

19. SmartRecut (Brilliant, Oval, AnyCut)



This functionality is currently available only:

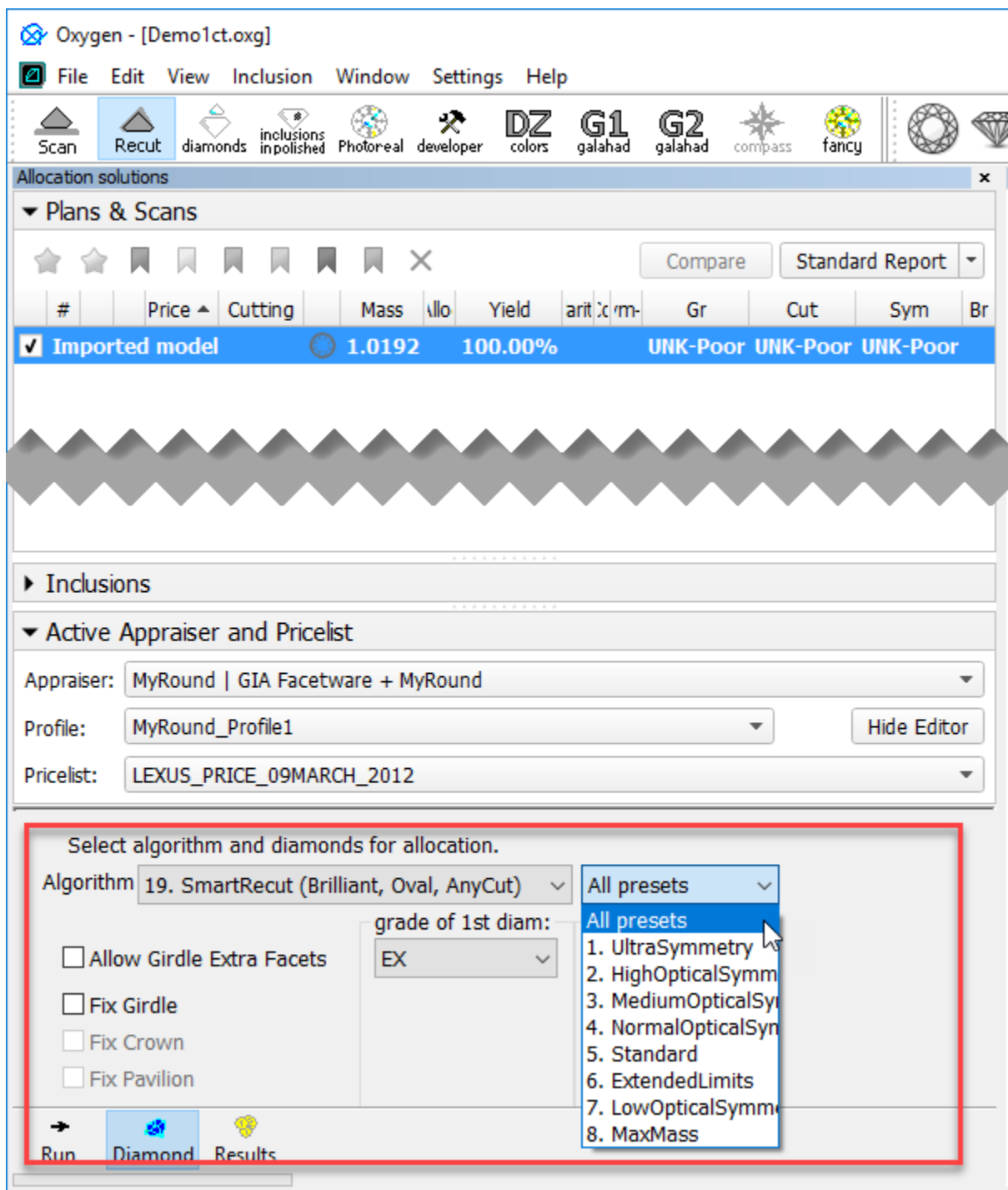
- under "Developer" HASP key
- under special key which includes [In-house cut workflow](#) feature

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Overview

The "SmartRecut (Brilliant, Oval, AnyCut)" algorithm is used for [additional optimization](#) (after Recut) of the diamond cuttings, providing optimization both for Brilliant and Oval cuttings and for any other cuttings.



Custom Facet Marking

As when running the "SmartRecut (Brilliant, Oval, AnyCut)" algorithm for cuttings different from Brilliant and Oval, it is necessary to have a Custom Facet Marking, it is important for the user to have this marking selected. Now if the Custom Facet Marking is not defined, the system will display a warning:

[blocked URL](#)

For solutions on standard cuttings, the facet marking is applied immediately after solution creation, even if you do not click the **Custom Report** button and instead of the Polish Report method, the system uses the sample markings specified for each standard cutting. In accordance with the **Cutting** parameter of the solution, the facet marking from the corresponding sample is automatically transferred to your solution and saved for it.

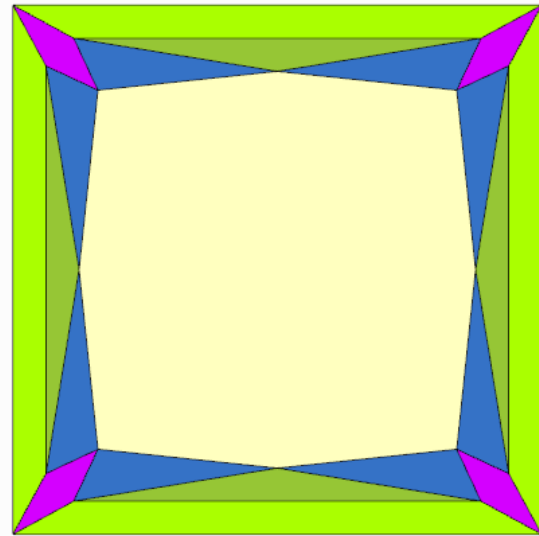
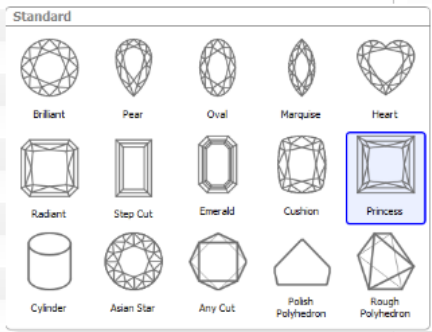


This means, that for solutions with standard cutting, you do **not need to upload a custom marking from a sample every** time.



Still, it is recommended to check, if the automatically applied marking is accurate by accessing the **Facet Marking** dialog (available on clicking the **Custom Report** button).

| Facets | Element | Tier | Type | SubType | No. | Color | Alias |
|--------|----------|------|--------|---------|-----|-------|-----------|
| x 1 | Table | | | | | | Rename... |
| x 4 | Crown | | Corner | | | | Rename... |
| x 4 | Crown | 1 | Main | | | | Rename... |
| x 4 | Crown | 2 | Main | | | | Rename... |
| x 8 | Crown | 2 | Half | | | | Rename... |
| x 4 | Girdle | | | | | | Rename... |
| x 4 | Pavilion | | Main | | | | Rename... |
| x 4 | Pavilion | | Corner | | | | Rename... |
| x 8 | Pavilion | 1 | Half | | | | Rename... |
| x 8 | Pavilion | 2 | Half | | | | Rename... |



No Generic Facets (Total: 49 facets)

Sort

New Group

Interaction with AnyCut Relative Appraiser

The "SmartRecut (Brilliant, Oval, AnyCut)" algorithm is now able to interact with the new AnyCut relative appraiser: all the parameters of the AnyCut relative appraiser are supported by the algorithm, that is the algorithm allocates solutions taking into account the requested **grade of 1st diam** and **symmetry** grades and grade boundaries defined by the relative appraiser.



Currently the interaction between the SmartRecut algorithm and the Relative appraiser is under development, which means in some cases the algorithm may produce parameters outside the appraiser boundaries, specifically for the **Symmetry** tab.

Oxygen - [Demo1ct.oxg]

File Edit View Inclusion Window Settings Help

Scan Recut diamonds inclusions polished Photoreal developer DZ G1 G2 galahad compass fancy

Allocation solutions

Plans & Scans

Compare Standard Report

Price Cutting Mass Vlo Yield arit.c.m. Gr Cut Sym Br

Imported model 1.0192 100.00% UNK-Poor UNK-Poor UNK-Poor

Scan Info

Imported model Cutting: -- Model Mass: 1.0192 ct
Price: -- Clarity: --
Discount: -- DZ Color: --
PPC: -- Grade: --

Inclusions

Active Appraiser and Pricelist

Appraiser: TestRelativeAscii | MyRelativeAscii
Profile: MyRelativeAscii_1 Hide Editor
Pricelist: LEXUS_PRICE_09MARCH_2012

Select algorithm and diamonds for allocation.

Algorithm 19. SmartRecut (Brilliant, Oval, AnyCut) grade of 1st diam: EX

Allow Girdle Extra Facets
Fix Girdle

All presets
1. AllNarrowed
2. AnglesNarrowed
3. GirdleNarrowed
4. VerticesNarrowed
5. VerticesWidened
6. GirdleWidened
7. AnglesWidened
8. AllWidened

Run Diamond Results

Appraiser Editor

MyRelativeAscii

Profile: MyRelativeAscii_1 Presets Hide Presets

Cut Symmetry Other

| Parameter | AllNarrowed | AnglesNarrowed | GirdleNarrowed | VerticesNarrowed | VerticesWidened | GirdleWidened | AnglesWidened | AllWidened |
|---|-------------|----------------|----------------|------------------|-----------------|---------------|---------------|------------|
| GirdleRatio | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Table | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| CrownHeight | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| GirdleBezel | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| PavilionHeight | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| TotalHeight | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| GirdleShape1stDerEveryToleranceModule | - | 5 | - | 15 | - | 5 | - | 15 |
| GirdleShape2ndDerEveryToleranceModule | - | 5 | - | 15 | - | 5 | - | 15 |
| CustomFacetsSlopesAverageTolerance | -1 | 1 | -1 | 1 | -2 | 2 | -2 | 2 |
| OtherHeightsEveryTolerance | -1 | 1 | -2 | 2 | -2 | 2 | -1 | 1 |
| CuletMMSizesEveryIdeality | - | 0,03 | - | 0,03 | - | 0,03 | - | 0,03 |
| Other2DEdgesLengthsEveryToleranceModule | - | 0,5 | - | 1 | - | 1 | - | 0,5 |

Import... Highlight diff Import Export Set To Defaults Discard Apply Discard Apply

Example of the interaction of the "SmartRecut (Brilliant, Oval, AnyCut)" algorithm and AnyCut relative appraiser is presented on the [AnyCut Relative Appraiser](#) page.

Related Pages

- [MyAnyCut](#)
- [In-house cut workflow](#)
- [In-house cut registration](#)
- [19. SmartRecut \(Brilliant, Oval, AnyCut\)](#)