

April 10, 2026

HydroComp PropElements® 2026 What's New

New features for wake-adapted propeller design and analysis

Development in 2026 for HydroComp PropElements offers new technical features and workflow improvements.

Release Build 2026.1

Miscellaneous

- Added propeller parameter edge case checking.

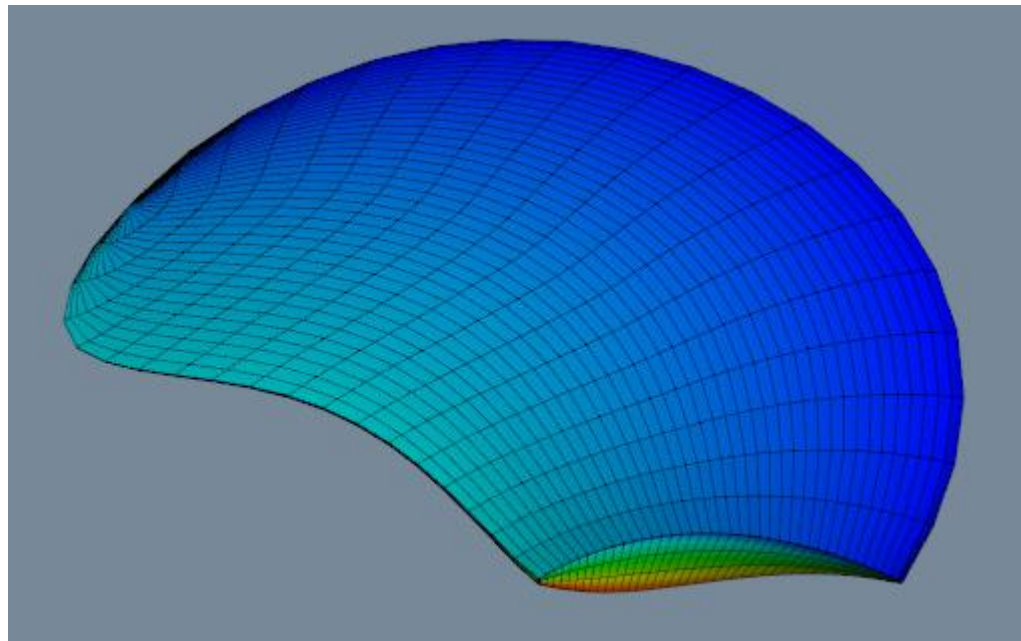
Release Build 2026.0 WIP

Miscellaneous

- Updated wake builder utility for axisymmetric submersible wake distribution
- Aesthetic and image export quality updates

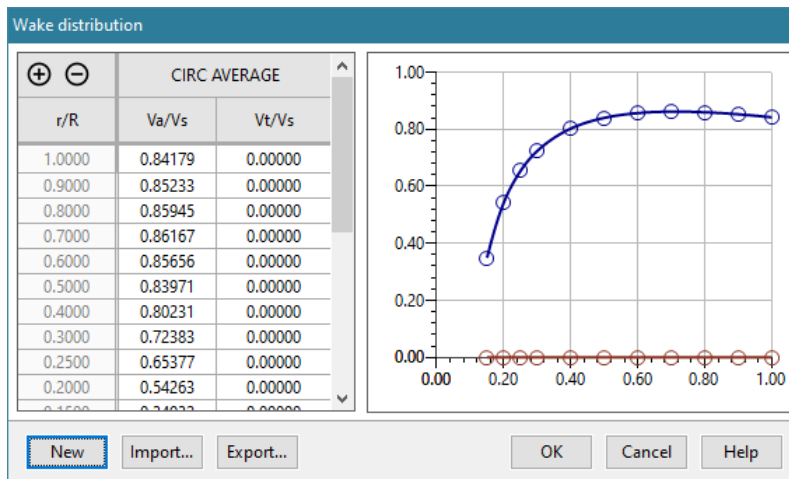
New NASTRAN Bulk Data File (BDF) export

The *NASTRAN Bulk Data File (BDF)* is a text-based finite element analysis (FEA) input file used to define a suitable structural model of the propeller blade for analysis. The format follows a structured syntax that is widely recognized by Nastran-compatible solvers and many pre- and post-processing tools.



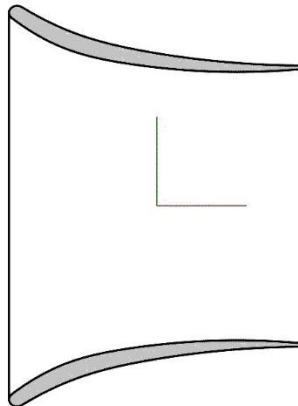
New shaft line boundary layer estimate for wake builder

Particularly useful for axisymmetric UV or podded drive applications, an update to the mean axial wake figures better resolves boundary layer velocity reduction.



Added new thin wall Diffuser nozzle type

A new *Diffuser* nozzle with a long-chord thin section has been added.



About HydroComp PropElements

For additional information, click to: www.hydrocompinc.com/solutions/propelements

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 1400 naval architectural design firms, shipyards, yacht owners, ship operators, propeller designers, universities, and militaries around the globe.

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