


# 2023.04.13 - Helium Rough/Pacor Client 7.7.1

Here you can find information about what is new in Helium Rough/Pacor Client 7.7.1.

 This version is available for [download](#) from the Octonus official web site.

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## Price list adaptation for Melee diamonds

Changed the procedure for determining the price of diamonds weighing less than 0.0584ct (Sieve up to +9).

PPC - tables of Price per Carat depending on weight, as well as color, clarity and other discounts.

Mass2 - the weight of the diamond rounded to the boundary X,XX85

Mass4 - the weight of the diamond rounded to the X.XXXX5 boundary (usual math rules for 4 digits)

Previously

- the cost for all diamonds was determined as  $Mass2 * PPC(Mass2)$

Now

- the cost of diamonds weighing 0.0585ct and above remained the same according to the formula  $Mass2 * PPC(Mass2)$
- the cost of diamonds weighing 0.0585ct and below is determined by the new formula  $Mass4 * PPC(Mass2)$

Examples of pricing for Brilliant-D-IF without additional discounts

Weight	Mass2	PPC	Old Price	New Mass	New Price
0.001	0.00	660	0.00	0.001	0.66
0.005	0.00	660	0.00	0.005	3.30
0.009	0.01	660	6.60	0.009	5.94
0.015	0.01	660	6.60	0.015	9.90
0.038	0.03	660	19.80	0.038	25.08
0.049	0.05	750	37.50	0.049	36.75
0.057	0.05	750	37.50	0.057	42.75
0.065	0.06	750	45.00	0.06	45.00

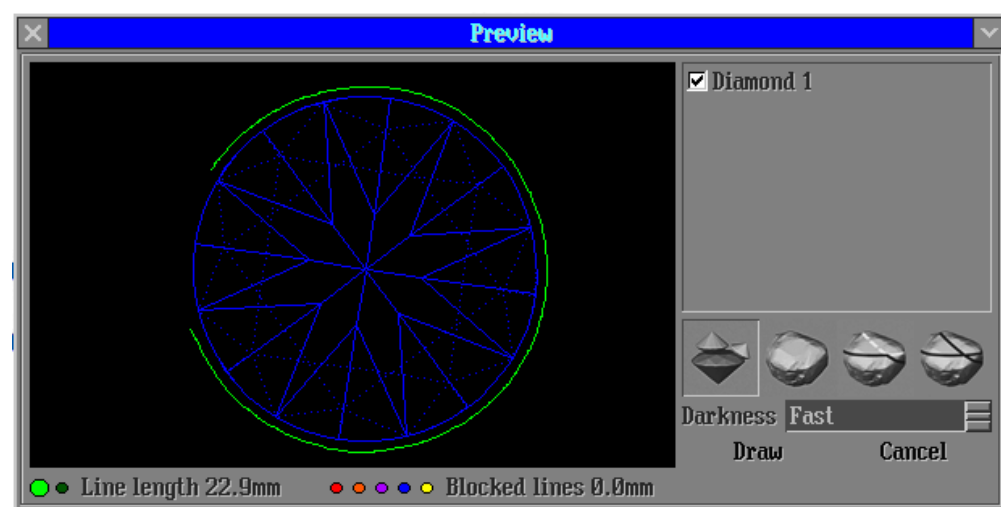
This made it possible to launch global optimization algorithms for low-weight rough diamonds.

## Safety margin for Girdle form in laser marking

For Girdle form laser marking lines can be shifted from the future diamond. Parameter Offset works for Pavilion and Crown forms.



On preview picture below lines for Girdle form (pavilion) shifted on 200 microns.



## Fixed problems and improvements

The following fixes for the known problems and improvements are implemented:

- Number of diamonds in Roughvalue.txt report increase from 8 to 16.
- Wrong cutting type for Cushion\_Square fixed
- Safety margins for Girdle form (pavilion/crown)
- Fixed bug for Find next diamond algorithm
- Fixed bug for Heart shape in 09. Adaptive and other old optimization algorithms