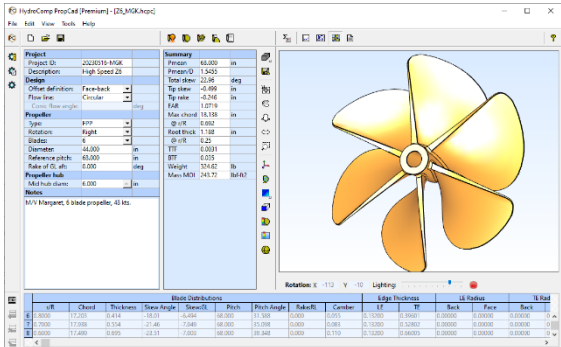


May 22, 2023

# HydroComp PropCad® 2023 Released

**New features include Blade Layout data and Offset smoothing tools**

HydroComp PropCad 2023 is the most advanced propeller design framework to date. With the 2023 release, PropCad users now have more control and feedback for their designs than ever before.



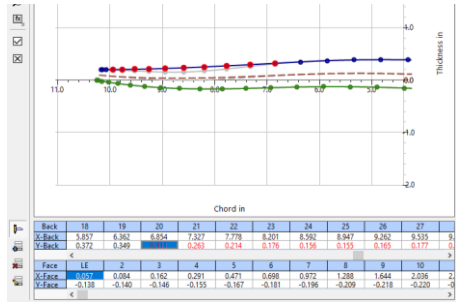
Pitch Plane Layout					
Total sweep	Total drop	LE arc sweep	TE arc sweep	LE drop	TE drop
0.483	0.238	0.689	0.206	-0.340	-0.102
3.108	1.548	2.294	-0.814	-1.143	0.406
5.100	2.573	3.738	-1.363	-1.886	0.687
8.183	4.237	6.332	-1.851	-3.279	0.959
11.958	6.536	9.909	-2.049	-5.416	1.120
14.766	9.080	12.915	-1.852	-7.941	1.139
14.839	10.428	13.186	-1.652	-9.267	1.161
13.729	11.256	12.280	-1.449	-10.068	1.188
11.744	11.554	10.504	-1.240	-10.334	1.220
9.213	11.330	8.190	-1.023	-10.072	1.258
6.498	10.656	5.705	-0.794	-9.354	1.302
3.949	9.712	3.400	-0.548	-8.363	1.349
2.217	8.724	1.870	-0.347	-7.360	1.364

## Blade Layout Group

A new group documenting the geometric position of the blade's outline in both expanded and project views is now available in the main Section table of PropCad. This provides users with better tools for physical blade layouts and gives feedback to users transferring legacy designs to the PropCad environment.

## Regression and Smoothing tools for 2D Offsets

PropCad 2023 enables new tools for manipulating and smoothing 2D offset data, including a multiple-fit point regression. These tools are available from the Offset Toolbar Edit button to the left of the 2D Offset table. These new tools provide users with a fast and efficient way to eliminate unfair regions from their designs.

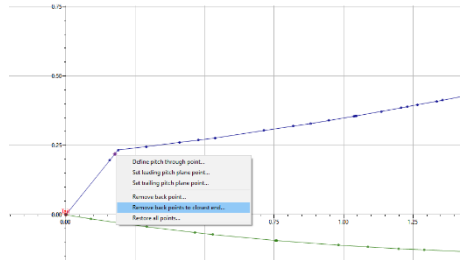


## Update to DNV-GL Rules for Blade Thickness

With the 2023 edition, PropCad's propeller blade thickness rules for DNV-GL now include explicit entry of propeller design thrust. This is an alternative to the simplified rule for estimating the propeller thrust, allowing users of PropCad 2023 to leverage their CFD analysis, model tests, lifting line codes, and other forms of calculation for use with PropCad's DNV ruleset calculations.

## Improved data extractions from CAD

One of PropCad's most popular features has been updated with more options for users to isolate the design data from existing 3D models of propeller blades. In addition to new menu items for removing leading and trailing edge data, the utility now offers automatic extrapolation of tip data via the PropCad 2D offsets distribution file (\*.sect). These improvements offer an unprecedented level of reliability and control when extracting design data from 3D models of existing propellers.



## **About HydroComp PropCad**

For additional information, click to: [www.hydrocompinc.com/solutions/propcad](http://www.hydrocompinc.com/solutions/propcad)

## **About HydroComp**

Since 1984, HydroComp has been a leader in providing hydrodynamic software and services for resistance and propulsion prediction, propeller sizing and design, and forensic performance analysis. Through its unique array of software packages and services, HydroComp now serves over 1200 naval architectural design firms, shipyards, yacht owners, ship operators, propeller designers, universities and militaries around the globe.

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