavilion height, %	39.76	39.51	40.00	0.50	40.00	39.51	N/A	N/A	
Pavilion Width height, %	39.76	39.51	40.00	0.50	40.00	39.51	–	–	
Pavilion Length height, %	39.33	38.89	39.77	0.88	38.89	39.77	–	–	
Pav Main Width height, %	20.72	19.45	22.36	2.91	20.39	20.67	–	–	
Pav Main Length height, %	20.40	20.23	20.55	0.32	20.42	20.23	–	–	
Pavilion Corner height, %	38.49	38.06	39.06	1.01	38.35	39.06	38.49	38.06	
Pavilion 2 Main height, %	38.59	37.39	39.77	2.38	39.38	38.29	38.47	38.64	
Table: Side, %	51.56	49.60	53.53	3.93	49.60	53.53	–	–	
Table: Corner w.r.t. Corner, %	56.24	56.00	56.47	0.48	56.00	56.47	–	–	
Table: Corner w.r.t. Width, %	66.17	65.93	66.42	0.49	65.93	66.42	–	–	
Diameter: Corner, %	117.67	117.61	117.74	0.13	117.74	117.61	–	–	
Crown Star Length, %:	48.79	47.76	49.67	1.91	–	–	–	–	
Crown Star Width, %	50.76	48.52	54.13	5.61	–	–	–	–	
Girdle thickness, %	6.41	6.25	6.58	0.33	–	–	–	–	
Culet, %	10.54	7.29	11.94	4.65	–	–	–	–	
Crown angle, °	42.65	42.59	42.72	0.14	42.72	42.59	–	–	
Crown Main angle, °	42.65	42.59	42.72	0.14	42.72	42.59	N/A	N/A	
Crn Main Width angle, °	42.65	42.59	42.72	0.14	42.72	42.59	–	–	
Crn Main Length angle, °	43.05	42.97	43.13	0.16	43.13	42.97	–	–	
Crown Corner angle, °	42.58	41.36	45.40	4.04	42.18	41.36	41.38	45.40	
Crn Star Width angle, °	33.42	32.61	34.54	1.94	32.63	34.54	32.61	33.89	
Crn Star Length angle, °	34.38	33.22	35.70	2.48	35.70	33.22	34.43	34.17	
Pavilion angle, °	37.89	35.84	40.80	4.96	40.80	35.86	38.34	36.17	
Pav Main Width angle, °	43.93	43.56	44.23	0.67	43.78	44.23	–	–	
Pav Main Length angle, °	42.27	41.92	42.56	0.64	42.56	41.92	–	–	
Pavilion Corner angle, °	41.15	40.00	42.75	2.75	42.22	40.32	41.29	42.75	
Pavilion 2 Main angle, °	37.89	35.84	40.80	4.96	35.86	38.34	36.17	40.33	
Girdle thickness, %	Type	Avg	Min	Max	Dev	1	2	3	4
G. th. Width	red	6.41	6.25	6.58	0.33	6.25	6.58	–	–
G. th. Length	red	6.15	5.94	6.37	0.43	5.94	6.37	–	–
G. th. Width	red	6.99	5.52	7.83	2.31	7.83	7.48	7.13	5.52
G. th. Width	green	3.84	3.55	4.14	0.59	3.84	4.14	3.84	3.55
G. th. Length	red	3.57	3.12	4.14	1.02	3.42	3.12	4.14	3.57
G. th. Corner width	green	4.86	3.97	5.23	1.26	5.18	5.23	5.05	3.97
G. th. Corner length	green	4.02	3.20	5.39	2.19	5.39	3.31	4.18	3.20
G. th. Width	yellow	5.94	5.74	6.18	0.44	6.04	6.18	5.74	5.80
G. th. Length	yellow	5.26	3.92	6.16	2.24	6.16	3.92	5.87	5.09

Facets' angles

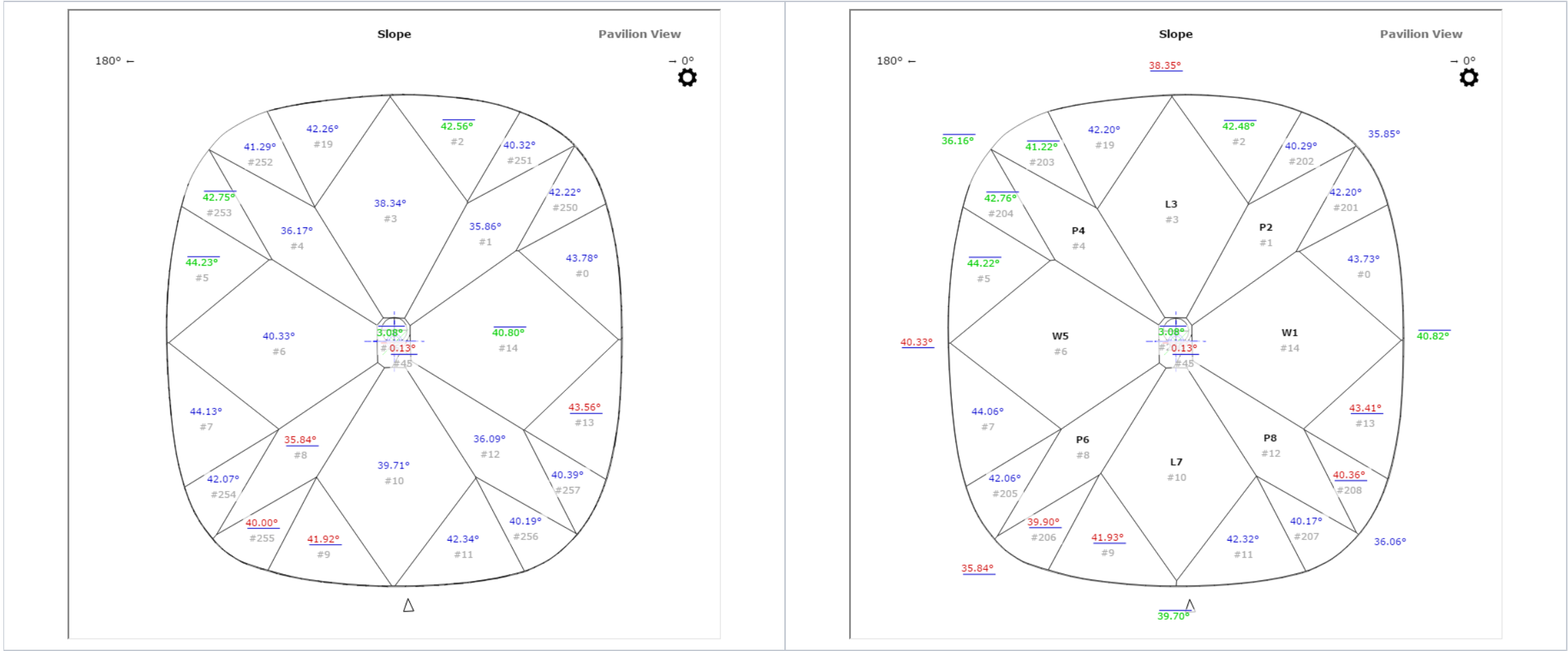


Parameter	Avg	Min	Max	Dev	1	2	3	4	
Crown height, %	22.80	22.73	22.87	0.14	22.73	22.87	N/A	N/A	
Crown Width height, %	22.80	22.73	22.87	0.14	22.73	22.87	–	–	
Crown Length height, %	23.49	22.85	24.14	1.29	24.14	22.85	–	–	
Crn Main Width height, %	22.37	22.34	22.40	0.05	22.40	22.34	–	–	
Crn Main Length height, %	22.93	21.97	23.90	1.93	23.90	21.97	–	–	
Crown Corner height, %	23.52	22.44	25.45	3.00	22.81	22.44	23.37	25.45	
Pavilion height, %	39.75	39.49	40.00	0.51	40.00	39.49	N/A	N/A	
Pavilion Width height, %	39.75	39.49	40.00	0.51	40.00	39.49	–	–	
Pavilion Length height, %	39.32	38.85	39.79	0.94	38.85	39.79	–	–	
Pav Main Width height, %	39.29	38.96	39.62	0.66	39.62	38.96	–	–	
Pav Main Length height, %	38.61	38.45	38.78	0.32	38.45	38.78	–	–	
Pavilion Corner height, %	38.46	38.08	39.03	0.95	38.34	39.03	38.41	38.08	
Table: Side, %	51.53	49.55	53.51	3.95	49.55	53.51	–	–	
Table: Corner w.r.t. Corner, %	56.24	56.05	56.43	0.38	56.05	56.43	–	–	
Table: Corner w.r.t. Width, %	66.19	66.00	66.37	0.37	66.00	66.37	–	–	
Diameter: Corner, %	117.69	117.62	117.76	0.14	117.76	117.62	–	–	
Crown Star Length, %:	49.30	47.95	50.87	2.92	–	–	–	–	
Crown Star Width, %	51.27	49.25	54.07	4.82	–	–	–	–	
Girdle thickness, %	6.44	6.26	6.63	0.37	–	–	–	–	
Culet, %	10.62	7.31	12.04	4.73	–	–	–	–	
Crown angle, °	42.72	42.67	42.78	0.11	42.78	42.67	–	–	
Crown Main angle, °	42.72	42.67	42.78	0.11	42.78	42.67	N/A	N/A	
Crn Main Width angle, °	42.72	42.67	42.78	0.11	42.78	42.67	–	–	
Crn Main Length angle, °	43.11	43.04	43.19	0.15	43.19	43.04	–	–	
Crown Corner angle, °	42.64	41.42	45.45	4.03	42.25	41.42	41.45	45.45	
Crn Star Width angle, °	33.38	32.55	34.51	1.96	32.55	34.51	32.63	33.82	
Crn Star Length angle, °	34.34	33.20	35.62	2.42	35.62	33.20	34.37	34.17	
Pav Main Width angle, °	40.58	40.33	40.82	0.50	40.82	40.33	–	–	
Pav Main Length angle, °	39.02	38.35	39.70	1.36	38.35	39.70	–	–	
Girdle thickness, %	Type	Avg	Min	Max	Dev	1	2	3	4
G. th. Width	red	6.44	6.26	6.63	0.37	6.26	6.63	–	–
G. th. Length	red	6.17	6.00	6.35	0.35	6.00	6.35	–	–
G. th. Width	red	7.01	5.46	7.84	2.38	7.84	7.52	7.21	5.46
G. th. Width	green	3.86	3.59	4.14	0.54	3.85	4.14	3.88	3.59
G. th. Length	red	3.56	3.13	4.09	0.96	3.46	3.13	4.09	3.57
G. th. Corner width	green	4.85	3.95	5.23	1.28	5.17	5.23	5.06	3.95
G. th. Corner length	green	4.05	3.20	5.39	2.19	5.39	3.37	4.23	3.20
G. th. Width	yellow	5.94	5.74	6.16	0.42	6.03	6.16	5.74	5.84
G. th. Length	yellow	5.25	3.92	6.17	2.25	6.17	3.92	5.84	5.08

Facets' angles



Resulting I3D Pavilion View

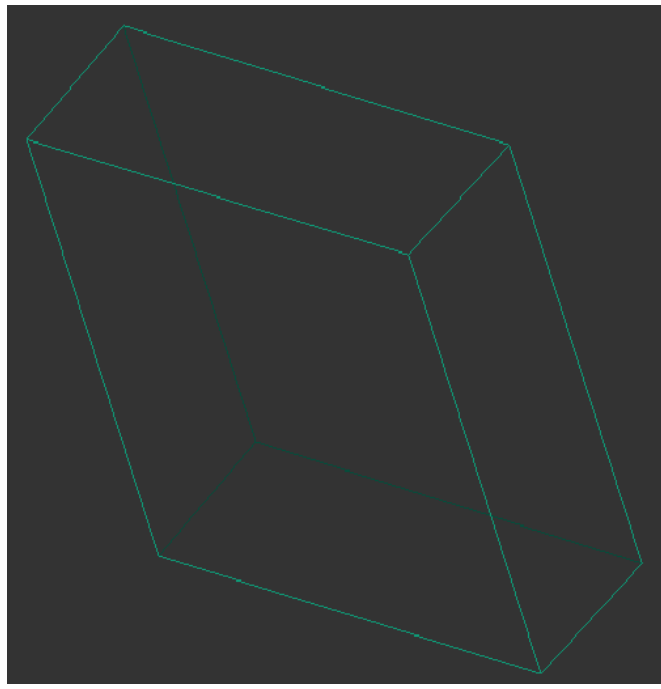
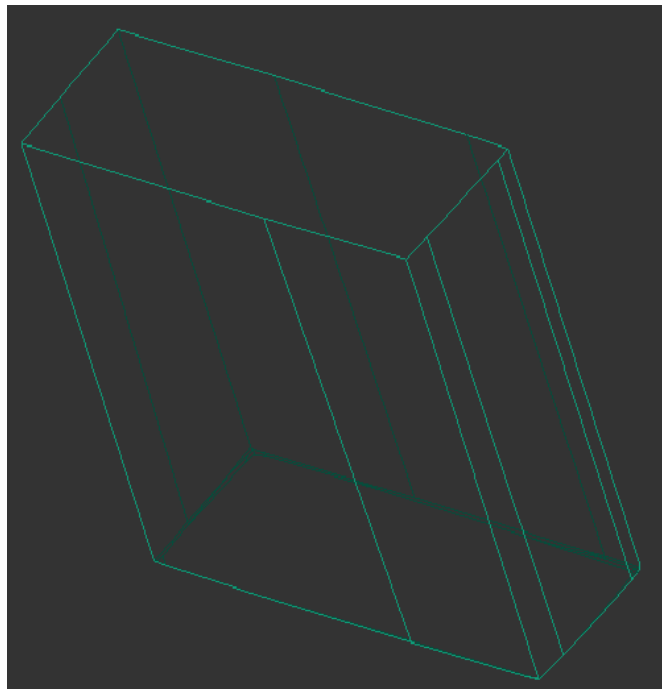
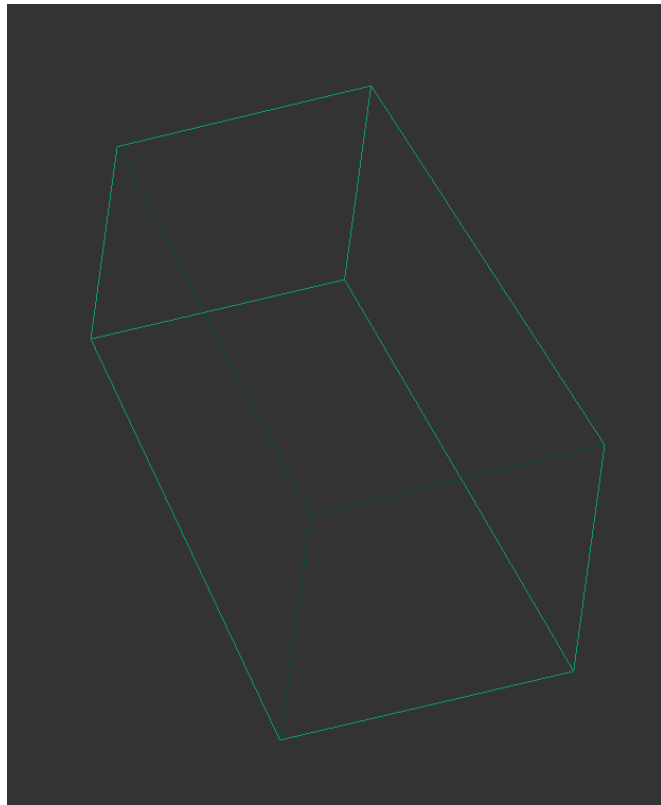
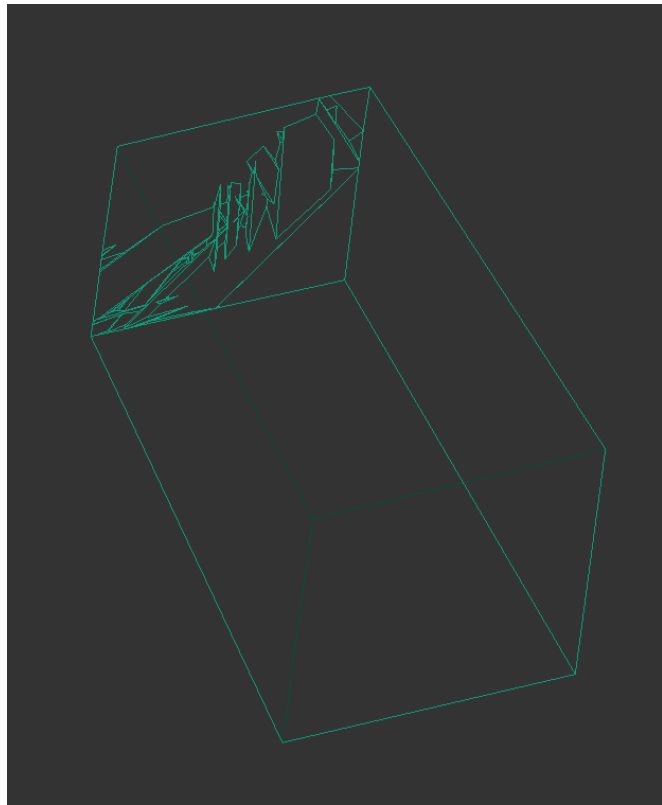


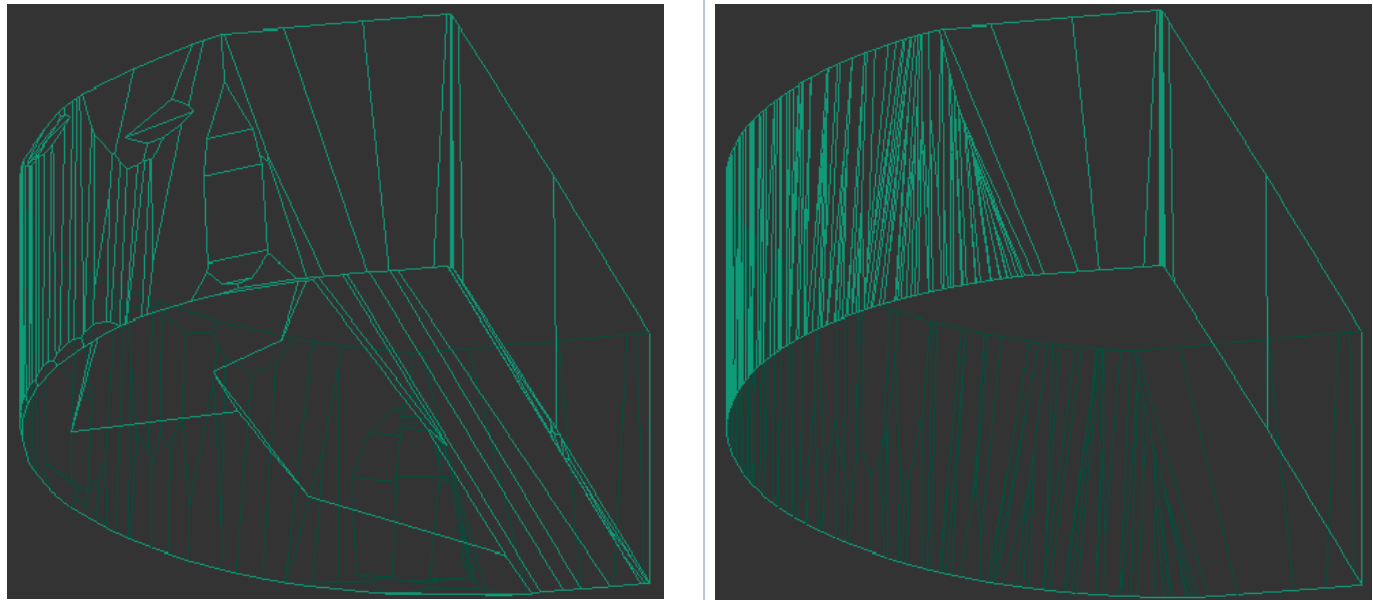
- You can **view the facet marking** of your sample (DMC format). Do one of the following:
 - As you select your sample in **Cutting & Method**, it is added to the **Models** section. There click its name, then on the right panel, click **Facet Marking**.
 - Open your DMC in HP Carbon and then click the **Facet Marking** button on the right panel. The file can be opened by:
 - Drag and drop your DMC to the HP Carbon window.
 - In HP Carbon, select File > Open, navigate to your folder, then start typing the name of your file. As soon as it is suggested, select the file and click **Open**.
- You can **change something in the facet marking** of your DMC sample. To do this, perform the steps:
 - Open DMC and its facet marking as described above.
 - Make changes to the facet marking.
 - Click **Export Sample**, specify a name for your changes version, and then click **Save**.
 - Add a new version of the sample to the system, remove the old one.

Industrial Object Models - Build and Facet Marking Improvement

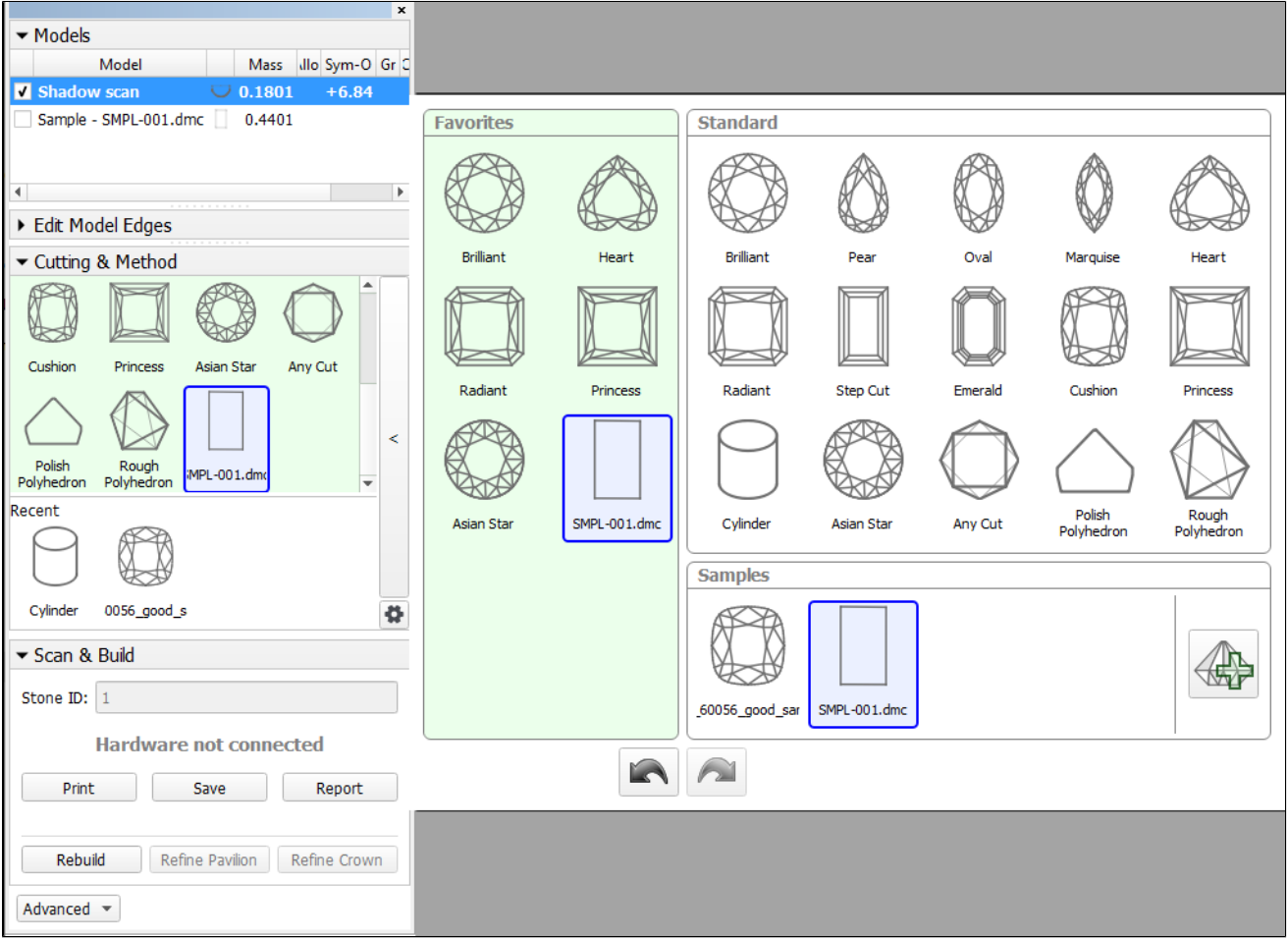
A building of industrial object models (cubes, cuboids, trapezoids, truncated cylinders) is improved.

Was	Now
-----	-----





For such models, it is also necessary to apply a facet marking from your sample.



To build a good model for your simple object and automatically apply a facet marking from your sample to it:

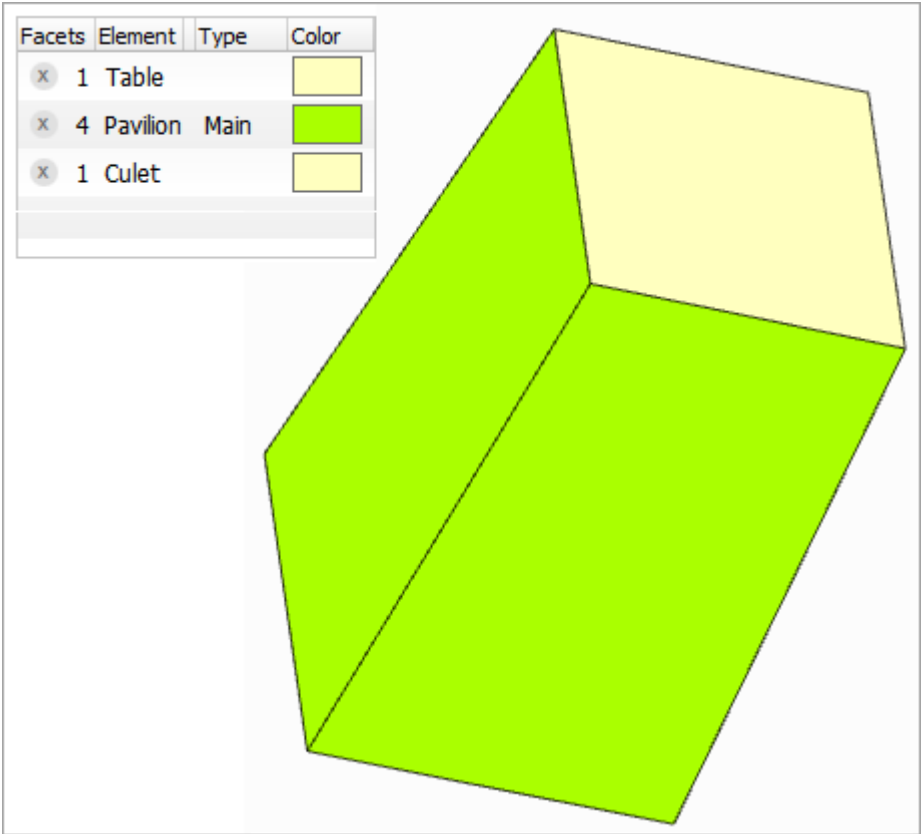
1. Prepare your DMC sample with the appropriate facet marking.
2. Use the Scan mode.



3. In the **Cutting & Method** section, add your sample to the list.
4. Select your sample as a cutting. The system will automatically set the optimal method.
5. Start scanning.

The model of your object is built using one of the improved methods and added to the **Models** section. Its facet marking is automatically taken from your sample.

Trapezoid Workflow



Now you can use the system to quickly obtain important information (*report*) about your trapezoid-like objects:

ILLUSTRATED REPORT FOR TRAPEZOID

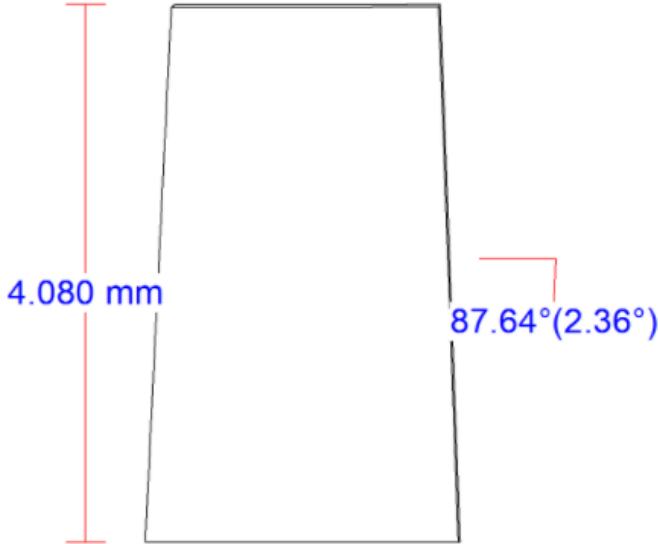
StepCut22.10.2020

Model	Shadow scan 8
Expert name	N/A
Scale weight, ct	N/A
Corrected mass, ct	0.34, 0.3442
Spread	-0.27ct, -394.04 %
Extra Facet Girdle / Nat	No

Width	Length	Ratio (L/W)	Table Average	Table Minimum	Table Maximum	Table Deviation	Total height
2.342 mm	2.377 mm	1.015	2.359 mm	2.342 mm	2.377 mm	0.034 mm	4.080 mm

Parameter	Avg	Min	Max	Dev	1	2	3	4
Pavilion angle, °	87.64	87.24	88.05	0.81	88.05	87.89	87.40	87.24

W: 2.019 mm, L: 2.041 mm, L/W:1.011

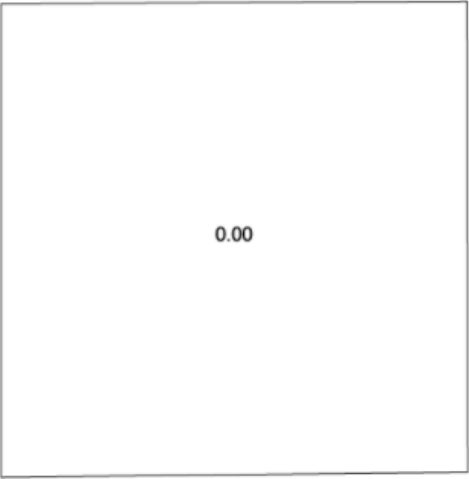
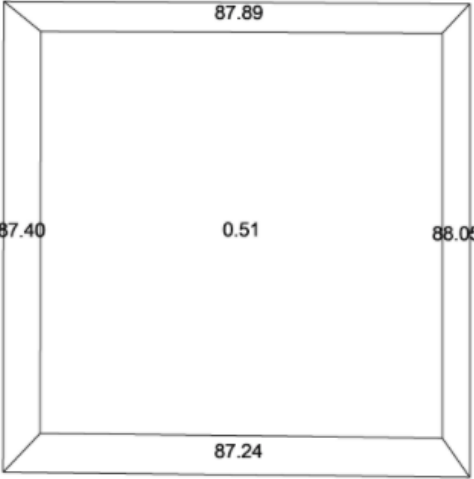


W: 2.342 mm, L: 2.377 mm, L/W: 1.015

Facets' angles

Door 75°
▽

Door 75°
▽

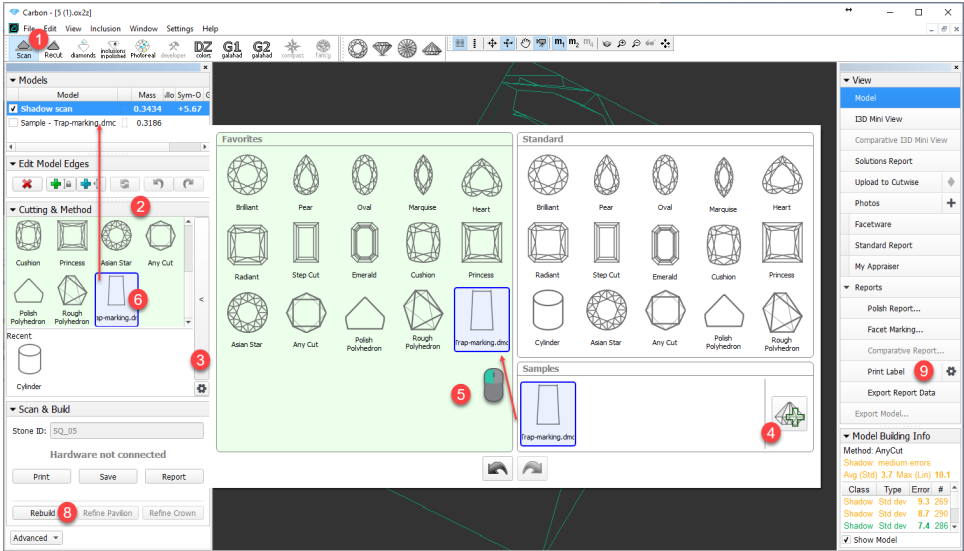


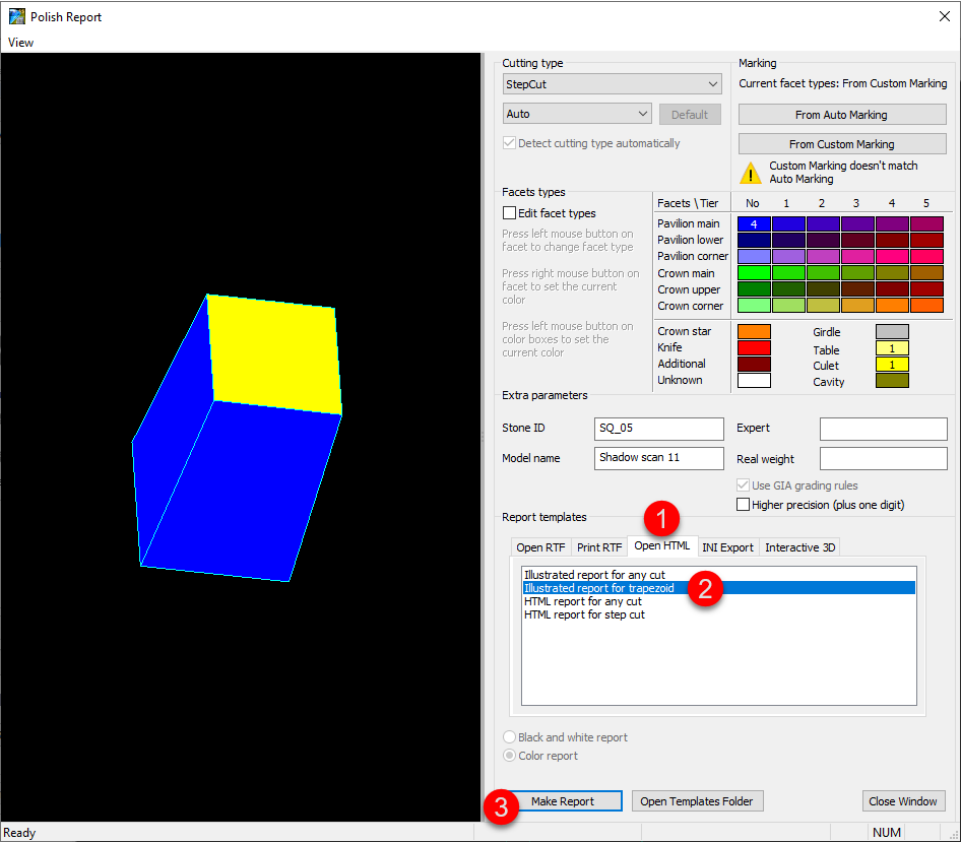
What is improved and added to the system and for what?

Type of Update	Feature	Description	Why that was not enough?
New	HTML illustrated report for trapezoid Described in this Release Notes in HTML Illustrated for Trapezoid	Gives you all the important parameters and pictures of your trapezoid model.	Before running the report, you need a good model with the appropriate facet marking.
Improved	Method of building the trapezoid-like models during the scanning Described in this Release Notes in Industrial Object Models - Build and Facet Marking Improvement	The methods used for building trapezoid-like models are improved: you do not obtain unnecessary extra facets any more, the model is more precise.	Problem 1: you need to think about which method to select. Problem 2: even the good model needs an appropriate facet marking - previously scans did not obtain facet marking automatically.
New	When scanning/rebuilding using the sample trapezoid: <ul style="list-style-type: none">• automatic selection of method• automatic transfer of facet marking from sample to scan Described in this Release Notes in Scanning - Applying Facet Marking from Sample	If during scanning/rebuild you use your own sample trapezoid as cutting, the appropriate method will be detected by the system automatically, and your good facet marking will be automatically transferred from sample to your scan.	This gives you all except the report - which was given is step 1!

How to work?

1. Use the **Scan** mode.
2. Use the **Cutting & Method** section.
3. Expand the section.
4. Add your sample.
5. If necessary, drag your sample to the **Favorites** list.
6. Select your sample to be used as cutting. The sample will be added to the **Models** section.
7. To check the facet marking of your sample, in the **Models** section, click your sample, then on the right panel, click **Facet Marking**.
 - a. Side facets of your trapezoid should be marked as "Pavilion - Main".
 - b. If you want to modify the facet marking of your sample, in the Facet Marking dialog make your changes, then click **Export Sample** and save as DMC.
 - c. You will need to add a changed version of the sample and then use it (repeat step 2).
 - d. Remove the old sample from the **Samples** list.
8. Run **Scan** or **Rebuild**. Your new scan is added to the **Models** section.
9. With your new scan selected, on the right panel, click **Polish Report**, go to **Open HTML**, then select "Illustrated report for trapezoid" and **Make Report**.





ILLUSTRATED REPORT FOR TRAPEZOID

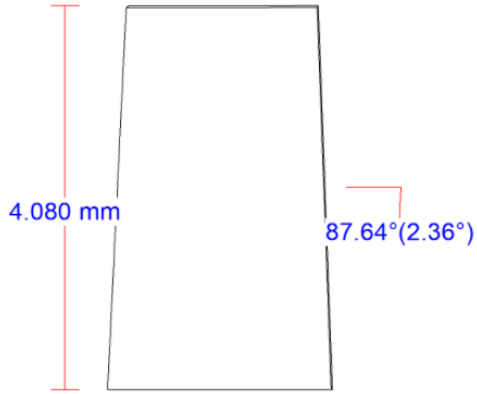
StepCut22.10.2020

ModelShadow scan 8
Expert nameN/A
Scale weight, ctN/A
Corrected mass, ct0.34, 0.3442
Spread-0.27ct, -394.04 %
Extra Facet Girdle / NatNo

Width	Length	Ratio (L/W)		Table Average	Table Minimum	Table Maximum	Table Deviation	Total height
2.342 mm	2.377 mm	1.015		2.359 mm	2.342 mm	2.377 mm	0.034 mm	4.080 mm

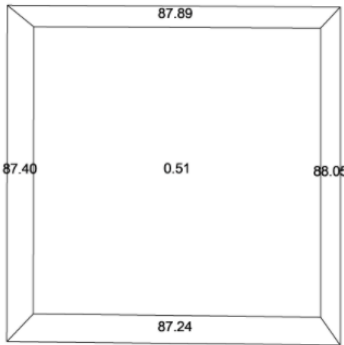
Parameter	Avg	Min	Max	Dev	1	2	3	4
Pavilion angle, °	87.64	87.24	88.05	0.81	88.05	87.89	87.40	87.24

W: 2.019 mm, L: 2.041 mm, L/W:1.011

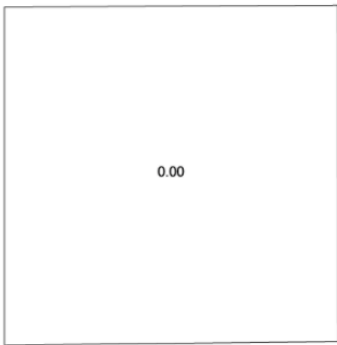


Facets' angles

Door 75°
▽



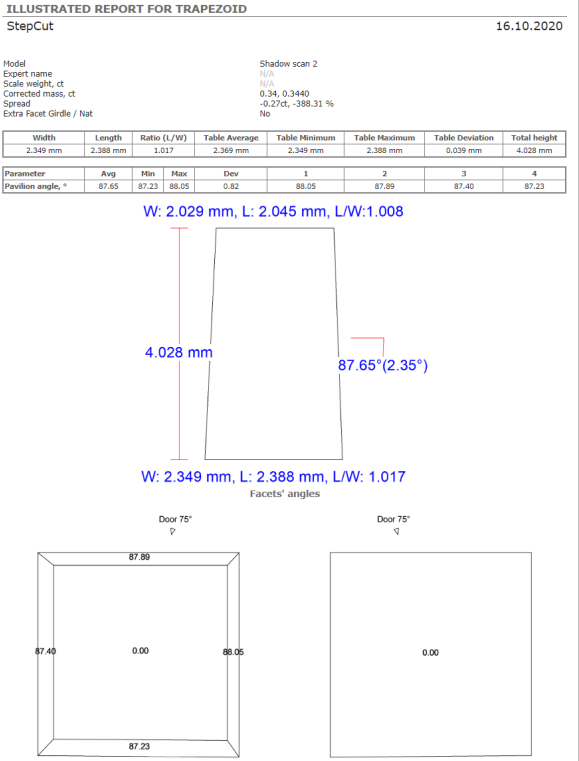
Door 75°
▽



Polish Report Templates

HTML Illustrated for Trapezoid

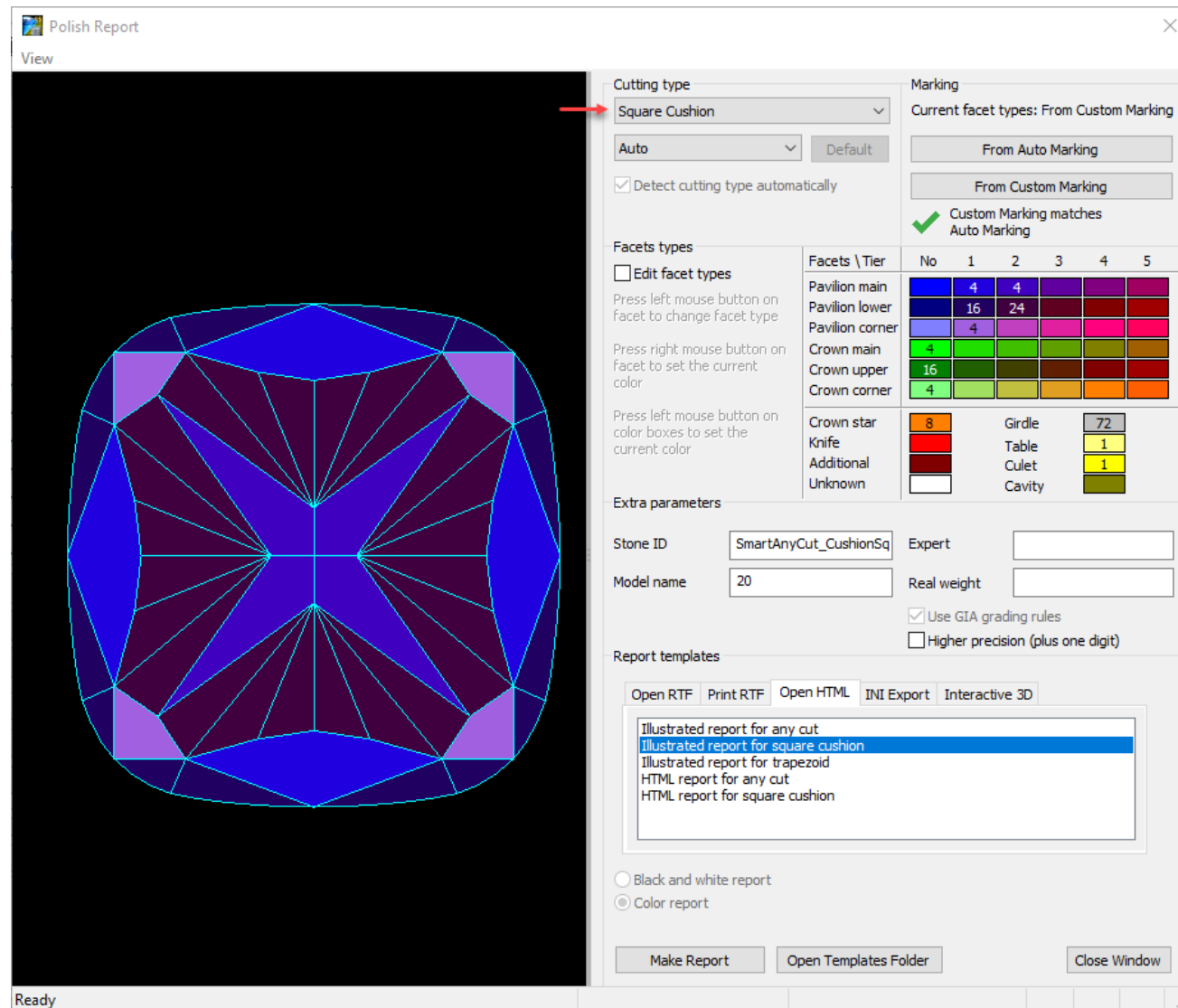
The new template for Polish Report is added - HTML Illustrated for Trapezoid.



This template is an essential part of the [Trapezoid Workflow](#).

Square Cushion - Cutting Type Support and Reports

Now in Polish Report, the **Cutting Type** list includes "Square Cushion".



The following report templates are added for this cutting type:

- HTML
 - Illustrated report for square cushion
 - HTML report for square cushion
- I3D

Octonus

Interactive 3D Report

Version 2.0.1

Preset Manager

Print page

Report for Square Cushion

SmartAnyCut_CushionSquare_001_ver1

Polished Square Cushion

01.10.2020

Model: 20

Expert name: N/A

Scale weight, ct: N/A

Corrected mass, ct: 4.87, 4.8738

Spread: -1.09 ct, -28.79 %

Extra Facet Girdle / Nat: No

Width	Length	Ratio (L/W)	Corner Ratio	Diameter Minimum	Diameter Maximum
9.372 mm	9.561 mm	1.020	1.000	9.372 mm	10.838 mm

Total height	Crown height	Pavilion height	Table: Side	Culet	Girdle
6.335 mm	1.371 mm	4.588 mm	5.784 mm	0.000 mm	0.376 mm
67.60 %	14.63 %	48.96 %	61.10 %	0.00 %	4.01 %

▼ Photorealistic Images:

ASET + White

Arrows

Image of diamond with arrows

IdealScope

Hearts

Image of diamond with hearts

Office

AI Gilbertson + White

Image of diamond with AI Gilbertson + White

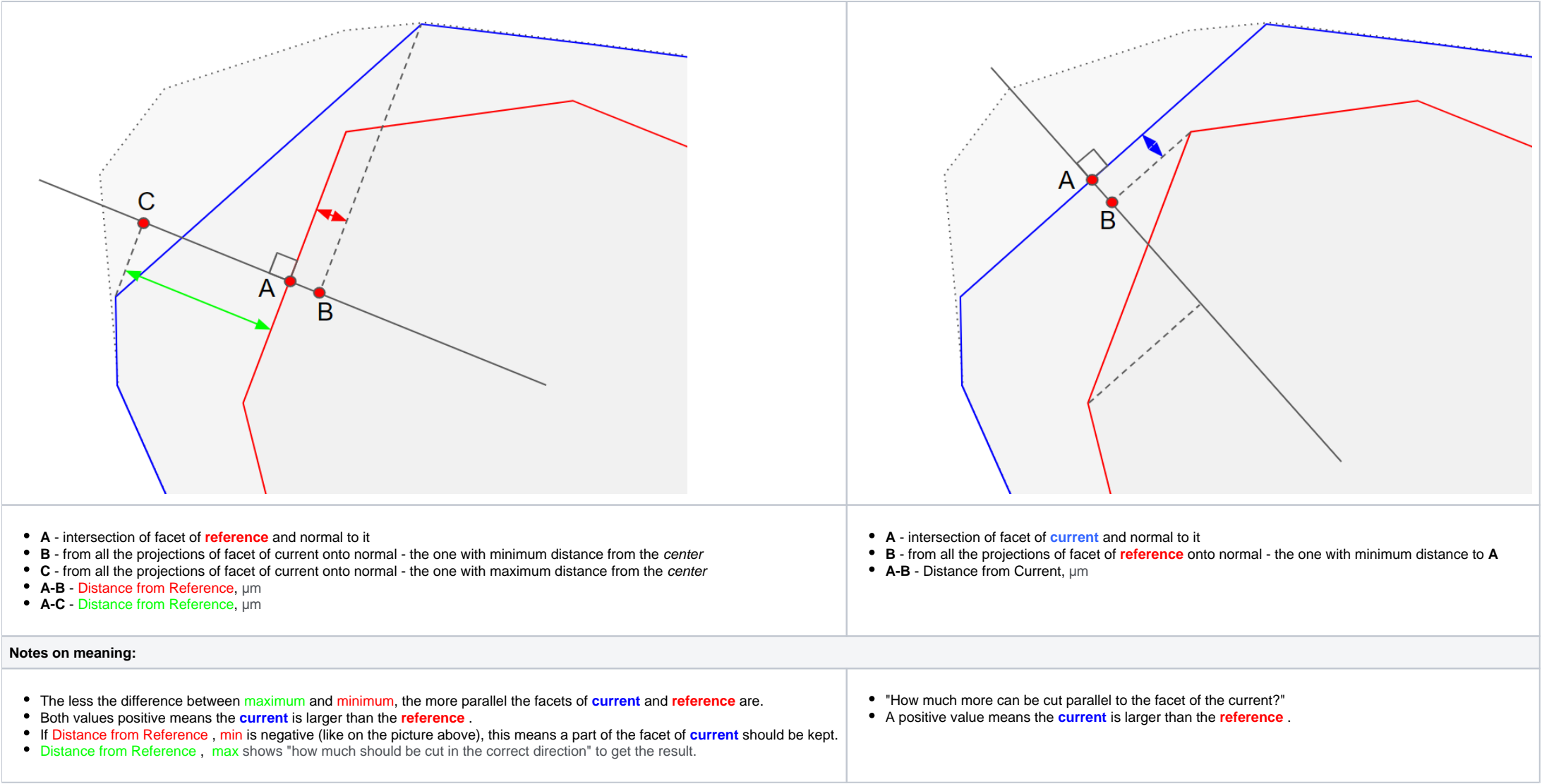
Also, the Standard Report for Square Cushion is updated correspondingly.

Comparative I3D Mini View - Distance from Reference/Current

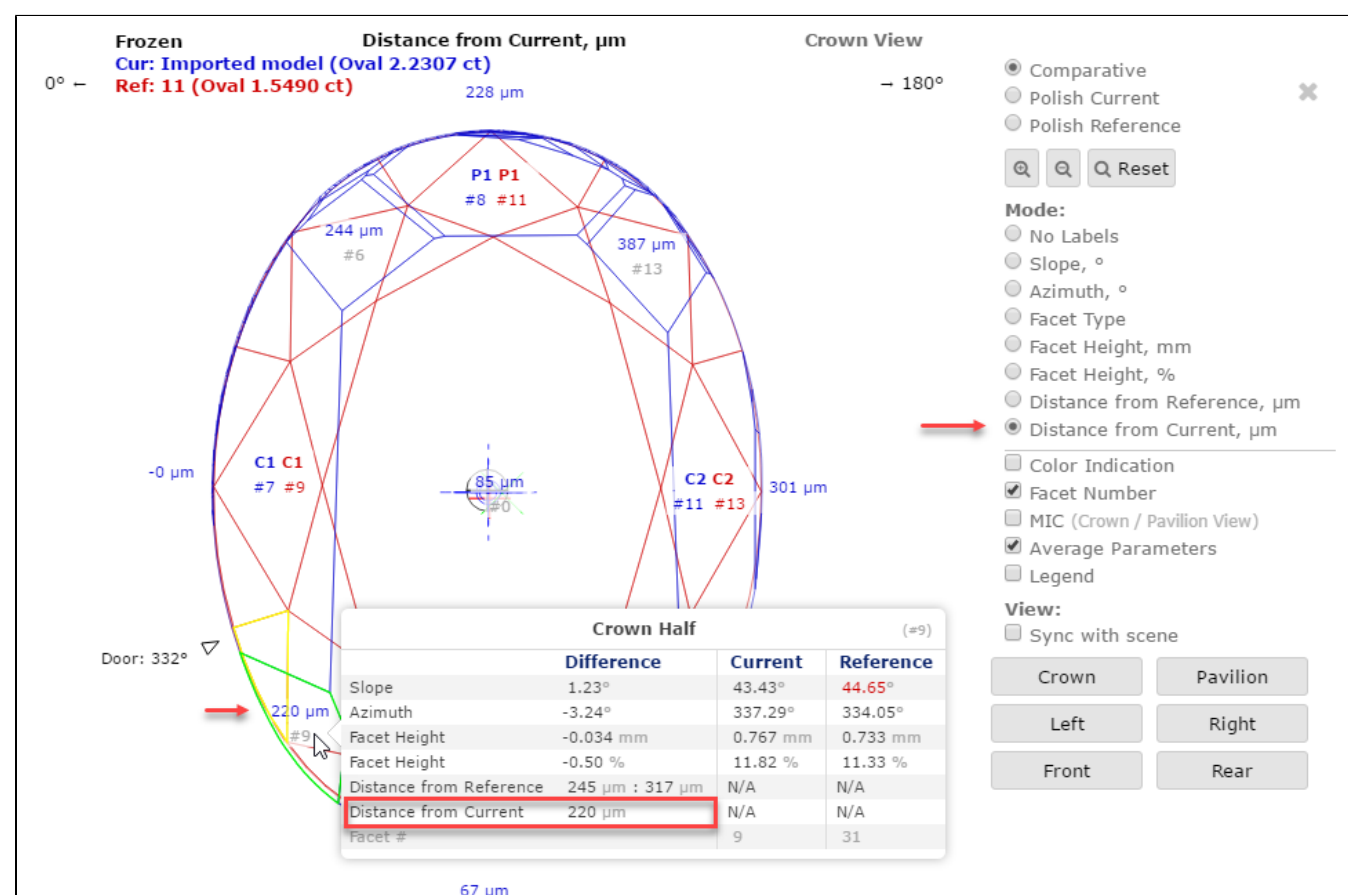
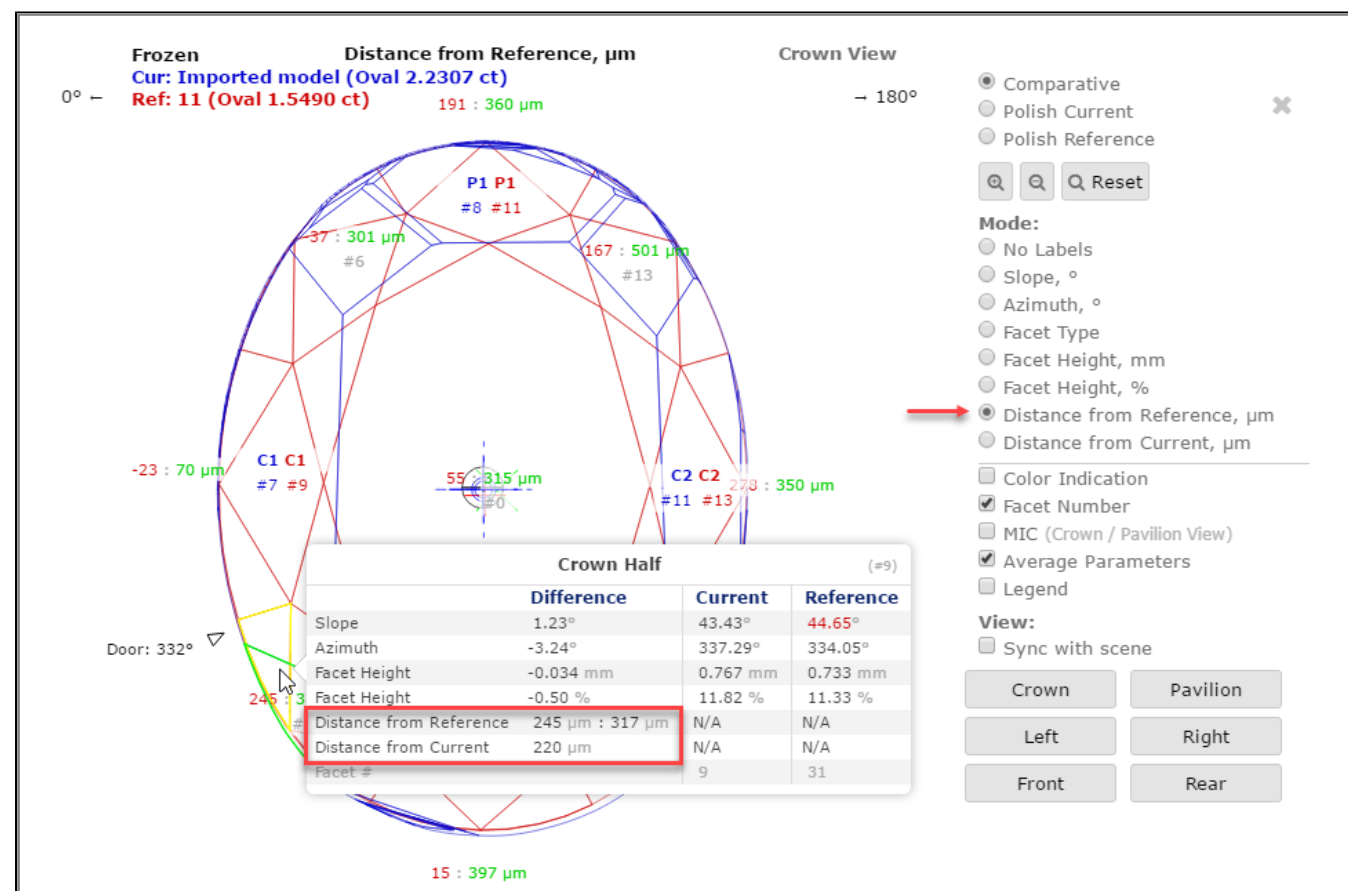
For the [Comparative I3D Mini View](#), two new modes are added:

- Distance from Reference, μm
- Distance from Current, μm

Distance from Reference, μm	Distance from Current, μm
--	--------------------------------------




Here is an example:



New Smart Recut Parameters

The new parameter is added to the appraisers used by the Smart Recut algorithms.

SquareDeviation Tolerance

 This parameter is applicable to the following cuts: AnyCut.

The parameter is used in the same way as the [Square Deviation](#) of the Oval cut. Unlike **Square Deviation**, the **SquareDeviationTolerance** (used by Smart Recut only) is set via presets and limits not the value of the parameter, but its deviation from the value of the starting model.

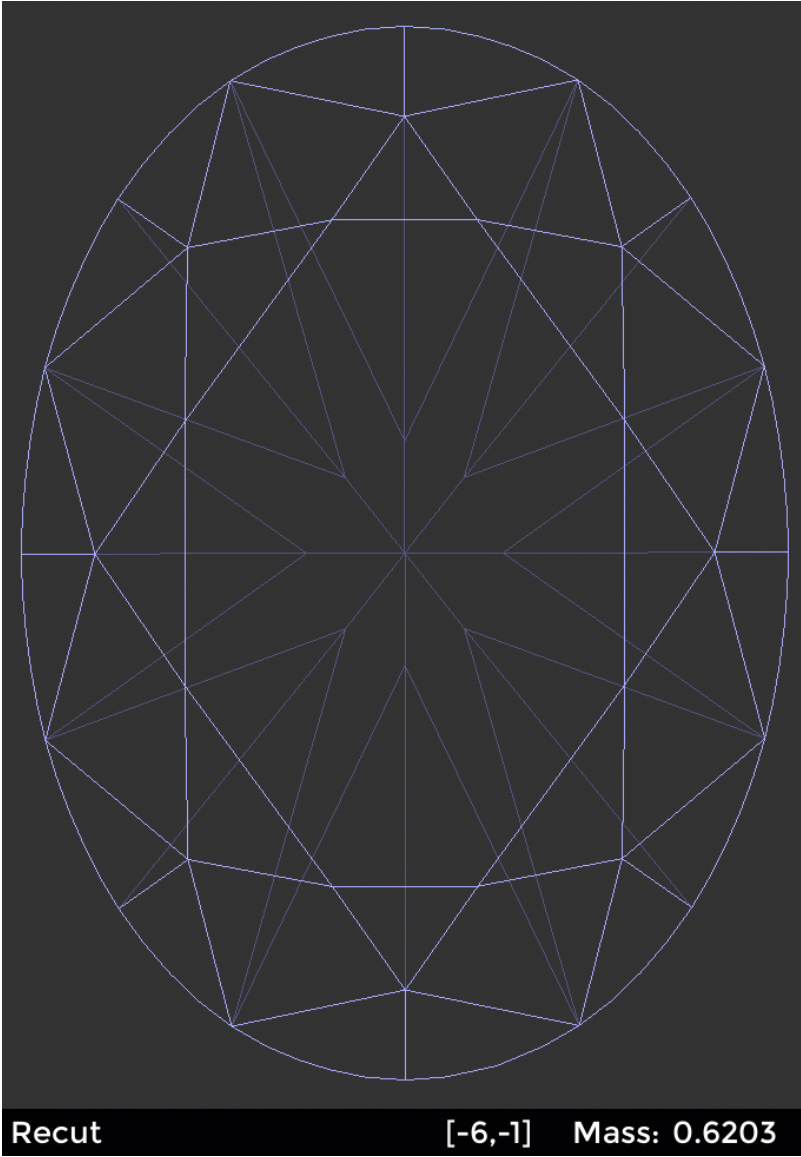
Calculation

The parameter is calculated in the same way as the [Square Deviation](#) of the Oval cut.

Usage and Examples

Here is an example of how the parameter affects a girdle shape and mass:

[117_SM_10137_Square DeviationTolerance.ox2z](#)



Reporting

Reported in	Section	Values	Units	Bookmarks	Name in Reports
None	NA	NA	NA	NA	NA

Visualization in Appraisers

- MyAnyCutOpt | MyAnyCut
- CushionRectangular_Opt | CushionRectangular
- CushionSquare_Opt | CushionSquare

Value	Units	Bookmark	Tab	Parameter Name	Comment
Avg (the only value)	None	NA	Cut	SquareDeviationTolerance	Visible only when presets are displayed.

G1 Galahad

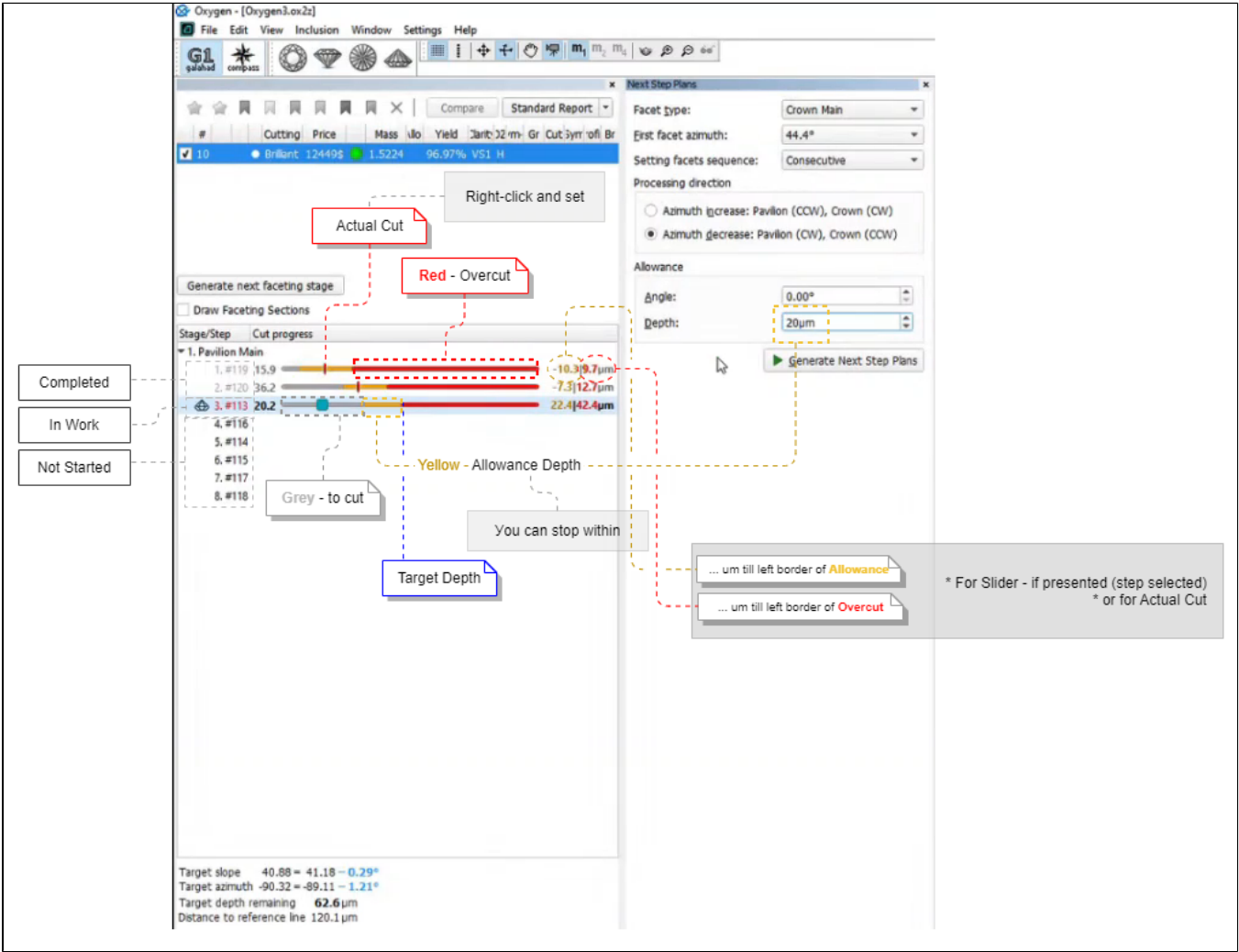
New Features

For the **G1 Galahad** mode, the new features were added. As this functionality is shared with the Galahad Compass product, see details in the Galahad Compass documentation:

- Release notes [2020.10.21 - Carbon Compass 1.1.13](#) (public)
- Release notes for the [currently developed](#) Galahad Compass release (internal)

Here is a brief overview of what is new:

- Workflow improvements
 - Actual Cut and 4 Colors for Steps
 - Order of Work - Stages and Steps
 - Actual Cut Model
 - Protection of Overcut Area ("lock" icon)



Slope Allowance Parameter

In the **Next Step Plans** panel, the **Allowance** section, the **Angle** parameter is renamed to **Slope**. The usage of the parameter is temporarily blocked (next step calculation does not consider this parameter) due to technical reasons (planned to be restored in the upcoming releases).

Was	Now
-----	-----

Next Step Plans

Facet type: Crown Main

First facet azimuth: 0.4°

Setting facets sequence: Consecutive

Processing direction

☒ Azimuth increase: Pavilion (CCW), Crown (CW)
 ☐ Azimuth decrease: Pavilion (CW), Crown (CCW)

Allowance

Angle: 0.00°

Depth: 0,0µm

Next Step Plans

Facet type: Crown Half

First facet azimuth: 304.5°

Setting facets sequence: Consecutive

Processing direction

☒ Azimuth increase: Pavilion (CCW), Crown (CW)
 ☐ Azimuth decrease: Pavilion (CW), Crown (CCW)

Allowance

Slope: 0.00°

Depth: 0.0µm

DZ Color Estimation - New Approach and Progress Bar

Previously for [DZ Color Estimation](#) , the calculation of Table Color was performed **after** the Pavilion Color for all the solutions - the process could take time but the progress was not anyhow displayed within the system. This caused the cases when the [export to Cutwise](#) could have been started before the calculation is finished thus the data uploaded to Cutwise did not contain the Table Color information. Now the Pavilion Color and Table Color are calculated together for each solution and the entire progress is indicated:

[illegible]

This approach guarantees that during export to Cutwise all the solutions will be exported with information about both Pavilion and Table Colors.

Natural Diamonds ▾Lab-Grown Diamonds ▾JewelryDemo CollectionsAbout ▾

Clear All

▶

💧

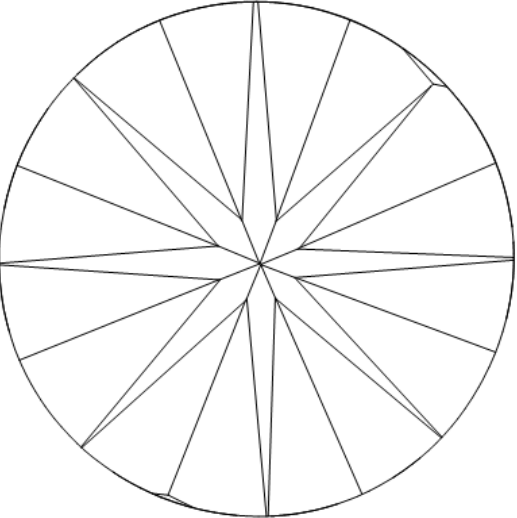
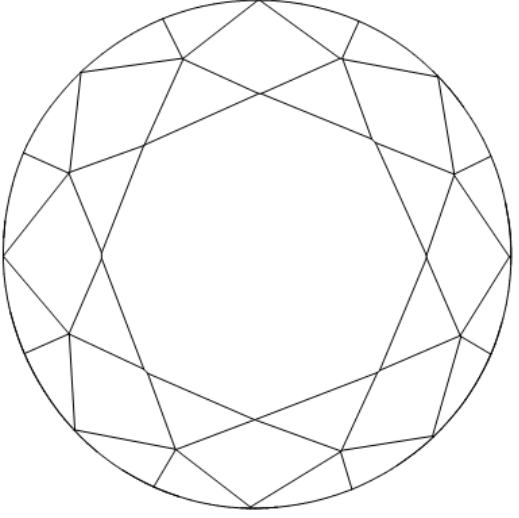
Color Loupe

🔍

	Select ▾		
	<div><div>□</div><div>⚖️</div><div>♥️</div><div>⋮</div><div>□</div><div>⚖️</div><div>♥️</div><div>⋮</div><div>□</div><div>⚖️</div><div>♥️</div><div>⋮</div></div>		
	<div><div>🚫</div><div>Photoreal</div><div>🚫</div><div>Photoreal</div><div>🚫</div></div>		
	Product SKU	2-TestSimultaneousPavT...	1-TestSimultaneousPavT... TestSimultaneousPavTab...
	Price	\$860.00	\$5,684.00 —
	Price Per Carat	\$2,000.00/ct	\$5,800.00/ct —
	🔒 Carat Weight	0.43ct	0.98ct 1.02ct
	🕒 Color	G	H —
	🕒 Pavilion Color	G 80% / H 20%	H 93% / I 7% G 10% / H 90%
	🕒 Table Color	J 20% / K 80% (+3.6)	H 82% / I 18% (+0.1) H 82% / I 18% (+0.3)
	Diameter Ratio	1.501	1.006 1.008

Polish RTF Reports - Views without Invisible Edges with Rotation

In the Polish RTF Full Report, there are Pavilion and Crown views without indication of invisible edges (PAVILION_VIEW and CROWN_VIEW bookmarks):

	
Pavilion view without indication of invisible edges	Crown view without indication of invisible edges

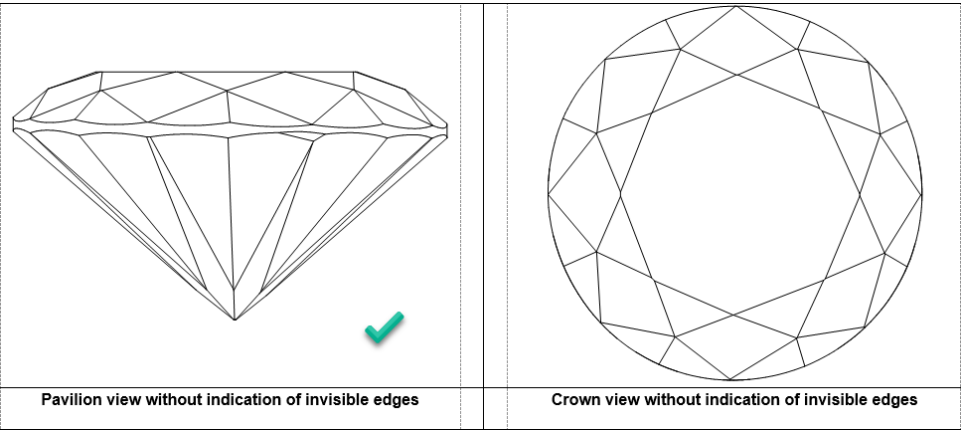
Now you can change the rotation of the model presented on these images. To do this:

- 1. In the template, locate PAVILION_VIEW or CROWN_VIEW bookmark.
- 2. Replace bookmarked text as follows:

Was	Now	Comment
-----	-----	---------

[Width=73;Height=73;]	[Width=74;Height=74;PictureID=DRAW_DIAMOND;PavilionView=1;Circle=0;Parameter=0;FontSize=0;X=22.5;Y=90;]	X and Y with values are responsible for rotation.
-----------------------	---	---

3. Make sure, your bookmark continues to enclose the parameters, including brackets.
4. Save the template.



Also, other Polish RTF reports support adding the same images with the rotation you need.

Below is the example showing how the rotated Pavilion view without invisible edges can replace the standard image in the Polish RTF Illustrated report for brilliant:

1. Open the template you want to change via the right panel > **Polish Report** > **Open Templates Folder**, then opening the template file in MS Word.
2. Delete the bookmark of the image we want to replace.

BRILLIANT REPORT TO - LAB - PART									
Report ID: 123456789									
Client: ABC DEF GHI									
Lab: JKL MNO PQR									
Report Date: 2023-10-27									
Report Time: 14:30									
Report User: J. Kowalski									
Report Version: 1.0									
Report Status: Final									
Report Type: Standard									
Report Category: Brilliant									
Report Subcategory: Pavilion View									
Report Description: Pavilion view without indication of invisible edges									
Report Parameters: X=22.5;Y=90									
Report Notes: See also: [Pavilion View]									
Report Footer: Copyright © 2023 ABC DEF GHI. All rights reserved.									

Parameter	Value	Unit	Comment
Carat Weight	0.50	Carat	
Color	F		
Clarity	VS1		
Cut	Excellent		
Shape	Round		
Depth	61.5	mm	
Table	56.0	mm	
Height	39.0	mm	
Width	53.0	mm	
Length	53.0	mm	
Weight	0.50	Carat	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³	
Surface Area	1.04	mm²	
Perimeter	10.6	mm	
Area	0.78	mm²	
Volume	0.23	mm³</	

5. At the very bottom of the page, in the small font string, at the end of the string but before closing square bracket, put comma then (without space) PAVILION_VIEW1.

Overall cut quality / symmetry quality		N/A / N/A
Final grade		N/A
Model building info		N/A
Color		
Clarity		
Polish		
Fluorescence		

Report type: PolishRTF.VisibleName: Illustrated report for brilliant.Cutting type: Brilliant.Pictures: POLISH_ANGLES_REPORT_FAT_ANGLES.POLISH_ANGLES_REPORT_CRN_ANGLES.PAVILION_VIEW1

6. If necessary, to set boundaries for your image, insert columns or/and rows using the MS Word **Table** tool.

ILLUSTRATED REPORT FOR BRILLIANT							
Polished N/A							
N/A							
Model							
Expert name							
Scale weight, ct							
Corrected mass, ct							
Measurements							
Spread							
AGS Spread							
Extra Facet Girdle / Nat							
Width	Length	Ratio (L/W)	Diameter Minimum	Diameter Maximum	Diameter Average	Total height	
N/A mm	N/A mm	N/A	N/A mm	N/A mm	N/A mm	N/A mm	
Crown height	Position height	Table	Culet	Girdle height			
N/A mm	N/A mm	N/A mm	N/A mm	Bezel	Stone	Valley	
N/A mm	N/A mm	N/A mm	N/A mm	N/A mm	N/A mm	N/A mm	
[Width=74,Height=74,PictureID=DRAW_DIA,MOND-PAVILIONView=1,Cutside=6,Parameter=0,FontSize=0,X=22.5,Y=90]							

7. Save changed report template.



Note

If you want to save changes as a separate template, use **Save As** - before saving, in the small font string, change the **VisibleName** parameter.

The resulting report will look like:

ILLUSTRATED REPORT FOR BRILLIANT		12-10-2020				
Polished Brilliant						
Model						
Expert name						
Scale weight, ct						
Corrected mass, ct						
Measurements						
Spread						
AGS Spread						
Extra Facet Girdle / Nat						
Width	Length	Ratio (L/W)	Diameter Minimum	Diameter Maximum	Diameter Average	Total height
10.700 mm	10.700 mm	1.000	10.700 mm	10.700 mm	10.700 mm	6.000 mm
Crown height	Position height	Table	Culet	Girdle height		
1.574 mm	4.660 mm	0.337 mm	0.000 mm	0.442 mm	0.402 mm	0.200 mm
Parameter						
Avg						
Min						
Max						
Dev						
Cut						
Sym						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79						
80						
81						
82						
83						
84						
85						
86						
87						
88						
89						
90						
91						
92						
93						
94						
95						
96						
97						
98						
99						
100						
101						
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						
121						
122						
123						
124						
125						
126						
127						
128						
129						
130						
131						
132						
133						
134						
135						
136						
137						
138						
139						
140						
141						
142						
143						
144						
145						
146						
147						
148						
149						
150						
151						
152						
153						
154						
155						
156						
157						
158						
159						
160						
161						
162						
163						
164						
165						
166						
167						
168						
169						
170						
171						
172						
173						
174						
175						
176						
177						
178						
179						
180						
181						
182						
183						
184						
185						
186						
187						
188						
189						
190						
191						
192						
193						
194						
195						
196						
197						
198						
199						
200						
201						
202						
203						
204						
205						
206						
207						
208						
209						
210						
211						
212						
213						
214						
215						
216						
217						
218						
219						
220						
221						
222						
223						
224						
225						
226						
227						
228						
229						
230						
231						
232						
233						
234						
235						
236						
237						
238						
239						
240						
241						
242						
243						
244						
245						
246						
247						
248						
249						
250						
251						
252						
253						
254						
255						
256						
257						
258						
259						
260						
261						
262						
263						
264						
265						
266						
267						
268						
269						
270						
271						
272						
273						
274						
275						
276						
277						
278						
279						
280						
281						
282						
283						
284						
285						
286						
287						
288						
289						
290						
291						
292						
293						
294						
295						
296						
297						
298						
299						
300						
301						
302						
303						
304						
305						
306						
307						
308						
309						
310						
311						
312						
313						
314						
315						
316						
317						
318						
319						
320						
321						
322						
323						
324						
325						
326						
327						
328						
329						
330						
331						
332						
333						
334						
335						
336						
337						
338						
339						
340						
341						
342						
343						
344						
345						
346						
347						
348						
349						
350						
351						
352						
353						
354						
355						
356						
357						
358						
359						
360						
361						
362						
363						
364						
365						
366						
367						
368						
369						
370						
371						
372						
373						
374						
375						
376						
377						
378						
379						
380						
381						
382						
383						
384						
385						
386						
387						
388						
389						
390						
391						
392						
393						
394						
395						
396						
397						
398						
399						
400						
401						
402						
403						
404						
405						
406						
407						
408						
409						
410						
411						
412						
413						
414						
415						
416						
417						
418						
419						
420						
421						
422						
423						
424						
425						
426						
427						
428						
429						
430						
431						
432						
433						
434						
435						
436						
437						
438						
439						
440						
441						
442						
443						
444						
445						
446						
447						
448						
449						
450						
451						
452						
453						
454						
455						
456						
457						
458						
459						
460						
461						
462						
463						
464						
465						
466						
467						
468						
469						
470						
471						
472						
473						
474						
475						
476						
477						
478						
479						
480						
481						
482						
483						
484						
485						
486						
487						
488						
489						
490						
491						
492						
493						
494						
495						
496						
497						
498						
499						
500						
501						
502						
503						
504						
505						
506						
507						
508						
509						
510						
511						
512						
513						
514						
515						
516						
517						
518						
519						
520						
521						
522						
523						
524						
525						
526						
527						
528						
529						
530						
531						
532						
533						
534						
535						
536						
537						
538						
539						
540						
541						
542						
543						
544						
545						
546						
547						
548						
549						
550						
551						
552						
553						
554						
555						
556						
557						
558						
559						
560						
561						
562						
563						
564						
565						
566						
567						
568						
569						
570						
571						
572						
573						
574						
575						
576						
577						
578						
579						
580						
581						
582						
583						
584						
585						
586						
587						
588						
589						
590						
591						
592						
593						
594						
595						
596						
597						
598						
599						
600						
601						
602						
603						
604						
605						
606						
607						
608						
609						
610						
611						
612						
613						
614						
615						
616						
617						
618						
619						
620						
621						
622						
623						
624						
625						
626						
627						
628						
629						
630						
631						
632						
633						
634						
635						
636						
637						
638						
639						
640						
641						
642						
643						
644						
645						
646						
647						
648						
649						
650						
651						
652						
653						
654						
655						
656						
657						
658						
659						
660						
661						
662						
663						
664						
665						
666						
667						
668						
669						
670						
671						
672						
673						
674						
675						
676						
677						
678						
679						
680						
681						
682						
683						
684						
685						
686						
687						
688						
689						
690						
691						
692						
693						
694						
695						
696						
697						
698						
699						
700						
701						
702						
703						
704						
705						
706						
707						
708						
709						
710						
711						
712						
713						
714						
715						
716						
717						
718						
719						
720						
721						
722						

- Standard, automatic: via the **Upload to Cutwise** button in HP Carbon
- Manual: uploading models/reports directly (for example, as DMC files, including the ones obtained from the old HP Oxygen) via uploader

It is important to remember, that if you use the **Upload to Cutwise** function in HP Carbon, you ***should not use the manual approach*** for the same data, because after **Upload to Cutwise** is used if you try to manually upload the same models/reports, you ***will not see the new data*** in Cutwise - the one previously uploaded from the system with the **Upload to Cutwise** function will stay unchanged.

New Logo and Icons


HP Carbon now has the new logo:



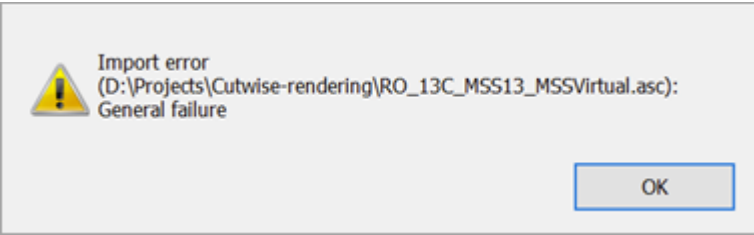
Fixed Problems and Improvements

The following fixes for the known problems and improvements are implemented:

- For Comparative I3D Mini View, synchronization with the Scene did not work in some cases - now this is fixed.

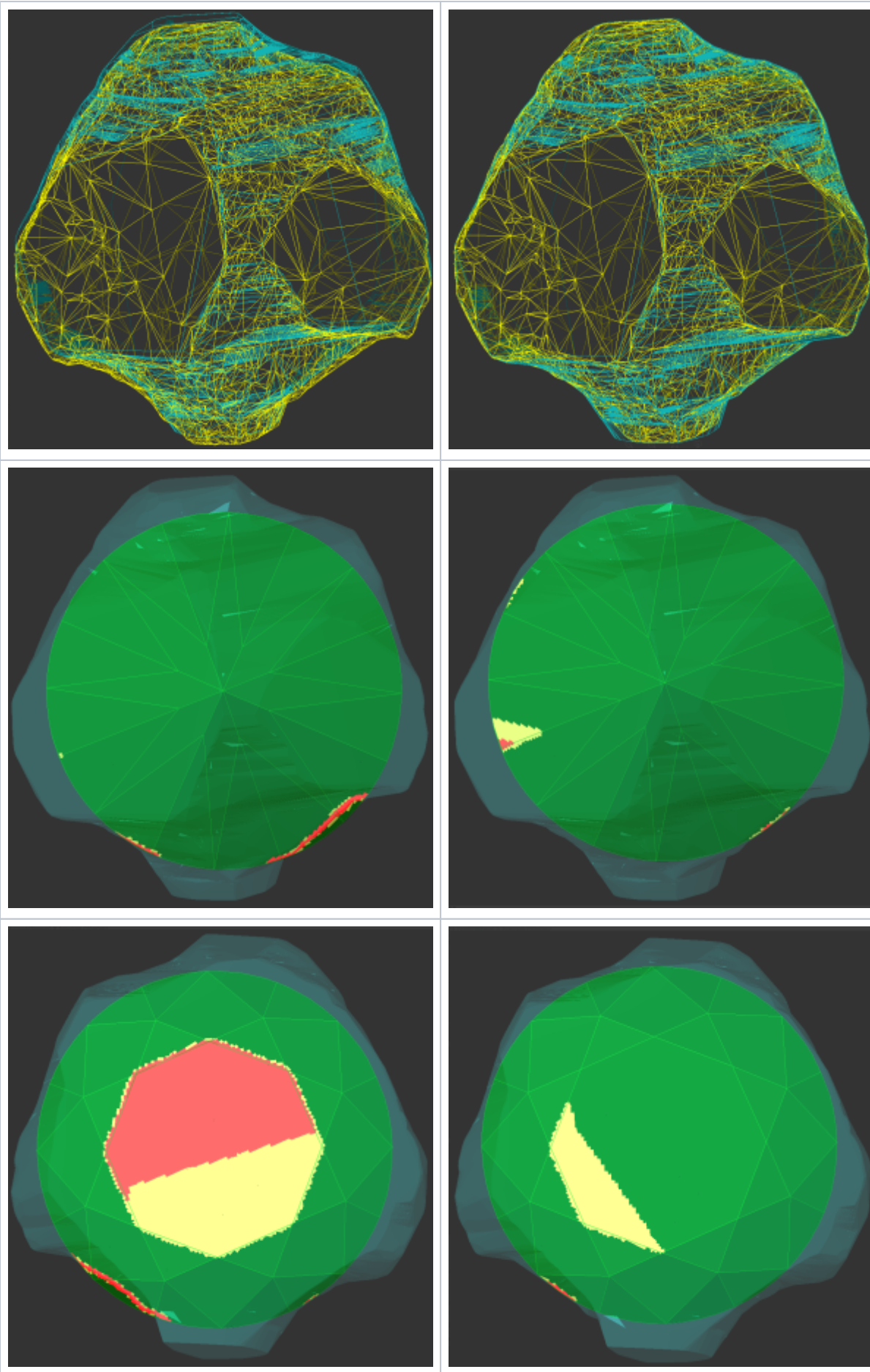
 Models in Comparative Reports are aligned by the Current model now and in particular in Comparative I3D Mini View. Due to the modification of models' alignment calculation results in Comparative Reports is changed.

- Facet Marking transfer for some cuttings is improved.
- To improve Smart Recut allocation for the big (5ct+) round stones, to the "MyRound | GIA Facetware + MyRound" appraiser, the "MyRound_ H&A 5ct+" profile, the appropriate presets are added.
- Minor further improvements are made for the Smart Recut mechanism of [creating girdle extra facets](#). Read about this *mechanism improvement* in the previous release on the [2020-08-11 - HP Carbon 1.0.0](#) page.
- For the Princess cutting, the model building is improved - the Crown is now built better.
- For the Smart Recut, when working with *multi-diamond solutions from rough* , described for the previous release ([2020-08-11 - HP Carbon 1.0.0](#) page), some additional improvements are implemented:
 - Facet marking is copied along with the diamonds copied during Smart Recut
 - A bunch of Smart Recut attributes is copied along with the diamonds
- Cutwise integration:
 - The [Upload to Cutwise](#) feature is now available on all HASP keys.
 - A new basis position is supported - "Culet" (= "Heart").
 - Solutions with cutting names in user locale were not uploaded to Cutwise - now this is fixed.
- Bug with the episodic crash of the system during file opening is fixed.
- Bug with the crash of the system during DZ Color calculation is fixed.
- A rare bug when some system settings were reset to default values is fixed.
- Autosave did not work - now this is fixed.
- During the import of scanned ASCII, an error occurred (displayed on the picture below) caused by too strict limitations. Now limitations are eased to avoid error and allow using all scanned ASCII models.



- The Rough recognition algorithm is improved.

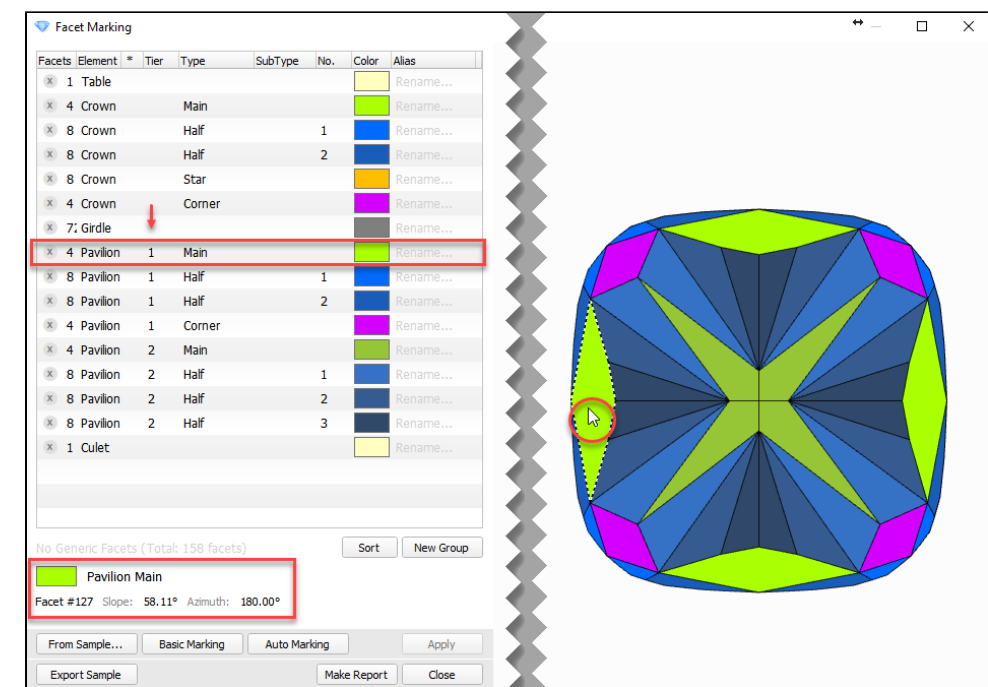
Was	Now
-----	-----



- A system crash on running Smart Recut with AnyCut composite appraiser for some specific cuttings is fixed.
- Fixed bug with wrong DZ Color Estimation of Main Scan if a project had several scanned or imported models. This issue was not affecting DZ estimation of solutions.
- The wrong model rebuild for the Oval cutting is fixed.
- In the Illustrated report for Cushion, on the image, some facet angles were not displayed - now this is fixed, all angles are presented.

- Label printing is improved to work correctly with different page sizes.
- The problem leading to an episodic crash of the Smart Normalize algorithm is solved.
- The problem with Comparative 13D Mini View freezing in some cases is solved.
- The system rare crash during Cutwise upload is fixed.
- In the 13D Report and View, for the Sakura cutting, the Table parameters were mistakenly displayed as "0.00" while they are not calculated at all - now they are displayed as "N/A".
- Smart Recut crashed the system if Solutions Report was previously opened - now this problem is fixed.
- The **Facet Marking** dialog:

- When pointing a facet, "Tier" information was not displayed in the facet info block for "Tier 1" - now this is fixed.



- For the "Cylinder" cutting, the dialog did not open (the error was displayed instead) - now this is fixed.