

Algorithm "13. Cascade-2M"

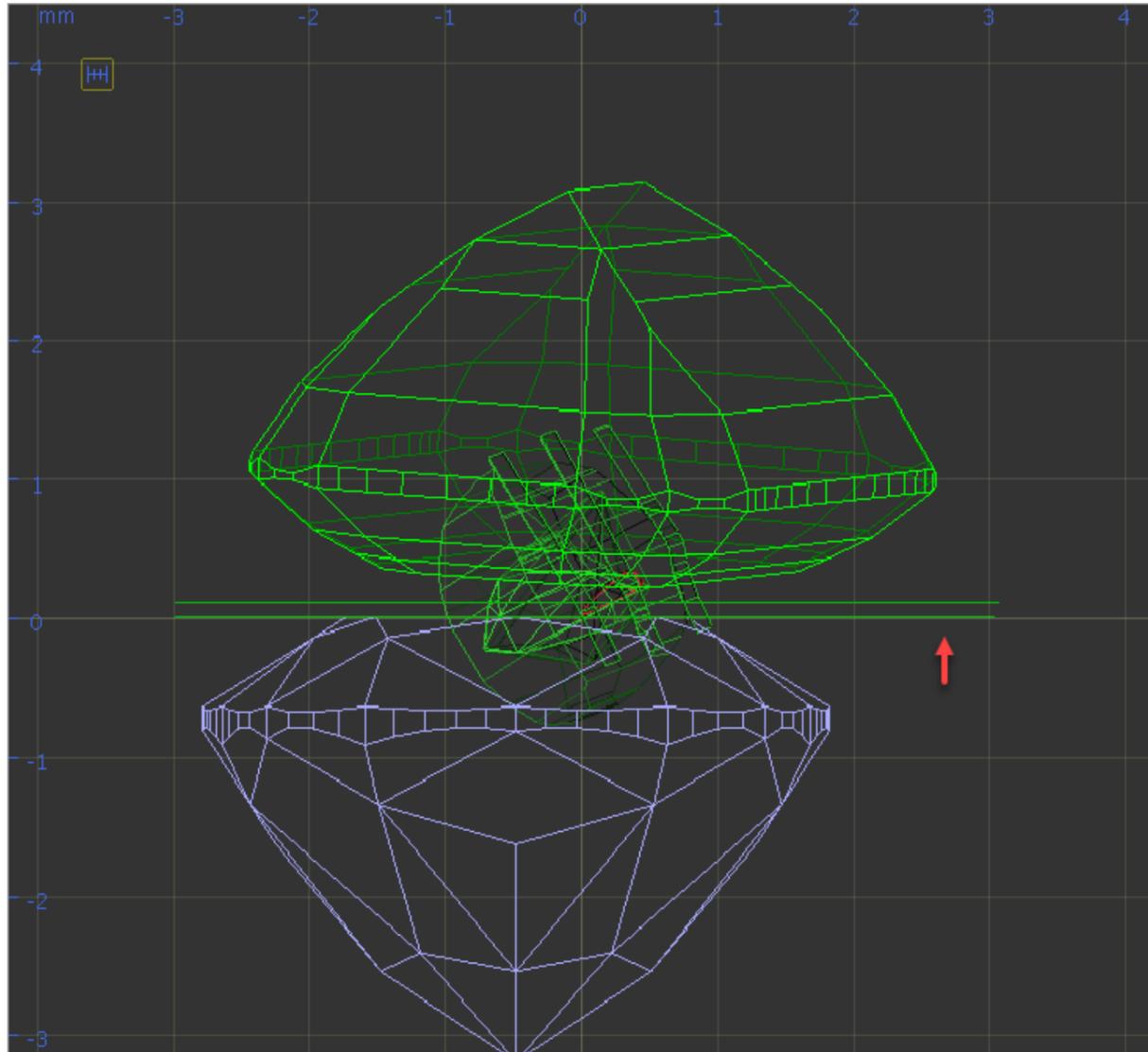
The "13. Cascade-2M" produces the solutions containing two diamonds. Better to run on the stones in the early stages of diamond processing.

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Configuring Sawing Layer

The algorithm produces the solutions containing two diamonds and a *sawing layer* between them.



It is now possible to configure the thickness of this layer depending on the initial model mass. This can be done via the "SawingLayerThickness.xml" file, stored in the ".\ProgramData\OctoNus Software\Oxygen HP\" folder.

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <SawingLayerThickness Version="1.0">
3   <Table>
4     <Entry ThicknessMm="0.065" MaxMassCt="0.5"/>
5     <Entry ThicknessMm="0.075" MaxMassCt="1"/>
6     <Entry ThicknessMm="0.1" MaxMassCt="2"/>
7     <Entry ThicknessMm="0.13" MaxMassCt="5"/>
8     <Entry ThicknessMm="0.15" MaxMassCt="10"/>
9     <Entry ThicknessMm="0.22" MaxMassCt="40"/>
10    <Entry ThicknessMm="0.3" MaxMassCt="Unlimited"/>
11  </Table>
12 </SawingLayerThickness>
13

```

In HP Carbon, in the solution list, the **Diamonds** section for the selected solution (the solution includes 2 diamonds), the sawing layer is listed, its thickness in mm is displayed.

Allocation solutions

Plans & Scans

	Price	Mass	BBB	Yield	Diam 1	Mass	Clarity	Gr	Cut	sym	Profile
<input type="checkbox"/> Imported model					10.0449						
<input checked="" type="checkbox"/> 1	51363\$	4.3912	BB 1	43.70%	Brilliant	2.3888	VS1	H	EX	EX	EX Profile1
<input type="checkbox"/> 2	51246\$	4.3832	BB 2	43.60%	Brilliant	2.3825	VS1	H	EX	EX	EX Profile1
<input type="checkbox"/> 3	47925\$	4.3697	BB 3	43.50%	Brilliant	2.5793	VS1	H	EX	EX	EX Profile1
<input type="checkbox"/> 4	47268\$	4.5266	BB 4	45.00%	Brilliant	2.9237	VS1	H	EX	EX	EX Profile1
<input type="checkbox"/> 5	47033\$	4.2863	BB 5	42.61%	Brilliant	2.5793	VS1	H	EX	EX	EX Profile1
<input type="checkbox"/> 6	47033\$	4.2795	BB 6	42.61%	Brilliant	2.5793	VS1	H	EX	EX	EX Profile1
<input type="checkbox"/> 7	46770\$	4.5400	BB 7	45.10%	Brilliant	2.9229	VS1	H	EX	EX	EX Profile1
<input type="checkbox"/> 8	46695\$	4.4567	BB 8	44.30%	Brilliant	2.9237	VS1	H	EX	EX	EX Profile1
<input type="checkbox"/> 9	46636\$	4.4714	BB 9	44.40%	Brilliant	2.8841	VS1	H	EX	EX	EX Profile1
<input type="checkbox"/> 10	46274\$	4.4250	BB 10	44.00%	Brilliant	2.8689	VS1	H	EX	EX	EX Profile1
<input type="checkbox"/> 11	46144\$	4.4536	BB 11	44.30%	Brilliant	2.9237	VS1	H	EX	EX	EX Profile1

Diamond Info

Diamonds

	Diam #	Cut	Price	Discount	PPC	Mass	Clarity	C	Grade
<input checked="" type="checkbox"/>	Diam 1	Brilliant	27963\$	-10%	11700.00\$/ct	2.39ct	VS1	H	EX
<input checked="" type="checkbox"/>	Diam 2	Brilliant	23400\$	-10%	11700.00\$/ct	2.00ct	VS1	H	EX
<input checked="" type="checkbox"/>	Layer 1 1	Diam 1	Diam 2		0.27ct				0.22mm

Inclusions (10)

Related Pages

- [Using Smart Recut for multi-diamond solutions from rough](#)