



Propeller & Wing

Propellers propellant

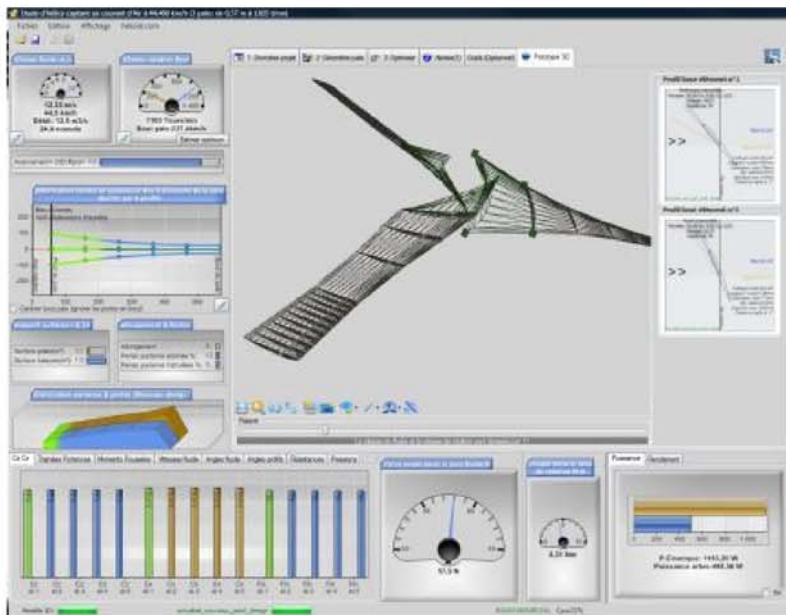
capture energy turbines

Software turbine propellers wings

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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:



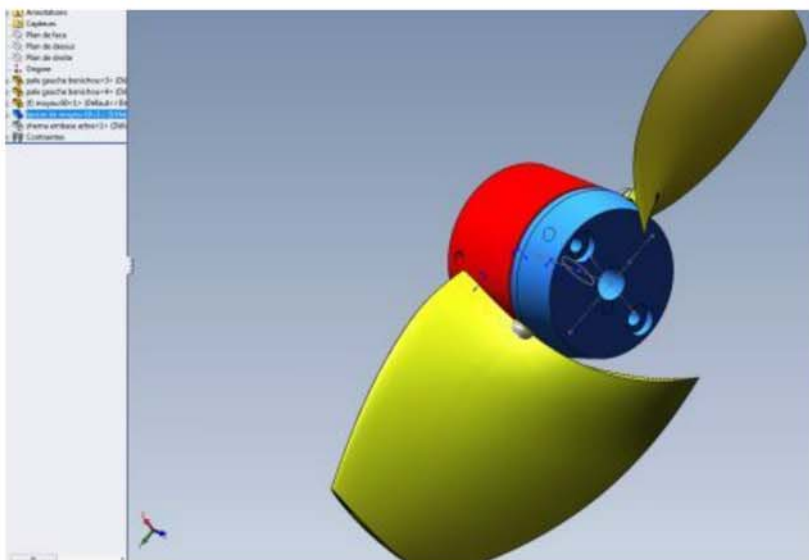
- **3D drawings of blades propellers are produced in IGS format for CAD**

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

Modeling aerial propeller in heliciel



Modeling boat marine propeller in heliciel



Modelisation helice ventilation dans heliciel



Modeling propeller ventilation in heliciel

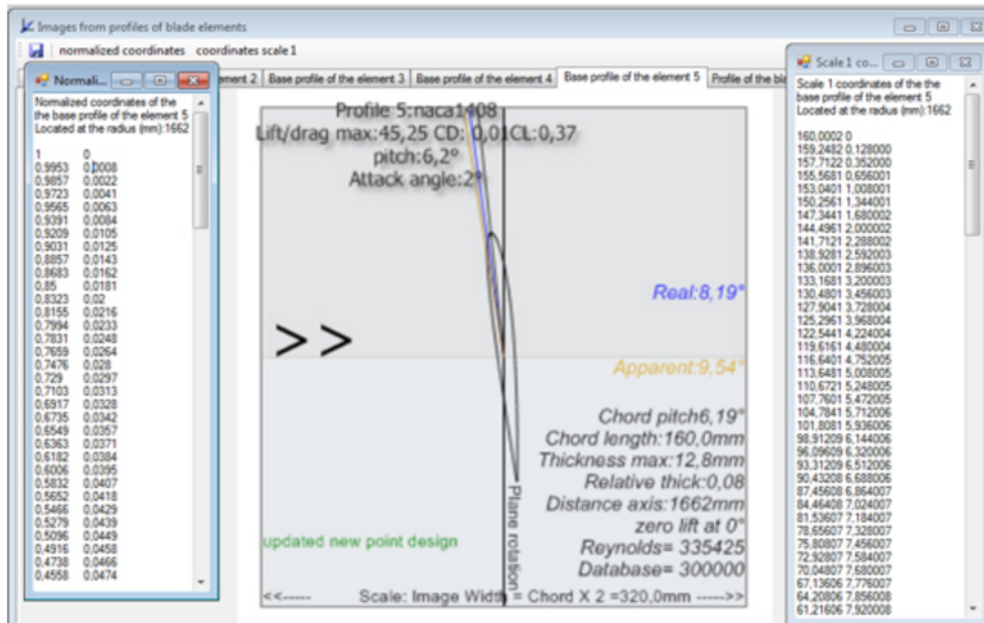


tidal turbine modeling in heliciel

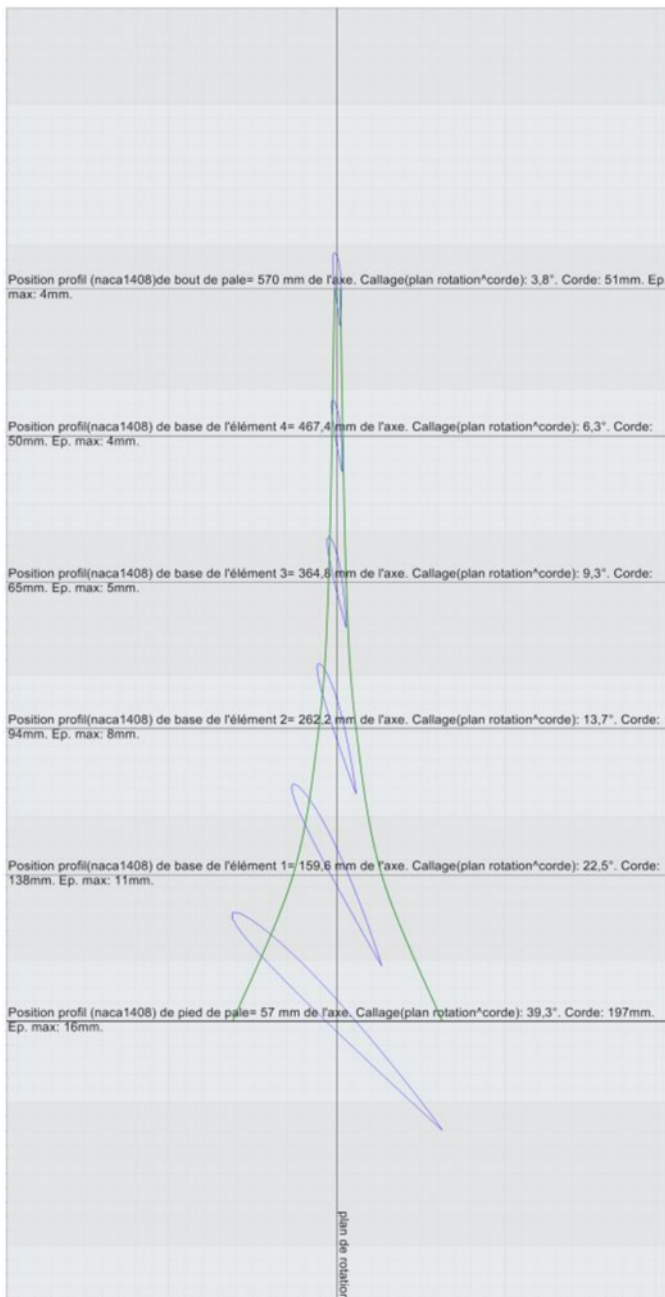


Kaplan propeller modeling in heliciel

blades and profiles:



- 2D drawing realization blade shows the positions of the profiles along the axis of blade:

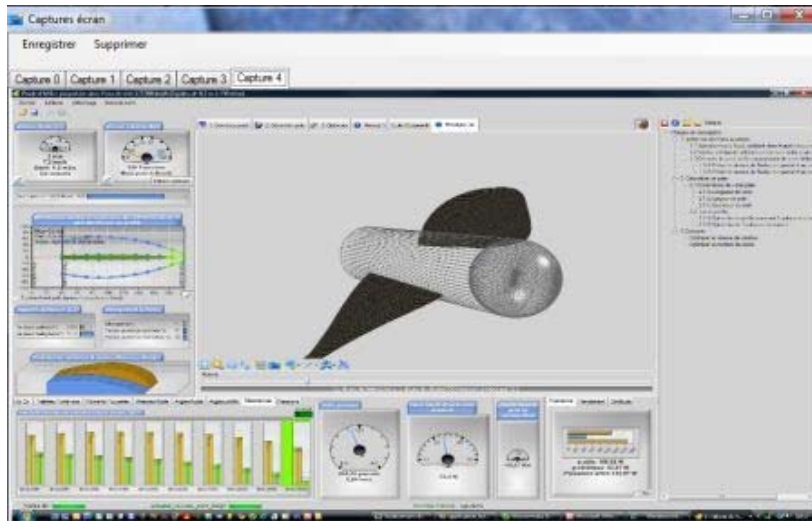


The study of a propeller or wing, is usually to optimize the geometry and speeds, in search of performance adapted to the operating conditions of the project. Notes and

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:**

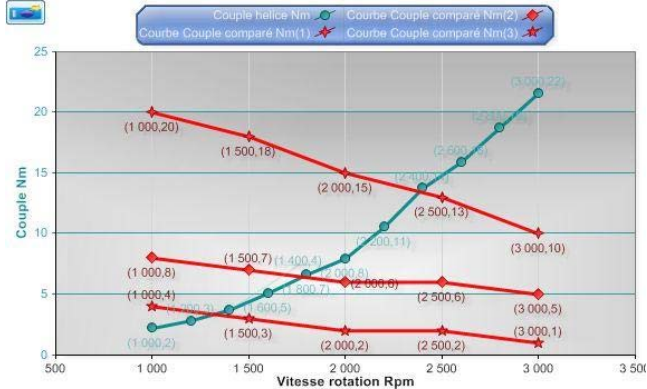
Calculation notes are created and will also serve as a memo. You can save and print these notes. It can be read in text format with notepad, or loaded into the editor notes calculations for comparisons.

A calculation of propeller in the editor's note::

Position	Rayon_rpr	Corde_cm	Angle_app	Angle_induit	Incidence	Galage	Cx	Cy	Finesse	Re_yale	Reynolds	Coef_fric	Coef_fricu	Induct_yale	Induct_u	F_Prand	Portance	Traînée	Poussée	Couple
Base el.1	40	109	74,1	86,9	7	93,9	1,040	0,008	127,3	832000	169403	0,0113	0,8079	0,023	0,460	0,988	---	---	---	---
Centre el.1	48	116	71,1	82,8	---	90,0	1,040	0,008	127,332	832000	181985	0,0230	0,6186	0,050	0,423	0,974	4,2	0,0	-0,5	-0,2
Base el.2	56	122	68,3	79,0	7	86,0	1,040	0,008	127,3	832000	194518	0,0394	0,4974	0,071	0,397	0,954	---	---	---	---
Centre el.2	64	126	65,5	75,7	---	82,8	1,040	0,008	127,332	832000	205917	0,0436	0,4144	0,087	0,378	0,929	5,0	0,0	-1,2	-0,3
Base el.3	72	129	62,9	72,5	7	79,5	1,040	0,008	127,3	832000	216086	0,0504	0,3543	0,101	0,363	0,901	---	---	---	---
Centre el.3	80	132	60,3	69,6	---	76,8	1,040	0,008	127,332	832000	224896	0,0560	0,3088	0,112	0,352	0,871	5,7	0,0	-2,0	-0,4
Base el.4	88	132	57,9	66,8	7	73,8	1,040	0,008	127,3	832000	232192	0,0606	0,2732	0,121	0,342	0,839	---	---	---	---
Centre el.4	96	132	55,6	64,1	---	71,2	1,040	0,008	127,332	832000	237767	0,0643	0,2444	0,129	0,334	0,806	6,3	0,0	-2,7	-0,5
Base el.5	104	131	53,5	61,6	7	68,6	1,040	0,008	127,3	832000	243513	0,0672	0,2204	0,134	0,326	0,772	---	---	---	---
Centre el.5	112	128	51,4	59,2	---	66,2	1,040	0,008	127,332	832000	248122	0,0693	0,2000	0,139	0,319	0,738	6,8	0,1	-3,4	-0,7
Base el.6	120	124	49,5	56,9	7	63,9	1,040	0,008	127,3	832000	242395	0,0705	0,1822	0,141	0,311	0,702	---	---	---	---
Centre el.6	128	119	47,7	54,6	---	61,7	1,040	0,008	127,332	832000	239089	0,0708	0,1664	0,142	0,303	0,665	7,0	0,1	-4,0	-0,7
Base el.7	136	113	45,9	52,5	7	59,5	1,040	0,008	127,3	832000	232949	0,0702	0,1521	0,140	0,295	0,627	---	---	---	---
Centre el.7	144	105	44,3	50,4	---	57,5	1,040	0,008	127,332	832000	223713	0,0685	0,1390	0,137	0,285	0,587	6,9	0,1	-4,4	-0,8
Base el.8	152	96	42,7	48,4	7	55,4	1,040	0,008	127,3	832000	211112	0,0637	0,1268	0,131	0,275	0,545	---	---	---	---

the same notes open with notepad::

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



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