

HELIUM POLISH UPDATE

VERSION 3, 80, 75

DATE OF RELEASE: July 14, 2006

TITLE:

- ✚ “Improvement in Fancy shape, Princess and Sample model construction”

BENEFITS:

- ✚ This new version program has some improvements in building of marquise cutting Improved model construction in fancy shape stones
- ✚ Improved reports of semi polished RBC.
- ✚ Improved Sample Cutting model building (you can construct/scan your own user shapes)
- ✚ There are some changes in reports for RBC.

ACTION:

First, take backup of your old software version.

Download below zip file for updates:-

<http://www.lexus-com.com/download/Software/Helium1.zip>

<http://www.lexus-com.com/download/Software/Helium2.zip>

Unzip above zip file into path from where your Helium exe is running.

Note: This zip file also contain the new report templates for RBC Illustrated and Full reports (and corresponding ini).

For checking New Version of the S/W click on

START → ABOUT (Will display the New Version 3, 80, 75 July 14, 2006)



New Updates :

We added following parameters:

- Crown painting, degrees
 - Crown painting, notches
 - Crown painting, text
 - Crown type, text

 - Pavilion painting, degrees
 - Pavilion painting, notches
 - Pavilion painting, text
 - Pavilion type, text
- 1) Painting parameter defines deviation of halves' facet azimuths from ideal. For each lower and upper facet software calculates difference between azimuth of this facet and azimuth of the nearest main facet.
 - 2) The ideal brilliant will always have this difference equal to 11.25 degrees. Real stone may have some deviations. So, deviation of this difference from ideal 11.25 degrees is the (signed) value of the "painting, degrees" parameter.

"painting, notches" is defined as following:

$\text{painting,notches} = \text{abs}(\text{painting,degrees})/3.75 <\text{degrees}>$

It is the same deviation but unsigned and dimensionless.

Such deviations from ideal lead to changes in the girdle shape. They may make girdle thinner or thicker.

Besides numerical values we introduce text descriptions for these deviations. The "painting, text" parameter may be one of the following depending on the "painting,notches" (average) value:

- (0.0 - 0.1) Absent
- (0.1 - 0.3) Very small
- (0.3 - 0.8) Small
- (0.8 - 1.2) Practical
- (1.2 - 1.8) Big
- (1.8 - 2.2) Very big
- (2.2 - oo) Huge

And there is one more text description of the whole girdle for crown and pavilion sides: "Crown type" and "Pavilion type". It may be one of the following: "Painting" or "Digging" or empty. If painting parameter is rated as "Absent", the "type" is empty. Otherwise the "painting,degrees" (average) parameter is considered. If it is less than 0, the type is "Painting", otherwise it is "Digging".

See example given in below table:-

Painting	Avg	Max	Type	1	2	3	4	5	6	7	8
Crown, °	-2.22	-2.84	Painting	-1.87	-2.84	-1.61	-2.01	-2.68	-2.53	-2.41	-2.03
				-2.32	-2.18	-2.59	-2.22	-2.44	-2.17	-1.96	-1.73
Crown, notches	0.6, Small	0.8		0.5	0.8	0.4	0.5	0.7	0.7	0.6	0.5
				0.6	0.6	0.7	0.6	0.7	0.6	0.5	0.5
Pavilion, °	-0.02	0.56		-0.36	-0.33	-0.06	0.32	-0.29	0.46	-0.27	0.15
				-0.14	0.04	0.28	-0.24	0.56	-0.28	-0.23	0.04
Pavilion, notches	0.0, Absent	0.1		0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0
				0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0

Please test this new program and give us your feedbacks.