Edition performance drawing of propeller or wing in Heliciel software

When the performance of the propeller or the wind turbine or the wing have been updated, the Edition menu of Heliciel software allows you to record, in various forms, the result of your work:

3D drawings of blades propellers are produced in IGS format for CAD

CAD software by the 3D engine Heliciel

See: 3D drawings blades Propellers wings

Example export 3D blades propellers to SolidWorks

If we want to realize the construction of our blade of wind turbine, propeller or wing, by cutting profiles positioned at different incidences, the editor profile pictures we will be valuable. Image Editor gives us a series of images of profiles blade section or wing with their dimensions, positions and pitch angles. The list of the coordinates of standard profiles, or scale 1, is available on each tab of the elements constituting the blade or wing. In a few hours the prototype can be achieved. Building a wind turbine or a propeller becomes simple with a drawing of...
The study of a propeller or wing, is usually to optimize the geometry and speeds, in search of performance adapted to the operating conditions of the project.
memos are then very useful to compare the results after changes in parameters:

the screenshots editor:

Nothing new you might say... Except that we have an interface that allows us to manage copies of screens as a memo. Stored in tabs, it is convenient to see the different developments of our project propeller or wing in one click.

the notes calculations editor:

Calculation notes are created and will also serve as a memo. You can save and print these notes. It can be read in text format with notepad, or loaded into the editor notes calculations for comparisons.

A calculation of propeller in the editor's note:

the same notes open with notepad:
Diagrams angles, velocities and forces blade elements:

The calculation of induced velocities and forces on each blade elements is detailed in a descriptive scheme. A precise analysis of the results is therefore possible:

The multiple analysis can draw curves and collect performance "off design" of a determined propeller geometry. see: Multiple operating point

Research of the actual rotational speed (operating point) for electric motors and generators coupled to the propeller. see: Multiple operating point