

# Using Girdle Shape Parameters

## On this page:

- 1 [Overview](#)
- 2 [Parameter Usage](#)
- 3 [Example](#)

## Overview

The following parameters are related to controlling a girdle shape when working with SmartRecut:

- GirdleShape1stDerEveryToleranceModule
- GirdleShape2ndDerEveryToleranceModule

The description of these parameters, information about their calculation and presence in appraisers and reports is presented on the [Girdle Shape Tolerance](#) page.

## Parameter Usage

As both girdle shape tolerance parameters limit the difference between girdle shape in the Recut and corresponding SmartRecut solutions, you can use them to additionally limit this difference, which means you may obtain SR solutions that are more alike to the Recut original solution in the sphere of the girdle shape. The lower value you set for the GirdleShape1stDerEveryToleranceModule and GirdleShape2ndDerEveryToleranceModule parameters, the more similarity of girdle shapes of Recut and SmartRecut solutions you obtain.



Note that decreasing parameters values:

- increases the similarity of girdle shapes of Recut and SmartRecut solutions but
- may have a decrease of mass as a back effect.

Setting new parameter values for both parameters is done via editing the **presets**. The default values for all presets are presented in the figure:

The screenshot shows the 'Appraiser Editor' window with the 'Presets' tab selected. The table below represents the data visible in the interface.

Parameter	Grade	. AllNarrowe	nglesNarrow	girdleNarrow	rticesNarrow	rticesWide	GirdleWiden	nglesWiden	. AllWiden
GirdleShape1stDerEveryToleranceModule		-	5	-	10	-	10	-	20
GirdleShape2ndDerEveryToleranceModule		-	5	-	10	-	10	-	20

## Example

In this example project ([GS Parameters Example 5-10-20-30 \(v.3\).oxgz](#)) the following SmartRecut solutions were obtained by changing the GirdleShape1stDerEveryToleranceModule and GirdleShape2ndDerEveryToleranceModule values.

HPO version = 5.4.5

**Appraiser** = MyAnyCutOpt | MyAnyCutRelative


























































**Profile** = Default

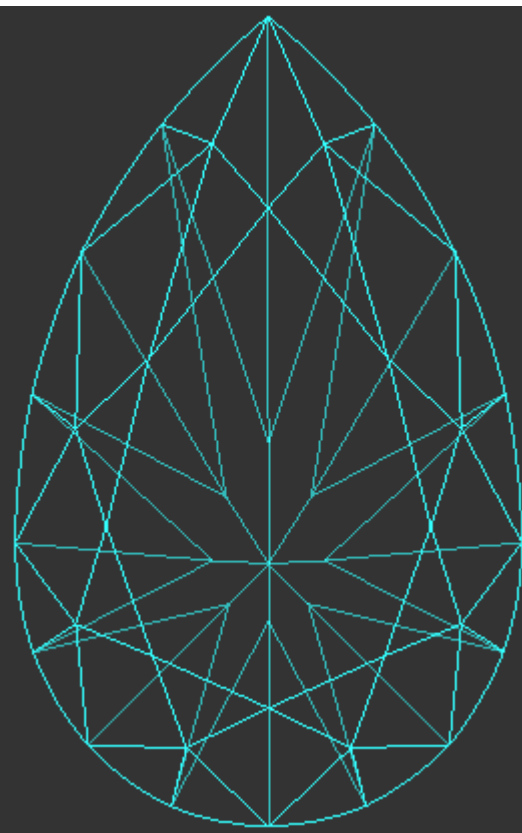
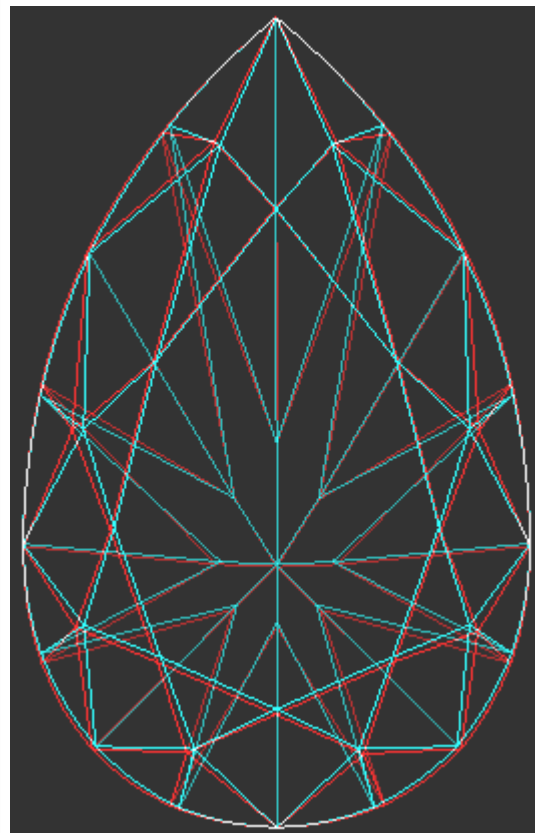
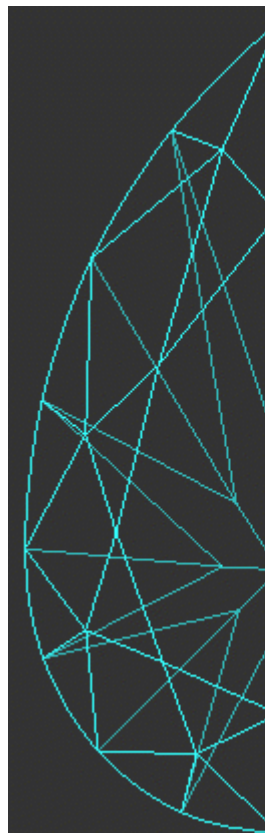
**GirdleRatio** [Ex Ex] = [-0,01 0,01]

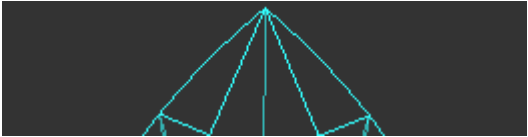
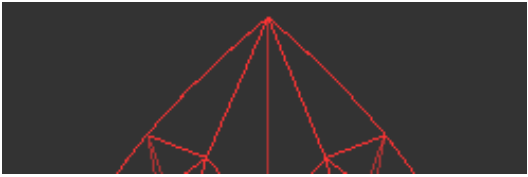
**Cutting** (Client Cuttings) = PearSimple ([PearSimple.zip](#))

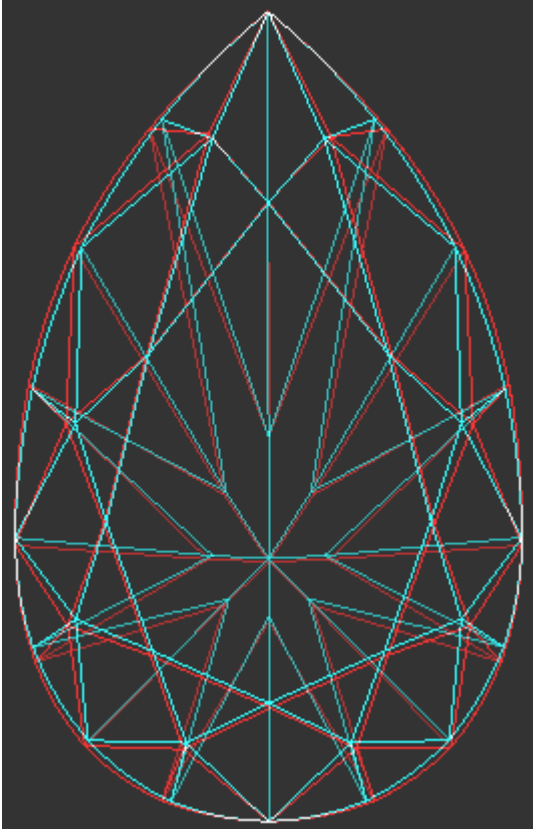
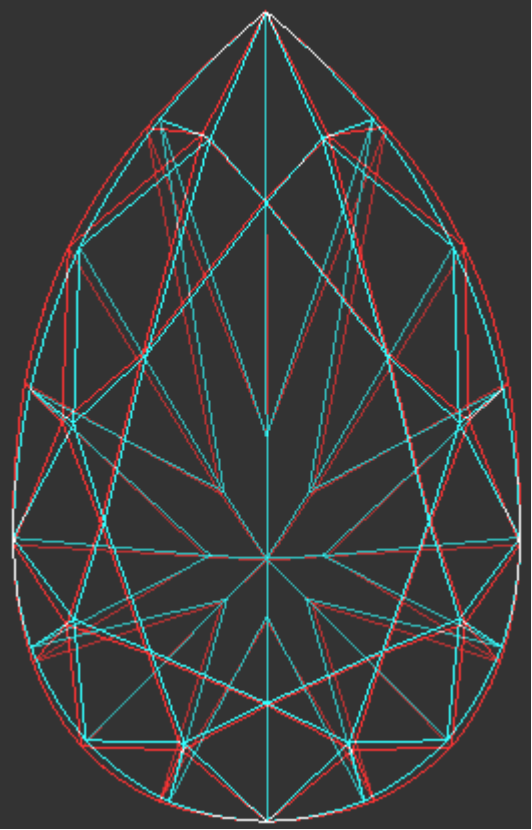
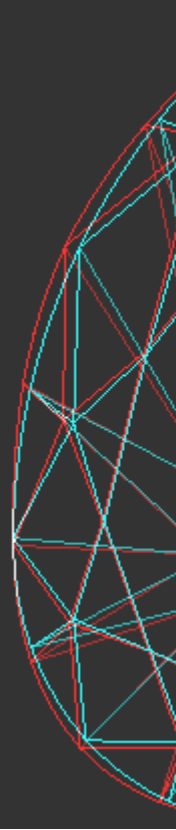
All solutions produced from:

Recut solution (#1) with **Algorithm** = "SmartRecut (Brilliant, Oval, AnyCut)" and **Preset** = [AnyCut\\_avg\\_preset.ini](#)

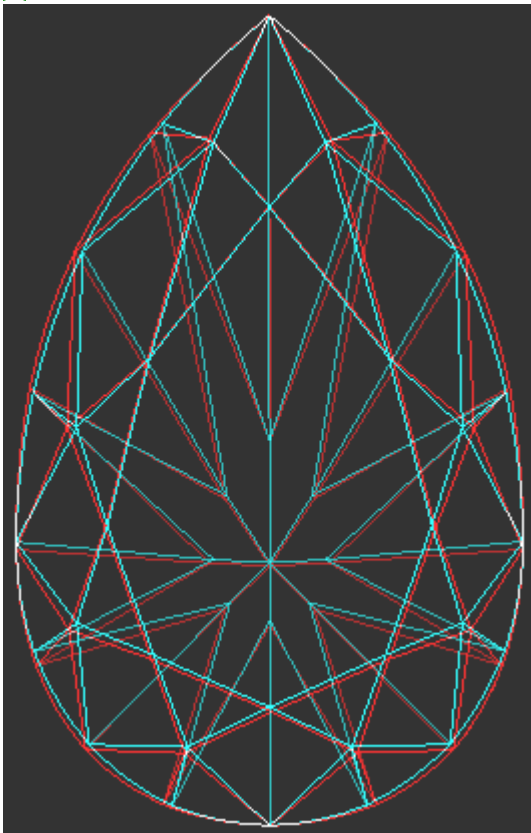
Solution #	GirdleShape1stDerEveryToleranceModule	GirdleShape2ndDerEveryToleranceModule	
2	5	5	<div>▼ Plans &amp; Scans</div> <div></div> <div></div> <div><input type="checkbox"/> Imported model <input type="checkbox"/> 3.6245</div> <div><input checked="" type="checkbox"/> 1  PearSimple 2933\$  1.0000</div> <div><input type="checkbox"/> 2  PearSimple 3109\$  1.0661</div> <div><input type="checkbox"/> 3  PearSimple 3139\$  1.0712</div> <div><input type="checkbox"/> 4  PearSimple 3139\$  1.0764</div> <div><input type="checkbox"/> 5  PearSimple 3139\$  1.0768</div> <div><input type="checkbox"/> 6  PearSimple 3109\$  1.0662</div> <div><input type="checkbox"/> 7  PearSimple 3139\$  1.0716</div> <div><input type="checkbox"/> 8  PearSimple 3168\$  1.0789</div> <div><input type="checkbox"/> 9  PearSimple 3168\$  1.0820</div> <div><input type="checkbox"/> 10  PearSimple 3109\$  1.0662</div> <div><input type="checkbox"/> 11  PearSimple 3139\$  1.0716</div> <div><input type="checkbox"/> 12  PearSimple 3168\$  1.0793</div> <div><input type="checkbox"/> 13  PearSimple 3168\$  1.0835</div> <div><input type="checkbox"/> 14  PearSimple 3109\$  1.0662</div> <div><input type="checkbox"/> 15  PearSimple 3139\$  1.0716</div> <div><input type="checkbox"/> 16  PearSimple 3168\$  1.0793</div> <div><input type="checkbox"/> 17  PearSimple 3168\$  1.0838</div> <div><input type="checkbox"/> 18  PearSimple 3080\$  1.0582</div>
3	10	5	
4	20	5	
5	30	5	
6	5	10	
7	10	10	
8	20	10	
9	30	10	
10	5	20	
11	10	20	
12	20	20	
13	30	20	
14	5	30	
15	10	30	
16	20	30	
17	30	30	
18	0	0	

Recut	Solution #18 (GS1 = 0, GS2 = 0)	Animation for Rec
 <p>A diagram of a recut diamond showing its internal facets. The facets are represented by a network of cyan lines forming a complex, symmetrical pattern within an oval shape. The lines connect various points on the perimeter and radiate from a central point.</p>	 <p>A diagram of a diamond cut labeled 'Solution #18 (GS1 = 0, GS2 = 0)'. It shows a network of cyan lines for the facets, with additional red lines overlaid, possibly indicating a different facet arrangement or a comparison with the recut design. The overall shape is an oval.</p>	 <p>A partial view of a diamond diagram, showing the right side of a complex facet network. The lines are cyan and form a symmetrical pattern within an oval shape.</p>
1.0000 Ct	1.0582 Ct	GS

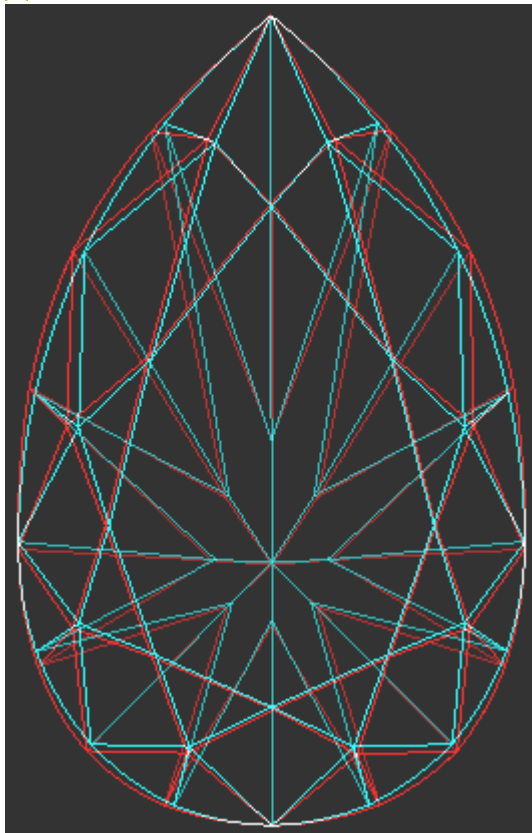
Legend	
Recut	
SmartRecut	

		GirdleShape1stDerEveryToleranceModule		
		5	10	
GirdleShape2ndDerEveryToleranceModule	5			
		1.0661 Ct	1.0712 Ct	

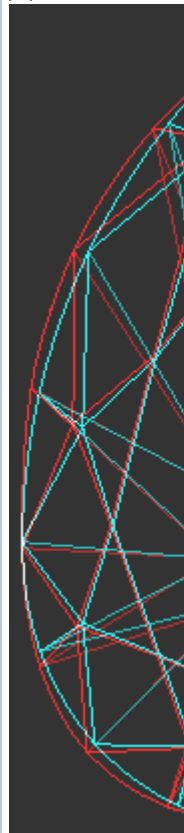
10



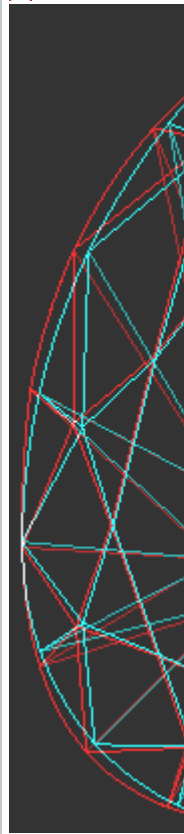
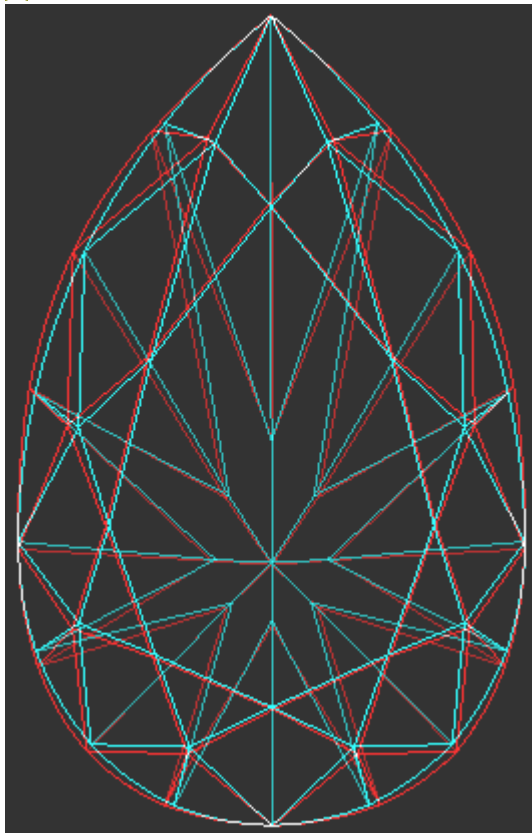
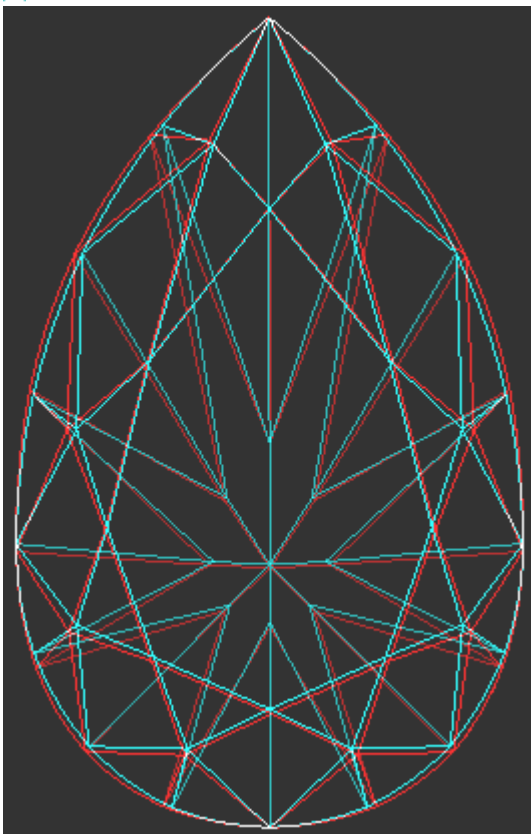
1.0662 Ct



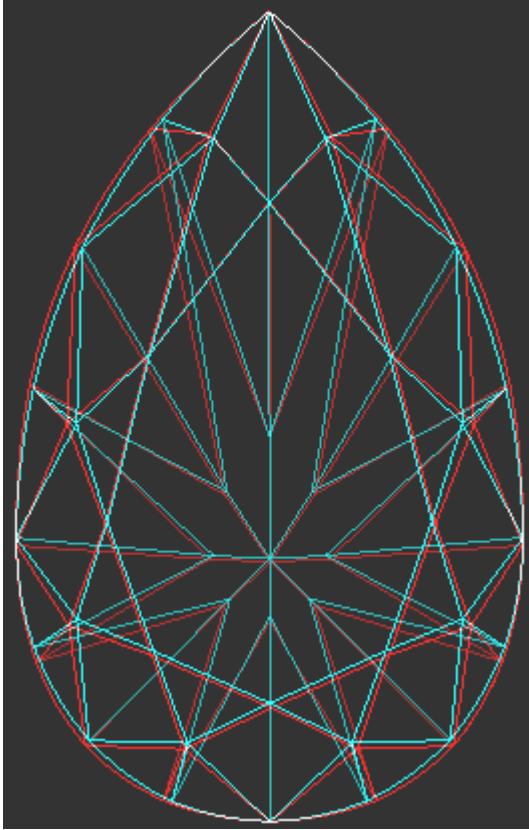
1.0716 Ct



20

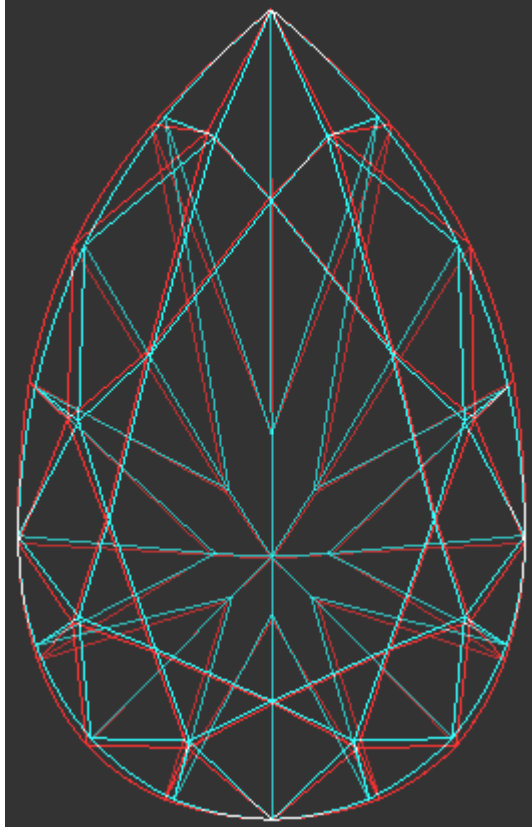


1.0662 Ct



1.0662 Ct

1.0716 Ct



1.0716 Ct

