2015.06.03-Helium Polish version 5.6.73.1, report.dIl version 2.6.6.1, BriRecon.dIl 1.1.10.1, new templates dd 02.06.2015 Release contains:

| File | Version |
| :--- | :--- |
| HelimPolish.exe | $5 \cdot 6.73 .1$ |
| report.dll | $2 \cdot 6.6 .1$ |
| BriRecon.dll | 1.1 .10 .1 |
| Reports templates | $2015-06-02$ |

In this version we made the following changes

1. Error with "Width-wise culet shitt ratio" and "Length-wise culee shift tatio" calculation is fixed. Shitit s calculaled for RBC in MAX and MIN diameters directions from now

| Culet shift ratio by main diameter |  |  |
| :--- | :--- | :--- |
| Main diameter (avg) |  |  |
| Width culet shit ratio | $2.546 \mathrm{~mm}, 49.01 \%$ | $5.195 \mathrm{~mm}, 100 \%$ |
| Length culet shift ratio | $2.57 \mathrm{~mm}, 49.22 \%$ | $2.620 \mathrm{~mm}, 50.42 \%$ |

$\qquad$

Girdle center mass


| Offset | Distance, \% | Distance, mm |
| :---: | :---: | :---: |
| Girdle-Culet offset by table axis | $0.87 \pm 0.24$ | $0.049 \pm 0.014$ |
| Girdle-Table offset by table axis | $0.83 \pm 0.22$ | $0.047 \pm 0.012$ |
| Cule-Table offset by table axis | $1.19 \pm 0.26$ | $0.067 \pm 0.015$ |
| Girdle to table-culet line offset | 0.66 | 0.037 |

2.3 To use old girdle center in offset calculation please check "Girdle center" check box in Report options pane

| X | Options |  |
| :---: | :---: | :---: |
| Cutting： | brilliant |  |
| $\square$ Uiew $\square$ | Text report for brilliant |  |
| $\square$ Print | Short polished diamond |  |
| $\square$ Save | $\mathrm{n} / \mathrm{a}$ |  |
| $\square$ Report 1 首 | Export report data，Color |  |
| $\square$ Report 2 ¢ | Illustrated report for brilliant， |  |
| $\square$ Report 3 酋 | Export report data，Color |  |
| $\square$ Print report | t when save $\nabla$ Gia heights |  |
| $\square$ Pear point is | is down 75．0 RakeGirdleanqle |  |
| default 寿 | Decimal digits | V Girdle Center |
| Scan Cutting | Polish Report | Layer Mar ／］$^{\text {c }}$ ］ |

2．4 Please pay atention that girdele center（blue cross on pictures same as before）caluulation is changed：
2．1．For Princess，Step Cuts，Radiant，Square Radiant Squares
4．2 For Pear cutting it is cross of symmetry axis with width axis
$\qquad$
New report parameters were added－CRN MAIN 5 EDGE JUNCTION

| Parameter |  | Avg | Min | Max | Dev |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Crown main 5 edge junction | $\%$ | 1.57 | 0.79 | 2.59 | 1.80 |
| Crown main 5 edge junction | mm | 0.089 | 0.045 | 0.147 | 0.102 |

． 1 ＂Crown main 5 edge iunction＂is equal to diameter of minimum circle which includes all 3 nodes at this sunction，in case the triangle build on 3 nodes have angles below $90^{\circ}$

4.2 In case ifany of angles oftriangle build on 3 nodes is above $90^{\circ}$ "Crown main 5 edge junction" (and circle diameter) is equal to maximum distance between any of the 3 nodes at this junction. Circtes are shown in red on pictures in report:

5. New report parameters were added - STAR_EDGE

| Parameter |  | Avg | Min | Max | Dev |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Star edge | $\%$ | 15.50 | 13.70 | 18.22 | 4.52 |
| Star edge | mm | 0.879 | 0.777 | 1.033 | 0.256 |


5.2 Percentage value is measured as ratio to diameter.

New report parameter is added, roundness is caluulated for $22.5^{\circ}$ angle from now

| Roundness | $\circ$ | 15 | 22.5 | 30 | 45 | 90 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Diameter roundness | $\%$ | 0.14 | 0.17 | 0.21 | 0.28 | 0.35 |
|  |  | EX | EX | EX | EX | EX |
| $2^{\star}$ radius roundness | $\%$ | 0.18 | 0.25 | 0.32 | 0.39 | 0.52 |
|  |  | EX | EX | EX | EX | EX |

