

Next Step Plans

In HP Carbon, as you have your allocated plans, you can select one of them and create *next step plans* for it. Single next step plan is the *stage* of polishing of the stone. The stage is related to the specific facet type; it contains the sequence of *steps*. Each step is related to specific facet and contains information about this facet initial (before polishing) and final (after polishing) states.

In this article:

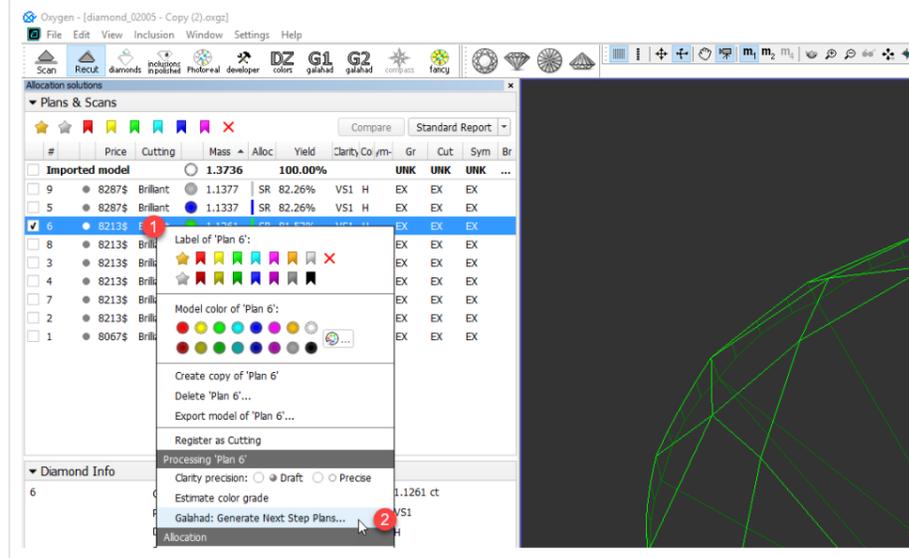
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Creating Next Step Plans

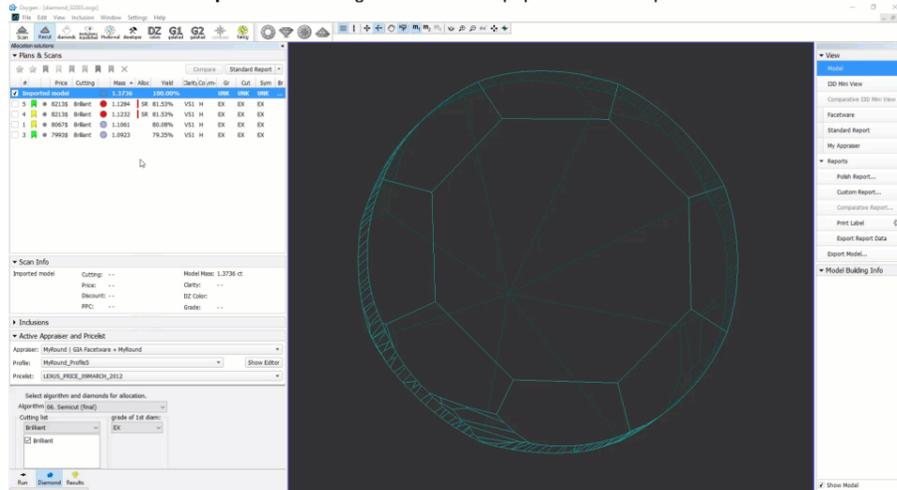
To create a new next step plan:

1. In the **Recut** mode, select the target plan.
2. Switch to the **G1 Galahad** mode.

You can also initiate creating next step plan right in the **Recut** mode. To do that, in the **Recut** mode, right-click your target plan, then from the context menu select **Galahad: Generate Next Step Plans....** The **Next Step Plans** panel will be displayed.



3. Click **Generate next faceting stage**. The **Next Step Plans** panel is displayed.
4. Select **Facet type** from the list.
5. Set next step plan **parameters**.
6. Click **Generate Next Step Plans**. The stage is created and populated with steps.



Next Step Plan Parameters

Parameter	Example	Description
Facet type <div style="border: 1px solid #ccc; padding: 5px;"> <p>Next Step Plans x</p> <p>Facet type: <input type="text" value="Crown Main"/></p> <p>First facet azimuth: <input type="text" value="45.2°"/></p> <p>Setting facets sequence: <input type="text" value="Consecutive"/></p> <p>Processing direction</p> <p><input checked="" type="radio"/> Azimuth <u>i</u>ncrease: Pavilion (CCW), Crown (CW)</p> <p><input type="radio"/> Azimuth <u>d</u>ecrease: Pavilion (CW), Crown (CCW)</p> </div>	<div style="border: 1px solid #ccc; padding: 5px;"> <p>Table</p> <p>Crown Main</p> <p>Crown Half</p> <p>Crown Star</p> <p>Girdle</p> <p>Pavilion Main</p> <p>Pavilion Half</p> <p>Culet</p> </div>	<p>Set of the facet types presented in the list depends on the cutting type and the current Facet Marking.</p> <p>Select the facet type from the list to generate a next step plan (stage) that will include all the steps related to the facets of the selected type.</p> <p>Note The value may also be selected by clicking any facet of the required type in the scene.</p>
First facet azimuth <div style="border: 1px solid #ccc; padding: 5px;"> <p>Allowance</p> <p>Angle: <input type="text" value="0.10°"/></p> <p>Depth: <input type="text" value="5µm"/></p> <p style="text-align: right;"><input type="button" value="Generate Next Step Plans"/></p> </div>	<div style="border: 1px solid #ccc; padding: 5px;"> <p>8.4°</p> <p>37.1°</p> <p>55.3°</p> <p>82.9°</p> <p>99.6°</p> <p>128.6°</p> <p>146.0°</p> <p>172.1°</p> <p>188.9°</p> <p>218.6°</p> <p>236.4°</p> <p>261.1°</p> <p>278.9°</p> <p>308.1°</p> <p>325.9°</p> <p>350.6°</p> </div>	<p>The parameter lists the azimuths of the presented facets of the type, defined by Facet type.</p> <p>The selected value defines the facet which will be polished on the first step. The value may be selected from the list or by clicking the required facet in the scene.</p>
Setting facet sequence	<div style="border: 1px solid #ccc; padding: 5px;"> <p>Crosswise</p> <p>Through one</p> <p>Consecutive</p> </div>	<p>Together with Processing direction, defines in which order the facets will be polished starting from the one defined by First facet azimuth:</p> <ul style="list-style-type: none"> "Consecutive" - the facets will be polished consecutively. "Through one" - every second facet will be skipped within the first circle and covered consecutively within the second. "Crosswire" - the facets will be polished crosswire, the ones outside the first cross will be covered within the following
Processing direction	<div style="border: 1px solid #ccc; padding: 5px;"> <p>Processing direction</p> <p><input type="radio"/> Azimuth <u>i</u>ncrease: Pavilion (CCW), Crown (CW)</p> <p><input checked="" type="radio"/> Azimuth <u>d</u>ecrease: Pavilion (CW), Crown (CCW)</p> </div>	<p>Together with Setting facet sequence, defines in which order the facets will be polished starting from the one defined by First facet azimuth:</p> <ul style="list-style-type: none"> Azimuth increase: Pavilion (CCW), Crown (CW) Azimuth decrease: Pavilion (CW), Crown (CCW)
Allowance	<div style="border: 1px solid #ccc; padding: 5px;"> <p>Allowance</p> <p>Angle: <input type="text" value="2.00°"/></p> <p>Depth: <input type="text" value="30µm"/></p> </div>	<p>Defines whether facets should be polished up to the brilliant (0.00° and 0.00µm) or with some allowance.</p> <p>You can set allowance for the depth in µm or for the angle in ° or combine these two allowances.</p> <p>Setting allowance for the next step plan allows polishing the same facet types within several different next step plans (stages). For example, you can polish Crown Main facets with the allowance of 10µm for the depth on one stage, and then finalize polishing these facets in a later stage up to the end (0.00µm allowance).</p> <p>Notes</p> <ul style="list-style-type: none"> Normal allowance change from stage to stage is decreasing down to 0, for example: 30 > 15 > 10 > 0µm or 3° > 1° > 0° Default value is: 0.00° and 0.00µm