2021-07-30 - HP Carbon 1.2.95

Here you can find information about what is new in HP Carbon version 1.2.95.

This version is available for download from the Octonus official web site.

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In-house cuts and hybrid appraisers overview

Brief vocabulary										
In-house cut	= "your own", "created by you", "added to the system by you"									
Hybrid appraiser	 An appraiser that has both absolute and relative parts: The absolute part provides a maximum mass without a grade loss (industry-standard intervals). The relative part allocates plans close to your own forms with excellent optical performance. 									



The new version of the system provides a lot of new possibilities. They are described in the sections of these release notes. But the main changes in the release are related to in-house cuts and hybrid appraisers:

- For any number of your in-house (created by you) cuts, you can create its hybrid appraiser and thus get plans for beautiful and massy diamonds for these cuts.
- You can get excellent plans for both in-house and generic, including Brilliant via GIA Facetware, cuts in one run.
- You have the right appraiser at your fingertips no need to manually select, no need to know or remember which one is needed.

Here is the brief abilities comparison:

Ability	Previous Version	New Version	Provided by what?
Using absolute appraisers when working with multiple cuts.	Yes*	Yes	-
Using hybrid (absolute+relative) appraisers when working with multiple cuts.	No	Yes	Create hybrid appraiser for in-house cut + Automatic appraiser selection
Creating for each in-house cut its hybrid appraiser.	No	Yes	Create hybrid appraiser for in-house cut
Editing appraiser of in-house cut via the user interface.	No	Yes	Create hybrid appraiser for in-house cut
Automatic detection and presenting in the user interface of the link between cut and its appraiser/active profile.	No	Yes	Automatic appraiser selection
Using simultaneously RBC (including optimization by GIA Facetware) and in-house cuts when working with multiple cuts.	No	Yes	Create hybrid appraiser for in-house cut + Automatic appraiser selection
Getting Smart Recut solutions for multiple selected cuts simultaneously.	No	Yes	Automatic appraiser selection + +Smart Recut
Getting Smart Recut solutions for a larger diamond in the multi-diamond solutions.	Yes	Yes	-
Getting in one click Smart Recut solutions for both diamonds in the multi-diamond solutions.	No	Yes	Automatic appraiser selection + +Smart Recut + "gold stars"
Automatic switch to correct appraiser when selecting a solution with a different cut.	No	Yes	Automatic appraiser selection

* Via adding in-house cut and then adding the corresponding section in one of the existing appraisers (by editing its text file).

Create hybrid appraiser for in-house cut

What is new?

Now for your in-house cut, you can create *its* hybrid appraiser.

What is it for?

To get plans with the best combination of mass and performance, add your in-house cuts to the system, populate them with forms, then allocate plans close to these forms with a hybrid appraiser.

How?

- 1. Add what you consider beautiful as your in-house cut.
- 2. Add variations of forms.
- **3.** Allocate future plans close to your forms by a *hybrid appraiser*.



A hybrid appraiser has both absolute and relative parts:

- The absolute part will provide a maximum mass without a grade loss (industry-standard intervals).
- The relative part will bind plans to your own forms with the excellent optical performance.

And thus:



To create for in-house cut its hybrid appraiser:

- 1. In the Recut mode, in the left panel, in the Diamond Allocation section, from the Cutbook select "In-house Cuts".
- 2. In the cut list, right-click your cut, and then from the context menu select Create Appraiser. The dialog is displayed.



3. In the dialog, read the information about the template and then click OK. Your new appraiser is created, named the same as the cut. Two profiles are automatically created for it.

Notes

* The new appraiser is created by *copying* the template. As for now, the only available template is the "AnycutBasic_2020-12-09" which is identical to the "MyAnyCut". * If you previously already created the appraiser for this cut, the system will suggest *rewriting* it - for the cut, only one *its* appraiser can be presented in the system.

4. In the Appraiser section, from the Appraiser list, select your appraiser.

- 5. Select the profile to be edited, then click Show Editor. The Appraiser Editor window is displayed.
- 6. In the Appraiser Editor set boundaries for your parameters and then click Apply. For hints on how to edit profiles, see Configuring Profiles here.

Pay special attention that the absolute part must be filled with the parameters corresponding to your cut.

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↔ ↔ ■ ■ ■ ■ ¥ +* ** Compare Standard Report *					Profile: P	rofile1 🛛	P			Presets
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▼ Diamonds	Parameter		[FR	[GD	[VG	[EX	EX]	VG]	GD]	FR]
	GirdleRatio	0	1,28	1,3	1,36	1,37	1,5	1,55	1,6	1,65
	Table	0	55	55,5	56	56,3	63	64	65	66
	CrownHeight	0	11,5	11,5	11,5	Ä	15,85	16	16,5	17,9
	GirdleBezel	0	2,8	2,9	3	3,1	4,9	5,2	5,9	6,6
	PavilionHeight	0	41	41,2	41,6	41,9	46,95	47,2	47,5	48
	TotalHeight	0	55	56	57	58	63,85	64,7	65,7	67,7
	SweetLine	0	-9	-6	-3	-1,5	1,5	3	6	9
Inclusions QC Filter										
▼ Appraiser Multiple Cuts										
Profile: Profile1 5 Absolute+Relative Hide Editor										
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7. If necessary, set boundaries for the second profile as well.
 8. As a hybrid appraiser only works when the linked cut has a good set of *allocation forms*, do not forget to add these forms to the cut (see details at In-house cut registration > "Adding allocation forms" and some questions and answers on allocation forms below).

Some questions and answers on allocation forms:

1. How many and what forms should be added?

You need at least 20-30 forms. It is better to have more*. The quantity depends on the quality:



In a multidimensional array of diamond parameters**, the more these parameters differ, the better (array coverage). Also the greater the GirdleRatio of your cut is, the more allocation forms are recommended to achieve a better result.

NOTES

* But how much more? And may adding a form make hybrid appraiser worse? The answer is that the more forms it has, the slower the appraiser is, therefore it is not recommended to have more than 100. Also if the relative part allows getting A from B or vise versa during allocation (click Show Picture... below) then one of them is redundant and again - only slows down the appraiser.

Calc	32	33	34	35	36	37	38	39	40
36.5	FR	FR	FR	FR	FR	FR	GD	GD	GD
37	FR	FR	FR	FR	GD	GD	VG A	VG	VG
37.5	FR	FR	GD	GD	VG	(B)	EX	VG	VG
38	FR	GD	VG	VG	EX	EX	EX	VG	GD
38.5	GD	VG	EX	EX	EX	EX	VG	VG	GD
39	VG	EX	EX	EX	EX	VG	GD	GD	FR
39.5	VC	EX	EX	EX	VG	VG	GD	FR	FR
40	EX	х	EX	VG	VG	GD	FR	FR	FR
40.5	VG	VG	VG	GD	GD	FR	FR	FR	FR
41	VG	VG	VG	GD	FR	FR	FR	FR	FR
41.5	GD	GD	GD	FR	FR	FR	FR	FR	FR
42	FR	FR	FR	FR	FR	FR	FR	FR	FR

A can be obtained from **B** during allocation (close, a deviation is allowed by the relative part). cannot be obtained from **B** during allocation (far, a deviation is not allowed by the relative part)

Thus:

either **A** or **B** is redundant and only slows down the appraiser, it is good to have in addition to **A** or **B**.

** When we say "parameters" we mean not only the ones presented in the appraiser but also the additional (for example, azimuths of non-main facets of crown and pavilion). Precisely, changing the additional parameters in many cases provides the best form distribution over the array.

2. If no allocation forms, is it a hybrid appraiser?

A cut always has at least one form available immediately after cut registration (base form). That is why you need only 10 minutes to start using the new in-house cut (see "Ready for use" in this diagram). Does a linked hybrid appraiser stay hybrid in this situation? See next question.

3. If only one form was added, is it a hybrid appraiser?

If your cut has only one allocation form or few forms and the relative part of its hybrid appraiser is narrow enough, this creates a great risk of mass loss, as the solution will be searched not along all the array provided by the absolute part but only close to this form. On the other hand, if you significantly widen the relative part, it may become wider than the absolute which means the appraiser degenerates into a simple absolute.

4. How the SweetLine parameter should be specified in a hybrid appraiser?

The SweetLine slope is specified for an entire cut as described here. As forms belong to the same cut, the slopes of the SweetLines they belong to will be similar. But as good forms are distributed over the array, the position of their SweetLines may be different:

Calc	32	33	34	35	36	37	38	39	40
36.5	FR	FR	FR	FR	FR	FR	GD	GD	GD
37	FR	FR	FR	FR	GD	GD	VG	VG	VG
37.5	FR	FR	GD	GD	VG	VG	EX	VG	VG
38	FR	GD	VG	VG	EX	EX	EX	VG	GD
38.5	GD	VG	EX	EX	FV	EX	VG	VG	GD
39	VG	EX	EX	24	EX	VG	GD	GD	FR
39.5	VG	EX	сX	EX	VG	VG	GD	FR	FR
40	EX	EX	EX	VG	VG	GD	FR	FR	ED.
40.5	VG	VG	VG	GD	GD	FR	FR	T IN	FR
41	VG	VG	VG	GD	FR	FR	IFR.	FR	FR
41.5	GD	GD	GD	FR	FR	FR	FR	FR	FR
42	FR	FR	FR	ED	FR	FR	FR	FR	FR

Therefore, for the absolute part of the hybrid appraiser, we should turn off the SweetLine (set all values to "100" which will remove the fixed green zone from the picture above) and only in the relative part set the possible deviation from the SweetLine of each particular allocation form.

Automatic appraiser selection

There are two cases when you need to select an appraiser:

- For allocation (creating solutions)
- For appraisal (appraising of already existing solutions)

For appraiser selecting, the system behavior and thus what you need to do is changed now:

		Was	Now
System behavior	Allocation, 1 cut	Process: In Recut mode, in the Diamond Allocation section, you select the cut, then, in the Appraiser section, from the Appraiser list, manually select the appropriate appraiser and Profile, then click Start Allocation. Result: If you selected the wrong appraiser, there may be no results or they can be bad.	Process: you select the cut, then click Start Allocation. Result: The <i>linked appraiser*</i> will be used automatically (and the last selected Profil
	Allocation, more than 1 cut	Process: In Recut mode, in the Diamond Allocation section, you select your cuts, then manually select the "Lexus_Opt" (must include selected cuts) appraiser and start allocation. The "Lexus_Opt" should be pre-configured by an expert (no modifications via UI - only editing as file). Result: If your cut was not described in the "Lexus_Opt", there may be no results or they can be bad.	Process: you select the cuts, then click Start Allocation. Result: The <i>linked appraiser*</i> will be used automatically (and the last selected Profil
	Appraisal of already existing solutions	In the Plans & Scans section, you click the solution, then, in the Appraiser section, from the Appraiser list, manually select the appropriate appraiser and Profile, then click Show Editor.	In the Plans & Scans section, you click the solution, in the Appraiser section, the sy the solutions of different cuts, the appraiser changes correspondingly.

i**le** of it)

ile of it) for each included cut.

system automatically displays the linked appraiser. When your switch between



* In the system, cuts and appraisers are *linked* like this:

Cut	Appraiser***
In-house cut that has its** appraiser	Its appraiser
In-house cut without its appraiser	MyAnyCut
Brilliant	"GIA Facetware + MyRound"
CushionSquare_PM4_PG8_PH24_PBrill_C32	CushionSquare
CushionRectangular_PM4_PG8_PH24_PBrill_C32	CushionRectangular
Some oval cuts	MyOval
Other cuts	Lexus_Opt****

** *Its* appraiser means created specifically for this particular cut

*** For each appraiser, its active profile will be used - the one that was last selected in the user interface Profile field.

**** Cuts linked to the "Lexus_Opt..." appraiser have limitations:

° The cut will not give the appropriate result if its description is not presented in the "Lexus_Opt..." appraiser.

The + Smart Recut option will not work for them

See details in the sections below.

When automatic appraiser selection is useful

The automatic appraiser selection eases your work with multiple cuts:

Compare Standard Report *
lass Alloc 'rofile DZ ym- Gr Sym Br
2739
QC Filter
Manual appraiser selection
aiser: Lexus_Opt_12FEB2011
 Show Editor
+ Smart Recut
▼ 1/3 O 🗐 Diamond grade:
EX •
Start 2
Allocation
)

- Allocation cases:
 - You want to try getting solutions of different cuts for your scanned model.
 - You want to try getting diamonds of different cuts within your solutions for multi-diamonds algorithms.

Other cases:

- In your solution list, you have solutions of different cuts and you want the appropriate appraiser to be selected automatically when you switch to this solution.
- You want to know which appraiser is linked to some cut and/or switch the active profile for it. The active profile is the last selected in the user interface Profile field for this appraiser. It is saved by the system automatically.

For single cut allocation

• Select cut and run allocation. No need to worry about the appraiser.

For multiple cut allocation

How to use:

From the **Cutbook**, select several cuts.
 Run allocation.



For multi-diamond algorithms

The automatic appraiser selection greatly eases getting excellent diamonds of different cuts within one solution (via the multi-diamond algorithms, such as 13. Cascade-2M and + Smart Recut option).

New: now you can get a combination of your in-house cut and one of standard (for example, Brilliant linked to "GIA Facetware + MyRound") cuts within one solution.

Running multi-diamond allocation with Smart Recut

(*Prerequisites*: gold stars will be used - see instruction on how to configure them in the section below)

- 1. Use the Recut mode.
- 2. Select several cuts.
- 3. Set Algorithm to "13. Cascade-2M".
- 4. Select the + Smart Recut option.

5. Click Start Allocation. The multi-diamond solutions are displayed in the list.

To get "Smart Recut + Smart Recut" solutions with the different Smart Recut presets:

- 1. In the Diamond Allocation section set Algorithm to smart recut one.
- 2. In the solution list, select the "Recut + Recut" solution.
- 3. In the diamonds section, select one of the solution diamonds. In the Appraiser section, the appraiser linked to the cut of the selected diamond is displayed automatically. Its active Profile is displayed as well.
- 4. From the Presets list, select the preset you want to be used.



5. Run allocation for the selected diamond. The new "Smart Recut + Recut" solution is added to the list, where Smart Recut is built with the selected preset.

6. Repeat configuration for the diamond remaining Recut.

7. Run allocation for the second diamond. Now you have a new "Smart Recut + Smart Recut" solution with each SR produced by the new preset.

"Gold stars" configuring

The "gold star" shows which Smart Recut preset will be used for the active profile of the linked appraiser when running allocation for multiple cuts with a multi-diamond algorithm with + Smart Recut option. There is a default gold star for each profile of each appraiser working with Smart Recut. Thus, you can skip configuring gold stars - in this case, the default will be used (for MyRound profiles - preset 4, for MyOval and MyOvalPerformanceWare - 6, for MyAnyCut and alike - 8).



Notes on structure:

- profiles belong to an appraiser, presets (not presented on diagram) belong to the profile
 exception SR presets belong directly to SR
- thus: do not mix appraiser profile's presets with SR presets

Notes on usage:

- If you marked this SR preset with a gold star for this profile, it does not say anything about other profiles.
- When for the in-house cut you create its appraiser, its profiles are copied from the template, presets for them are copied from the "MyAnyCut" appraiser (first two profiles), and gold star is set to SR preset "8.AllWidened".

The gold stars can be configured before running allocation as described below.

To configure gold stars:

- 1. Use the Recut mode.
- 2. in the Appraiser section, select Manual appraiser selection.
- 3. Select Appraiser.
- 4. Set active Profile.
- 5. In the **Diamond Allocation** section set **Algorithm** to smart recut one.
- 6. Expand the Presets list, then in the list, set the gold star to the right of the preset you want to be used during allocation for multiple cuts with a multi-diamond algorithm.

For viewing grades in Appraiser Editor

If, in your solution list, you have solutions of different cuts and you want the appropriate appraiser to be selected automatically when you switch to this solution:

- 1. Click Show Editor. The Appraiser Editor window is displayed.
- 2. In the Plans & Scans section, switch to the required solution. The Appraiser Editor window will automatically switch to the appraiser linked with the cut/active profile.

Allocation s	solutions													×	Appraiser Editor											>
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Impo	orted	nodel				1	0:	3.2739							GirdleRatio	0	EX	1.079	1,055	1,055	1,055	1,06	1,11	1,16	1,22	1,25
√ 1	Cusi	iionRectai	ng	9	286\$	sn (0	1.5477	Cushie	n_2	Н	Ð	(EX		Table	0	EX	60.285	56	56	58	59	66	67	68	68
2	Brilli	ant		9	275\$	VVS2	0	1.1988	Defau	t	н	EX	EX		CrownHeight	0	EX	14.969	10,8	11	11,5	11,8	15,2	15,7	16,7	17,5
3	Cus	iionSquar	e	9	226\$	SI1 (0	1.5354	Cushic	n2-Optir	nized H	EX	EX		GirdleBezel	0	EX	3.602	2,3	2,4	2,5	2,75	5	5,5	6,5	7,5
54	MyO	val_01		5	713\$	VVS2	0	1.2721	Profile	1	н	GE	EX EX		PavilionHeight	0	EX	47.601	42,5	43	43,5	44	50,5	51,5	53,5	55
															TotalHeight	0	EX	66.172	58,5	59	59,5	60	67.7	69,7	72,7	73,7
															CrownWidthSlope		EX	37.006	32	32	32	32	37,5	38,5	39	39,5
															CrownLengthSlope		EX	36.966	30	30,5	31	31,5	38 5	39,5	40,5	41,5
															Pavil1WidthSlope		EX	57.586	53	53	53	53	61	62	63	64
															Pavil1LengthSlope		EX	56.706	52	52	52	52,5	62	63	64	65
															Pavil2Slope		EX	32.337	31	31	31	31	33,5	34,5	35	37
															SweetLine	0	EX	-0.856	-9	-6	-3	-1,5	1,5	3	6	9
 ✓ Plan : Diam ✓ ● Dia ✓ 	1 #▼ am 1 (ushionRe	ctangı	ular_f	Cut M4_P	58_PH2	24_F	°8rill_C32	Price 9286\$	iscour <u>-10%</u> 6	PPC 030.00\$	/ct 1.5	fass 1477ct	ari SII												
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Diam	ond All	ocation													Export * Lo	ad pr	ofile *					2	٣	liscard	A	pply

For switching active profile

To know which appraiser is linked to some cut and/or switch the active profile:

1. Do one of the following:

a. If you have a solution of the appropriate cut in the list, click it. Its cut is displayed in the Appraiser section, Cut field.b. If you do not have a solution, select directly from the Appraiser section, Cut list.

For the selected cut, it's linked Appraiser and its active Profile is displayed. Note that the Profile field will be empty if the appraiser does not have any profiles.

2. If necessary, change the **Profile**. Selected new active profile for this appraiser is saved in the system automatically.

Option A: Solution of appropriate cut in the list	Option B: Not in the list									
Allocation solutions ×	Allocation solutions ×									
▼ Plans & Scans	▼ Plans & Scans									
# Cut Price Clarity Mass k Profile JZ /m- Gr Sym Br	# Cut Price Clarity Mass k Profile JZ /m- Gr Sym Br									
□ Imported model ○ 3.2739	□ Imported model ○ 3.2739									
□ 1 CushionRectang 9286\$ SI1 □ 1.5477 Cushion_2 H EX EX	✓ 1 CushionRectangular_PM 9286\$ SI1 1.5477 Cushion_2 H EX EX									
2 Brilliant 9275\$ VVS2 () 1.1988 Default H EX EX	2 Brilliant 9275\$ VVS2 🔘 1.1988 Default H EX EX									
🗹 3 CushionSquare, 🚹 9226\$ SI1 🏮 1.5354 Cushion2-Optimized H EX EX	54 MyOval_01 5713\$ VVS2 0 1.2721 Profile1 H GD EX									
54 MyOval_01 5713\$ VVS2 1.2721 Profile1 H GD EX	Plan 1									
	Inclusions (58) QC Filter									
Appraiser Manual appraiser selection	✓ Appraiser Manual appraiser selection									
Cut: CushionSquare_PM4_PG8_PH24_PI - Appraiser: CushionSquare -	Cut: CushionSquare_PM4_PG8_F1_PI Appraiser: CushionSquare									
Profile: Cushion2-Optimized Absolute+Relative Hide Editor Cushion1-Commercial Cushion2-Optimized Algorithm: 20. Single (Recut) + Smart Recut Cutbook: Favorites 4/4 Ex	Profile: Cushion2-Optimized Absolute+Relative Hide Editor									
Allocation	Allocation									

Old mode - Manual appraiser selection

Sometimes it may be necessary to try appraisal or running allocation with the appraiser, different from the linked one.

You can switch to the old mode of working with the system where the manual selection was possible (and required). To do that, in the Appraiser selection, select the Manual appraiser selection checkbox.

♥ Carbon - [MC Project]	
File Edit View Inclusion Window Settings Help	
Scan Recut diamonds inclusions Photoreal Colors G1 G2 🔆 Scan Geven G1 G2 G1	
Allocation solutions and a solution solutions and a solution solution solution solution solution solutions and a solution	
▼ Plans & Scans	
☆ ○ □ □ □ □ □ □ □ × □ ↔ ☆ Compare Standard Report ▼	
# Cut Price * Clarity Mass Alloc Profile DZ ym- Gr Sym Br	
▼ Imported model	
	• • • • • • • • • • • • • • • • • • •
	ATAN
 Imported model 	
Diam # * Cut Price Discount PPC Mass Clarity C Grade	
Scan 3.2739ct	
000	
Inclusions (58) QC Filter	
▼ Appraiser → Manual appraiser selection	
Profile: Profile1	
▼ Diamond Allocation	
Algorithm: 20. Single (Recut)	
Cutbook: Favorites 1/4 O E. Diamond grade:	
shionKectangi LushionSquari	
Brilliant PM4 PG8 PM4 PG8 MyOval 01	
PH24 PRrill PH24 PRrill Start Allocation	

To switch back to the automatic appraiser selection, deselect the checkbox.

Cushion cuts of Goodwin type - check of allocation forms

For some cuts, the Goodwin cut engine is applied. At the moment they are the cushion appraisers:

- "CushionRectangular_PM4_PG8_PH24_PBrill_C32"
 "CushionSquare_PM4_PG8_PH24_PBrill_C32"

There are some limitations to allocation forms of such cuts:

- "4+ facets" limitation:
 - ° "4+" facet is a facet with 4 or more vertexes (junctions are the most common reason for the triangle facets to become "4+").
 - Goodwin checks every vertex of the model.
 - At each vertex, only 3 or fewer "4+" facets should converge.

Table, culet, and facets of the girdle are not taken into account.



- Yellow facets have 4 vertexes
 Red facets have: 4 vertexes before SN, 3 vertexes after SN

Thus:

- before SN, at the center vertex, 4 facets with 4 vertexes converge not good for Goodwin
 after SN, at the center vertex, 2 facets with 4 vertexes converge good for Goodwin
- Facet types should not have serious errors (like some of the facets on the pavilion marked as the crown facets).

If these conditions are not met, the Show allocation forms in solution list command does not display the "wrong" forms in the list and such forms do not produce any solutions.

What's new?

Now the additional checks are added to the system when trying to add forms to Goodwin cuts. If these checks are not passed, the form is not added, the notification window is displayed:



Or (for already normalized forms):



New report - Semipolish

A new report is added to the system - the Semipolish Report. It allows controlling (both visually and via parameter values) a table polishing process.

To access the report:

- 1. Select the solution.
- 2. On the right panel, click **Semipolish Report**. The report is displayed in the Scene.
- 3. If you select another solution, the report is updated to display information related to it.

The report includes:

- 1. Main parameters of a solution.
- 2. Table processing parameters.
- 3. Safe line parameters.
- 4. Image with the angles of the main facets on the pavilion.
- 5. Image with the angles of the main facets on the pavilon.
 6. Image reflecting the process of polishing a table (angle 1).
- 7. Image reflecting the process of polishing a table (angle 2).

Carbon - [Oval_blocked_001_ver3]									• – – ×				
■ File Colt View inclusion Vindow Sectings Field ▲ ▲ ◇ ·································			• •	40	m ₁ m ₂ m	m ₄ 🖕 ⊘		+ R.	- 0 A				
Scan Recut diamonds inpolished Photoreal colors galahad galahad compass fancy		_											
✓ Plans & Scans									▼ View				
🚖 🚖 📕 🗧 📕 📕 📕 🗙 小 * 卷 * Compare Standard Report *	ElPrint 🕅 Quick P	Model											
Cutting Price Jarit Mass Alloc Profile 32 /m- Gr 3ym Br	$\equiv \underline{S}$ ettings $\equiv \underline{T}$ able	Processing an	nd Reference	Line parame	ters Tabl	e Processing	Įmage legend		T2D Mini Minu				
Imported model () 2.2307	 Point of touc 	DO MILI VIEW											
1 Oval_W8T 7438\$ VS1 🕛 1.4946 MyOvaDefault H VG VG Initial facet with adjacent bones													
2 Oval_WBT 7338\$ VS1 0 1.4692 MyOvalDefault H VG VG	 Different pro 	Facet Types											
3 Oval_W8T 7288\$ VS1 0 1.4585 MyOvalDefault H VG VG Final processed facet													
4 Oval 102495 VSI 0 1.5665 SR MyOvalDefault H EX EX													
5 Oval 9110\$ VS1 9 1.5667 SR MyOvalDefault H VG VG	Stone ID: Oval_blocked	_001_ver3		Oval	26.03.20	21 16:04	HP011+	39.05° 39.33°	Semipolish Report				
6 Oval 9110\$ VS1 9 1.5669 SR MyOvalDefault H VG VG	Parameter 1	Av	g	Min	Max	Dev	Cut Sym	37.79° 37.74° W1 W2	Interder October				
7 Oval 10249\$ VS1 1.56/5 SR MyOvalderault H EX EX	Diameter, mm	7.5	40	6.465	8.426	30.34 %	- N/A	P2 P1 5	opidad to Cutwise				
0 Oval 102495 VS1 1.3047 SK Hiyovaldelault H EX EX 103495 VS1 1.3047 SK Hiyovaldelault H EX EX	Pav. angle, °	37.	75	37.69	37.79	0.10	EX EX	4 02 07 39.62° C1 C2 39.87°	Facetware				
10 0val 10249\$ VS1 1.5636 SR MyOvalDefault H EX EX	Crown angle, •	39.3	75	39.62	39.87	0.25	EX EX	P3 P4	Standard Report				
✓ 11 Oval 10184\$ VS1 1.5490 SR MyOvalDefault H EX EX	Girdle bezel, %	0.354 mm	5.47 %	5.42	5.66	0.23	EX EX	37.76° W4 W3					
	Table, %	4.946 mm	65.90 %	61.85	69.94	8.09	N/A EX	39.15° 39.22° 32.89° 32.92° 39.42°	My Appraiser				
	Total height, %	4.117 mm	63.68 %	-	-	-		Dov 332"	* Reports				
	Crown height, %	1.032 mm	15.96 %	15.83	15.99	0.16	- EX		Delick Decest				
	Pav. height, %	2.639 mm	42.26 %	42.19	42.27	0.07	- EX	Grind depth 0.260 mm	Polish Report				
	Star, %	54.	55	-	-	-	- N/A		Comparative Report				
	Pav. half, %	75.	15	74.61	75.38	0.78	N/A N/A		Print Label				
	G-C off., %	2 1	t 0.12	G-T off., %	0.04 ± 0.09	T-C off., Ye	0.01 ± 0.13		Evenert Report Data				
	Table allowance before	0.315	mm	Table	incline	2.	.58 °		Export Neport Data				
	Table allowance parallel	0.055	i mm	Grine	depth	0.26	50 mm	Table Start	Export Model				
Diamond Info		3 R	teference	ine parame	ters			137.02 °	 Model Building Info 				
Appraiser Multicutting	Marking for Crown, mm	C8 be	efore	1.	386	C8 after	1.034						
Appraiser: MyOval *	Marking for Pav., mm	P8 before 1.478		478	78 PS after		1						
Profile: Default	Total weight, ct	1.5	55				EX EX]					
Diamond Allocation													
Inclusions (0)									✓ Show Model				
]												

The images (6-7) reflecting the process of polishing a table includes information about:

- Poing of touch by polishing disc
- Positions of different planes related to polishing
- Door azimuth
- The azimuth of the table polishing start point.
- The Grind depth table processing parameter (see description here).



The report includes the Rotate Table processing start azimuth to door control (active if the hardware is connected).

Print Rotate Table Processing start azimuth to door													
\equiv Settings \equiv Table Processing and Reference Line parameters \equiv Table Processing Image legend													
Stone ID: Oval_blocked_	001_ver3	Oval 26.03.2021 16:04 HPO11+					32.87° 32.89°						
Parameter	Avg	Min	Max	Dev	Cut	Sym	37 70°						
Diameter, mm	7.540	6.465	8.426	30.34 %	-	N/A	P2 P1						

To access report settings and reference information, at the top of the report, click Settings, Table Processing and Reference Line Parameters, Table Processing Image Legend. On click, the corresponding section is displayed



Also, click Table Processing and Reference Line parameters to view the brief description of parameters.



To hide the displayed information, click the corresponding button again.

Appraiser for Brilliant - Changes in Profiles and Presets

For the "GIA Facetware + MyRound" appraiser (linked to the Brilliant cut), some changes were made in profiles and presets.

Profiles General Description

The general idea of each profile is presented in the table:

	Profile	
1	Max	Profile with as wide boundaries as possible (for Cut and Symmetry). Provides maximum mass within GIA EX.
2	ModernCut	Recommended profile. Provides solutions reflecting the current market preferences not reflected in GIA. Narrower than Max.
3	Commercial	In correspondence with solutions of large Indian companies. Narrower than ModernCut.
4	H&A	Creating Hearts & Arrows solutions. Narrow Symmetry and SweetLine, somewhat narrowed by Cut. Narrower than Commercial.
5	H&A 5ct+	Hearts & Arrows solutions for large stones. Narrower than H&A.

Purposes

For profiles:

Each next profile should be *narrower than the previous* (see table above). Previously, this logic was not fully supported.
 Scanned stones should not go outside the EX grade where possible. Previously this happened often.

For presets:

1. The widest preset of each next profile (see table above) should be approximately the same as the narrowest of the previous.

#2-3 (ModerCut and Commercial) have a specific place in this logic: both of them intersect with their ends with Max and H&A and in most aspects intersect with each other

2. ModernCut and Commercial should provide the maximum range: presets for presenting some from Max - presets for in-between - presets presenting some from H&A (see table below).

2. ModernCut	1M.H&A	2M.UltraSym	3M.HighSym	4M.MediumSym	5M.NormalSym	6M.Standard	7M.LowSym	8M.MaxMass 8C.MaxMass 8.H&A	
3. Commercial	1C.H&A	2C.H&A	3C.UltraSym	4C.HighSym	5C.MediumSym	6C.NormalSym	7C.LowSym		
4. H&A	1.H&A	2.H&A	3.H&A	4.H&A	5.H&A	6.H&A	7.H8(A		
5 H&A 5ct+	1.H&A5ct	2.H&A5ct	3.H&A5ct	4.H&A5ct	5.H&A5ct	6.H&A5ct	7.H&A5ct	8.H&A5ct	

Changes

For purposes "Profiles #1 - Each next profile should be narrower than the previous" and "Presets #1 - The widest profiles of each next profile (see table above) should be approximately the same as the narrowest of the previous":

- 1. In ModernCut, all that was narrower than Commercial was widened.
- 2. In H&A and H&A 5ct+, all that was wider than Commercial was narrowed.

For purpose "Profiles #2 - Scanned stones should not go outside the EX grade where possible:

- 1. For ModernCut and H&A, Culet is widened to 0.5 (as in Commercial). Done because the real culet of scanned stones is in this range. Later narrowed by presets.
- 2. For ModernCut and H&A, HeightGirdleExtraFacet is widened to 3 (as in Commercial). Done because the real girdle extra facets of scanned stone have heights in this range. Later narrowed by presets.
- 3. GirdleBoneLocal, GirdleBezelLocal, GirdleValleyLocal are widened for the same reason. Later narrowed by presets.
- 4. In the H&A, H&A 5ct+ for Symmetry the same values as for Commercial will be used.
- 5. In all profiles, except Max, Roundness parameters (22_5, 45, 90) were widened to 0,7, 0,8, 0,9 which keeps scanned stones in EX grade, but still meets GIA requirements.
- 6. Roundness 11_25 was added for large diamonds (see "New Parameter Roundness at 11.25°" section of this documentation".

For purpose "Presets #2 - ModernCut and Commercial should provide the maximum range":

- In ModernCut, a new preset is added "1M.H&A" (corresponds to "6.H&A", see table above). It replaced the "7.ExtendedLimits".
 In Commercial, 2 new presets are added "1C.H&A" and "2C.H&A" (correspond to "6.H&A", "7.H&A", see table above). They replaced "5.Standard" and "7.ExtendedLimits".

Results

The table below describes changes and results.

	Profile	
1	Max	There is no significant difference.
2	Modern Cut	The range of masses provided by the profile is widened (the maximum mass increased due to parameters widening, the minimum mass decreased due to more symmetrical presets).
3	Commer cial	The range of masses provided by the profile is widened (the maximum mass did not change, the minimum mass decreased due to more symmetrical presets).
4	H&A	The masses provided by the profile slightly decreased. The main input to the mass decrease is provided by the narrowing of Girdle Bezel and Valley parameters. Previously for Girdle Bezel, the boundaries were 2.25-4.75, Girdle Valley 0. Girdle Valley is 1.35-2.4. These changes are considered reasonable as the profile is not going to be used to produce solutions too close to GIA boundaries.
5	H&A 5ct+	The same as for H&A.

Additional Minor Changes

Additionally, the order of profiles within the appraiser changed:

.75-2.94 (that is equal to Max profile). Now Girdle Bezel is 2.9-4.2,

MyRound_SweetLine N MyRound_Commercial1 N MyRound_Commercial1_SweetLine N	MyRound_Commercial_SweetLine MyRound_ModernCut_2021-04-29 MyRound_ModernCut_2021-04-29_SweetLine
MyRound_H&A_5ct+ MyRound_Max Default N	MyRound_Max MyRound_H&A MyRound_H&A_5ct+ Default

The new order is in accordance with the *frequency of use* in enterprises.

	A	Work on the panel improvement is in progress.	
--	---	---	--

Brilliant Cut - Viewing Allocation Forms

Viewing of the cut's allocation forms previously available only for in-house cuts (see the Show allocation forms in solution list command description in In-house cut registration), now is also available for the default Brilliant cut.

Show	allocation form for Current Appraiser in solution list	
Brilliant		

• Right-click the Brilliant cut and then select Show allocation form for Current Appraiser in solution list. Allocation forms will be displayed in the solution list.



Note that for the Brilliant cut this command considers the *current appraiser* - before using the command, the appropriate appraiser should be selected. The reason is that several appraisers may be able to work with default cuts - each with its own set of allocation forms. Therefore the allocation forms for the default cuts (including Brilliant) are stored within the appraisers. If you do not select the correct appraiser (the one containing the allocation forms for this cut, the command will be unavailable:



The displayed forms are copies. If you make some changes to them, this will not affect the initial copies actually assigned to the cut.

Still, via the context menu you are able to:

- Add as allocation form to another cut...
- Register as new cut...

It is impossible to remove allocation forms from the Brilliant cut.

New Algorithm - MEC for Round Bruting

This functionality is designed to work with the Brilliant cut.

A diamond bruting machine used in a round Brilliant cutting process is only able to produce a vertical girdle of a round shape. For calculation of the correct position of a stone in a bruting machine and a bruting machine and a bruting radius, HP Carbon needs to find a cylinder circumscribed around a selected solution. This is now can be done by a new algorithm - "20. MEC for round bruting".

To use the algorithm, first allocate your solutions via Recut > Smart Recut, then:

- 1. Select the solution.
- 2. Set **Algorithm** to "20. MEC for round bruting".
- But Algorithm to 20, much build build build get and a solution list, the new model representing a bruting radius is displayed.
 In the solution list, select this solution.



5. From the main menu, select File > Export > MME for EOS bruting... Set name and location for your MME model file.

File	Edit View Inclusion Window Set	ings Help
v lu	New Ctrl+N Open Ctrl+O	
Allo	Demo > Close	×
1	Save Ctrl+S Save As	te + àg + Compare Standard Report + Yield Jant Sym-O Gr Cut Sym Br Profile
	Export	MME for EOS bruting
	Import	2.2070 V31 V3.43 VO VO E Profile2
	Create customer report Create polished report	1.68% VS1 +3.95 VG VG EX Profile2 1.68% VS1 +5.34 VG VG EX Profile2 68% VS1 +6.89 VG VG EX Profile2
	Open Workspace	1.68% VS1 +7.11 VG VG EX Profile2
	Save Workspace	1.68% VS1 +7.02 VG VG EX Profile2
	Save Workspace as	1.08% VS1 +7.97 VG VG EX Profile2
51	Exit Bruttin 5350\$ 1.0320 MEC	9.88% VS1 +8.44 VG VG VG Profile2 v1.68% VS1 +7.19
✔ 52	Bruttin 5356\$ 🥥 1.0326 MEC	61.68% VS1 +7.19
43	Brillant 3078\$ 🜒 1.0479 SR	62.28% V51 +2.16 V V EX Profile2

6. In your bruting software, use the created MME model.

User interface - changes in element names and behavior

General name changes

To better match modern brilliant processing, some elements of the user interface were renamed:

Old Term	New Term	Old Name in User Interface	New Name in User Interface				
Cutting	Cut	All elements containing "Cutting"	Now contain "Cut"				
		Cutting list	Cutbook				
		Scan mode > Cutting & Method	Scan mode > Cut & Method				
Client cutting, user cutting	In-house cut	Cutting list = "Client Cuttings"	Cutbook = "In-house Cuts"				
Facet marking	Facet types	Right panel > Facet Marking	Right panel > Facet Types				

Facet Marking Rename to Facet Types

For more compliance with the system usage practices, the Facet Marking feature is renamed to Facet Types.



Allocation Solution Panel - Behavior and Order of Sections

For the **Recut** mode, the order of sections on the left panel was changed:

Was	Now
Allocation solutions ×	Allocation solutions ×
✓ Plans & Scans	▼ Plans & Scans
	★
m ince ince bio ince Imported model (Imported model
10209¢ 1 0600 CP 10 50 56% CurbianPortangular DMA DC9 DU34 DPrill C22	19 • 10368\$ 1.9633 CB 20 59.87% CushionRectangular_PM4_PG8_PH24_PBrill_C32 • 1.6522 SR
10 105005 1.9000 CB 19 59.30% CushionRectangular_PM4_PG6_P124_P611_C32	18 • 10308\$ 1.9600 CB 19 59.56% CushionRectangular_PM4_PG8_PH24_PBrill_C32 • 1.6475 SR
2 9691\$ 1.8492 CB 2 56.20% CushionRectangular_PM4_PG8_PH24_PBrill_C32 (2 9691\$ 1.8492 CB 2 56.20% CushionRectangular_PM4_PG8_PH24_PBrill_C32 1.5473 3 9683\$ 1.8922 CC 11 57.73% CushionRectangular_PM4_PG8_PH24_PBrill_C32 1.5513
✓ Diamond Info	▼ Plan 1
1 Cutting: CushionRectangular_PM4_PG8_PH24_PBrill_C32 Model Mass: 1.5482 ct Price: 9 286 \$ Clarity: SI1 Discount: -10.00 % DZ Color: H PPC: 6030 \$/ct Grade: EX	Diam # Cut Price Discount PPC Mass Clarity C Grade Image: Construction of the state
- Diamonds	Clarity. IF VVS1 VVS2 VS1 VS2 SI1 SI2 SI3 I1 I2 I3
Diam # * Cut Price Iscour PPC Mass Ia ✓ ● Diam 1 CushionRectangular_PM4_PG8_PH24_PBrill_C32 9286\$ -10% 6030.00\$/ct 1.54ct S2	Diamond: #1 * ▼ V Inside 0 5 10 20 50 100 200 500 1000 off 100µm ♀
✓ ● Diam 2 Brilliant 405\$\$ -10% 1350.00\$/ct 0.30ct S:	
	SII SII 3D-8
✓ Appraiser	S11 S11 3D-9 • S11 • •
Cutting: CushionRectangular_PM4_PG8_PH. Appraiser: CushionRectangular	▼ Appraiser
Profile: Cushion_1 Absolute+Relative Show Editor	Cut: CushionRectangular_PM4_PG8_PH24_PBrill Appraiser: CushionRectangular
✓ Diamond Allocation	Profile: Cushion_1 * Absolute+Relative * Show Editor
	Diamond Allocation
Algorithm: 18. Semipolished + Smart Recut	Algorithm: 18. Semipolished
Cutting list: Favorites • 1/4 O E Diamond grade:	Cutbook: Favorites • 1/4 O 🗐 Diamond grade:
EX EX EX EX EX EX EX EX EX EX EX EX EX EX	Brilliant Image: ShionSque pM4 PG8 Oval MC Ex
✓ Inclusions (17 of 58) ✓ QC Filter	
Clarity: IF VVS1 VVS2 VS1 VS2 SI1 SI2 SI3 I1 I2 I3 Diamond: #1 * ▼ ♥ inside 0 5 10 20 50 100 200 500 1000 off 100µm ♥	
 What was changed: order of sections (Inclusions moved up); Inclusions panel unified with the QC Filter (for details, see the sub-section below); default sizes for the sections (you do not need to resize panels as often as previously); 	
 Diamond Info unification and automatic name change (for details, see the sub-section below) 	

Inclusions Panel with QC Filter

The Inclusions panel lists diamond inclusions and allows users to manage them. Previously, the system also included a separate QC Panel used for inclusions, these two panels are combined - the QC filter is included in the Inclusions panel and, if activated, affects the list of displayed inclusions.



Diamond Info Panel Unification

To avoid duplication of information, the Diamond Info panel information was merged into the Diamonds panel:

Scan																					
Allocation	solutions																			×	
✓ Plans	& Scans																				
🚖 😭	r 📕 🗏 🖡			×														Compa	re Stand	ard Report 💌	
# 🍝	Price Mass Diam 1 Mass Alloc Clarity Sym-O Gr Cut					t Sym	Profile	Diam 2	Mass	Ilo Clarity	Sym-O	Gr	Cut	Sym	Pro	file					
Imp	mported model () 16.2210																				
28	18252\$	2,3423	Brilliant		2,3423	SR V	VS1 +2	2.53 E	X-FR FX-F	R FX-FR	ModernCut 2019-12-10										
27	23805\$	2 3046	Brilliant	0	2 3046		/52 +8	8.81 EX	X FX	FX	ModernCut 2019-12-10										
26	25155\$	2 1515	Brilliant	õ	2 1515	,	VS1 +0	9.06 EX	X FX	FX	ModernCut 2019-12-10										
25	65127\$	4 8284	Brilliant	ě	3 2514	SR V	/52 +6	6 93 EX	X FX	FX	ModernCut 2019-12-10	Brilliant	1 577	D TE	+8.51	FX	FX	FX	ModernCut 3	2019-12-10	
24	74995\$	4 8057	Brilliant		3 2287	SR V	/51 +7	7.84 E)	X FX	FX	ModernCut 2019-12-10	Brilliant	1 577	D TE	+8.52	FX	FX	FX	ModernCut 2	2019-12-10	
23	59874\$	4 8517	Brilliant		3 2748	SR 1	/52 +	546 E	X-VG FX	EX-VG	ModernCut 2019-12-10	Brilliant	1 577	O TE	+8.51	FX	FX	FX	ModernCut 2	2019-12-10	
22	65280\$	4 8420	Brilliant		3 2651	SR V	/52 +6	671 E	Y FY	FX	ModernCut 2019-12-10	Brilliant	1 577	O TE	+8.51	FX	FX	FX	ModernOut 3	2019-12-10	
21	38046\$	4 0130	Brilliant		3 3370	SR \	VS2 +	1 70 E	X-Roor EX-V	G EX-Poor	ModemCut 2019-12-10	Brilliant	1.577		+8.52	EX	FY	EX	ModemOut 2	019.12.10	
20	65127¢	4 9241	Brilliant		2 2572		V52 -1	6.95 E)	Y EY	EX	ModemCut_2019-12-10	Brilliont	1.577		+0.52	EV	EV	EY	ModernOut 3	010-12-10	
10	65422¢	4 9460	Brilliont	~	2 2601		V52 +0	6.52 EX		EV	ModernCut_2019-12-10	Brilliont	1.577	n TE	19.51	EV	EV	EV	ModernCut 1	010.12.10	
- Diam	and Infa																				
21							D 10						Madal Mars	2 2220 +							
21	21 Cutting: Brillant Model Mass: 3.3370 ct																				
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					[Discount	: <u>-60.00</u>	0%					DZ Color:	н							
					P	PPC:	6800	\$/ct					Grade:	EX-Poor							
- Discuss de																					
✓ Diam	onds																				
✓ Diam	onds	Dian	n #	Ŧ	Cut		Pric	ce	D	scount	PPC		Mass		Clarit	y		с		Grade	
✓ Diam	onds	Dian Diam 1	n #	Ŧ	Cut Brilliant		Pric	ce 2264	Di 44\$	scount -60%	PPC 6800.0	0\$/ct	Mass	3.33ct VS	Clarit 2	Ŷ	н	с	EX-Poor	Grade	
 ✓ Diam ✓ ✓ 	onds	Dian Diam 1 Diam 2	n #	•	Cut Brilliant Brilliant		Pric	ce 2264 1540	Di 44\$ 02\$	scount <u>-60%</u> -10%	PPC 6800.0 9810.0	0\$/ct 0\$/ct	Mass	3.33ct VS 1.57ct IF	Clarit 2	y.	H H	с	EX-Poor EX	Grade	
 ✓ Diam ✓ ✓ ✓ 	onds •	Dian Diam 1 Diam 2	n #	•	Cut Brilliant Brilliant		Pric	ce 2264 1540	Di 44\$ 02\$	scount <u>-60%</u> <u>-10%</u>	PPC 2 6800.0 2 9810.0	0\$/ct 0\$/ct	Mass	3.33ct VS 1.57ct IF	Clarit 2	y	H H	C	EX-Poor EX	Grade	
 ✓ Diam ✓ ✓ ✓ ✓ 	onds • •	Dian <mark>Diam 1</mark> Diam 2	n # Layer 1	• E L 1	Cut Briliant Briliant		Pric	ce 2264 1540	Di 44\$ 02\$	scount <u>-60%</u> <u>-10%</u>	PPC 2 6800.0 2 9810.0	0\$/ct 0\$/ct	Mass 0.27	3.33ct VS 1.57ct IF ct	Clarit 2	y	H H 0.3	C 22mm	EX-Poor EX	Grade	
▼ Diam ✓ ✓ ✓	onds •	Dian Diam 1 Diam 2	n # Layer 1	• E L 1	Cut Brilliant Brilliant		Pric	ce 2264 1540	D 44\$ 02\$	scount <u>-60%</u> -10%	PPC 2 6800.0 2 9810.0	0\$/ct 0\$/ct	Mass 0.27	3.33ct VS 1.57ct IF ct	Clarit 2	y	H H 0.1	C 22mm	EX-Poor EX	Grade	
 Diam ✓ ✓ ✓ ✓ 	onds •	Dian Diam 1 Diam 2	n # Layer 1	•	Cut Briliant Briliant		Pric	ce 2264 1540	02\$	scount <u>-60%</u> -10%	PPC 6800.0 9810.0	0\$/ct 0\$/ct	Mass 0.27	3.33ct VS 1.57ct IF ct	Clarit 2	y	н н 0.3	C 22mm	EX-Poor EX	Grade	
 ✓ Diam ✓ ✓ ✓ ✓ Appra 	onds • •	Dian Diam 1 Diam 2	n # Layer 1	• [[1	Cut Brilliant Brilliant		Pric	ce 2264 1540	02\$	scount <u>-60%</u> -10%	PPC 2 6800.0 2 9810.0 	0\$/ct 0\$/ct	Mass 0.27	3.33ct VS 1.57ct IF ct	Clarit 2	Ŷ	H H 0.1	C 22mm	EX-Poor EX	Grade	
 ✓ Diam ✓ ✓ ✓ ✓ Apprase 	onds aiser ers: GIA Facet	Dian Diam 1 Diam 2 Ware + M	n # Layer 1 yRound	• E	Cut Brilliant Brilliant		Pric	ce 2264 1540	02\$	scount <u>-60%</u> -10%	PPC 6800.0 9810.0 	0\$/ct 0\$/ct	Mass 0.27	3.33ct VS 1.57ct IF ct	Clarit 2	λ	н Н 0.:	C 22mm	EX-Poor EX	Srade Show Editor	
Diam J Appraise Profiles:	aiser GIA Facet MyRound	Dian Diam 1 Diam 2 Ware + M ModernCi	n # Layer 1 yRound ut_2019-:	• [[[1 12-10	Cut Brillant Brillant		Pric	ce 2264 1540	02\$	scount <u>-60%</u> -10%	PPC 2 6800.0 2 9810.0 	0\$/ct 0\$/ct	Mass 0.27	3.33ct VS 1.57ct IF ct	Clarit 2	У	H H 0.1	C 22mm	EX-Poor EX	Srade Show Editor	
Diam J Diam Appraise Profiles: Diam	aiser GIA Facet MyRound_	Dian Diam 1 Diam 2 Ware + M ModernCi	n # Layer 1 yRound ut_2019-:	• E E L 1 12-10	Cut Brillant Brillant		Pric	ce 2264 1540	02\$	scount -60% -10%	PPC 6800.0 9810.0	0\$/ct 0\$/ct	Mass 0.27	3.33ct VS 1.57ct IF ct	Clarit 2	γ	H H 0.1	C 22mm	EX-Poor EX	Grade Show Editor	
Diam J Diam Apprate Profiles: Diam Algor#b	aiser ers: GIA Facet MyRound ond Allocatio	Dian Diam 1 Diam 2 Ware + M ModernCo N	n # Layer 1 yRound ut_2019-:	• E	Cut Briliant Briliant		Pric	ce 2264 1540	Di 02\$	scount 	PPC 6800.0 9810.0	0\$/ct 0\$/ct	Mass 0.27	3.33ct VS 1.57ct IF ct	Clarit 2	у	H H 0.1	C 22mm	EX-Poor EX	Show Editor	
Diam J Oiam Appraise Profiles: Diam Algorith	aiser aiser MyRound_ ond Allocation mr 19. Smartt	Dian Diam 1 Diam 2 Ware + M ModernCo N Recut (Bri	n # Layer 1 yRound ut_2019-:	• [[] [] 1 12-10 al, AnyO	Cut Brillant Brillant		Pric	ce 2264	DI 02\$	scount 	PPC 6800.0 9810.0 	0\$/ct 0\$/ct	Mass 0.27	3.33ct VS 1.57ct IF ct	Clarit 2	у	H H 0.1	C 22mm	EX-Poor EX	Srade Show Editor	
Diam J O Appra Appraise Profiles: Diam Algorith Alloy	onds	Diam 1 Diam 2 Diam 2 ware + M ModernCo n Recut (Bri Facets	n # Layer 1 yRound ut_2019-; illiant, Ova	• 1 1 1 12-10	Cut Brillant Brillant		Pric	ce 2264 1540 	DI 22\$	scount 	PPC 2 6800.0 2 9810.0 	0\$/ct 0\$/ct	Mass 0.27	3.33ct VS 1.57ct IF ct	Clarit 2	у	H H 0.:	C 22mm	EX-Poor EX	Srade Show Editor	
	aiser ers: GIA Facet MyRound_ ond Alocatio mr: 19. Smartl w Girdle Extra F ördle	Diam 1 Diam 2 Diam 2 ware + M ModernCi n Recut (Bri Facets	n # Layer 1 yRound ut_2019- illiant, Ova	• 1 1 1 12-10	Cut Brillant Brillant		Pric	ce 2264 1540 Prese Cut g	ets:	scount -60% -10% 8.MaxMass EX	PPC 6600.0 9810.0 	0\$/ct 0\$/ct	Mass 0.27	3.33ct VS 1.57ct IF ct	Clarit 2	у	H H 0.:	C 22mm	EX-Poor EX	Srade Show Editor	
Diam V	aiser aiser GIA Facet MyRound_ ond Alocatio mr [19. Smattl w Girdle Extra F Sirdle Crown	Diam 1 Diam 2 Ware + M ModernCu Recut (Bri acets	n # Layer 1 yRound ut_2019- illiant, Ova	• 1 1 1 112-10	Cut Brillant Brilliant		Pric	ce 2264 1540 Prese Cut g Symm	ets: prade: netry grade:	scount -60% -10% 8.MaxMass EX EX	PPC 6800.0 9810.0 	0\$/ct 0\$/ct	Mass 0.27	3.33ct VS 1.57ct IF ct	Clarit 2	у	H H 0.1	C 22mm	EX-Poor EX	Show Editor	
Diam V	aiser aiser GIA Facet MyRound_ ond Allocatio mr: 19. Smartl w Girdle Extra F Girdle Zrown Pavilion	Diam 1 Diam 2 Diam 2 ware + M ModernCo n Recut (Bri acets	n # Layer 1 yRound ut_2019 illiant, Ova	• 1 1 1 1 12-10	Cut Brillant Brillant		Pric	ce 2264 1540 Prese Cut g Symn	ets: prade: ety grade:	scount -60% -10% 8.MaxMass EX EX	PPC 2 9810.0 	0\$/ct 0\$/ct	Mass 0.27	3.33ct VS 1.57ct IF ct	Clarit 2	У.	H H 0.	C 22mm	EX-Poor EX	Show Editor	
Diam J O	onds	Dian Diam 1 Diam 2 ware + M ModernCo n Recut (Bri Facets	n # Layer 1 yRound ut_2019-	• 111111111111111111111111111111111111	Cut Srilliant Srilliant		Pric	ce 2264 154(Prese Cut g Symn	ets: prade: ets: prade:	scount -609 -109 -109 8.MaxMass EX EX EX	PPC 6800.0 9810.0 	0\$/ct 0\$/ct	Mass 0.27	3.33ct VS 1.57ct IF ct	Clarit 2	У	H H 0.	C 22mm	EX-Poor EX	Show Editor	

Now all the detailed information about the selected scan/solution you can find in a unified detailed information section. The section name dynamically changes to Scan Name/Solution Nuber (like "Imported Model", "Plan 1", "Plan 2"):

Sir	Single-diamond Solution												Multi-diamond Solution												
	•		Cu	utting	Price		Mass	Alloc	Yield	:larit))Z /m	:	*		Price	Mass	BBB	Yield	Diam 1	M	lass	k Clarity	DZ	۳ <mark>۰</mark> -	Gr
	Imported model					0	0 2.2307					Imported model								47.5649					
_				-		0							30	•	536797\$	15.2349	BB 11	32.02%	Brilliant	13	3.2353	VS1	н		^
	4		Ova	al	10249\$	0	1.5665	SR	69.93%	VS1 I	н		31	•	533853\$	15.1611	BB 12	31.87%	Brilliant	13	3.2692	VS1	н		
	5		 Ova 	al	0110¢		1 5667	SR	60 03%	VS1	ц		32	•	533780\$	15.6058	BP 4	32.80%	Brilliant	13	3.2692	VS1	н		
	5		- 00		9110 <i>\$</i>		1.5007	JIC	09.9370	V.51 I		✓	33	•	533265\$	15.5298	BP 5	32.65%	Brilliant	0 13	3.2692	VS1	н		
	6			al	9110\$	۲	1.5669	SR	69.93%	VS1 I	н		34	•	532163\$	15.3870	BP 6	32.33%	Brilliant	13	3.2692	VS1	Н		
	7			al	10249\$	0	1.5675	SR	69.93%	VS1 I	н		35	•	532089\$	15.3751	BP 7	32.31%	Brilliant	13	3.2692	VS1	н		
	•		- 0	_1	102404	~	1 5647	CD	60.020/	VCL			36	•	531795\$	15.3338	BP 8	32.23%	Brilliant	13	3.2692	VS1	н		-
	8		• 00	ai	10249\$	U	1.504/	SK	69.93%	V51 I	н								4						Þ
	9		Ova	al	10249\$	•	1.5660	SR	69.93%	VS1 I	H	-	Plan	33 🤞											
	10			al	10249\$		1.5636	SR	69.93%	VS1 I	н		D	iam #	 Cut 	t P	rice	Discount	PP	PC O	I	lass	Clarity	С	Grade
	10				102154		1.5050		05.5570	1011		✓	•	Diam 1	Brillian	t 5:	16654\$	<u>-30%</u>	38934	4.00\$/c	t 13	3.2692ct	VS1	Н	
~	11		• 0va	al	10184\$	0	1.5490	SR	69.49%	VS1	H 🔻	✓	٠	Diam 2	Prince	1	16611\$	<u>-30%</u>	7350	0.00\$/c	t 2	2.2606ct	VVS1	Н	
4											•	~		Laye	r 1 1	/ Di	iam 1	/	Diam 2		0.6765	ict	0.30	mm	
•	Pla	an 11	-																						
	Di	iam # "	Cut	Prio	e lisco	oun	PPC		Mass	Clarity	C rad														
✓	•	Diam 1	Ova	101	84\$ <u>-10</u>	9%	6570.00	\$/ct 1	.5490ct	VS1	H EX														

Applying Facet Types from Sample - Improved

The apply facet types from sample functionality introduced in the previous release have been improved. The major changes are:

- Facet Marking is renamed to Facet Types
- Grades are added to the solution list
- Grades are added to reports

The overview of how to work with the updated facet types apply from sample functionality is presented in the video below:

Video Facet Types - Applying from Sample										
Published:	2021, April 16	Last Updated:	2021, March 29	v.2.1						
Your browser does not support the HTML5 video element										
Video summary:										
 The same parameter of a stone ca Therefore, if you control Facet Type You can control the Facet Types of Set the desired Facet Types for you 	 The same parameter of a stone can be graded differently depending on how the Facet Types of cutting for this stone are defined. Therefore, if you control Facet Types, in some cases you control the cut grade. You can control the Facet Types of the scanned or rebuilt model by using your own model as a sample. Set the desired Facet Types for your sample, then use this sample during scanning or rebuild and the Facet Types will be automatically transferred from the sample to the created model. 									
Video keywords: cut grade, facet types	s, sample									
Published in:	Release Notes	2021-07-30 - HP Carbon 1.2.95								
	Documentation	NA								
	Playlists	NA								
	Also As Separate Page Specification									

Angle between Neighboring Facets

Some changes were made for the AdjacentFacetsAnglesEveryMin parameter, allowing Smart Recut to set limitations for the angles between neighboring facets.

Adjusted Default Values

To provide better results by default, the initial values for the AdjacentFacetsAnglesEveryMin parameter were adjusted for the "MyAnyCut" appraiser.

	1.All	Narrow	2.Vert	icesNa	3.Ang	lesNar	4.Gird	leNarr	5.Gird	leWide	6.Ang	lesWid	7.Verti	cesWi	8.AIIW	idene
Was	1	-	0,7	-	1	-	0,7	-	0,7	-	0,5	-	0,7	-	0,5	-
Now	3	-	2	-	3	-	2	-	2	-	1	-	2	-	1	-

Adding to MyOval Appraiser

The AdjacentFacetsAnglesEveryMin parameter previously was available only within the "MyAnyCut" appraiser - now it is also available in the presets of "MyOval" and "MyOvalPerformanceWare" appraisers.

Appraiser Editor	Appraiser Editor																							
							Profile	My Defa	Oval ult (re	ead or	ıly)												Hide Prese	e ets
Cut Symmetry Other									1															
Parameter	[FR	[GD	[VG	[EX	EX]	VG]	GD]	FR]	1.Ultr	aSym	2.Hig	hSym	3.Med	liumSy	4.Nor	malSyr	5.Star	ndard	6.Low	Sym	7.Exte	ndedl	8.Max	Mass
GirdleRatio 🚺	1,2	1,2	1,2	1,25	1,75	1,8	1,8	1,8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TableGirdleSimilarity	0	0	0	0	15	17,5	20	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SquareDeviation 🕕	-10	-5	-3	0	6	8	10	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GirdleShape_Flexure	-6	-4	-3	-2	2	3	4	6	0	0,5	0,25	0,5	0,25	0,5	0,5	0,5	0	0,5	0,25	0,5	0,25	0,5	0,5	0,5
Table 🚯	50	50	52	54	63,5	65	66	66	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CrownAngle 🚯	29	29,5	30	31	40	46	50	51	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CrownSlopeDeltaCW	-1,5	-1	-0,5	0	3	4,5	6	7,5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CrownSlopeDeltaWP	-1,5	-1	-0,5	0	3	4,5	6	7,5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CrownHeight 👩	10	11	11,5	12	16	16,5	17	18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PavilionAngle 👩	34	34,5	35	37,5	40,5	42	42,5	43	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PavilionHeight ()	35	36	36,5	39	44,5	46,5	47,5	48,5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GirdleBezel ()	1,5	2	2,2	2,5	5,5	6,5	8	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LowerGirdleDepth	70	72	76	78	82	84	86	90	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TotalHeight 0	51,5	52,5	56,5	58	64,5	65	65,5	66,5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
StarHeight	17	22	25	27	35	37	40	45	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
StarLength 🚺	30	35	40	45	55	60	65	70	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Culet_mm	0	0	0	0	0,03	0,09	0,4	0,8	-	0,5	-	1	-	1	-	1	-	1	-	1	-	1	-	1
SweetLine ()	-9	-6	-3	-1,5	1,5	3	6	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AdjacentFacetsAnglesEveryMin									3	-	3	-	3	-	3	-	3	-	3	-	3	-	3	-

Adding to SmartNormalize

The AdjacentFacetsAnglesEveryMin parameter is also added to the presets of the "19. SmartNormalize" and "19. SmartNormalizeLite" algorithms.

😎 Carbon - [Oval_blocked_001_ver3]								
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Allocation solutions × Appraiser Editor								x
▼ Plans & Scans							Hid	e
★ ☆ ■ ■ ■ ■ ■ × 本· Čompare Standard Report -							FIES	215
Cutting Price Jarit Mass Alloc Profile JZ/m- Gr Sym Br Parameter Grade Value	1.High	2.Med	3.Low	4 Micr	5 High	6 Med	7.Low	8 Micr
Imported model 0 2.2307 Shift	5	3	3	3	5	3	1	1
1 Oval_WBT_C32_G 7438\$ VS1 🔵 1.4946 MyOvalDefault H VG VG TimeLimit	2	2	2	2	2	2	2	2
2 Oval_WBT_C32_G 7338\$ VS1 0 1.4692 MyOvalDefault H VG VG SquareLimit	5	5	5	5	5	5	5	5
3 Oval_WBT_C32_G 7288\$ VS1 1.4585 MyOvalDefault H VG VG DistanceLimit	50	40	25	5	50	40	25	5
4 Oval 10249\$ VS1 0 1.5665 SR MyOvalDefault H EX EX EquableGirdle	20	20	10	1	20	20	10	1
5 Oval 9110\$ VS1 1.5667 SR MyOvalDefault H VG VG Custom Facet Marking	1	1	1	1	0	0	0	0
6 Oval 9110\$ VS1 🜒 1.5669 SR MyOvalDefault H VG VG SymmetryCoeff	100	10	1	1	100	10	1	1
7 Oval 10249\$ VS1 0 1.5675 SR MyOvalDefault H EX EX AdjacentFacetsAnglesEveryMin	1	1	1	1	1	1	1	1
8 Oval 10249\$ VS1 1.5647 SR MyOvalDefault H EX EX	_							_
9 Oval 10249\$ VS1 🌒 1.5660 SR MyOvalDefault H EX EX								
🗌 10 Oval 10249\$ VS1 🌒 1.5636 SR MyOvalDefault H EX EX								
✓ 11 Oval 10184\$ VS1 🏮 1.5490 SR MyOvalDefault H EX EX								
Diamond Info								
▼ Appraiser Multicutting								
✓ Diamond Allocation								
Algorithm: 10. Smarthermalize								
Allow Girdle Extra Facets Presets: All presets								
EX Cut grade:								
Fix Pavilion Symmetry grade: EX								
Fix finished facets								
Start Allocation								
Show difference from: <don't show=""> *</don't>								
Inclusions (0) QC Filter								

Polish Report Templates

Cushion Reports - Tier Information

For the Cushion reports, the "Tier" information is added:



The Polish Illustrated HTML, RTF, and Standard Report templates for Cushion and Square Cushion are affected.

Cushion Reports - Grade Information

For the Cushion reports, the grades information is added:

Was	Now
	1

Parameter		Avg	Min	Max	Dev	1	2	3	4
Crown height, %		14.89	14.89	14.89	0.00	14.89	14.89	N/A	N/A
Crown Width height, %	5	14.89	14.89	14.89	0.00	14.89	14.89	-	-
Crown Length height,	%	15.10	15.10	15.10	0.00	15.10	15.10	-	-
Crn Main Width height,	%	14.89	14.89	14.89	0.00	14.89	14.89	-	-
Crn Main Length height	t, %	15.10	15.10	15.10	0.00	15.10	15.10	-	-
Crown Corner height, 9	%	15.04	15.03	15.04	0.01	15.04	15.03	15.04	15.04
Pavilion height, %		48.17	48.17	48.17	0.00	48.17	48.17	N/A	N/A
Pavilion Width height,	%	48.17	48.17	48.17	0.00	48.17	48.17	-	_
Pavilion Length height,	%	47.63	47.63	47.63	0.00	47.63	47.63	-	-
Pav Main Width height,	%	25.43	25.43	25.43	0.00	25.43	25.43	-	-
Pav Main Length height	t, %	23.26	23.26	23.26	0.00	23.26	23.26	-	-
Pavilion Corner height,	%	47.49	47.48	47.49	0.00	47.49	47.48	47.49	47.49
Pavilion 2 Main height,	%	30.12	30.12	30.12	0.00	30.12	30.12	30.12	30.12
Table: Side, %		62.61	61.18	64.05	2.87	61.18	64.05	-	_
Table: Corner w.r.t. Cor	mer, %	65.39	65.39	65.39	0.00	65.39	65.39	-	-
Table: Corner w.r.t. Wid	dth, %	78.34	78.34	78.34	0.00	78.34	78.34	-	-
Diameter: Corner, %		119.79	119.79	119.79	0.00	119.79	119.79	-	-
Crown Star Length, %:		50.89	50.89	50.89	0.00	-	-	-	-
Crown Star Width, %		51.13	51.13	51.13	0.00	-	-	-	-
Girdle thickness, %		4.54	4.54	4.54	0.00	_	_	_	_
Culet, %		0.00	0.00	0.00	0.00	-	-	-	-
Crown angle, °		37.47	37.47	37.47	0.00	37.47	37.47	-	-
Crown Main angle, °		37.47	37.47	37.47	0.00	37.47	37.47	N/A	N/A
Crn Main Width angle,	0	37.47	37.47	37.47	0.00	37.47	37.47	-	-
Crn Main Length angle,	, °	38.39	38.39	38.39	0.00	38.39	38.39	-	-
Crown Corner angle, °		35.91	35.91	35.91	0.00	35.91	35.91	35.91	35.91
Crn Star Width angle, 9	0	25.23	25.23	25.23	0.00	25.23	25.23	25.23	25.23
Crn Star Length angle,	0	25.64	25.64	25.64	0.00	25.64	25.64	25.64	25.64
Pavilion angle, °		32.56	32.46	32.65	0.19	32.46	32.59	32.65	32.53
Pav Main Width angle,	0	57.90	57.69	58.11	0.42	57.69	58.11	-	-
Pav Main Length angle,	, °	55.69	55.58	55.80	0.22	55.58	55.80	-	-
Pavilion Corner angle, 9	D	53.87	53.65	54.08	0.43	53.65	53.93	54.08	53.80
Pavilion 2 Main angle, 9	0	32.56	32.46	32.65	0.19	32.46	32.59	32.65	32.53
Girdle thickness, %	Туре	Avg	Min	Max	Dev	1	2	3	4
G. th. Width	red	4.54	4.54	4.54	0.00	4.54	4.54	-	-
G. th. Length	red	4.87	4.87	4.87	0.00	4.87	4.87	-	-
G. th. Width	red	5.08	5.07	5.08	0.01	5.07	5.08	5.08	5.07
G. th. Width	green	3.59	3.58	3.61	0.03	3.61	3.58	3.58	3.61
G. th. Length	red	3.94	3.94	3.95	0.01	3.95	3.95	3.94	3.94
G. th. Corner width	green	4.41	4.40	4.43	0.03	4.43	4.40	4.40	4.40
G. th. Corner length	green	4.40	4.39	4.41	0.02	4.41	4.40	4.39	4.40
G. th. Width	yellow	7.14	7.12	7.15	0.03	7.14	7.15	7.15	7.12
G. th. Length	yellow	7.51	7.49	7.53	0.04	7.50	7.53	7.52	7.49

Parameter		Avg	Min	Max	Dev	1	2	3	4	Cut	Sym
Girdle Ratio (L\W)		1.083	_	_	-	-	_	-	-	EX	-
Total height, %		67.45	-	_	-	-	-	-	-	FX	-
Crown height, %		13.73	13.73	13.73	0.00	13.73	13.73	N/A	N/A	EX	-
Crown height Width, %	,	13.73	13.73	13.73	0.00	13.73	13.73	-	-	-	-
Crown height Length,	/6	13.34	13.34	13.34	0.00	13.34	13.34	-	-	-	-
Crown height Corner, 9	6	13.59	13.58	13.59	0.00	13.59	13.59	13.59	13.58		-
Crn Main Width height,	%	13.73	13.73	13.73	0.00	13.73	13.73	-	-	-	-
Crn Main Length height	t, %	13.34	13.34	13.34	0.00	13.34	13.34	-	-	-	-
Pavilion height, %		49.96	49.96	49.96	0.00	49.96	49.96	N/A	N/A	EX	-
Pavilion height Width,	%	49.96	49.96	49.96	0.00	49.96	49.96	-	-	-	-
Pavilion height Length,	%	50.27	50.27	50.27	0.00	50.27	50.27	-	-	-	-
Pavilion height Corner,	%	49.59	49.59	49.59	0.00	49.59	49.59	49.59	49.59	-	-
Pav 1 Main Width heigh	nt, %	28.51	28.51	28.51	0.00	28.51	28.51	-	-	-	-
Pav 1 Main Length heig	ht, %	25.61	25.61	25.62	0.00	25.61	25.62	-	-	-	-
Pavilion 2 Main height,	%	30.63	30.63	30.63	0.00	30.63	30.63	30.63	30.63	-	-
Table: Side, %		65.12	63.00	67.24	4.24	63.00	67.24	-	-	EX	-
Table: Corn. w.r.t. Corn	., %	69.51	69.51	69.51	0.00	69.51	69.51	-	-	-	-
Table: Corn. w.r.t. Widt	h, %	83.88	83.88	83.88	0.00	83.88	83.88	-	-	-	-
Diameter: Corner, %		120.68	120.68	120.68	0.00	120.68	120.68	-	-		-
Crown Star Length, %:		50.75	50.75	50.76	0.01	-	-	-	-	-	-
Crown Star Width, %		49.32	49.32	49.33	0.00	-	-	-	-	-	-
Girdle thickness, %		3.76	3.76	3.76	0.00	-	-	-	-	EX	-
Culet, %		0.00	0.00	0.00	0.00	-	-	-	-	-	-
Crown angle, °		36.57	36.57	36.57	0.00	36.57	36.57	-	-	-	-
Crown Main angle, °		36.57	36.57	36.57	0.00	36.57	36.57	N/A	N/A	-	-
Crn Main Width angle,	0	36.57	36.57	36.57	0.00	36.57	36.57	-		EX	EX
Crn Main Length angle,	0	36.96	36.96	36.96	0.00	36.96	36.96	-	-	EX	EX
Crown Corner angle, °		36.54	36.54	36.54	0.00	36.54	36.54	36.54	36.54	-	-
Crn Star Width angle, °	•	24.35	24.35	24.35	0.00	24.35	24.35	24.35	24.35	-	-
Crn Star Length angle,	0	23.96	23.96	23.96	0.00	23.96	23.96	23.96	23.96	-	-
Pavilion angle, °		33.40	33.40	33.40	0.00	33.40	33.40	33.40	33.40	-	-
Pav 1 Main Width angle	, °	60.08	60.08	60.08	0.00	60.08	60.08	-	-	EX	EX
Pav 1 Main Length ang	e, °	58.18	58.18	58.18	0.00	58.18	58.18	-	-	EX	EX
Pavilion 1 Corner angle	, °	54.05	54.05	54.05	0.00	54.05	54.05	54.05	54.05	-	-
Pavilion 2 Main angle, a	•	33.40	33.40	33.40	0.00	33.40	33.40	33.40	33.40	EX	EX
Girdle thickness, %	Туре	Avg	Min	Max	Dev	1	2	3	4	Cut	Sym
G. th. Width	red	3.76	3.76	3.76	0.00	3.76	3.76	-	-	-	-
G. th. Length	red	3.84	3.84	3.84	0.00	3.84	3.84	-	-	-	-
G. th. Width	red	4.28	4.27	4.28	0.00	4.27	4.27	4.28	4.28	-	-
G. th. Width	green	2.67	2.67	2.67	0.00	2.67	2.67	2.67	2.67	-	-
G. th. Length	green	2.98	2.98	2.98	0.00	2.98	2.98	2.98	2.98	-	-
G. th. Corner width	green	2.63	2.63	2.63	0.00	2.63	2.63	2.63	2.63	-	-
G. th. Corner length	green	2.86	2.86	2.86	0.00	2.86	2.86	2.86	2.86	-	-
G. th. Width	yellow	6.08	6.08	6.08	0.00	6.08	6.08	6.08	6.08	-	-
G. th. Length	yellow	6.50	6.50	6.50	0.00	6.50	6.50	6.50	6.50	-	-

The Polish Illustrated HTML and Standard Report for Cushion and Square Cushion are affected.

Appraiser for Trapezoid-Like Objects

You can now quickly estimate the trapezoid-like objects of the "Industrial24" standard. To do this, use the new "Industrial24" appraiser.



The "Industrial24" standard is aimed to produce:

- Width-Length of bigger facet close to 2.4 mm
- Height close to 4 mm
- Max and Min incline angles no more than 3°



Currently, the following grades are available for important parameters:

- OK parameter is within boundaries
 NG ("NEGATIVE") outside the boundaries

Smart Recut - Running for Both Diamonds in Multi-Diamond Solutions

Previously, when using the 13. Cascade-2M algorithm with the + Smart Recut option, you obtained a smart recut solution only for the larger of two diamonds - the smaller diamond was a recut solution. Now you automatically obtain the smart recut solutions for both diamonds.

✓ Plans & Scans		
- 瘞 - 춒 ×		Compare Standard Report *
# Price A Mass BBB Yield Diam 1	Mass Alloc Clarity 32 Sym-C Gr Cut Syn Pro	Diam 2 Mass Alloc larit J2 Sym-C (
Imported model	O 3.2739	
✓ 19 • 10368\$ 1.9633 CB 20 59.87% CushionRectangular_PM4_PG8_PH24_PBrill_C	2 🛑 1.6522 SR S <mark>11 H +7.38 EX EX Cushion_1 Brilliant</mark>	🔵 0.3111 SR S <mark>1</mark> 2 H +7.73 📫
17 • 10355\$ 1.9541 CB 18 59.56% CushionRectangular_PM4_PG8_PH24_PBrill_C	2 🛢 1.6522 SR 511 H +7.38 EX EX EX Cushion_1 Brilliant	0.3019 \$12 H +8.00 E
1 9691\$ 1.8507 CB 1 56.20% CushionRectangular_PM4_PG8_PH24_PBrill_C3	2 🔘 1.5482 SI1 H +8.00 EX EX Cushion_1 Brilliant	0.3025 SI2 H +8.91 E
2 06045 1/ 492/CB 7 50 198/ CustomBritan alar FM4 FCB FH24 PBrit C	41.5413 SM +7.45 EX EX FX Prohim 1 ciling	
 Diamond Allocation 		1
Algorithm: 13. Cascade-2M		▼ V + Smart Recut
Was - Now		

Smart Recut will be launched only for two best (by price) Recut solutions and only for "gold star" SR presets. Thus, there will be 2 solutions with SR. For details about gold stars, refer to the "Gold Stars" Configuring section of this release notes.

New Parameter - Roundness at 11.25°

On large diamonds, the difference in radius is especially noticeable within a small segment. To put this difference under the additional control, the new Roundness parameter is added - now it is additionally estimated at any selected 11.25° sector (previously the smallest segment was 15°).

Note Unlike the oth	er Roundness parameters me
Appraiser	GIA Facetware + MyRound
Tab	Symmetry
Parameter Name	2RRoundnessMM11_25
Units	mm

Automatic Actions - Post-Scan STL Export

Now you can configure the system so that after the stone scan the obtained model will be automatically exported to STL format:

- Select Settings > General Settings.
 In the Automatic Actions section, click the Post-Scan Export tab.
- 3. Enable STL text, STL binary, or both, and set save locations for them.

4. Click OK.

Settings		>
Page Filter 👂	Automatic Actions	
General	Post-Scan Actions Post-Scan Export	
Scanning	Full project export	
Automatic Actions	OX22 Exported models location: %USERPROFILE%\Documents\OctoNus Software\Exported Models\OXGZ 💿 Load Default	
Reports	 New projects will be saved to this folder. Existing projects will be saved to the original project folder. Save photos with project 	
	Active model export in basis	
	Basis:	
	ASCII Exported models location: %USERPROFILE%\Documents\OctoNus Software\Exported Models\ASCII 💿 Load Default	
-	STL text Exported models location: %USERPROFILE%\Documents\OctoNus Software\Exported Models\STL_TEXT 💿 Load Default	
-	STL binary Exported models location: %USERPROFILE%\Documents\OctoNus Software\Exported Models\STL_BINARY 💿 Load Default	
	Export is performed into a file with a name of Stone ID and a corresponding format extension.	
	If Stone ID is empty, "NonameStone" file name will be used with a corresponding format extension.	
	OK Cancel Apply	1

DZ Color Estimate

Solution Sorting

Previously, after running the DZ Color Estimate feature, in the estimation result window, the solutions were sorted in the same way as they were sorted in the solution list before running estimation. Because of that, this could be difficult to find solutions with *the best prices*: even if before color estimation your solutions were sorted in the same way as they price, these prices changed after estimation, and keeping the previous ordering did not reflect this change.

Now after the color estimation, in the estimation result window, the solutions are re-sorted to put the best prices at the top of the list.

Before Estimation	After Estimation, WAS	After Estimation, NOW							
✓ 40 ● 16215\$ 2.9089 KK 1 47.53% Kp57 \$2 0.21402 VS1 H Kp57 \$2 0.7687 VS1 H 41 ● 16110\$ 2.8515 KK 2 46.55% Kp57 \$2 0.21402 VS1 H Kp57 \$2 0.7687 VS1 H	D-2 Life color estimation Scan 6.12 ct \$0 \$0 \$0 Not licensed	Solution No. Cutting Weight Clarity Color PPC Value Total Color (GIA) D E F G H I J K L M N O-P Q-R S-T U-V W-X Y-Z EI 1 K K K N O-P Q-R S-T U-V W-X Y-Z							
11 101103 2.00313 KK 2 40.3036 Kp37 V2 2.1402 V31 H Kp37 V2 0.7113 V31 H 42 16071\$ 2.8074 KK 3 45.73% Kp57 V2 2.1402 VS1 H Kp57 V2 0.6672 VS1 H 43 16071\$ 2.7845 KK 4 45.40% Kp57 V2 2.1409 VS1 H Kp57 V2 0.6672 VS1 H 44 16067\$ 2.8265 KK 5 46.06% Kp57 V2 2.1402 VS1 H Kp57 V2 0.6622 VS1 H 45 16031\$ 2.8025 KK 6 45.73% Kp57 V2 2.1402 VS1 H Kp57 V2 0.6622 VS1 H 46 15811\$ 2.7837 KK 7 45.24% Kp57 V2 2.1062 VS1 H Kp57 V2 0.6622 VS1 H 47 15555\$ 2.8093 KK 8 45.73% Kp57 V2 2.0564 VS1 H Kp57 V2 0.6774 VS1 H 48 15409\$ 2.6971 KK 9 43.93% Kp57 V2 2.0564 VS1 H Kp57 V2 0.6406 VS1 H 49 15387\$ 2.6759 KK 10 43.61% Kp57 V2 2.0630 VS1 H Kp57 V2 0.6612 VS1 H 50 15199\$ 2.9678 KK 11 48.34% Kp57 V2 2.6012 VS1 H Kp57 V2 0.6	Stop estimation No	SL1 Kp57 A2 2.60 ct VS1 H33/k /7 \$9500 \$25276 H 53% /1 47% (Fast) 51.2 Kp57 A2 0.36 ct VS1 F87/E13 \$1600 \$576 F 87% / E 13% (Fast) 37.1 V65M 2.50 ct VS1 H52/F8 \$9500 \$23750 \$23750 40.1 Kp57 A2 2.14 ct VS1 H93/t7 \$9500 \$23370 \$23750 G 70% / F 30% (Fast) 40.1 Kp57 A2 0.77 ct VS1 G 70/F30 \$3800 \$2256 G 70% / F 30% (Fast) 41.1 Kp57 A2 0.77 ct VS1 G 59/F41 \$3800 \$2259 41.1 Kp57 A2 0.77 ct VS1 G 79/F41 \$3800 \$2298 41.1 Kp57 A2 0.77 ct VS1 G 59/F41 \$3800 \$2298 41.1 Kp57 A2 0.71 ct VS1 G 59/F41 \$3800 \$2290 54.1 Kp57 A2 0.71 ct VS1 G 79/H41 \$8500 \$12920							
55 • 13757\$ 2.9222 KK 16 47.69% Kp57 \$2 • 1.6301 V51 H Kp57 \$2 • 1.2921 V51 H 56 • 13739\$ 2.8633 KK 17 46.71% Kp57 \$2 • 1.5430 V51 H Kp57 \$2 • 1.3203 V51 H 57 • 12618\$ 2.7446 KK 18 44.75% Kp57 \$2 • 1.2235 V51 H Kp57 \$2 • 1.5211 V51 H Sorted by price.	HE 2 HS 7 A2 0.67 d VS1 684/th 52400 51608 C G 84% / H 10% (Fast) 47.1 4657 A2 2.05 d VS1 598/tH 1598/tH 67500 15375 518225 C 1598/tH 1598/tH	The prices have changed, and this is reflected - solutions are sorted by the new price.							

Running Estimation Only for Selected Solutions

Now you are able to obtain the DZ color estimation only for the selected solutions.

To do that:

- 1. In the solution list, select the checkboxes to the right of the solutions you want to get an estimation for.
- On the toolbar of the Plans & Scans section, click the Add solution(s) to Solutions Report button. The solutions are marked with .
 In the solution list, right-click the solutions you want to start estimation from and then select Estimate color grade for ...



The estimate dialog is displayed.

4. In the estimate dialog, set color estimation for your starting solution and the Estimation Mode.

Estimate color grade for Brilliant 1.0025 ct.	×
Calculate color for all diamonds based on this color esti	mation: H 100%
DEFGHIJ	K L M N
Estimation Mode: Precise 💌	Calculate Cancel

5. Click Calculate. The system switches to the DZ colors mode and displays the progress. As soon as the calculation for the selected solutions is finished, their results are displayed in the table.



Grades for Scans

In many cases, it is important to quickly estimate scans. To provide this possibility, the grades information is presented in:

- Solution list (was before)
- The Appraiser editor
 Reports (Standard and Polish)

Carbon - [Oval_blocked_001_ver3]																
File Edit View Inclusion Window Settings Help																
Scan Rect diamonds inpositive Photoreal colors galand galand compass \$	0 🖤 🔇	8) da	» 🗄	I	+ +	0	₽ m ₁	m ₂ m	4 8	9 9 66 🔹 💠 🔍						
Allocation solutions	Appraiser Editor								×	Standard Report						
▼ Plans & Scans		Drofik	My Dofor	Oval	od ook	,		Sh	ow sets	≡ Settings i @Print SQuick Print						
🚖 🏫 📕 🗍 📕 📕 📕 🗶 💇 🕸 🖌 Compare 🛛 Standard Report 🝷	Ort Committee	FIGH		une (re	ou only	·										
# * Cutting Price Jarit Mass Alloc rofil DZ yn-I Gr Sym 3r	Parameter	Grade	Value	[FR	[GD	f VG	[FX	EX1	VG1	Cutting: Oval	*					
▼ Imported model 0 2.2307 Poor Poor	GirdleRatio	EX	1.311	1,2	1,2	1,2	1,25	1,75	1,8	Template: Standard Report for any cut	t *					
	TableGirdleSimilarity	EX	4.757	0	0	0	o	15	17,5	Enhanced precision: +2 digits	\$					
	SquareDeviation	VG	5.038	-10	-5	-3	0	6	8	Cutting type	c	Ival	Model		Importe	d model
	GirdleShape_Flexure	FR	5.586	-6	-4	-3	-2	2	3	Spread Extra Facet Girdle / Nat	-0.6644 ct	, -42.4209 % 0/12)	Scale weight, of Corrected man	t s.ct	2.22.2	(A 226898
	Table 🔮	VG	3.652	50	50	52	54	63,5	65	Cut appraiser	My	Oval	Cut grade		Po	or
	CrownAngle (EX	7.684	29	29,5	30	31	40	46	Symmetry appraiser Model building info	My	Oval I/A	Sym grade Final grade		Po	or
	CrownSlopeDeltaCW	Poor	8.444	-1,5	-1	-0,5	0	3	4,5							
	CrownSlopeDeltaWP	GD	0.706	-1.5	-1	-0.5	0	3	4.5	Diameter mm	Avg	6,48967	8.50509	31,0559 %	Cut	Sym
	CrownHeight @	FR	0.844	10	11	11.5	12	16	16.5	Girdle Ratio (L\W)	1.31056	-	-	-	N/A	-
	PavilionAngle	EX	0.452	34	34.5	35	37.5	40.5	42	Crown curve angle, * Crown point angle, *	29.9462	24.9858	34.9065	9.9208	-	N/A
	Dwillion Height	EV	1 270	25	26	26.5	20	44.5	46.5	Crown wing angle, °	29.2398	22.1936	43.4288	21.2352	-	N/A
	Pavilion leight				30	30,5	39		40,5	Pavilion curve angle, * Pavilion wing angle, *	40.4517 35.8271	40.1610	40.7424 36.5291	1,4041	EX	VG N/A
	GirdleBezel	Poor	1.292	1,5	2	2,2	2,5	5,5	0,5	Table, %		63.6520	68.4093	4.7573	VG	
	LowerGirdleDepth	Poor	90.034	70	72	76	78	82	84	Table, mm	10 9 4 2 7	4.13080	5.81828	1.68747	-	
	TotalHeight (Poor	3.175	51,5	52,5	56,5	58	64,5	65	Crown height, 78	0.70372	0.44500	1.02413	0.5230	-	
	StarHeight	EX		17	22	25	27	35	37	Pavilion height, %	41.3795	33.6843	46.2793	12.5951	EX	
	StarLength @	Poor		30	35	40	45	55	60	Pavilion height, mm	2.68539	2.18600	3.00337	0.81738	-	
	Culation	CD	1 764	0	0	0		0.02	0.00	Total height, %	4,74880				Poor	
Scan Info	Culet_mm	00	0.2.54	0	0	0		0,05	U,09	Girdle bezel, %	21.2925	15.0020	27.0682	12.0662	Poor	
▼ Appraiser	SweetLine	VG	2.346	-9	-6	-3	-1,5	1,5	1	Girdle bezel, mm Culet %	1.38181	0.97358	1.75664	0.78305		
, which are a second seco		L								Culet, mm	0.25378	0.12743	0.35930	0.23187		
Appraisers: MyOval Hide Editor										Table offset length, %	0.1475					N/A
Profiles: Default -										Table offset width, % Culet offset length %	2.5064					
										Culet offset width, %	0.2441					N/A
 Diamond Allocation 																

Report Actualization

To be in correspondence with the modern diamond processing, some reports were updated.

Label Report

In Label Report, for a more informative representation of cuts (parameters and grades), the templates were changed. Some parameters were added, some were removed. Below are examples of Cushion, Brilliant and AnyCut Label Reports:

	Was	Now
Brilliant		

Darameter		Dimia	nt 07.0	05.2021 15:4	6 HP(011+	Stone ID: Demo1ct		Brillia	nt 07.0	<u>J5.2021 15</u>	: 50	+
ratanicter	Avg	Min	Ma	nx Dev	/ Cut	Sym	Width	6.296 mm	Leng	ht 6.304 n	nm Total v	weight	t
Diameter, mm	6.301	6.29	6 6.3	04 0.12	% -	FX	Parameter	Avg	Min	Max	De	ev	1
	40.60	40.60	0 40	60 0.00		EV	Diameter, mm	6.301 mm	6.29	6 6.304	4 0.12	2 %	\perp
Casum angle,	40.00	40.00	- 40.				Crown angle, °	36.50	36.5	0 36.50) 0.0	00	+
Crown angle, °	36.50	36.50	0 36.	50 0.00) EX	EX	Pavilion angle, °	40.60	40.6	0 40.60) 0.0	00	+
Girdle bezel, %	0.221 mm 3.50 %	3.50) 3.5	50 0.00) EX	EX	Table, %	.46/mm 55.02 %	55.0	2 55.02	2 0.0	00	+
Table, %	3.467 mm 55.02 9	6 55.02	2 55.	02 0.00) EX	EX	Crown height, % 1	.049 mm 16.66 %	16.6	6 16.66	<u> </u>	00	+
Total height, %	3.972 mm 63.03 9	6 –	-	· _	_	_	Pavilion height, % 2	./01 mm 42.8/ %	42.8	/ 42.8/	/ 0.0	00	+
Crown beight %	1 049 mm 16 66 9	6 16.6	5 16	66 0.00) –	FX	Girdle bezel, %	.221 mm 3.50 %	3.50	3.50	0.0	00	+
Day height 04	2 701 mm 42 97 0	42.0	7 42	97 0.00			Iotal height, %	.972 mm 03.03 %		0 50.00		00	+
Pav. neight, %	2.701 mm 42.87 %	0 42.8	/ 42.	8/ 0.00) –	EX	Star length, %	30.00	70.0			00	+
Star, %	50.00	-			-	EX	Table offect %	79.00	/9.0	0 79.00	0.0	00	+
Pav. nair, %	79.00	79.00	0 79.	00 0.00) EX	EX	Culet offset %	$000 \text{ mm} 0.00 \pm 0.10$	0/0	_			+
G-C off., %	0.00 ± 0.12	G-1 off.	, % 0.00 ±	0.10 I-C off.	, % 0.00	± 0.13	Table-culet offset %	$000 \text{ mm} 0.00 \pm 0.12$	0/0		_	_	+
	Table Proce	essing pa	rameters	1			Table-Culet offset, %	.000 mm[0.00 ± 0.15	70				
Table allowance before	0.039 m	m	incl	ine	0.32 °			Table Process	ing nara	meters			
	Reference	Line par	ameters				Table allowance before	0 039 mm	ing para	inclin	۵	0.32	0
Marking for Crown, mm	C8 before		1.095	C8 aft	ter 1.	049		Reference Li	ne naran	neters		0.52	-
Marking for Pav., mm	P8 before		1.281	P8 aft	ter 1.	270	Marking for Crown	C8 before	1	.095 mm	C8 a	after	1
Total weight, ct	0.97				EX	EX	Marking for Pavilion	P8 before	1	.281 mm	P8 a	fter	1
40.60°	P4 P2 P5 P1 40.60 P6 P8 P7)°	36.50	0° C1 C8 C7	C5 3 C6	36.50°	40.60°	P4 P2 P5 P1 40.60° P6 P8 P7		36.50	C1 C8 C	C6	C5
40.60°	40.60° 40.60°		3	6.50° 36.50)° 36.50	J~	40.60°	40.60° 40.60°		36	36.	50°	50
40.60°	40.60° 40.60° mond_60025 with Sc	lustions	Cushion	07.05.202	1 15:23	HP011+	40.60° Stone ID: cushion_diamono Width	40.60° 40.60° 60025 with Solustions 6.790 mm	Cushion	07.05.20 7.233 mm	36.3 021 16:00 Total weigh	50° HPC	011 7
40.60° Stone ID: cushion_diar Parameter	40.60° 40.60° mond_60025 with So Avg	lustions	Cushion Min	6.50° 36.50 07.05.202 Max	1 15:23 Dev	HPO11+ Cut Sym	40.60° Stone ID: cushion diamono Width Parameter	40.60° 40.60° 60025 with Solustions 6.790 mm Avg	Cushion Lenght	07.05.20 7.233 mm	021 16:00 Total weigh Dev	50° HPC 11 1.8 Cut	011 7
40.60° Stone ID: cushion_diar Parameter Diameter, mm	40.60° 40.60° mond_60025 with So Avg 7.685	lustions	Cushion Min 6.790	66.50° 36.50 07.05.202 Max 8.156	1 15:23 Dev 20.11 %	HPO11+ Cut Sym – N/A	40.60° Stone ID: cushion_diamono Width Parameter Girdle Ratio	40.60° 40.60° 6.790 mm Avo 1.065	Cushion Lenght	07.05.20 7.233 mm	021 16:00 Total weigh	50° HPC 1t 1.8 Cut EX	011 7 5
40.60° Stone ID: cushion_diar Parameter Diameter, mm Pav. angle, °	40.60° 40.60° mond_60025 with So Avg 7.685 32.50	lustions	Cushion Min 6.790 32.50	07.05.202 Max 8.156 32.50	1 15:23 Dev 20.11 % 0.00	HPO11+ Cut Sym - N/A N/A N/A	40.60° Stone ID: cushion diamono Width Parameter Girdle Ratio Crown Main Length angle, °	40.60° 40.60° 6.790 mm Avo 1.065 37.14 28.09	Cushion Lenght 7 Min 37.14 29.09	07.05.20 7.233 mm 7 Max 37.14 38.00	36.3 021 16:00 Total weigh Dev	50° HPC 1t 1.8 Cut EX EX	011 7 E
40.60° Stone ID: cushion_diar Parameter Diameter, mm Pav. angle, ° Crown angle, °	40.60° 40.60° mond_60025 with So Avg 7.685 32.50 37.14	lustions	Cushion Min 6.790 32.50 37.14	07.05.202 07.05.202 Max 8.156 32.50 37.14	1 15:23 Dev 20.11 % 0.00 0.00	HPO11+ Cut Sym - N/A N/A N/A N/A N/A	40.60° Stone ID: cushion diamono Width Parameter Girdle Ratio Crown Main Width angle, ° Crown Main Length angle, 7 Pavilion 1 Main Width angle, 9	40.60° 40.60° 40.60° 40.60° 6.790 mm Ava 1.065 37.14 38.09 ° 57.90	Cushion Lenght Min 37.14 38.09 57.90	07.05.20 7.233 mm Max 	36.3 021 16:00 Total weigh Dev 0.00 0.00 0.00	50° HPC 1.8 Cut EX EX EX EX EX	011 57 E
40.60° Stone ID: cushion_dian Parameter Diameter, mm Pav. angle, ° Crown angle, ° Girdle bezel, %	40.60° 40.60° mond_60025 with So 7.685 32.50 37.14 0.245 mm	Justions	Cushion Min 6.790 32.50 37.14 3.60	07.05.202 07.05.202 Max 8.156 32.50 37.14 3.60	1 15:23 Dev 20.11 % 0.00 0.00 0.00	HPO11+ Cut Sym - N/A N/A N/A N/A N/A VG N/A	40.60° Stone ID: cushion_diamono Width Parameter Girdle Ratio Crown Main Width angle, ° Crown Main Length angle, ° Pavilion 1 Main Width angle Pavilion 1 Main Length angle	40.60° 40.60° 40.60° 40.60° 6.790 mm Ava 1.065 37.14 38.09 ,° 57.90 e,° 55.56	Cushion Lenght 7 Min 37.14 38.09 57.90 55.56	07.05.20 7.233 mm Max 37.14 38.09 57.90 55.56	36.3 36.3 021 16:00 Total weigh Dev - 0.00 0.00 0.00 0.00 0.00	50° HPC 1t 1.8 Cut EX EX EX EX EX EX	011 57 E E E
40.60° Stone ID: cushion_dian Parameter Diameter, mm Pav. angle, ° Crown angle, ° Girdle bezel, % Table, %	40.60° 40.60° mond_60025 with Sc 7.685 32.50 37.14 0.245 mm 4.370 mm 6	B.60 %	Cushion Min 6.790 32.50 37.14 3.60 60.71	07.05.202 07.05.202 Max 8.156 32.50 37.14 3.60 63.84	20.11 % 0.00 0.00 0.00 3.14	HPO11+ Cut Sym - N/A N/A N/A N/A N/A VG N/A N/A	40.60° Stone ID: cushion_diamono Width Parameter Girdle Ratio Crown Main Width angle, ° Crown Main Length angle, ° Pavilion 1 Main Length angl Pavilion 1 Main Length angl Pavilion 2 Main angle, °	40.60° 40.60° 40.60° 40.60° 6.790 mm Ava 1.065 37.14 38.09 , ° 57.90 e, ° 55.56 32.50	Cushion Lenght 7 Min 37.14 38.09 57.90 55.56 32.50	07.05.20 7.233 mm Max - 37.14 38.09 57.90 55.56 32.50	36.3 36.3 021 16:00 Total weigh 0.00 0.00 0.00 0.00 0.00 0.00	50° HPC 1t 1.8 Cut EX EX EX EX EX EX EX EX	011 7 E E E
40.60° Stone ID: cushion_dian Parameter Diameter, mm Pav. angle, ° Crown angle, ° Girdle bezel, % Table, % Total beight %	40.60° 40.60° mond_60025 with Sc Avg 7.685 32.50 37.14 0.245 mm 4.370 mm 6 4.527 mm	3.60 %	Cushion Min 6.790 32.50 37.14 3.60 60.71	07.05.202 07.05.202 Max 8.156 32.50 37.14 3.60 63.84	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	HPO11+ Cut Sym - N/A N/A N/A N/A N/A VG N/A N/A N/A N/A	40.60° Stone ID: cushion_diamone Width Parameter Girdle Ratio Crown Main Width angle, ° Crown Main Length angle, ° Pavilion 1 Main Length angle Pavilion 1 Main Length angle, ° Table Widthwise, %	40.60° 40.60° 40.60° 40.60° 40.60° 6.790 mm Ava 1.065 37.14 38.09 ,° 57.90 e,° 55.56 32.50 4.122 mm 60.71 %	Cushion Lenght 1 37.14 38.09 57.90 55.56 32.50 	07.05.20 7.233 mm 1 Max 	36.3 36.3 021 16:00 Total weigh Dev - 0.00 0.00 0.00 0.00 0.00 -	50° HPC 11 1.8 Cut EX EX EX EX EX EX EX EX EX	
40.60° Stone ID: cushion_dian Parameter Diameter, mm Pav. angle, ° Crown angle, ° Girdle bezel, % Table, % Total height, %	40.60° 40.50° 40.50°	3.60 % 6.66 % 4.90 %	Cushion Min 6.790 32.50 37.14 3.60 60.71	07.05.202 Max 8.156 32.50 37.14 3.60 63.84	1 15:23 Dev 20.11 % 0.00 0.00 0.00 3.14 -	HPO11+ Cut Sym - N/A N/A N/A N/A N/A VG N/A N/A N/A N/A N/A	40.60° Stone ID: cushion_diamone Width Parameter Girdle Ratio Crown Main Width angle, ° Crown Main Length angle, ° Pavilion 1 Main Length angle Pavilion 1 Main Length angle Pavilion 2 Main angle, ° Table Widthwise, % Table Lengthwise, %	40.60° 40.60° 40.60° 40.60° 40.60° 40.60° 4.790 mm 4.065 37.14 38.09 c, 55.56 32.50 4.122 mm 60.71 % 4.618 mm 63.84 %	Cushion Lenght 1 Min 37.14 38.09 57.90 55.56 32.50 3.250	07.05.20 7.233 mm ⁻ 37.14 38.09 57.90 55.56 32.50 	36.3 36.3 021 16:00 Total weigh Dev - - 0.00 0.00 0.00 0.00 0.00 - - -	50° HPC 1t 1.8 Cut EX EX EX EX EX EX EX EX EX EX	0111 70 E E E
40.60° Stone ID: cushion_dian Parameter Diameter, mm Pav. angle, ° Crown angle, ° Girdle bezel, % Table, % Total height, % Crown height, %	40.60° 40.50° 40.50°	3.60 % 2.28 % 6.66 % 4.89 %	Cushion Min 6.790 32.50 37.14 3.60 60.71 - 14.89	07.05.202 Max 8.156 32.50 37.14 3.60 63.84 	1 15:23 Dev 20.11 % 0.00 0.00 0.00 3.14 - 0.00 0.22	HPO11+ Cut Sym - N/A N/A N/A N/A N/A VG N/A N/A N/A - N/A - N/A	40.60° Stone ID: cushion diamone Width Parameter Girdle Ratio Crown Main Width angle, ° Crown Main Length angle, ° Pavilion 1 Main Length angle Pavilion 1 Main Length angle Pavilion 2 Main angle, ° Table Widthwise, % Table Lengthwise, % Crown height, % Dawilion balath of	40.60° 40.60° 40.60° 40.60° 40.60° 40.60° 40.60° 40.60° 4.790 mm 40.65 37.14 38.09 ,° 57.90 e,° 55.56 32.50 4.122 mm 60.71 % 4.618 mm 63.84 % 1.011 mm 14.89 % 2.211 mm 40.618 %	Cushion Lenght 1 Min 37.14 38.09 57.90 55.56 32.50 	07.05.20 7.233 mm ⁻ 37.14 38.09 57.90 55.56 32.50 14.89 49.17	36.3 36.3 021 16:00 Total weigh Dev 0.00 0.00 0.00 0.00 0.00 0.00	50° HPC 1.8 Cut EX EX EX EX EX EX EX EX EX EX	
40.60° Stone ID: cushion_dian Parameter Diameter, mm Pav. angle, ° Crown angle, ° Girdle bezel, % Table, % Total height, % Crown height, % Pav. height, %	40.60° 40.527 mm 60° 10.011 mm 14 30.271 mm 40° 40.3271 mm 40° 40.3271 mm 40° 40.3271 mm 40° 40.527 mm 50° 40.527 mm 50° 40.5	8.60 % 2.28 % 6.66 % 4.89 % 8.17 %	Cushion Min 6.790 32.50 37.14 3.60 60.71 - 14.89 48.17	07.05.202 Max 8.156 32.50 37.14 3.60 63.84 - 14.89 48.17	36.50 1 15:23 Dev 20.11 % 0.00 0.00 3.14 - 0.00 0.00	HPO11+ Cut Sym - N/A N/A N/A N/A N/A VG N/A N/A N/A N/A - N/A - N/A - N/A	40.60° Stone ID: cushion diamono Width Parameter Girdle Ratio Crown Main Width angle, ° Crown Main Length angle, ° Pavilion 1 Main Length angle Pavilion 1 Main Length angle, ° Table Widthwise, % Table Lengthwise, % Crown height, % Pavilion height, % Cirdle hezel %	40.60° 40.60° 40.60° 40.60° 40.60° 6.790 mm Ava 1.065 37.14 38.09 ,° 57.90 e,° 55.56 32.50 4.122 mm 60.71 % 4.618 mm 63.84 % 1.011 mm 14.89 % 3.271 mm 48.17 % 0.245 mm 3.60 %	Cushion Lenght ⁻ Min 37.14 38.09 57.90 55.56 32.50 14.89 48.17 3.60	07.05.20 7.233 mm - - - - - - - - - - - - -	36.3 36.3 36.3 021 16:00 Total weigh Dev 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	50° HPC 1t 1.8 EX EX EX EX EX EX EX EX EX EX	011 7 E E E
40.60° Stone ID: cushion_dian Parameter Diameter, mm Pav. angle, ° Crown angle, ° Girdle bezel, % Total height, % Crown height, % Pav. height, % Star, %	40.60° 40.50° 40.50°	8.60 % 2.28 % 6.66 % 4.89 % 8.17 %	Cushion Min 6.790 32.50 37.14 3.60 60.71 - 14.89 48.17 -	66.50° 36.50 07.05.202 Max 8.156 32.50 37.14 3.60 63.84 - 14.89 48.17 -	20.11 % 20.11 % 0.00 0.00 0.00 3.14 - 0.00 0.00 -	HPO11+ Cut Sym - N/A N/A N/A N/A N/A VG N/A N/A N/A N/A - N/A - N/A - N/A	40.60° Stone ID: cushion diamono Width Parameter Girdle Ratio Crown Main Length angle, ° Pavilion 1 Main Length angle Pavilion 1 Main Length angle Pavilion 1 Main Length angle Pavilion 1 Main Length angle, ° Table Widthwise, % Table Lengthwise, % Crown height, % Girdle bezel, % Total beight %	40.60° 40.60° 40.60° 40.60° 40.60° 6.790 mm Avg 1.065 37.14 38.09 ,° 57.90 e,° 55.56 32.50 4.122 mm 60.71 % 4.618 mm 63.84 % 1.011 mm 14.89 % 3.271 mm 48.17 % 0.245 mm 3.60 % 4.527 mm 66 66 %	Cushion Lenght 1 37.14 38.09 57.90 55.56 32.50 14.89 48.17 3.60	07.05.20 7.233 mm ⁻ 	36.3 36.3 36.3 021 16:00 Total weigh Dev 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	50° HPC 1t 1.8 EX EX EX EX EX EX EX EX EX EX	0111 70 E E E
40.60° Stone ID: cushion_dian Parameter Diameter, mm Pav. angle, ° Crown angle, ° Girdle bezel, % Total height, % Total height, % Crown height, % Pav. height, % Star, % Pav. half, %	40.60° 40.527 mm 40.60° 40.507 mm 40.5095 N/A	8.60 % 2.28 % 6.66 % 4.89 % 8.17 %	Cushion Min 6.790 32.50 37.14 3.60 60.71 14.89 48.17 N/A	07.05.202 Max 8.156 32.50 37.14 3.60 63.84 	0.00 0.00	HPO11+ Cut Sym - N/A N/A N/A N/A N/A VG N/A N/A N/A N/A N/A N/A - N/A N/A N/A N/A N/A	40.60° Stone ID: cushion_diamono Width Parameter Girdle Ratio Crown Main Length angle, ° Crown Main Length angle, ° Pavilion 1 Main Length angle Pavilion 1 Main Length angle, ° Table Widthwise, % Table Lengthwise, % Crown height, % Girdle bezel, % Total height, % Star, %	40.60° 40.60° 40.60° 40.60° 6.790 mm Avg 1.065 37.14 38.09 ,° 57.90 e,° 55.56 32.50 4.122 mm 60.71 % 4.618 mm 63.84 % 1.011 mm 14.89 % 3.271 mm 48.17 % 0.245 mm 3.60 % 4.527 mm 66.66 %	Cushion Lenght - 37.14 38.09 57.90 55.56 32.50 - 14.89 48.17 3.60 -	07.05.20 7.233 mm 7 Max 37.14 38.09 57.90 55.56 32.50 	36.3 36.3 36.3 021 16:00 Total weigh Dev 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	50° HPC 1.8 EX EX EX EX EX EX EX EX EX EX	
40.60° Stone ID: cushion_dian Parameter Diameter, mm Pav. angle, ° Crown angle, ° Girdle bezel, % Table, % Total height, % Crown height, % Pav. height, % Star, % Pav. half, % G-C off., %	40.60° 40.245 mm 40.60° 40.527 mm 40.60° 40.507 mm 40.507 mm 40.507 mm 40.507 mm 40.5095 m/A 0.00 ± 0.0000 ± 0.00000 ± 0.00000000	0lustions 3.60 % 2.28 % 6.66 % 4.89 % 8.17 % 12 (Cushion Min 6.790 32.50 37.14 3.60 60.71 - 14.89 48.17 - N/A G-T off., %	66.50° 36.50 07.05.202 Max 8.156 32.50 37.14 3.60 63.84 	1 15:23 Dev 20.11 % 0.00 0.00 0.00 3.14 - 0.00 0.00 0.00 - N/A T-C off., %	HPO11+ Cut Sym - N/A N/A N/A N/A N/A VG N/A N/A N/A N/A N/A N/A - N/A N/A N/A 0.00 ± 0.13	40.60° Stone ID: cushion_diamon(Width Parameter Girdle Ratio Crown Main Length angle, ° Crown Main Length angle, ° Pavilion 1 Main Length angle Pavilion 1 Main Length angle, ° Table Widthwise, % Table Lengthwise, % Crown height, % Girdle bezel, % Total height, % Star, % Pavilion half, %	40.60° 40.60° 40.60° 40.60° 6.790 mm Avg 1.065 37.14 38.09 ,° 57.90 e,° 55.56 32.50 4.122 mm 60.71 % 4.618 mm 63.84 % 1.011 mm 14.89 % 3.271 mm 48.17 % 0.245 mm 3.60 % 4.527 mm 66.66 % 50.95 N/A	Cushion Lenght 1 37.14 38.09 55.56 32.50 14.89 48.17 3.60 - N/A	07.05.20 7.233 mm ⁻ 37.14 38.09 57.90 55.56 32.50 - - 14.89 48.17 3.60 - - N/A	36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.3	50° HPC It 1.8 EX EX EX EX EX EX EX EX EX EX	
40.60° Stone ID: cushion_dian Parameter Diameter, mm Pav. angle, ° Crown angle, ° Girdle bezel, % Table, % Total height, % Crown height, % Pav. height, % Star, % Pav. half, % G-C off., %	40.60° 40.245 mm 40.60° 40.245 mm 40.60° 40.527 mm 40.507 mm 40.507 mm 40.5095 m/A 0.00 ± 0. Table Pro	B.60 % 2.28 % 6.66 % 4.89 % 8.17 % 12 (occssing	Cushion Min 6.790 32.50 37.14 3.60 60.71 	07.05.202 Max 8.156 32.50 37.14 3.60 63.84 	1 15:23 Dev 20.11 % 0.00 0.00 0.00 3.14 - 0.00 0.00 0.00 - N/A T-C off., %	HPO11+ Cut Sym - N/A N/A N/A N/A N/A VG N/A N/A N/A N/A N/A - N/A - N/A N/A N/A N/A 0.00 ± 0.13	40.60° Stone ID: cushion diamono Width Parameter Girdle Ratio Crown Main Length angle, ° Crown Main Length angle, ° Pavilion 1 Main Length angl Pavilion 1 Main Length angl Pavilion 2 Main angle, ° Table Widthwise, % Table Lengthwise, % Crown height, % Pavilion height, % Girdle bezel, % Total height, % Star, % Pavilion half, % Table offset Length, %	40.60° 40.60° 40.60° 40.60° 40.60° 6.790 mm Ava 1.065 37.14 38.09 ,° 57.90 e,° 55.56 32.50 4.122 mm 60.71 % 4.618 mm 63.84 % 1.011 mm 14.89 % 3.271 mm 48.17 % 0.245 mm 3.60 % 4.527 mm 66.66 % 50.95 N/A 0.00	Cushion Lenght 1 37.14 37.90 55.56 32.50 14.89 48.17 3.60 14.89 48.17 3.60 14.89 48.17 3.60 14.89	07.05.20 7.233 mm ⁻ 37.14 38.09 57.90 55.56 32.50 - 14.89 48.17 3.60 - - 14.89 48.17 3.60 - - N/A Width, %	36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.3	50° HPC 1.1 1.8 Cut EX EX EX EX EX EX EX EX EX EX	
40.60° Stone ID: cushion_dian Parameter Diameter, mm Pav. angle, ° Crown angle, ° Girdle bezel, % Table, % Total height, % Crown height, % Pav. height, % Star, % Pav. half, % G-C off., % Table allowance before	40.60° 40.527 mm 66 10.011 mm 11 3.271 mm 44 50.95° N/A 0.00 ± 0. Table Pr 0.0.60°	a.60 % 2.28 % 6.66 % 4.89 % 8.17 % 12 (cocessing 53 mm	Cushion Min 6.790 32.50 37.14 3.60 60.71 	07.05.202 Max 8.156 32.50 37.14 3.60 63.84 	1 15:23 Dev 20.11 % 0.00 0.00 0.00 3.14 	HPO11+ Cut Sym - N/A N/A N/A N/A N/A VG N/A VG N/A N/A N/A - N/A - N/A N/A N/A 0.00 ± 0.13 46 °	40.60° Stone ID: cushion diamono Width Parameter Girdle Ratio Crown Main Length angle, ° Crown Main Length angle, ° Pavilion 1 Main Width angle Pavilion 1 Main Width angle Pavilion 2 Main angle, ° Table Widthwise, % Table Lengthwise, % Crown height, % Girdle bezel, % Total height, % Star, % Pavilion half, % Table Offset Length, % Culet offset Length, %	40.60° 40.00° 40.00°	Cushion Lenght : Min 37.14 38.09 57.90 55.56 32.50 - 14.89 48.17 3.60 - - 14.89 48.17 3.60 -	07.05.20 7.233 mm Max - 37.14 38.09 57.90 55.56 32.50 - 14.89 48.17 3.60 - 14.89 48.17 3.60 - N/A Width, % Width, %	36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.3	50° HPC It 1.8 EX EX EX EX EX EX EX EX EX EX	
40.60° Stone ID: cushion_dian Parameter Diameter, mm Pav. angle, ° Crown angle, ° Girdle bezel, % Table, % Total height, % Crown height, % Pav. height, % Star, % Pav. half, % G-C off., % Table allowance before	40.60° 40.527 mm 66 10.011 mm 11 30.271 mm 44 50.95° N/A 00.00 ± 0. 60.00 ± 0. 60.00 ± 0. 60.000 ± 0. 60.0000 ± 0. 60.000 ± 0. 60.000 ± 0. 60.0000 ± 0. 60.00000 ± 0. 60.00000 ± 0. 60.00000 ± 0. 60.000000000000000000000000000000000	a.60 % 2.28 % 6.66 % 4.89 % 8.17 % 12 (cocessing 53 mm toce Line	Cushion Min 6.790 32.50 37.14 3.60 60.71 	07.05.202 Max 8.156 32.50 37.14 3.60 63.84 	1 15:23 Dev 20.11 % 0.00 0.00 0.00 3.14 - 0.00 0.00 - N/A T-C off., %	HPO11+ Cut Sym - N/A N/A N/A N/A N/A VG N/A VG N/A N/A N/A N/A N/A N/A N/A N/A N/A - N/A - N/A 0.00 ± 0.13	40.60° Stone ID: cushion diamono Width Parameter Girdle Ratio Crown Main Length angle, ° Crown Main Length angle, ° Pavilion 1 Main Width angle Pavilion 1 Main Width angle Pavilion 1 Main Length angl Pavilion 2 Main angle, ° Table Widthwise, % Table Lengthwise, % Crown height, % Girdle bezel, % Total height, % Star, % Pavilion half, % Table offset Length, % Culet offset Length, %	40.60° 40.84% 40.60% 40.60% 40.84% 40.71% 40.71% 40.74% 40.71% 40.74% 40.74% 40.74% 40.74% 40.74% 40.74% 40.74% 40.74% 40.74% 40.74% 40.74% 40.74% 40.60% 40.60% 40.60% 40.60% 40.60% 40.60% 40.60% 40.60% 40.60% 40.60% 40.60% 40.60% 40.60% 40.60% 40.00%	Cushion Lenght : Min 37.14 38.09 57.90 55.56 32.50 - 14.89 48.17 3.60 - 14.89 48.17 3.60 -	07.05.20 7.233 mm - 37.14 38.09 57.90 55.56 32.50 - - 14.89 48.17 3.60 - - 14.89 48.17 3.60 - - N/A Width, %	36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.3	50° HPC It 1.8 EX EX EX EX EX EX EX EX EX EX	
40.60° Stone ID: cushion_diar Parameter Diameter, mm Pav. angle, ° Crown angle, ° Girdle bezel, % Table, % Total height, % Crown height, % Pav. height, % Star, % Pav. half, % G-C off., % Table allowance before Marking for Crown, mm	40.60° 40.527 mm 60° 40.527 mm 60° 40.527 mm 60° 40.527 mm 60° 40.507 mm 40° 40.5095 N/A 00.00 ± 0. 00.00 ±	a.60 % 2.28 % 6.66 % 4.89 % 8.17 % 12 (occessing 053 mm nce Line e	Cushion Min 6.790 32.50 37.14 3.60 60.71 - 14.89 48.17 - N/A G-T off., % paramete N/A	07.05.202 Max 8.156 32.50 37.14 3.60 63.84 	1 15:23 Dev 20.11 % 0.00 0.00 0.00 3.14 - 0.00 0.00 0.00 N/A T-C off., % 0 C8 after	HPO11+ Cut Sym - N/A N/A N/A N/A N/A VG N/A N/A N/A N/A N/A N/A N/A N/A N/A - N/A - N/A 0.00 ± 0.13	40.60° Stone ID: cushion diamono Width Parameter Girdle Ratio Crown Main Width angle, ° Crown Main Length angle, ° Pavilion 1 Main Width angle Pavilion 1 Main Length angl Pavilion 1 Main Ko Crown height, % Girdle bezel, % Total height, % Star, % Pavilion half, % Table offset Length, % Culet offset Length, %	40.60° 40.80° 40.60° 40.50° 40.60° 40.60° 40.60° 40.60° 40.60° 40.60° 40.60° 40.60° 40.60° 40.60° 40.60° 40.00°	Cushion Lenght : 37.14 38.09 57.90 55.56 32.50 - 14.89 48.17 3.60 - 14.89 48.17 3.60 - N/A EX EX EX	07.05.20 7.233 mm ¹ Max - 37.14 38.09 57.90 55.56 32.50 - - 14.89 48.17 3.60 - - 14.89 48.17 3.60 - - Width, % Width, % Ers	36.3 37.4 37.4	50° HPC t 1.8 EX	
40.60° Stone ID: cushion_dian Parameter Diameter, mm Pav. angle, ° Crown angle, ° Girdle bezel, % Table, % Total height, % Crown height, % Pav. height, % Star, % Pav. half, % G-C off., % Table allowance before Marking for Crown, mm Marking for Pav., mm	40.60° 40.527 mm 40.60° 40.527 mm 40.60° 40.50.95° N/A 00.00 ± 0.0° 40.60° 40.60° 40.60° 40.527 mm 40.60°	Alustions 3.60 % 2.28 % 6.66 % 4.89 % 8.17 % 12 (occessing 053 mm nce Line e e e	Cushion Min 6.790 32.50 37.14 3.60 60.71 - 14.89 48.17 - 14.89 48.17 - N/A G-T off., % paramete paramete N	07.05.202 Max 8.156 32.50 37.14 3.60 63.84 	1 15:23 Dev 20.11 % 0.00 0.00 0.00 0.00 3.14 - 0.00	HPO11+ Cut Sym - N/A N/A N/A N/A N/A VG N/A VG N/A N/A N/A - N/A - N/A - N/A N/A N/A N/A N/A N/A N/A N/A	40.60° Stone ID: cushion diamono Width Parameter Girdle Ratio Crown Main Width angle, ° Crown Main Length angle, ° Pavilion 1 Main Length angl Pavilion 1 Main Length angl Pavilion 2 Main angle, ° Table Widthwise, % Table Lengthwise, % Crown height, % Girdle bezel, % Total height, % Star, % Pavilion half, % Table offset Length, % Culet offset Length, % Culet offset Length, %	40.60° 40.71% 40.71% 40.71% 40.71% 40.71% 40.71% 40.71% 40.71% 40.71% 40.71% 40.71% 40.71% 40.71% 40.71% 40.71% 40.71% 40.71% 40.71% 40.70% 40.60% 40.71% 40.70% 40.60% 40.60% 40.70% 40.60% 40.70%	Cushion Lenght 1 37.14 38.09 57.90 55.56 32.50 - 14.89 48.17 3.60 - 14.89 48.17 3.60 -	07.05.20 7.233 mm ⁻ 37.14 38.09 57.90 55.56 32.50 14.89 48.17 3.60 14.89 48.17 3.60 N/A Width, % Width, % Width, %	36.3 37.4 37.4	50° HPC 1.8 Cut EX EX EX EX EX EX EX EX EX EX	
40.60° Stone ID: cushion_dian Parameter Diameter, mm Pav. angle, ° Crown angle, ° Girdle bezel, % Total height, % Total height, % Pav. height, % Pav. height, % Star, % Pav. half, % G-C off., % Table allowance before Marking for Crown, mm Marking for Pav., mm	40.60° 40.245 mm 40.60° 40.527 mm 40.60° 40.507 mm 40.50.95 N/A 0.00 ± 0. 70.00 ±	a.60 % 2.28 % 6.66 % 4.89 % 8.17 % 12 (occessing 53 mm ccc Line e e	Cushion Min 6.790 32.50 37.14 3.60 60.71 	07.05.202 Max 8.156 32.50 37.14 3.60 63.84 	1 15:23 Dev 20.11 % 0.00 0.00 0.00 3.14 - 0.00 0.00 0.00 - N/A T-C off., % 0 C8 after P8 after	HPO11+ Cut Sym - N/A N/A N/A N/A N/A VG N/A VG N/A N/A N/A N/A - N/A N/A N/A 0.00 ± 0.13 .46 ° N/A N/A N/A N/A N/A	40.60° Stone ID: cushion diamon Width Parameter Girdle Ratio Crown Main Length angle, ° Crown Main Length angle, ° Table Uidthwise, % Table Lengthwise, % Crown height, % Girdle bezel, % Total height, % Star, % Pavilion half, % Table offset Length, % Culet offset Length, % Table allowance before	40.60° 40.50° 40.60° 40.50° 40.60° 40.50° 40.60° 40.50° 40.60° 40.50° 40.60° 40.50° 40.50° 40.60° 40.50° 40.60° 40.50° 40.50° 40.50° 40.50° 40.50° 40.50° 40.50° 40.50° 40.50° 40.50° 40.50° 40.50° 40.50° 40.50° 40.50° 40.00°	Cushion Lenght 1 37.14 38.09 55.56 32.50 14.89 48.17 3.60 14.89 48.17 3.60 N/A EX EX EX	07.05.20 7.233 mm 1 Max 	36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.3	50° HPC t 1.8 Cut EX	
40.60° Stone ID: cushion_dian Parameter Diameter, mm Pav. angle, ° Crown angle, ° Girdle bezel, % Table, % Total height, % Crown height, % Pav. height, % Star, % Pav. half, % G-C off., % Table allowance before Marking for Crown, mm Marking for Pav., mm Total weight, ct	40.60° 40.527 mm 50° 50.95° N/A 00.00 ± 0. 0.00 ± 0. 0.00 ± 0. 0.00 ± 0. 1.87° 80° 55.56° 53.80°	a.60 % 2.28 % 6.66 % 4.89 % 8.17 % 12 (occessing 053 mm nce Line e e	Cushion Min 6.790 32.50 37.14 3.60 60.71 - 14.89 48.17 - N/A G-T off., % paramete N/A N N	07.05.202 Max 8.156 32.50 37.14 3.60 63.84 	1 15:23 Dev 20.11 % 0.00 0.00 0.00 3.14 - 0.00	HPO11+ Cut Sym - N/A N/A N/A N/A N/A VG N/A N/A N/A - N/A - N/A - N/A - N/A N/A N/A - N/A - N/A - N/A N/A N/A N/A - N/A 	40.60° Stone ID: cushion diamono Width Parameter Girdle Ratio Crown Main Width angle, ° Crown Main Length angle, ° Pavilion 1 Main Width angle Pavilion 1 Main Width angle Pavilion 1 Main Length angl Pavilion 2 Main angle, ° Table Ungthwise, % Table Lengthwise, % Crown height, % Girdle bezel, % Total height, % Star, % Pavilion half, % Table offset Length, % Culet offset Length, % Culet offset Length, % Table allowance before Marking for Crown Marking for Pavilion	40.60° 40.790 40.60° 40.60° 40.790 40.71% 40.70% 40.60% 40.70% 40.60% 40.70% 40.60% 40.70% 40.60% 40.70% 40.00%	Cushion Lenght 37.14 38.09 57.90 55.56 32.50 - 14.89 48.17 3.60 - 14.89 48.17 3.60 -	07.05.20 7.233 mm 7.233 mm 7.243 mm 7.243 mm 7.243 mm 7.243 mm 7.243 mm 7.244 mm 7.256 mm 7	36.3 37.3 37.5	50° HPC 1.1.8 EX EX EX EX EX EX EX EX EX EX	

AnyCut

Stone ID: Pear-semipoli	sh-a	Pear	07.05.20	21 15:33	HPO	11+	Stone ID: Pear-semipo	olish-a	Pear	07.05.2	2021 16:32	HP	011+
Parameter	Avg	Min	Max	Dev	Cut	Sym	Width	4.551 mm	Lenght	7.838 mm	Total weight	t 0.	57 ct
Diameter, mm	6.709	4.778	8.601	80.00 %	-	N/A	Cirdle Datio	AVG	Min	мах	Dev	Cut	Sy
Pay, angle, °	34.76	34.44	35.08	0.64	N/A	N/A	Crown angle °	33.82	33.81	33.83	0.02		NZ
Crown angle °	32 55	32 53	32.56	0.03	N/A	N/A	Pavilion angle, °	35.54	35.39	35.68	0.29	N/A	N/
Girdle hezel %	0 304 mm 6 36 %	4 4 5	7.45	3.00	FX	N/A	Table, %	4.284 mm 66.82 %	58.01	75.62	17.61	EX	-
Table %	4 724 mm 69 90 %	62.24	75.44	12.10			Crown height, %	0.631 mm 13.86 %	12.88	15.06	2.18	EX	-
	2.556 mm 52.50.00	02.34	75.44	15.10	N/A	IN/A	Pavilion height, %	1.657 mm 37.01 %	35.95	37.81	1.87	EX	-
iotal neight, %	2.556 mm 53.50 %	-			-	-	Girdle bezel, %	0.249 mm 5.46 %	4.08	6.66	2.58	EX	-
Crown height, %	0.523 mm 10.94 %	9.71	12.03	2.31	-	N/A	Total height, %	2.570 mm 56.47 %	-	-	-	EX	-
Pav. height, %	1.702 mm 36.22 %	35.15	37.02	1.87	-	N/A	Star, %	50.62	-	-	-	-	-
Star, %	51.20	-	-	-	-	N/A	Pavilion half, %	76.32	70.43	79.86	9.43	-	-
Pav. half, %	76.33	70.43	79.87	9.44	N/A	N/A	Table offset Length, %	0.65	EX	Width, %	0.00	-	E
G-C off., %	17.52 ± 0.14	G-T off., %	3.66 ± 0.12	T-C off., %	21.17	± 0.15	Culet offset Length, %	9.72	EX	Width, %	0.30	-	E
	Table Proce	ssing para	meters									EX	E
Table allowance before	0.000 mn	1	incline	0	° 00.			Table Process	sing para	ameters			
	Reference	Line paran	neters				Table allowance before	0.000 mm		incline	0.00) °	
Marking for Crown, mm	C8 before	0.	575	C8 after	0.5	575		Reference Li	ne para	meters			
Marking for Pav., mm	P8 before	0.	799	P8 after	0.7	'99	Marking for Crown	C8 before	0.6	85 mm	C8 after	0.68	35 n
Total weight, ct	0.65				Poor	GD	Marking for Pavilion	P8 before	0.8	59 mm	P8 after	0.85	59 n
34.11°	<u>33.44°</u>		29.35	28.26° P1 W1 W2	29.77°		34.63°	<u>34.32°</u>		33.2	32.96° 4° P1 3 W1 W2	3.31°	
35.08°	W2 W1 H1 H2 34.44°		32.56° 24.	C1 + C S2 S1 38° 21.16° 2	2 32.5	3°	35.68°	W2W1 H1 H2 35.39°		33.83° 33	C1 + C2 S2 + S1 H1 $63^{\circ} 32.22^{\circ} 33$	33.8 60°	81°

Standard Report for Rounded Fancies

The Standard Report was updated for rounded fancies:

- Ratio (L/W) Cut grade is added.
 Table offset length, Table offset width parameters, and their Sym grades are added.
 Culet offset length, Culet offset width parameters, and their Sym grades are added.

Allocation solutions × (Standard Report						
 Plans & Scans 							
	≡ Settings ⊫Print 🕅 Quick Print						
Cutting Price Mass k Yield Jarit JZ Sym-O Gr Cut Sym Profile Br Shadow scan 0.9080 +5.86 Poor Poor Poor Default	Cutting type Spread Extra Facet Girdle / Nat	Pear 0.123 ct, 17.607 9 No	6	Model Scale weight Corrected mi	, ct ass, ct	1 N// 0.57, 0.5	7548
	Cut appraiser	MyAnyCut		Cut grade	Relative	EX	
✔ 1 🔹 🗣 Pear_F 1129\$ 🏮 0.5755 62.78% VS1 H +7.72 EX EX EX Pear_F	Symmetry appraiser	MyAnyCut		Sym grade	Relative	EX	
2 Pear E 572\$ 1 0.6582 71 59% VS1 H +7.62 Poor Poor ER Pear E	Model building into	N/A		Final grade	Relative	EX	
	Parameter	Ανα	Min	Max	Dev	Cut 👝	Svm
	Ratio (L/W)	1.7222		max		EX 1	5,
	Diameter mm		4,5510	7,8379	3,2869	N/A	_
	Crown Curve angle. °	33.819	33,810	33.828	0.018	N/A	N/A
	Crown Head angle. *	32.216	32.216	32.216	0.000		
	Crown Point angle. °	32.959	32.959	32.959	0.000		
	Crown Wing angle, *	33.276	33.243	33.310	0.068		
	Pavilion Head angle. °	35.536	35.393	35.680	0.287		
	Pavilion Wing angle, *	34.472	34.317	34.627	0.310		N/A
	Table Widthwise, %	2.6400 mm 58.011 %				EX	
	Table Lengthwise, %	5.9270 mm 75.620 %					
	Culet, %	0.0000 mm 0.000 %	0.000	0.000	0.000	N/A	N/A
	Girdle Bezel, %	0.2487 mm 5.464 %	4.084	6.664	2.580	EX	N/A
	Girdle Bone, %	0.2563 mm 5.633 %	3.956	9.419	5.463		
	Girdle Valley, %	0.1814 mm 3.986 %	2.443	6.451	4.008	N/A	N/A
	Girdle height Valley local, %	0.713	0.000	1.403	1.403		N/A
	Facet twist, °	1.347	1.346	1.348	0.002		N/A
	Star length, %	50.616	44.331	58.585	14.255		N/A
	Star angle, °	24.183	24.163	24.203	0.040		N/A
	Upper girdle angle. °	40.261	37.693	45.174	7.481		
	Lower girdle angle. *	36.348	30,949	38,785	7.836		
	Crown beight %	0.6309 mm 13.863 %	12 882	15.060	2.177	FX	
	Pavilion height %	1 6845 mm 37 014 %	35.050	37.815	1.865	FX	
	Lower girdle length %	76 315	70.429	70.955	9.428	N/A	
	Total height %	2 5697 mm 56 466 %	70.420	75.033	5.420	FX	
- Dian 1	Table offret %	0.0510 mm 1120 %				-	
Pidil 1	Culet offset %	0.7623 mm 16.751 %					
Diam # * Cut Price Discount PPC Mass Clarity C Grade	Table culet offeet %	0.8133 mm 17.871 %					N/A
	Culat offset length wise %	15 229					
V Ulam 1 Pear_F 1129\$ <u>+U%</u> 1980.00\$/ct 0.5755ct VS1 H EX	Culet offset width wise %	0.293					
	Table offset length %	0.295	-		-	-	FX
	Table offset width %	0.003					FX
	Culet offset length %	9.725				-	FX
	Culet offset width %	0.300					FX
	Conce on see mount, is	0.000	-				-

Facet Types - Octonus Cuts Library

Currently, the system includes over 50 cuts you can use as samples to get facet types from. Now the OctoNus Cuts Library button is added to quickly access them:

- Click Facet Types. The Facet Types dialog is displayed.
 In the Facet Types dialog, click From Sample...
- 3. In this was not done before, click OctoNus Cuts Library

Samples from the library folder are added to the list.

Facet Types	1	×
al\OctoNus Software\HP Carbon 1.2.75\Defaults\FacetMarking	Browse	
Baguette.dmc	OctoNus Cuttings Library	
Brilliant.dmc		
Cushion.P24C32B.dmc		
Cushion.P28C32B.dmc		
Cushion.P32C32B.dmc		
Cushion.P36C32.dmc		
Cushion_PM4_PG16_PH24_C32.dmc		
Cushion_PM4_PG4_PH16_C32.dmc		
Cushion_PM4_PG8_PH16_C32_Flat.dmc		
Cushion_PM4_PG8_PH16_C32_Strong.dmc		
Cushion_PM4_PG8_PH16_Pbrill_C32.dmc		
Cushion_PM4_PG8_PH24_C32.dmc		
Cushion_PM4_PG8_PH24_Pbrill_C32.dmc		
Lushion_PM8_PG4_PH16_C32.dmc		
merald.dmc		
merald.P32C24.dmc		
landers.dmc		
lappy8.dmc		
leart.dmc		
larquise.dmc		
Marquise_WBT.P24C32.dmc		
MoonMarquise.P34C32.dmc		
MaanMarauira D26C22 dme	¥	
Disca	ard Apply	

4. If you want to access the library folder, click Browse.

G1 Galahad - Allowance Editing

For the G1 Galahad mode, it is now possible to edit the Allowance defined during stage generation. The Allowance can be edited both for stages and for separate steps.

To edit allowance for a step:

- Right-click the step.
 From the context menu select Edit Step. The edit panel is displayed.
 In the edit panel, set the new Depth.
 Click Apply. The new allowance depth is set for the step.



If you have a modified allowance for the step, you can Discard this difference and revert this step to the stage standard value.

 Edit Step Allowance) "2. #12"		
<u>S</u> lope:		0.00°	* *
Depth:		4.7µm	*
	Discard	Cancel	Apply

Allowance can also be edited for the stage. Note that if some steps of the stage have their own changed allowance, applying a new value for the stage will reset all steps, the corresponding warning is displayed:

	ain" ×
☆	ain"
# Cutting Drice Mass Io Viold "brith 77 m Allower Co	
Imported model	
Compass/GPS Actual cut	0.00
7 • Brilliant 6660\$ • 1,0036 98.11% VS1 H	10.0µm 🗘
Generate next faceting stage	vn parameters. epsl
Draw Faceting Sections	
Stage/Step Out progress	Cancel Apply
▼ 1. Table	
⊕ 1. #0	
▼ 2. Crown Main	
1. #15 dppend Stage	
2. #14 Delete Stage	
3. #13 V Finish Stage	
4. #12	
5. #11	
6. #10	
7. #9	
8. #16	
Target slope $37.39 = 36.90 + 0.49^{\circ}$ Target azimuth -178.51 = -179.35 + 0.85^{\circ} Target depth remaining $37.0 \mu m$ Distance to reference line $75.1 \mu m$	

Ximea Firmware Automatic Update

Ximea MC023MG-SY-UB cameras firmware update is now included in the HP Carbon installation procedure - on the system installation, the firmware will be updated automatically.

After the firmware update, the camera will not work with the old software - to work with this old software, the camera firmware downgrade will be required. Refer to your HP Carbon distributor for help with this downgrade.

Fixed Problems and Improvements

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

- The periodic low scanning speed caused by the sync cable detection problem is fixed.
- Facet types transfer to Smart Normalize solutions was broken now it is fixed.
- For Smart Recut, the Fix Girdle option is improved to work with non-convex models.
- For Scan mode, in the Cut & Method section, now the last used cut stays selected after the system restart (previously "Brilliant" was always selected after restart).
- Previously, in **Polish Report**, the cut type was based only on parameter values now it additionally takes into account the *Facet Types* specified for the model.
 Standard and Polish Illustrated HTML reports when working with composite appraisers (CushionRectangular, CushionSquare, MyAnyCut) now show grades only for the selected component: "Absolute", "Relative" or both of them.

Absolute+Relative				-							
Cutting type		Square Cu	shion		Model					20	
Spread		-1.09 ct, -2	8.79 %		Scale w	eight, ct				N/A	
Extra Facet Girdle / Nat		No			Correcte	ed mass, c	t		4.8	37, 4.873	8
Cut annula in		Curbine			C			110	Relative		VG
Cut appraiser		CusnionSi	quare		Cut gra	ae		VG	Absolute		EX
Commentary annualized		CushianC			C			EV	Relative		EX
symmetry appraiser		Cushionsi	quare		Sym gra	ade		EX	Absolute		EX
Model building info		NI/A			Final or	ada		NC	Relative		VG
Woder building into		N/A			Final gr	due		VG	Absolute		EX
Parameter	Av	g	Min	Max	Dev	1	2	3	4	Cut	Sym
Pavilion 2 Main height, %	2.681 mm	28.61 %	28.61	28.61	0.00	28.61	28.61	28.61	28.61		
Table: Side, %	5.784 mm	61.10 %	60.72	61.48	0.76	60.72	61.48			VG ┥	- fina
Table: Corner w.r.t. Corner, %	63.	51	63.51	63.51	0.00	63.51	63.51				

bsolute				•							
Cutting type		Square Cu	ishion		Model					20	
Spread		-1.09 ct, -2	8.79 %		Scale w	eight, ct				N/A	
Extra Facet Girdle / Nat		No			Correcte	ed mass, o	t		4.	87, 4.8738	
Cut appraiser		CushionSe	quare		Cut gra	de		Absolute		EX	
Symmetry appraiser		CushionSe	quare		Sym gra	ade		Absolute		EX	
Model building info		N/A			Final gr	ade		Absolute		EX	
Parameter	Av	g	Min	Max	Dev	1	2	3	4	Cut	Sy
Pavilion 2 Main height, %	2.681 mm	28.61 %	28.61	28.61	0.00	28.61	28.61	28.61	28.61		
Table: Side, %	5.784 mm	61.10 %	60.72	61.48	0.76	60.72	61.48			EX 🔶	ab
· · · · · · · · · · · · · · · · · · ·											-
Table: Corner w.r.t. Corner, %	63.	51	63.51	63.51	0.00	63.51	63.51	-	-	-	
Table: Corner w.r.t. Corner, %	63.5	51	63.51	•	0.00	63.51	63.51	-	-		-
Table: Corner w.r.t. Corner, %	63.	51 Square Cu	63.51	•	0.00 Model	63.51	63.51		-	20	
Table: Corner w.r.t. Corner, %	63.	51 Square Cu -1.09 ct, -2	63.51 Ishion 8.79 %	•	0.00 Model Scale w	eight, ct	63.51			20 N/A	
Table: Corner w.r.t. Corner, % elative Cutting type Spread Extra Facet Girdle / Nat	63.:	51 Square Cu -1.09 ct, -2 No	63.51 Ishion 8.79 %	•	0.00 Model Scale w Correcte	eight, ct ed mass, c	63.51		- 4.	20 N/A 87, 4.8738	
Table: Corner w.r.t. Corner, % elative Cutting type Spread Extra Facet Girdle / Nat Cut appraiser	63.	Square Cu -1.09 ct, -2 No CushionSo	63.51 Ishion 8.79 % quare	•	0.00 Model Scale w Correcte Cut grad	eight, ct ed mass, c de	63.51 t	Relative	- 4,	20 N/A 87, 4.8738 VG	-
Table: Corner w.r.t. Corner, % elative Cutting type Spread Extra Facet Girdle / Nat Cut appraiser Symmetry appraiser	63.	Square Cu -1.09 ct, -2 No CushionSo CushionSo	63.51 Ishion 8.79 % quare quare	•	0.00 Model Scale w Correcto Cut grad Sym grad	eight, ct ed mass, c de ade	63.51	Relative Relative	- 4,	20 N/A 87, 4.8738 VG EX	-
Table: Corner w.r.t. Corner, % elative Cutting type Spread Extra Facet Girdle / Nat Cut appraiser Symmetry appraiser Model building info	63.	Square Cu -1.09 ct, -2: No CushionSi CushionSi N/A	63.51 Ishion 8.79 % quare quare	63.51 •	0.00 Model Scale w Correct Cut gra Sym gra Final gr	eight, ct ed mass, c de ade ade	63.51	Relative Relative Relative	- 4,	20 N/A 87, 4.8738 VG EX VG	
Table: Corner w.r.t. Corner, % elative Cutting type Spread Extra Facet Girdle / Nat Cut appraiser Symmetry appraiser Model building info Parameter	63.:	Square Cu -1.09 ct, -2 No CushionSi N/A 9	63.51 Ishion 8.79 % quare quare Min	63.51	0.00 Model Scale w Correcte Cut grav Sym grav Final gr Dev	eight, ct ed mass, c de ade ade	63.51 tt	Relative Relative Relative 3	4.	20 N/A 87, 4.8738 VG EX VG Cut	Sy
Table: Corner w.r.t. Corner, % elative Cutting type Spread Extra Facet Girdle / Nat Cut appraiser Symmetry appraiser Model building info Parameter Pavilion 2 Main height, %	63.:	Square Cu -1.09 ct, -2 No CushionSi N/A g 28.61 %	63.51 Ishion 8.79 % quare quare Min 28.61	63.51	0.00 Model Scale w Correcto Cut gra- Sym gra Final gr Dev 0.00	eight, ct ed mass, c de ade ade 28.61	e3.51 tt	Relative Relative Relative 3 28.61	4. 4. 28.61	20 N/A 87, 4.8738 VG EX VG Cut	Sy
Table: Corner w.r.t. Corner, % elative Cutting type Spread Extra Facet Girdle / Nat Cut appraiser Symmetry appraiser Model building info Parameter Pavilion 2 Main height, % Table: Side, %	63.: Av. 2.681 mm 5.784 mm	51 Square Cu -1.09 ct, -2 No CushionSi N/A 9 28.61 % 61.10 %	63.51 Ishion 8.79 % quare quare 28.61 60.72	63.51	0.00 Model Scale w Correct Cut gra- Sym gra Final gr Dev 0.00 0.76	eight, ct ed mass, o de ade ade 28.61 60.72	e3.51 tt 28.61 61.48	Relative Relative Relative 3 28.61	4, 4, 28.61	20 N/A 87, 4.8738 VG EX VG Cut VG	Sy

Appraiser profiles "Show difference from" function did not work - now it is fixed.
The Smart Normalize and Smart Normalize Lite algorithms are improved to work better with short edges in the culet area.
For the "GIA Facetware + MyRound" appraiser, the StarLength EX boundaries were updated to [42,5 - 57,5] for the following profiles:

"MyRound_ModernCut_2021-04-29"
"MyRound_ModernCut_2021-04-29_SweetLine"

Incorrect estimation for Pear cut caused by the Cullet offset length parameter wrong grade is fixed.