

G1 Galahad

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Overview

G1 Galahad mode allows visualizing of virtual steps of the cutting process of stone. **G1 Galahad** mode helps cutter to cut facets correctly by visual control of facet shape and difference values of slope, azimuth, distance between plan and current model.

1. G1 mode shows the main scan and active solution (target plan) from Recut mode:

"G1 Galahad" mode

Scan

Recut

diamonds

inclusions in polished

Photoreal

developer

DZ colors

G1 galahad

G2 galahad

Compare

Standard Report

#

Price ▲

Cutting

Mass

Yield

Clarity

Co

Sym-O

Gr

Cut

Sym 3

☐

Imported model

1.0192

+5.46

UNK

UNK

UNK

☐

5● 5733\$ Brilliant 0.9876 96.15% VS1 H +5.66 EX EX EX

Generate next faceting stage

Stage/Step

Cut Progress/Show Sections

"Recut" mode

Scan

Recut

diamonds

inclusions in polished

Photoreal

developer

DZ colors

G1 galahad

G2 galahad

Compare

Standard Report

#

Price ▲

Cutting

Mass

Yield

Clarity

Co

Sym-O

Gr

Cut

Sym 3

☒

Imported model

1.0192

+5.46

UNK

UNK

UNK

☐

3● 7333\$ Brilliant 1.0044 98.11% VS1 H +2.72 EX EX EX

☐

10● 7333\$ Brilliant 1.0000 98.11% VS1 H +3.88 EX EX EX

☐

8● 5792\$ Brilliant 0.9907 97.13% VS1 H +5.34 EX EX EX

☐

7● 5792\$ Brilliant 0.9903 97.13% VS1 H +5.49 EX EX EX

☐

6● 5792\$ Brilliant 0.9892 97.13% VS1 H +5.18 EX EX EX

☒

5● 5733\$ Brilliant 0.9876 96.15% VS1 H +5.66 EX EX EX

☐

9● 5733\$ Brilliant 0.9865 96.15% VS1 H +6.66 EX EX EX

☐

4● 5733\$ Brilliant 0.9810 96.15% VS1 H +6.54 EX EX EX

☐

1● 5675\$ Brilliant 0.9687 95.17% VS1 H +8.04 EX EX EX

☐

2● 5265\$ Brilliant 0.9026 88.30% VS1 H +7.37 EX EX EX

2. To get steps is required either right-click on the selected solution, in the context menu select **"Generate..."** under **"Next Step Plans"** group, from **Recut** mode or click button **"Generate next faceting stage"** from **G1** mode.

Scan

Recut

diamonds

inclusions

in polished

Photoreal

developer

DZ

G1

G2

galahad

galahad

Allocation solutions

Plans & Scans

Compare

Standard Report

#	Price	Cutting	Mass	Yield	Clarity	Co	Sym-O	Gr	Cut	Sym
✓ Imported model	1.0192									
3	7333\$	Brilliant	1.0044	98.11%	VS1	H	+2.72	EX	EX	EX
10	7333\$	Brilliant	1.0000	98.11%	VS1	H	+3.88	EX	EX	EX
8	5792\$	Brilliant	0.9907	97.13%	VS1	H	+5.34	EX	EX	EX
7	5792\$	Brilliant	0.9903	97.13%	VS1	H	+5.49	EX	EX	EX
6	5792\$	Brilliant	0.9892	97.13%	VS1	H	+5.18	EX	EX	EX
✓ 5	5733\$	Brilliant	0.9876	96.15%	VS1	H	+5.66	EX	EX	EX
9	5733\$	Brilliant	0.9865							EX
4	5733\$	Brilliant	0.9810							EX
1	5675\$	Brilliant	0.9687							EX
2	5265\$	Brilliant	0.9026							EX

Label

Clarity precision

Draft

Precise

Duplicate

Create copy of 5

Delete

Delete solution 5

Diamond Color

Estimate color grade for Plan 5, 0.9876 ct

Optical Symmetry

Calculate Optical Symmetry

Export Model

Export Model...

Next Step Plans

Generate...

Diamond Info

5

Cutting: Brilliant

Price: 5 733 \$

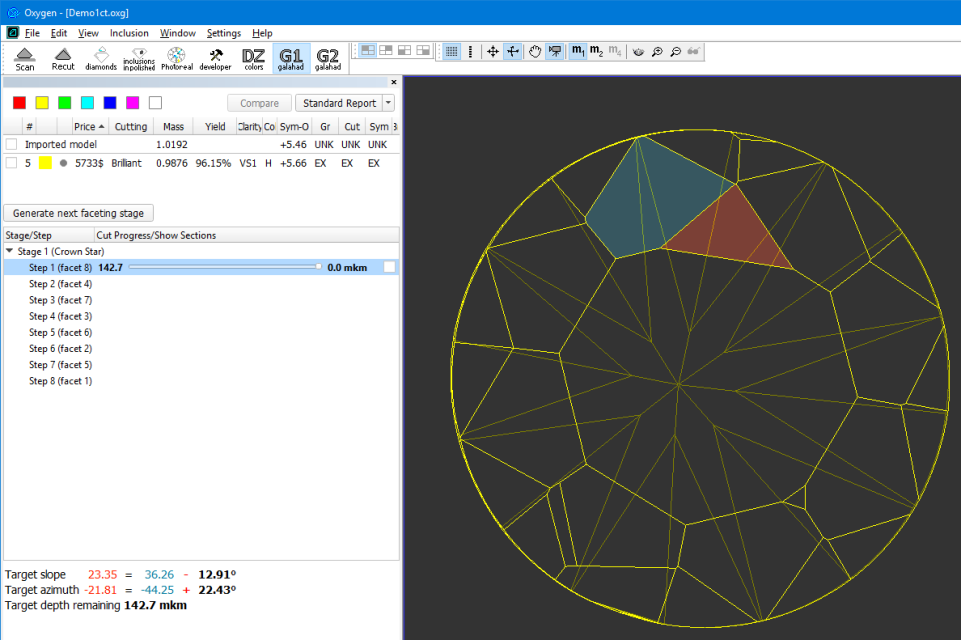
Discount: -10.00 %

PPC: 5850 \$/ct

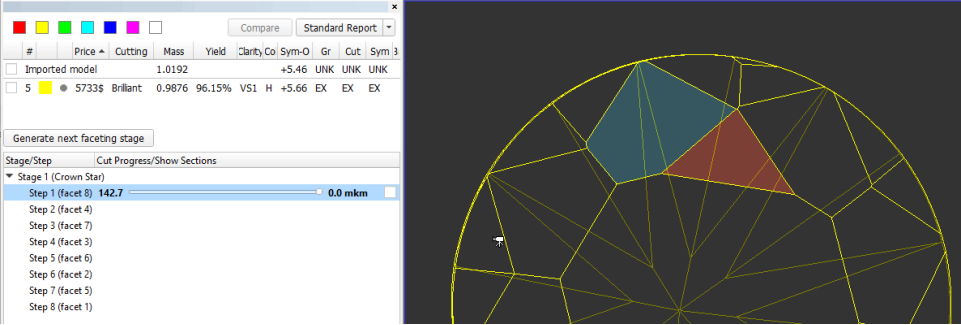
Inclusions

OR

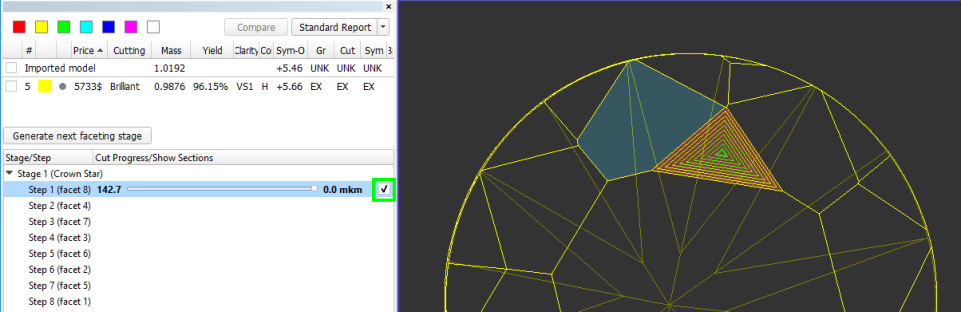
5. To view the generated faceting stage, switch back to Helium Polish Oxygen software and check table in "Plans&Scans" with stages and steps of cutting:



In the Scene operator can see yellow model which correspond to current stage/current step. Current facet under cutting is highlighted by ■ color. Facet, highlighted by ■ color, is the nearest facet to current. In left panel with stages/steps operator can see slider which by default is the end of scale for each step. Position of slider displays current level of cutting and correspond to model on the right.



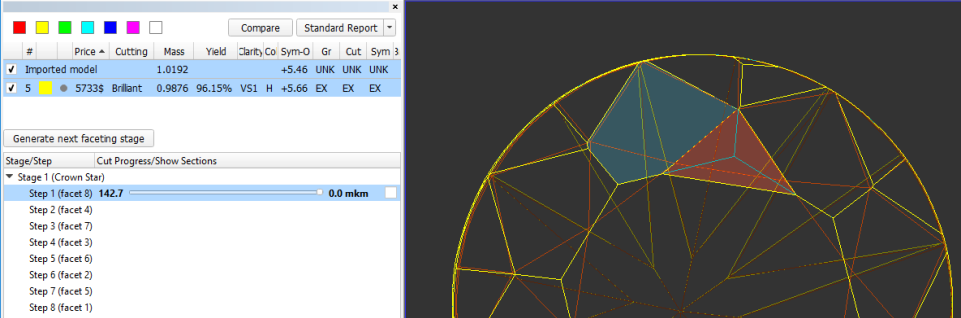
There are values on in the beginning and in the end of scale - they mean distance of cutting which is already passed for model on the right and distance which is left till end. Checking box shows levels of cutting:



Information under the stages/step shows slope angles and azimuth angles of final plan model and current step model (yellow) and difference between them. Also target depth of cutting is shown:

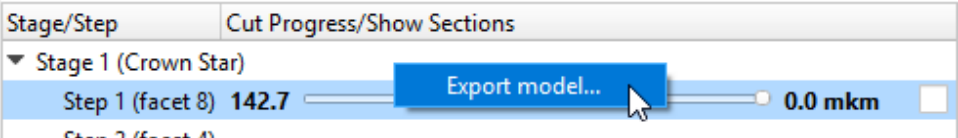
Target slope 23.35 = 36.26 - 12.91°
Target azimuth -21.81 = -44.25 + 22.43°
Target depth remaining 142.7 mkm

6. Operator can check boxes on the left top table and see in scene plan (red) and original (blue) model:

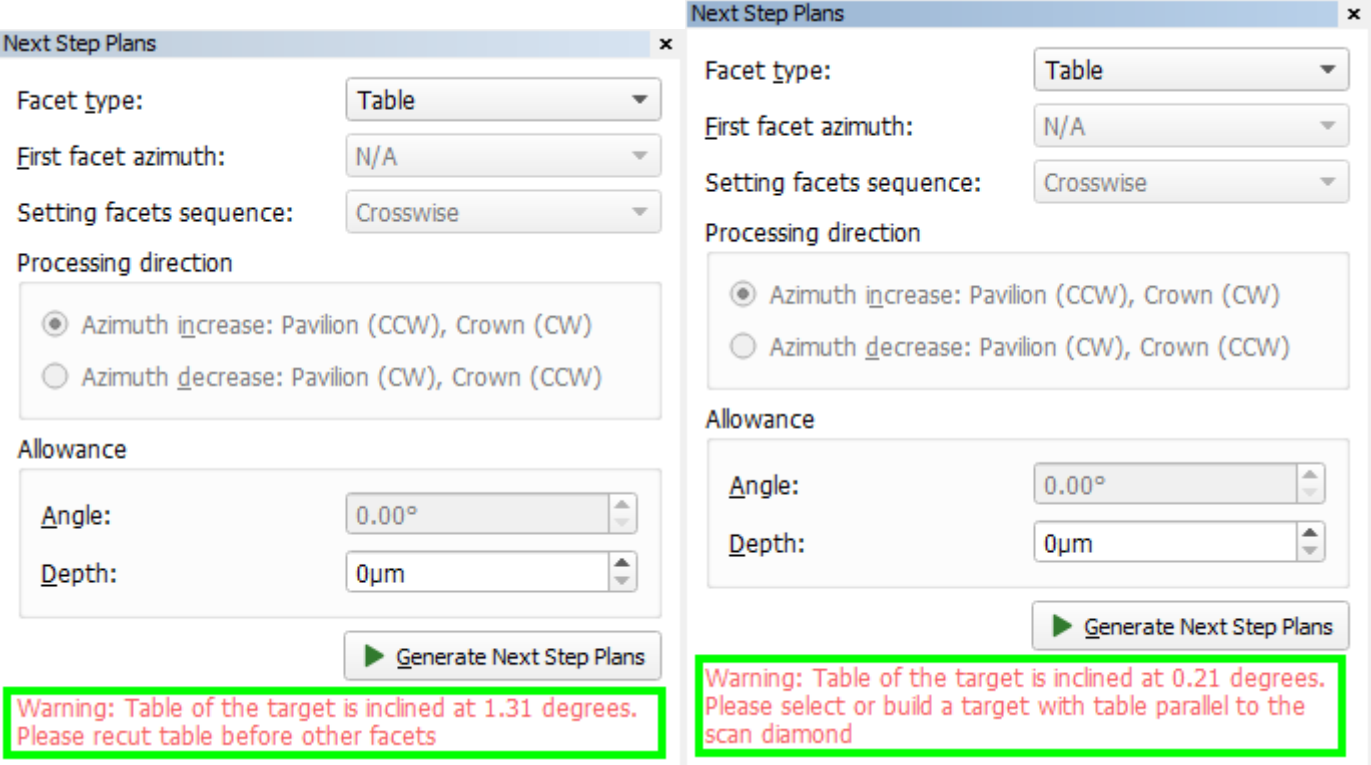


7. After cutting of Stage 1 facets, operator has to press button "Generate next faceting stage" and proceed with next facet group.

8. Right click on step item allows to export the current model model to .mme file:



Note: If table of plan is inclined more than 1 degree then alert message to recut table will be shown in panel **Next Step Plans** . If table of plan is inclined more than 0.1 degree but less then 1 degree then alert message to select another plan will be shown in panel **Next Step Plans**



Operations with Stages and Steps

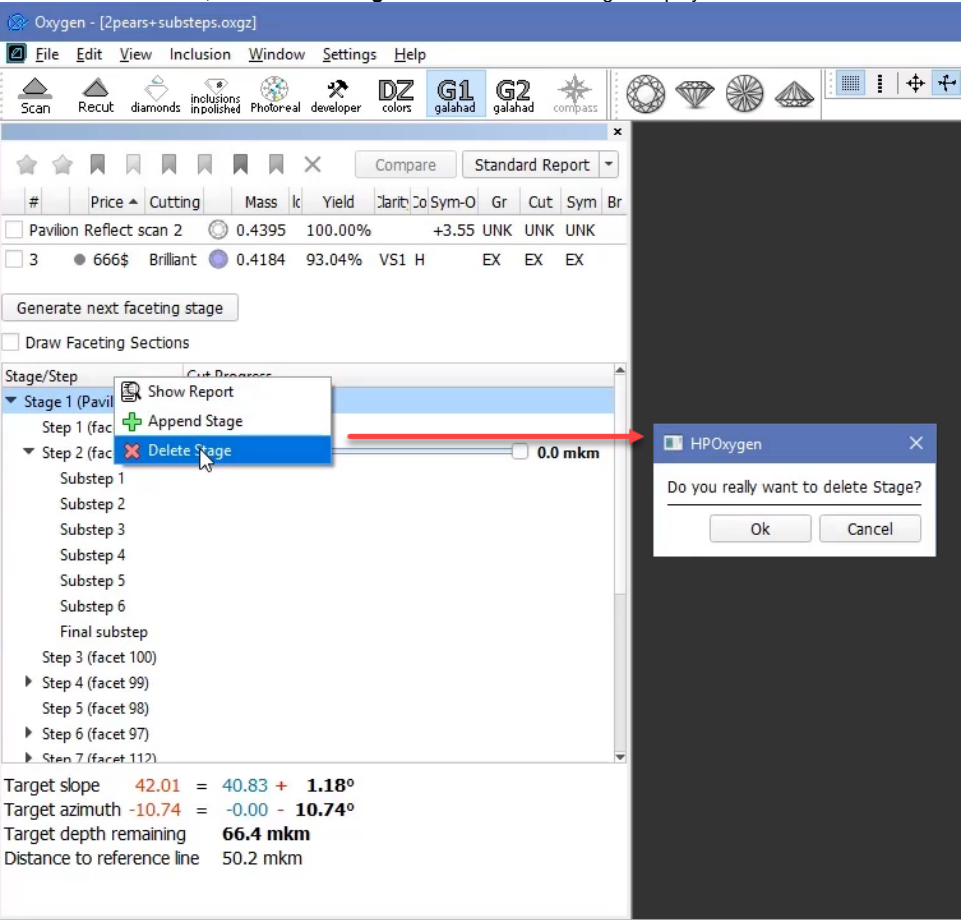
You can perform different operations related to stages and steps.

Deleting Stages

To delete the stage:

1. In the **G1 Galahad** mode, on the left panel right-click the stage you want to delete. The context menu is displayed.

2. From the context menu, select **Delete Stage**. The confirmation dialog is displayed.

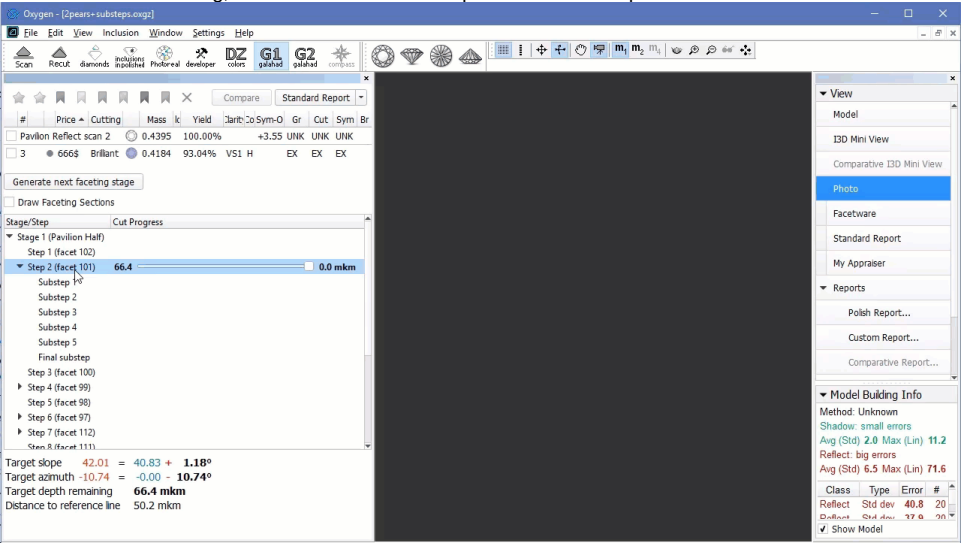


3. In the confirmation dialog, click **OK**. The stage is deleted along with all steps.

Deleting Last Sub-Steps of Steps

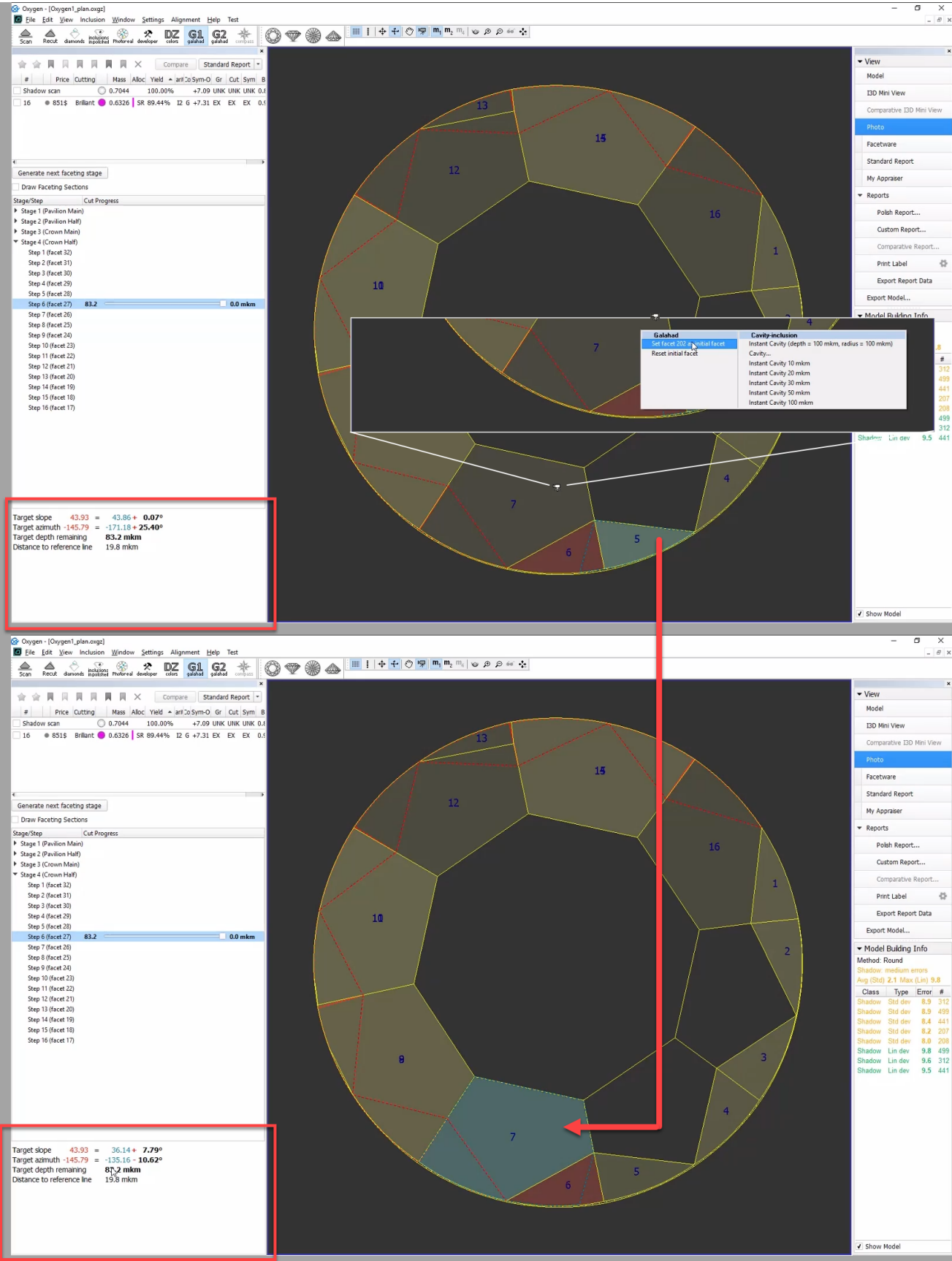
You can delete the last sub-step of the step. To do so:

1. In the **G1 Galahad** mode, on the left panel do one of the following:
 - a. Right-click the step for which you want to delete the last sub-step.
 - b. Right-click any sub-step within the step for which you want to delete the last sub-step.The context menu is displayed.
2. From the context menu, select **Delete last substep**. The confirmation dialog is displayed.
3. In the confirmation dialog, click **OK**. The last sub-step of the current step is deleted.



Manual Selection of Initial Facet

In Galahad Mode, for the selected step it is now possible to manually select the initial facet different from the one automatically calculated by the system. Once manually set, the initial facet can then at any moment be reset to the default one.



Related Pages

Content by label

There is no content with the specified labels

