November 08, 2024

HydroComp PropCad® Version Comparison

Top new features added in version year

The following is a summary of significant features added to HydroComp PropCad during the referenced version year. Items indicated with asterisks (*) are considered critical major features.

2024

- Updated classification thickness rules ***
- Added Russian Maritime Register of Shipping rules for FPP and CPP ***
- New 3D export of maximum thickness position curve
- Added *Project Attachments* utility for improved data management of auxiliary files

2023

- Updated class rules, including DNV for user entry of specific propeller thrust ***
- New regression and smoothing tools for 2D Offsets table ***
- Improved face/back offset removal tools for Import Propeller CAD utility [Premium] ***
- Added new Blade Layout data group with geometric positions for blade construction
- Automatic tip section extrapolation for offset distribution files (*.sect)

2022

- Updated classification thickness rules ***
- Updated *Import Propeller CAD* with new options for defining pitch planes [Premium] ***
- Transformation tools for redistributing blade area based on axial hub length
- Added user control of trailing edge finishing for cleaver and surface-piercing propellers
- DNV-GL thickness rules integrated into Builder thickness options
- Improved support for transferring 2D offsets, including copy/paste

2021

- Updated classification thickness rules ***
- New blade trailing-edge trimming (with pressure side washback) utility [Premium] ***
- Added DNV-GL Classification thickness rules (CG-0039) ***
- Expanded compatibility for *.PFF propeller geometry file imports
- Improved report formatting

2020

- Updated classification thickness rules, including change to ABS Marine Vessel rules ***
- Improved program stability and speed ***
- Improved extraction speeds for *Import Propeller CAD* utility ***
- Render optimization and speed increase for Import CAD utility [Premium] ***
- Added Indian Registry of Shipping (IRS) Ice Class HA rules
- Optimized and improved the main 3D rendering window
- Additional propeller material visualizations and edge blending details

2019

- Updated classification thickness rules ***
- Support for NACA 16 and NACA 66 section type geometries. ***
- Docking/undocking of display window (2D/3D views and reports) ***
- Support for binary STL files for *Import propeller CAD* utility [Premium] ***

- Tools to revise pitch plane and resplining data for *Import propeller CAD* utility [Premium]
- Automatic removal of edges with *Import propeller CAD* utility [Premium] ***
- Reporting of Local Pitch Angle for section view

2018

- Updated classification thickness rules ***
- Automate propeller feature extraction with new *Import propeller CAD* utility [Premium] ***
- Improved geometric definition for parametric features of 2D foil shapes ***
- Updated drawing page title block and border for DXF export ***
- New export of ISO-484 inspection data file for propeller scan devices
- Miscellaneous: new rake definitions, improved 3D visualization

2017

- Updated classification thickness rules ***
- Expanded options for inspection maps ***
- Added classification rules for Indian Register of Shipping (IRS)
- Export option for including all blades for IGES
- Edge radius treatment for "Entered" section offsets
- Improved *Pattern Correction* outline stock method [Premium]

2016

- Updated classification thickness rules ***
- Introduction of PropCad *Premium Edition* (with Scan Converter, Pattern Corrections utility, CPP Spindle Transform, CPP Tip Clearance analysis, and floating network licensing)***
- Added inspection documents for thickness, local pitch, and location maps [Premium] ***
- Added support for defined pitch distributions within Scan Converter [Premium] ***
- Added MAU and MAUw propellers to Library propellers and presets ***
- Implemented SEA J775 and Metric ISO 4566 hub geometry rules ***
- Local pitch calculations and visualization on section plots ***
- Support for importing camber distributions and foil files
- Improved edge thickness distributions and cup model for thick trailing edges
- Additional dimensions and options for 2D drawing, including custom paper sizes

2015

- Updated classification thickness rules ***
- Improved BV/RINa class thickness report
- Added LR Naval and LR Ice Class rules
- Added Swedish-Finnish (Baltic) rules for ice class vessels.
- "New from existing" process for derivative designs

For more information, please contact:

HydroComp, Inc.
5 Penstock Way Suite 101
Newmarket, NH 03857 USA
Tel (603)868-3344
info@hydrocompinc.com
www.hydrocompinc.com