2015.04.30 - Helium Polish version 5.6.70.1, report.dll version 2.6.2.1, new templates dd 29.04.2015

Release contains:

File	Version		
HeliimPolish.exe	5.6.70.1		
report.dll	2.6.2.1		
Reports templates	2015-04-29		

In this version we made the following changes:

Actual Length axis asymmetry	Length axis symmetry correction
area loss = 0.28% mass loss = 0.01% mass loss = 0.00000	area loss = 0.28% mass loss = 0.01% mass loss = 0.0000ct

Crown view:



By default, these pictures are available in full report for RBC.

2. New report parameters were added:

Table	%	62.217	61.929	61.223	62.757
Table	mm	1.2209	1.2152	1.2014	1.2315
Table inside	%	57.012	58.091	57.012	57.641
Table inside	mm	1.1187	1.1399	1.1187	1.1311
Table outside	%	62.217	61.929	61.223	62.757
Table outside	mm	1.2209	1.2152	1.2014	1.2315
Table obsolete	%	62.194	61.921	61.223	62.755
Table obsolete	mm	1.2204	1.2151	1.2014	1.2314
Table obsolete	mm	1.2204	1.2151	1.2014	1.231

2.1 "Table inside" (bookmarks - TABLE_INSIDE_) is calculated as minimum diameters of a table.
2.2 "Table outside" (bookmarks - TABLE_OUTSIDE_) is calculated as maximum diameters of a table.
2.3 "Table obsolete" (bookmarks - TABLE_OBSOLETE_) is calculated in old way by in crown star direction instead of pavilion's main as it was before.
2.4 "Table" (bookmarks - TABLE_) is equal to "Table outside" in case if all star facets are present or to "Table inside" if there are none of them.

3. "Diameter Average" for GIA method is calculated as an average of "Diameter Minimum" and "Diameter Maximum" values. If you want to use GIA method, do the following: 3.1 Open "Report option" panel



3.2 Check the "GIA heights" checkbox:

× Options ×			
Cutting:	Brilliant 📃		
🗆 View 📃	Text report for brilliant		
🗆 Print 🛛 🖏	Short polished diamond		
🗆 Save	n∕a		
🗆 Report 1 🔳	Export report data, Color		
🗖 Report 2 👌	Illustrated report for brilliant,		
🗆 Report 3 🖺	Export report data, Color		
🗆 Print report	t when save 🛛 🗹 GIA heights		
🗆 Pear point i	s down 75.0 RakeGirdleAngle		
default 📃	Decimal digits		
Scan Cutting	Polish Report (Layer Mar 🕤 🕞		

3.3 Rebuild model.

4. DMC model exported fro	m HP Pacor now has horizon	tal table orientation.	To export model use "E	xport DiamCalc model (d	mc)" from main menu:
Start 📙 🕈	Figure 🔥 🕁	Motor	Light	Express	Rough
Main				ocan p	orisheu uramonu. Driffia
Inner					
Tune hardware					
Import/Export			Export Dia	mCalc.model (dmc)	
Restore			Import date	a from another scanner	(MMD)
Miscellaneous			Export lay	er (OSF)	
Status panel			Export mar	•king lines (OSF)	
Scan polished diamond	l: Brilliant		Import cut	ting from GemCad ascii f	ormat (ASC)
Open project					
Save project: * D:\'	2012_06_21_Twist_data_m	ot_display_report.M	1md		in the second se
Save project as			r N		
Find models				₽ { N / -	\rightarrow
Recognition project					
Rough Models Resembla	mce				
About					
D:\\2012_06_21_Tu	vist_data_not_display_repo	rt.Mmd			
D:\YAlexandrov\\Ø	7_Radiant\diamond_70010.N	1md			
D:\YAlexandrov\\Ø	6_Cushion\diamond_60001.r	nmd			
D:\YAlexandrov\\Ø	5_Emerald\diamond_50006.	mmd			
D:\YAlexandrov\\Ø	4_Princess\diamond_40016.	.mmd			
D:NYAlexandrovNHP Pa	cor\\02_Oval\diamond_2	20005.Mmd		V	
D:NYAlexandrovNHP Pa	cor\\02_Oval\diamond_2	20002.mmd		\mathcal{K}	
D:NYAlexandrovNHP Pa	cor\\00_RBC\diamond_0	2048.Mmd		\land	
D:\YAlexandrov\\Ø	1_Marquise\diamond_10002.	mmd		/	
D:\YAlexandrov\HP Pa	acor\\00_RBC\diamond_0	2006.Mmd			
Exit					
6					

5. New symmetry-based Azimuth Indication colored pictures were added, Painting and Deviation values were re-calculated for easy symmetry estimation:





Pavilion painting and deviation of pavilion main facets azimuth angles from their ideal positions for the round brilliant

There are two main changes related to these pictures:

1. We've changed the way Painting deviation is calculated and displayed: before, absolute values of azimuth deviation from a symmetric cutting were shown for both Main and Upper / Lower facets. Now, we first calculate deviation in Azimuth for Main facets, and then calculate relative Azimuth deviation of Upper / Lower facets adjacent to the corresponding Main facets. It means that if in a group of 3 facets (e.g. Pavilion Lower + Pavilion Lower) each shifted its Azimuth by +0.4 degree, then you will see a +0.4 deg shift on the Main facet, but 0.0 deg shift on both Lower facets, In other words, Azimuth deviation on Upper and Lower facets indicates if they have changed their relative Azimuth of their "host" Main facet.

2. We've added color coding for visual estimation of Azimuth shift. No Azimuth change (0.0 difference) corresponds to Blue color, while positive Azimuth change corresponds to Blue color. The larger the absolute value of Azimuth shift, the more intense (vivid) is the color.

Use the following bookmarks for colored Azimuth symmetry pictures:

PAVILION_AZIMUTH_DEV_PICTURE CROWN_AZIMUTH_DEV_PICTURE

By default, these pictures are available in full report for RBC.