

# Helium Rough/Pacor Client Public Documentation

Welcome to Helium Rough/Pacor Client Documentation!

## Search Documentation

(try typing your question or the name of anything you see in the Helium Rough/Pacor Client user interface, e.g. "appraiser", "import marking", "photo series")

### Also you may:

- Get familiar with **what's new** in [Release Notes](#)

Documentation version: **Public** (current) | switch to **Internal** (beta functions, members only)



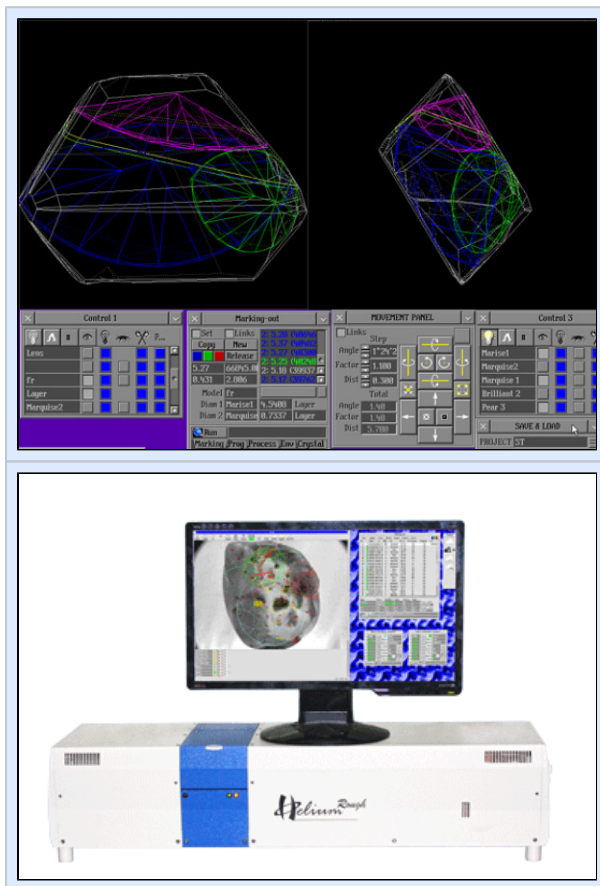
**Helium Rough/Pacor Client** depending on your [HASP key](#) and hardware presence will act as:

- **Helium Rough** - a bundled hardware+software solution for scanning rough (and polished) diamonds with advanced cavity and inclusion mapping and placing this information into the resulting 3D model. After the optional extension of inclusion information (in [HIG](#)) and solution allocation (in [HP Carbon](#)), a stone and its model can go back to Helium Rough for detecting the most profitable option of rough marking (software) and further intelligent laser marking (hardware) of sawing planes.
- **Pacor Client** - a *Helium Rough without hardware* and related functions - a software for planning allocation of rough diamond, detecting the most profitable option of rough marking. Pacor Client works without hardware with projects created by Helium Rough and [IG scanners](#), [MBox](#), and [HP Carbon](#).

## Main features

### Helium Rough

- Any inclusion including Gletz / piques / bubbles (VS to I) can be considered.
- Shortest payback time. Many times, as short as 4 to 5 days. Increases profit exponentially with a little increase in efforts.
- Automatic Sawing plan generated, to maximize your profit.
- Most advanced and accurate cavity mapping technique, thanks to its dual head scanning technology.
- The machine intelligence will help you to decide if inclusion removal or re-orientation of inclusion will maximize your profit.
- If the suggested plan includes the inclusion, the machine software will show you where that inclusion will be reflected in the polished piece. The Software will grade the finished stone based on size of inclusion left inside the polish stone, its orientation and its reflection / refraction inside the polish stone. Model building accuracy of better than 0.005 mm makes this possible.
- Intelligent Laser marking software leaves off the area unmarked where it matters the most.
- Very fast laser marking facility. Choose and mark all option of marking in one key stroke.
- Warranty of 36 months/5000 hrs on laser source.
- [Free Oxygen Viewer](#) will make it possible for your overseas office to participate in critical decision making. They will be able to view the provisional / final plan on the virtual stone, and give their consent before further process.
- Free Oxygen Viewer is an inevitable tool for the manufacturing department to have a look at virtual report of the plan. This will reduce a great amount of paper work, and makes your factory, a truly IT oriented organization.
- Eight options of cavity mapping: Small, Medium, Big, etc. to suite your need.



- LAN configurable and multi user environment software support reduces overall cost. Inclusion placement and allocation can be done in off machine mode to reduce load on the scanner and increase its utility factor (reduce overall investment).
- The software is specifically designed to accurately suggest the most profitable planning options in value recovery terms. In the process the Rapaport / user specific price structure can be used.

Visit a [product page](#) on the OctoNus official site.

#### ***Pacor Client***

- Detecting the most profitable option of rough marking.
- High precision estimation of future diamond weight, position of inclusions in future diamonds. Observing real and imaginary inclusions.
- Automated search for the largest possible diamond with respect to parameters and inclusions, estimating mutual location of the future diamond and inclusions with precision of at least 100 micrometers.
- Various cut shapes: ROUND diamond, MARQUISE, PEAR, EMERALD, FLOWERS, PRINCESS and others.
- Calculations of inclusion positions Dared on refraction property of diamond.

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