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:

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

# ▾	Cutting	Price	Mass	Alloc	Profile	Yield	DZ/rm-	Gr	Sym	Br
✔ Shadow scan			1.0809	○	test			UN...	UN...	
189 ⭐	_User_Diamon...	2101$	1.0101	●		93.44%	H			
190	Brilliant	5011$	0.9623	●	test	88.81%	H	EX	EX	
266 🚩	Brilliant	6390$	1.0057	●	SR test	92.51%	H	EX	EX	
267 🚩	Brilliant	3070$	1.0110	●	SR test	93.44%	H	EX-Poor	EX-Poor	

	Recut	Old Mechanism
Mass, ct	0.9623	1.0057

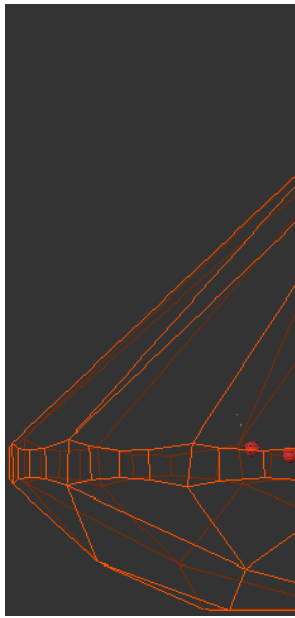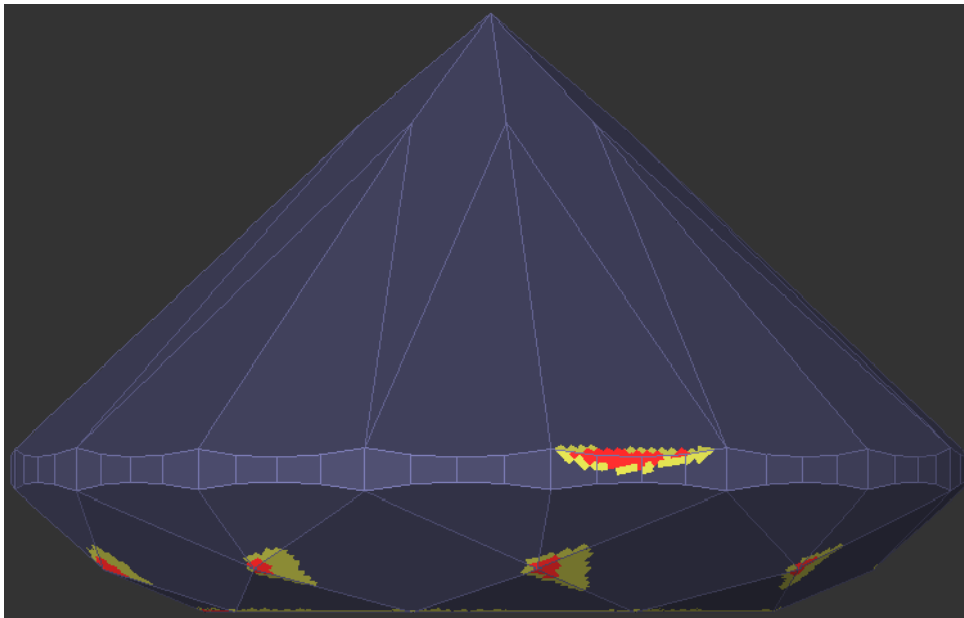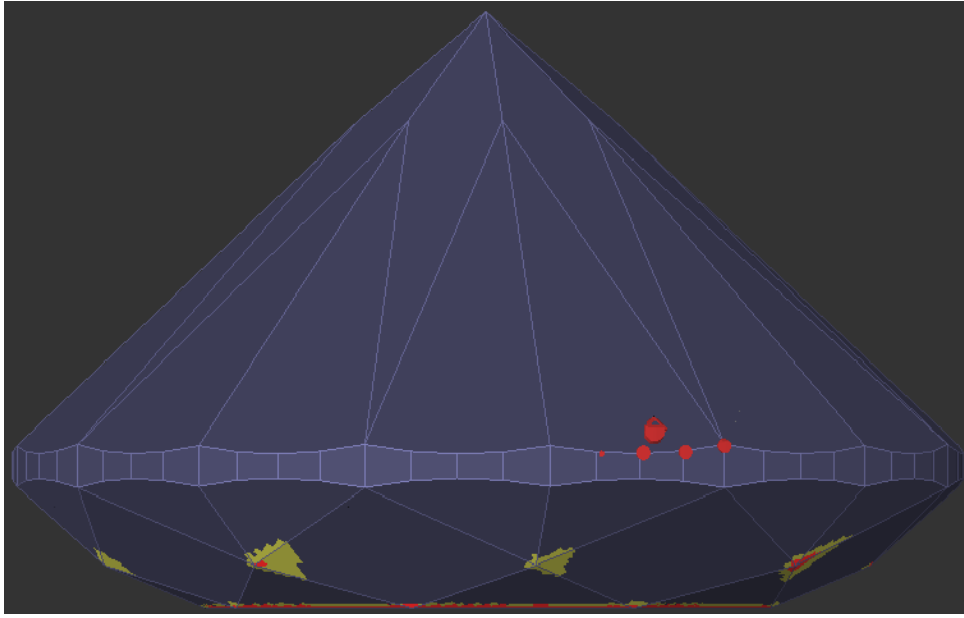|		
Fron t Side		 old mechanism produces the extra fa
Bac k Side	The general limitation for number of extra facets will be 1.	 In this example, an old mechanism d

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:

- The Allow Girdle Extra Facets option of "13. SmartRecut (Brilliant, Oval)" algorithm
- Before version 4.8.20: sometimes for the rough stones extra facets were not created in spite of the Allow Girdle Extra Facets option selected
- Starting 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 created
- Result: we obtain the maximum mass caused by using the girdle extra facets
- An 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