

Using Girdle Extra Facets

The **Allow Girdle Extra Facets** option of the "SmartRecut (Brilliant, Oval)" algorithm allows enlarging the mass of the solutions by producing the extra facets if possible.

Detailed information about GirdleCrownExtraFacets and GirdlePavilionExtraFacets parameters affecting how the **Allow Girdle Extra Facets** option works, is presented on the [Girdle Extra Facets](#) page.

On this page:

- 1 Latest Changes and Upgrades
 - 1.1 From version 1.0.2 - Mechanism Improvement
 - 1.2 From HP Oxygen version 4.8.20 - Improved Functioning for Larger Mass for VG Grades

Latest Changes and Upgrades




From version 1.0.2 - Mechanism Improvement

The mechanism of how the girdle extra facets are created is improved. The change is how the position of the extra facet is defined. The improved extra facet positioning function allows getting solutions with the larger mass.

Sample Project

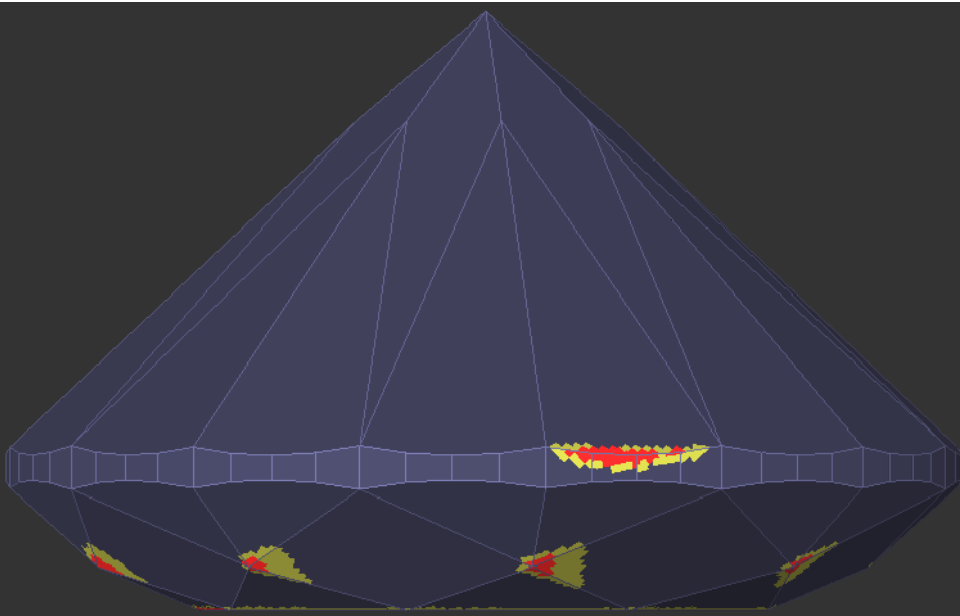
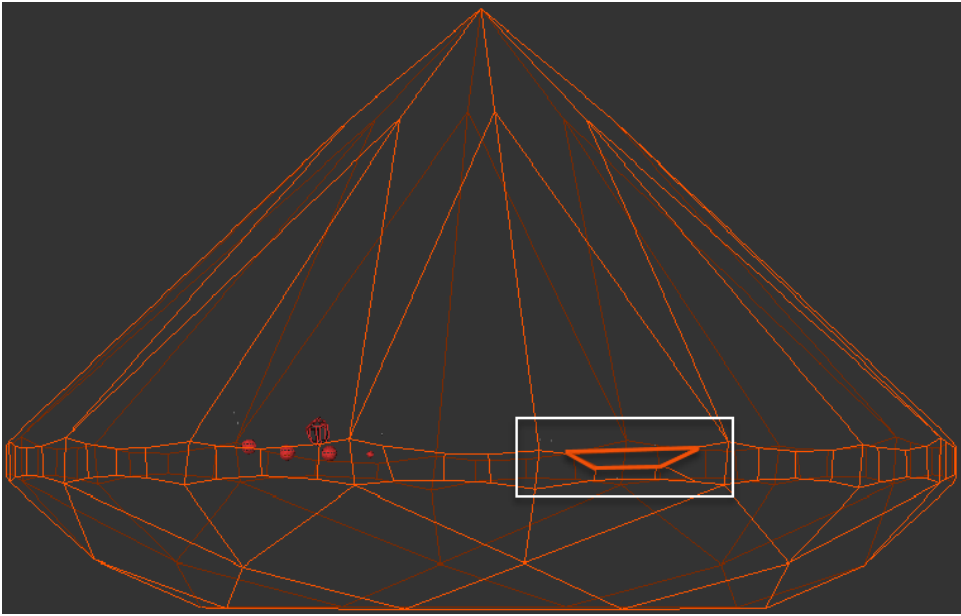
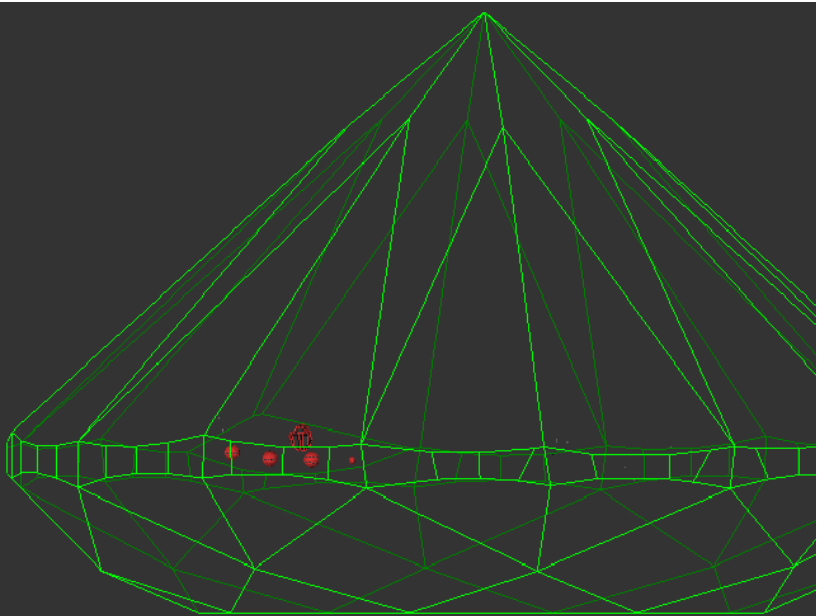
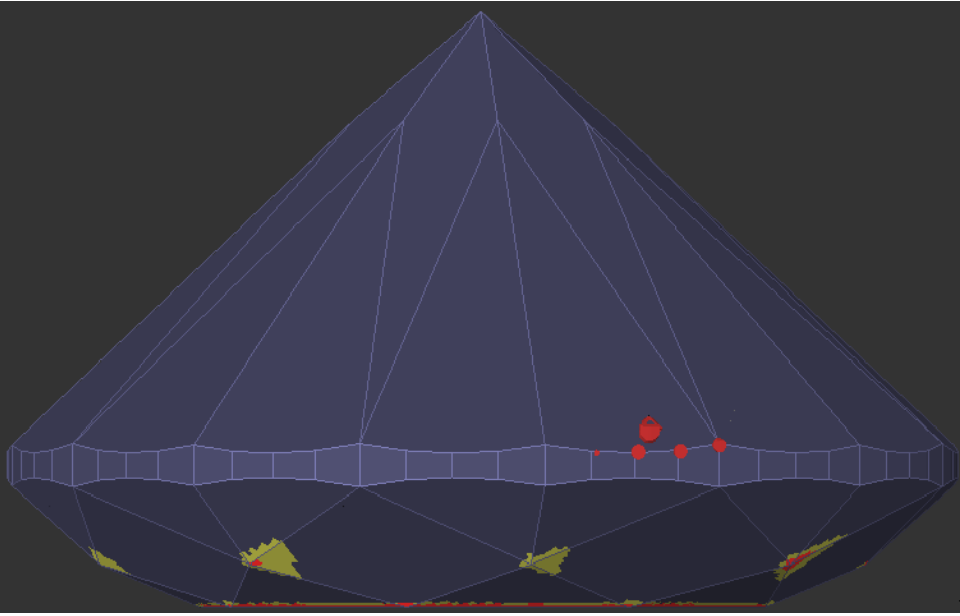
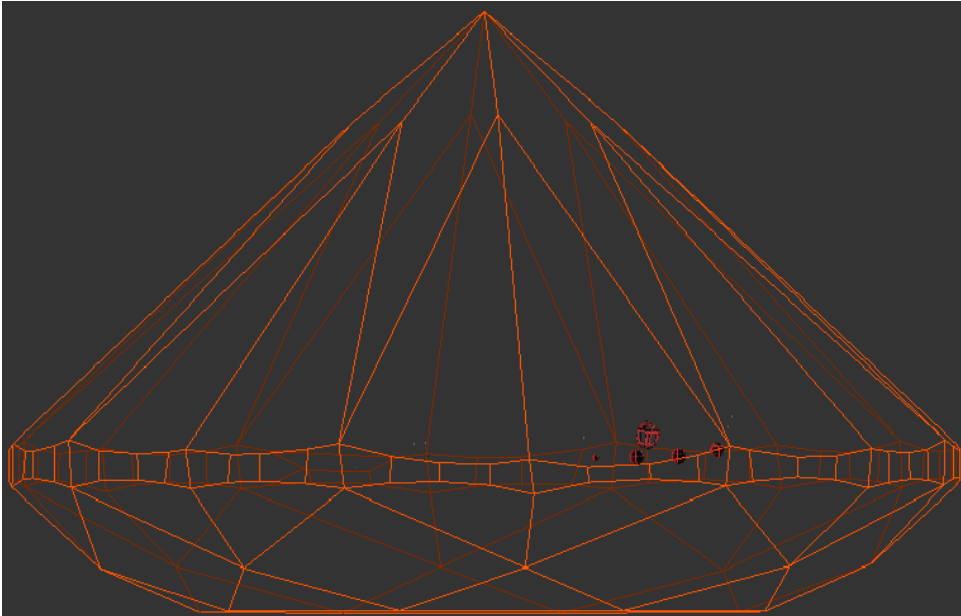
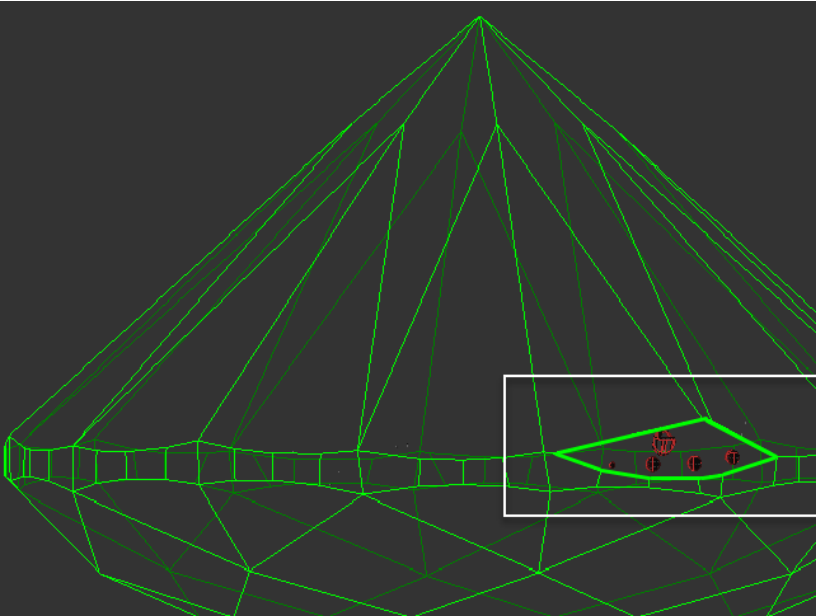
Project: ef_101ct_test.ox2z, profile profile_test.txt.

Note Within the project:

- Gold Star  - represents solution obtained manually
- No Flag - initial Recut solution
- Red Flag  - solution obtained by Smart Recut with an old Extra Facet mechanism
- Green Flag  - solution obtained by Smart Recut with a new Extra Facet mechanism

Plans & Scans											
<div> ☆ ☆ 🔖 🔖 🔖 🔖 ✕ ⚖ 🔍 Compare Standard Report </div>											
#	Cutting	Price	Mass	Alloc	Profile	Yield	2Z	rm	Gr	Sym	Br
<input checked="" type="checkbox"/>	Shadow scan		1.0809		test				UN...	UN...	
<input type="checkbox"/> 189	★ _User_Diamon...	2101\$	1.0101			93.44% H					
<input type="checkbox"/> 190	Brilliant	5011\$	0.9623		test	88.81% H			EX	EX	
<input type="checkbox"/> 266	🔖 Brilliant	6390\$	1.0057		SR test	92.51% H			EX	EX	
<input type="checkbox"/> 267	🟢 Brilliant	3070\$	1.0110		SR test	93.44% H			EX-Poor	EX-Poor	

	Recut	Old Mechanism	New Mechanism
Mas s, ct	0.9623	1.0057	1.0110

Front Side		 The old mechanism produces the extra facet of the lower size on the front side.	 No extra facet here. The better extra facet is created on the back side.
	 The general limitation for number of extra facets will be 1.	 In this example, an old mechanism does not see any potential for the extra facet creation on the back side.	 Extra facet providing more mass increase is created on the back side.

From HP Oxygen version 4.8.20 - Improved Functioning for Larger Mass for VG Grades

In HP Oxygen (predecessor of HP Carbon) version 4.8.20 the extra facet option functioning has been improved. The description of the improvement, as well as the general description of the option usage, is presented in the video:

Video Smart Recut Algorithm - Improved Usage of Extra Facets				
Published:		Last Updated:	2019, April 8	v.2.5
Your browser does not support the HTML5 video element				
Video summary: <ul style="list-style-type: none">The Allow Girdle Extra Facets option of "13. SmartRecut (Brilliant, Oval)" algorithmBefore version 4.8.20: sometimes for the rough stones extra facets were not created in spite of the Allow Girdle Extra Facets option selectedStarting from version 4.8.20: if the creation of girdle extra facets is possible and the Allow Girdle Extra Facets option is selected, they will be always createdResult: we obtain the maximum mass caused by using the girdle extra facetsAn appraiser controls limitations for the quantity of allowed girdle extra facets by the GirdleCrownExtraFacets and GirdlePavilionExtraFacets parameters				
Video keywords: girdle extra facets, smart recut, allow girdle extra facets, rough stones, GirdleCrownExtraFacets, GirdlePavilionExtraFacets				
Published in:	Release Notes	2018.12.25 - HPOxygen Server 4.8.20		

	Documentation	NA
	Playlists	All Videos
	Also	As Separate Page Specification