

2022-08-17 - HP Carbon 1.5.3

Here you can find information about what is new in HP Carbon version 1.5.3.

 This version is available for [download](#) from the Octonus official web site.

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Executive summary

There is continuing growth of interest in fancy diamonds in such specific markets like [India](#) and [the West](#). It is expected that consumers in the key Asian markets will follow the trend quite soon. Our goal is giving our clients the opportunities not just to supply the new demand smartly but also to build robust long-term positions with development of their distinctive signature products in fancies in a very commercially efficient way.

With the current release we offer manufacturers a unique chance to consistently build all-company's in-house know-how to make best performing fancies with bigger yield. With every successful cut highly appreciated by sales team and consumers, the aggregated company's knowledge expands and provides more winning options for the future cut searches. Important that starting from this release the models' parameters are kept secret, so, nobody can copy them from your company's database.

Before this release

Polishers always used available technologies and tools in the best possible way. The combination of Smart Recut, X-ray and Compass technologies provided great results for round shapes at the semi-polished stage because of the relatively limited number of parameters which describe an RBC.

The situation was quite different for fancies. The fancy shapes optimization algorithms provided solutions which were used to estimate Carat weight of future stones (to set target weight).

These solutions could not be effectively used as a direct [Galahad plan](#) for the following reasons:

- It was almost impossible to create DLL cuts with a large number of parameters because of the huge diversity of cut patterns.
- Because of this, manufacturers were forced to use ASCII cuts that had a very limited set of parameters that included just Crown and Pavilion heights, but not slopes (for example, in ASCII cut it is not possible to control the slopes for different pavilion tiers).
- With such ASCII cuts parametrization, it was impossible to obtain the maximum weight for those combinations of proportions that the client considers optimal in terms of the cut quality.

Usually, polishers finally worked out how to get more out of the stones on the basis of the recommended solutions (deciding on Slopes and Azimuths of facets). They considered a certain Crown-Pavilion range around the centers of recommended solutions. So, the result (Diamond Carat Weight and Performance) significantly depended on polishers' skills: every polisher built his mastership, but this experience could be hardly used by other colleagues and was doubtful to become the company's long-term asset.

After this release

The new release offers a new format of fancy cut description/identification: it is possible now to change not just the height but also every separate angle. The models appear now in a "multilayer" mode, which allows to change every layer independently. This gives more freedom and potential to the search of the best performing proportions.

Successful models found by polishers or as results of in-house Cut Evolution projects are to be stored in an aggregated in-house database to be used in the future optimization searches. So, with every successful model company builds its expertise incrementally. Important that for the commercial security reason the saved models will be used by optimization algorithms only, they are protected in a way that they cannot be extracted from database as sets of parameters.

In-house cut appraisers define deviation ranges for selected successful in-house models. In this way company builds own multidimensional space of recommended models with corresponding appraisers. The natural selection process guided by choice of sales team and consumers results in survival of the best spices. No bad stock with high discounts anymore. The best cut pedigrees make up the golden fund of your company, its highly valuable intangible asset, which consistently brings tangible sales and orders. Your skillful polishers contribute to in-house database, but your company does not depend on every polisher so much anymore because their craftsmanship is continuously accumulated for future in-house usage. Even novice polishers can deliver great results based on in-house stored expertise.

[In-house cut allocation](#) takes place in the following way:

- Optimization algorithm picks up the best suitable cut combinations from in-house incremental database.
- After this apply all allocation forms to find the best solution for every Rough/Semi-polished stone and optimize within a range of parameters (including Crown slope and Pavilion slope in new introducing Goodwin type of cut) according to in-house cut appraisers.

Such optimization selects solutions with maximum mass and performance close to actual proportions that were already polished in-house and approved by the sales team. These solutions are designed for direct execution by [Compass](#).

This approach provides company management and sales team with effective tools for directing and controlling polishers' job in order to reach the lucrative market segments and avoid bad stock and huge discounts.

Start to maintain the cycle of continuous building and improvement of your company's in-house incremental database right now. Every successfully polished stone secures future company's position in this highly competitive market. Secure your market share with your signature in-house cuts.

Technical details

There are more detailed description of new important tools and features of the release:

Goodwin Cut. Process flow

Goodwin cut is an advanced type of in-house cut which compared to the previous generation of cuts (aka ASCII-cuts) has more precise control over the cut geometry when changing the parameters, and also allows controlling the slopes of main facets.

Control angles for in-house cuts

To achieve excellent optical performance for in-house fancy shape cuts, it is necessary to control the Crown slope and Pavilion slope parameters, [SweetLine](#) parameter of your models.

Previously [registered new in-house cuts](#) could be only of ASCII type (limited set of parameters) - now you can select a new in-house cut to be of the [Goodwin](#) type. In addition to ASCII parameters, for such cuts, you will be able to control:

- Crown slope
- Pavilion 1 and 2 slopes
- For rectangular cuts - these slopes along width and length

In-house cuts			
ASCII	Goodwin		
Basic	1C1P	1C2P	2C3P
Parameter	Parameter	Parameter	Parameter
GirdleRatio ⓘ	GirdleRatio ⓘ	GirdleRatio ⓘ	GirdleRatio ⓘ
Table ⓘ	Table ⓘ	Table ⓘ	Table ⓘ
CrownHeight ⓘ	CrownHeight ⓘ	CrownHeight ⓘ	CrownHeight ⓘ
GirdleBezel ⓘ	GirdleBezel ⓘ	GirdleBezel ⓘ	GirdleBezel ⓘ
PavilionHeight ⓘ	PavilionHeight ⓘ	PavilionHeight ⓘ	PavilionHeight ⓘ
TotalHeight ⓘ	TotalHeight ⓘ	TotalHeight ⓘ	TotalHeight ⓘ
	CrownSlope ⓘ	CrownSlope ⓘ	CrownWidthSlope
	Pavil1Slope	Pavil1Slope	CrownLengthSlope
		Pavil2Slope	Pavil1WidthSlope
			Pavil1LengthSlope
			Pavil2Slope
SweetLine ⓘ	SweetLine ⓘ	SweetLine ⓘ	SweetLine ⓘ

Below is an example of the benefits Goodwin type cut provides comparing to ASCII:

SR with ASCII produced bigger windows which ***makes them actually unacceptable***. Goodwin model does not contain such windows due to control over angles. This is also reflected by metrics.

	ASCII	Goodwin
	19	24
	3D 0.60ct \$1,188	3D 0.60ct \$1,188
Product SKU	19-oval_84570400...	24-oval_84570400...
Office		
Table Color UV Free		
Pavilion Color UV Free		
ASET		
Chroma	69.9	74.1
Histogram	Intense 43.1% Fancy 56.9%	Intense 63.1% Fancy 36.9%
Color	Fancy	Fancy Intense
Price	\$1,188	\$1,188
Price Per Carat	\$1,980/ct	\$1,980/ct
Carat Weight	0.60ct	0.60ct
Optical	3.20	4.15



 **Example**

See this example details in the [Goodwin fancy color example](#) article.

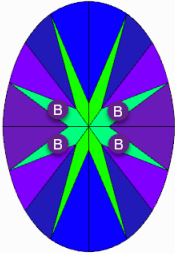
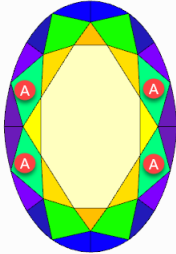
To register your model as a new cut of Goodwin type:

1. Make sure your model has the appropriate [facet types](#).
2. [Normalize](#) your model.
3. In **Plans & Scans**, right-click the *best normalization result** and then, from the context menu, select **Register as new cut**. The **Register new cut** dialog is displayed.

 * Usually, the  "1. High_Sym_CFM" Smart Normalize preset ([magenta](#) colored) provides a result most suitable for further registration as a cut.

4. In the **Register new cut** dialog, specify **Cut name**.
5. Select the **Goodwin** option.
6. Make sure, the **Create appraiser for your new cut from the selected template (recommended)** option is selected.
7. In the list, click the appropriate template.

Which template to choose?

Template	Description	Cut sample*																																																																																																																																																
1C1P	For cuts having 1 tier for a pavilion. Allows controlling one angle of a crown (1C) and one angle of the pavilion (1P). The template is suitable for most cuts.	Facet Types <table><thead><tr><th>Facets</th><th>Element</th><th>Tier</th><th>Type</th><th>SubType</th><th>No.</th><th>Color</th><th>Alias</th></tr></thead><tbody><tr><td>1</td><td>Table</td><td></td><td></td><td></td><td></td><td></td><td>Rename...</td></tr><tr><td>4</td><td>Crown</td><td>Main</td><td>Wing</td><td></td><td></td><td></td><td>Rename...</td></tr><tr><td>4</td><td>Crown</td><td>Main</td><td>Curve</td><td>A</td><td></td><td></td><td>Rename...</td></tr><tr><td>4</td><td>Crown</td><td>Half</td><td>Wing</td><td></td><td>1</td><td></td><td>Rename...</td></tr><tr><td>4</td><td>Crown</td><td>Half</td><td>Curve</td><td></td><td>2</td><td></td><td>Rename...</td></tr><tr><td>4</td><td>Crown</td><td>Half</td><td>Curve</td><td></td><td>1</td><td></td><td>Rename...</td></tr><tr><td>4</td><td>Crown</td><td>Half</td><td>Curve</td><td></td><td>2</td><td></td><td>Rename...</td></tr><tr><td>2</td><td>Crown</td><td>Star</td><td>Point</td><td></td><td></td><td></td><td>Rename...</td></tr><tr><td>4</td><td>Crown</td><td>Star</td><td>Wing</td><td></td><td></td><td></td><td>Rename...</td></tr><tr><td>2</td><td>Crown</td><td>Star</td><td>Curve</td><td></td><td></td><td></td><td>Rename...</td></tr><tr><td>73</td><td>Girdle</td><td></td><td></td><td></td><td></td><td></td><td>Rename...</td></tr><tr><td>4</td><td>Pavilion</td><td>Main</td><td>Wing</td><td></td><td></td><td></td><td>Rename...</td></tr><tr><td>4</td><td>Pavilion</td><td>Main</td><td>Curve</td><td>B</td><td></td><td></td><td>Rename...</td></tr><tr><td>4</td><td>Pavilion</td><td>Half</td><td>Wing</td><td></td><td>1</td><td></td><td>Rename...</td></tr><tr><td>4</td><td>Pavilion</td><td>Half</td><td>Curve</td><td></td><td>2</td><td></td><td>Rename...</td></tr><tr><td>4</td><td>Pavilion</td><td>Half</td><td>Curve</td><td></td><td>1</td><td></td><td>Rename...</td></tr><tr><td>4</td><td>Pavilion</td><td>Half</td><td>Curve</td><td></td><td>2</td><td></td><td>Rename...</td></tr></tbody></table> 	Facets	Element	Tier	Type	SubType	No.	Color	Alias	1	Table						Rename...	4	Crown	Main	Wing				Rename...	4	Crown	Main	Curve	A			Rename...	4	Crown	Half	Wing		1		Rename...	4	Crown	Half	Curve		2		Rename...	4	Crown	Half	Curve		1		Rename...	4	Crown	Half	Curve		2		Rename...	2	Crown	Star	Point				Rename...	4	Crown	Star	Wing				Rename...	2	Crown	Star	Curve				Rename...	73	Girdle						Rename...	4	Pavilion	Main	Wing				Rename...	4	Pavilion	Main	Curve	B			Rename...	4	Pavilion	Half	Wing		1		Rename...	4	Pavilion	Half	Curve		2		Rename...	4	Pavilion	Half	Curve		1		Rename...	4	Pavilion	Half	Curve		2		Rename...
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2C3P

For rectangular cuts with 2 tiers for a pavilion. Allows controlling:
* separately of two angles of a crown (2C)
* three angles of the pavilion (3P):
* two on the 1st tier of a pavilion
* one on the 2nd tier of a pavilion

Facet Types

Facets	Element	Tier	Type	SubType	No.	Color	Alias
✖ 2	Crown	Main	Width		A		Rename...
✖ 2	Crown	Main	Length		B		Rename...
✖ 4	Crown	Half	Width				Rename...
✖ 4	Crown	Half	Width	2			Rename...
✖ 4	Crown	Half	Length				Rename...
✖ 4	Crown	Half	Length	2			Rename...
✖ 4	Crown	Star	Width				Rename...
✖ 4	Crown	Star	Length				Rename...
✖ 4	Crown	Corner					Rename...
✖ 76	Girdle						Rename...
✖ 2	Pavilion	1	Main	Width	C		Rename...
✖ 2	Pavilion	1	Main	Length	D		Rename...
✖ 4	Pavilion	1	Half	Width			Rename...
✖ 4	Pavilion	1	Half	Width	2		Rename...
✖ 4	Pavilion	1	Half	Length			Rename...
✖ 4	Pavilion	1	Half	Length	2		Rename...
✖ 4	Pavilion	1	Corner				Rename...
✖ 4	Pavilion	2	Main		E		Rename...
✖ 4	Pavilion	2	Half	Width			Rename...

CrownWidthSlope

CrownLengthSlope

Pavil1WidthSlope

Pavil1LengthSlope

Pavil2Slope

* Note that if you have several "Main" groups on the same **Tier** but different **SubType**, the priorities are used to define which group will be controlled by the parameters.

(higher priority)

EMPTY
WIDTH
CURVE
DIAGONAL
WING
SHOULDER
LENGTH
HEAD
POINT

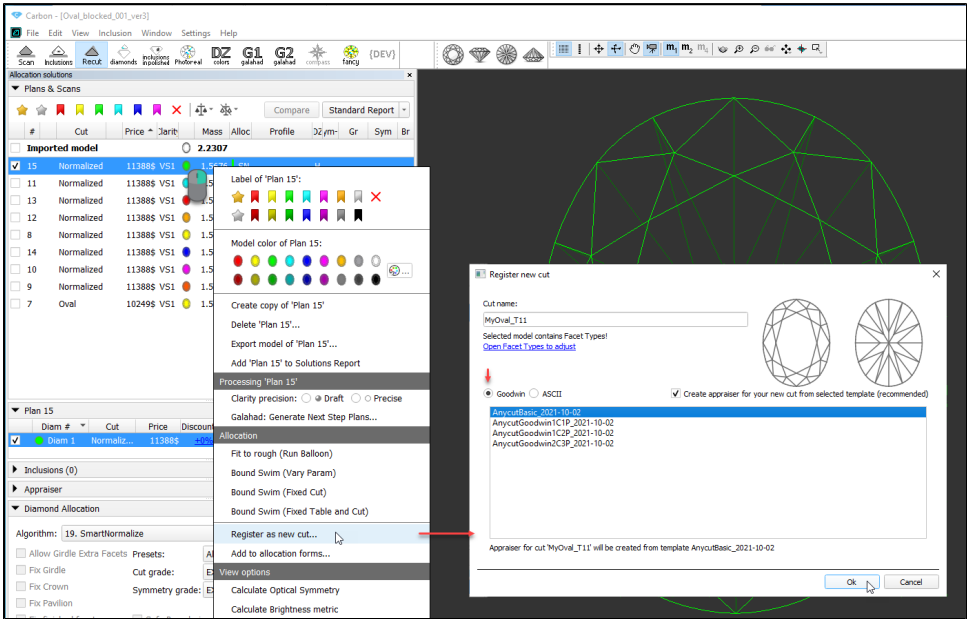
(lower priority)

ASCII		Goodwin			
Basic		1C1P	1C2P	2C3P	
Parameter		Parameter	Parameter	Parameter	Parameter
GirdleRatio	i	GirdleRatio	i	GirdleRatio	i
Table	i	Table	i	Table	i
CrownHeight	i	CrownHeight	i	CrownHeight	i
GirdleBezel	i	GirdleBezel	i	GirdleBezel	i
PavilionHeight	i	PavilionHeight	i	PavilionHeight	i
TotalHeight	i	TotalHeight	i	TotalHeight	i
		CrownSlope	i	CrownSlope	CrownWidthSlope
		Pavil1Slope		Pavil1Slope	CrownLengthSlope
			Pavil2Slope		Pavil1WidthSlope
					Pavil1LengthSlope
					Pavil2Slope
SweetLine	i	SweetLine	i	SweetLine	i

Goodwin type cuts support AnyCutBasic appraiser as well, but with the lack of important advantage of having slope angles in the appraiser.

Note that selecting a template is not enough - later you must edit profiles manually.

8. Click **Ok**.



The new cut of the Goodwin type is created. It is added to the **Diamond Allocation** section, **Cutbook > in-house Cuts**. Also, from the selected template, a new [hybrid appraiser](#) is created for this new cut.

Important

This is not the end, but just the beginning of the process. The next two "big steps" are obligatory to make your new cut/appraiser work effectively. The details about why it is important to populate a cut with the allocation forms and set your own boundaries for the linked hybrid appraiser you can find in the [In-house cut registration](#), [Hybrid appraisers](#), and related articles.

9. **Add allocation forms to your cut.**
10. **Edit the boundaries of your appraiser profiles.**



- It is recommended to coordinate set boundaries of your appraiser with the allocation forms:
1. Select **Manual appraiser selection**.
 2. Set the **Appraiser** and **Profile** to the one you are editing.
 3. In the **Diamond Allocation** section, **Cutbook > In-house Cuts**, right-click your cut and select **Show allocation forms**. In **Plans & Scans**, allocation forms are displayed. They are graded by your appraiser/cut.
 4. Make sure, grades are EX. If not edit the boundaries and repeat the estimation or consider deleting some forms.

Goodwin improvement for 2-tier pavilion cuttings

Improvement of Goodwin cutting technology with the use of intermediate layers.
Goodwin cuts registered with the Goodwin_GoldStar1C1P appraiser template now have an intermediate layer on pavilion during Recut optimization. If previously only the overall height of the pavilion changed, which proportionally changed the height of each layer, now each layer for 2-tier pavilion changes independently.

Before: overall pavilion depth

Gold Stars - new attribute for Facet Types

For many cuts, it is not always clear which facets are involved in the calculation of generalized parameters "Crown angle" and "Pavilion angle". At the same time, these parameters often play an important role in assessing the value of gems when they are chosen by buyers in the market. For clear work with these parameters, a new attribute has appeared in [Facet Types](#) - a gold star. The cut may have two gold stars. One on the crown and one on the pavilion. Gold stars symbolize the primary facets of the crown and pavilion.

Facet Types

Facets	Element	*	Tier	Type	SubType	No.	Color	Alias
✖ 2	Crown			Main	Wing		■	Rename...
✖ 2	Crown	★		Main	Curve		■	Rename...
✖ 2	Crown			Main	Shoulder		■	Rename...
✖ 1	Crown			Main	Head		■	Rename...
✖ 2	Crown			Half	Point		■	Rename...
✖ 2	Crown			Half	Wing	1	■	Rename...
✖ 2	Crown			Half	Wing	2	■	Rename...
✖ 2	Crown			Half	Curve	1	■	Rename...
✖ 2	Crown			Half	Curve	2	■	Rename...
✖ 2	Crown			Half	Shoulder	1	■	Rename...
✖ 2	Crown			Half	Shoulder	2	■	Rename...
✖ 2	Crown			Half	Head		■	Rename...
✖ 2	Crown			Star	Wing	1	■	Rename...
✖ 2	Crown			Star	Wing	2	■	Rename...
✖ 2	Crown			Star	Shoulder	1	■	Rename...
✖ 2	Crown			Star	Shoulder	2	■	Rename...
✖ 68	Girdle						■	Rename...
✖ 2	Pavilion			Main	Wing	1	■	Rename...
✖ 2	Pavilion			Main	Wing	2	■	Rename...
✖ 2	Pavilion	★		Main	Shoulder	1	■	Rename...
✖ 2	Pavilion			Main	Shoulder	2	■	Rename...

Total: 126 facets

SortNew Group

■ Pavilion Main Shoulder 1

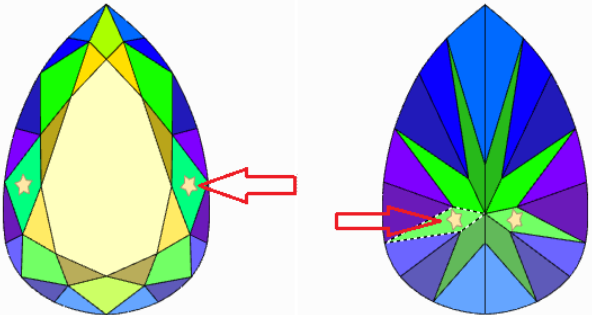
Facet #83 Slope: 40.86° Azimuth: 190.98°

From Sample...

Basic Types

Auto Types

Apply



If a cut has gold stars in Facet Types, then the parameters "Crown angle avg" and "Pavilion angle avg" are calculated by the facets marked by gold star groups. To calculate "Crown angle dev" and "Pavilion angle dev" from the gold star groups, Tier and Type are taken, most often Type will be Main. For all groups of faces with these Tier and Type, but various Subtype and/or "No.", their angle dev is calculated. And it is taken maximum of these devs in "Crown angle dev" and "Pavilion angle dev". Parameters "Crown angle" and "Pavilion angle" for example are found in Standard Report for AnyCut and other reports; in Cutwise data; in appraisers created by the new template Goodwin_GoldStar1C1P under the names "Crown Slope" and "Pavilion Slope".

Registration of Cuts with gold stars

When registering a new Goodwin cut, you can select the new Goodwin_GoldStar1C1P template. The following cases are possible:

Case 1. Most often you will see the message "Gold Stars has been set automatically, you can open Facet Types to adjust". Also, on the thumbnail on the right will be shown the facets marked with stars.

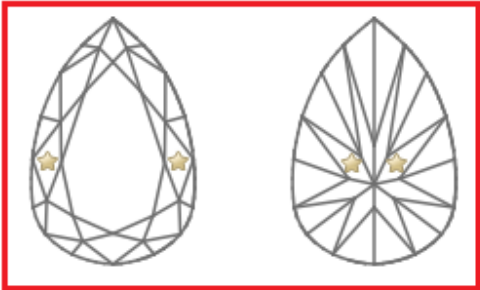
Register new cut

✕

Cut name:

Pear_GoldStars

Selected model contains Facet Types!
Gold Stars has been set automatically, you can open Facet Types to adjust.
[Open Facet Types to adjust](#)



☒ Goodwin ☐ ASCII

☒ Create appraiser for your new cut from selected template (recommended)

AnycutBasic
Goodwin1C1P
Goodwin1C2P
Goodwin2C3P
Goodwin_GoldStar1C1P

Appraiser for cut 'Pear_GoldStars' will be created from template Goodwin_GoldStar1C1P

Ok

Cancel

If you do not agree with this automatic selection, you can "Open Facet Types to adjust" and set the stars on the desired facets groups through the context menu. You can choose a group in the list or firstly select group on the model with Right click.

Facet Types

Facets	Element	*	Tier	Type	SubType	No.	Color	Alias
✕ 2	Crown			Half	Point			Rename...
✕ 2	Crown			Half	Wing	1		Rename...
✕ 2	Crown			Half	Wing	2		Rename...
✕ 2	Crown			Half	Curve	1		Rename...
✕ 2	Crown			Half	Curve	2		Rename...
✕ 2	Crown			Half	Shoulder	1		Rename...
✕ 2	Crown			Half	Shoulder	2		Rename...
✕ 2	Crown			Half	Head			Rename...
✕ 2	Crown			Star	Wing	1		Rename...
✕ 2	Crown			Star	Wing	2		Rename...
✕ 2	Crown			Star	Shoulder	1		Rename...
✕ 2	Crown			Star	Shoulder	2		Rename...
✕ 68	Girdle							Rename...
✕ 2	Pavilion	★		Main	Wing	1		Rename...
✕ 2	Pavilion					2		Rename...
✕ 2	Pavilion			Shoulder		1		Rename...
✕ 2	Pavilion			Half	Point			Rename...
✕ 2	Pavilion			Half	Point			Rename...
✕ 2	Pavilion			Half	Wing	1		Rename...

Total: 125 facets

SortNew Group

From Sample...Basic TypesAuto TypesApply

Export SampleMake ReportClose

Then click Apply, close the Facet Types window and register your cut.

View solutions in 3D interactive space

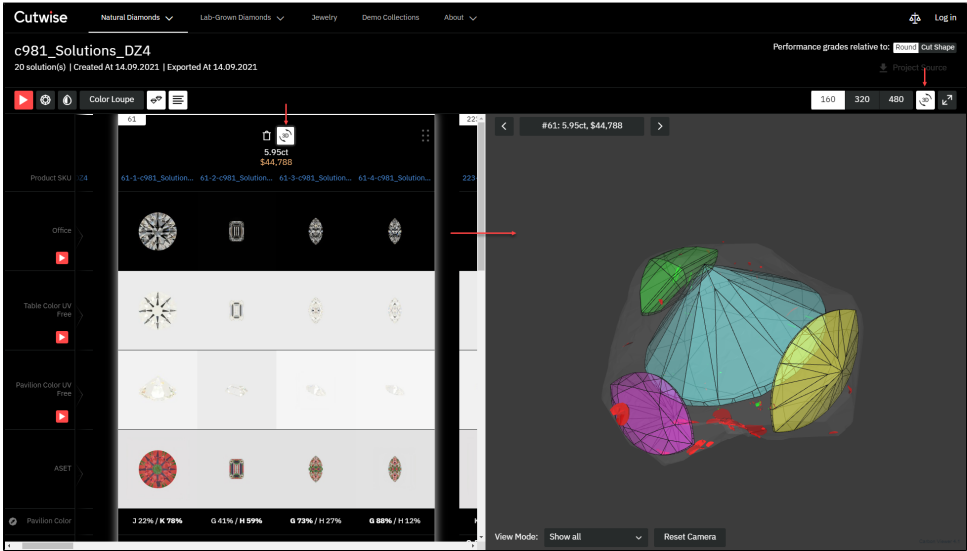
Cutwise online service [integrated](#) with HP Carbon allows quick sharing via the Internet information about polishing plans (solutions), including renderings of future stones, indistinguishable from the real DiBox2 films for both Round and Fancy cuttings. Now in addition to visual and parametric representation of plans, Cutwise is able to present solutions in 3D interactive space (like Scene in HP Carbon) - Carbon Viewer.

Thus, **full information** about plans (**parameters + media + interactive 3d model**) now can be **easily shared** with the remote team members (polishing experts, managers, sales specialists) or customers. The Carbon Viewer provides full and interactive information about:

- number, size, and position of inclusions
- how diamond(s) is positioned relatively to rough and inclusions; if several diamonds in a plan - how they are positioned relative to each other
- distances between rough, diamonds, and inclusions

To view solutions in Cutwise 3D interactive space:

1. In HP Carbon, use the **Upload to Cutwise** feature.
2. In the Cutwise project, related to the uploaded data, on the project toolbar or for a particular plan, click . View button becomes active , 3D interactive space (Carbon Viewer) is displayed.



What can you do in the Carbon Viewer window

- Switch **View Mode**
- Switch to the next/previous plan
- Reset camera
- Zoom with the scroll mouse button
- Rotate a model with the mouse (hold left + drag)

