



Rhino Marine

YACHT DESIGN SOFTWARE



Design & Analysis Tools

RhinoMarine is built on the powerful Rhinoceros® 3D software, providing tools for modeling, analysis, rendering, manufacturing, and drafting. Rhino includes tools for creating, editing, and analyzing NURBS curves, surfaces, and solids, with no limits on complexity or size.

Design Without Restrictions

Thousands of marine designers and builders around the world have discovered the ease-of-use and power of the Rhinoceros 3D modeling software, improving and accelerating their design and manufacturing process. There is no easier way to create a complete 3D model of your design than with Rhino. Free-form curves, surfaces, and solids are easily created and shaped, without any restrictions. This means that you decide what your design will look like, not the software.

Get Your Work Done

The RhinoMarine plug-in makes Rhino even easier and more productive for marine design. With seamless integration of marine functionality into Rhino, RhinoMarine allows you to bring more of your design and manufacturing process into a single environment, meaning you need to learn and use fewer programs to get your work done, saving time and loss of information in translating files from one computer to another.

- Create fair hulls quickly and easily using RhinoMarine's "Hull Wizards" or loft them from 2D curves
- Modify and fair these hulls with intuitive tools for shaping the surfaces and evaluating fairness
- Easily compute complete intact hydrostatics and stability
- Evaluate the effect of adding, moving, or deleting weights on your design's flotation and stability
- Predict the speed of hard-chine planing hulls
- Automatically track the weight, center of gravity, and cost of your design



for the Marine Industry



Uninhibited Free-Form Design

RhinoMarine is a plug-in for the popular and powerful Rhino 3D modeling program, adding marine-specific functionality to Rhino's already amazing set of capabilities.

With Rhino, you can start with a sketch, drawing, physical model, or only an idea—Rhino provides the tools to accurately model your designs ready for rendering, animation, drafting, engineering, analysis, and manufacturing. Rhino can create, edit, analyze, and translate NURBS curves, surfaces, and solids in Windows. There are no limits on complexity, degree, or size. Rhino has uninhibited free-form 3-D modeling tools like those found only in products costing 20 to 50 times more. Accurately model any shape you can imagine.

Fast Accurate and Compatible

Of course Rhino has the accuracy needed to design, prototype, engineer, analyze, and manufacture your design, and it is compatible with all your other design, drafting, CAM, engineering, analysis, rendering, animation, and illustration software.

One of the key benefits to using RhinoMarine is that more of your design process is consolidated into a single environment. Beyond the design and analysis of the hullform, with Rhino you can model the entire vessel accurately in 3D, including the deck, superstructure, complex transoms, cockpit, and the interior.

The accurate 3D model can then be leveraged into other areas for even greater productivity, such as:

- **Photorealistic Rendering:** With the Flamingo plug-in, you can quickly generate beautiful images of your design, complete with water, background images, and realistic lighting, shadows, and reflections. Not only can this rendering guide your design process, but your customers love the ability to "see" the yacht before it is built.
- **Animation:** The Bongo plug-in animates your design so that you can study the interaction of parts of the model. For example, the lifting of a tender from the deck into the water can be simulated. Bongo can also be used to create rendered fly-throughs of the vessel.
- **Manufacturing:** An accurate 3D Rhino model can support manufacturing in many ways. For example, accurate frame and bulkhead shapes can be created, and the data used by a numerically-controlled (N/C) router to cut the parts. The surfaces in the model can be created in full-scale with 5-axis N/C routers. Plug-ins such as RhinoNest and RhinoCAM allow all of this to be done from within the Rhino environment.

Photos and Renderings courtesy of:
J/Boats, Inc.
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