



Software Solutions for Naval Architecture & Shipbuilding

NDAR - Mission Statement

To team up, partner and excel as one with our customers and partners, maximize productivity and always be a step ahead !

SOFTWARE

- Naval Architecture ⚙
- Design ⚙
- Engineering ⚙
- Production ⚙
- Enterprise Systems ⚙
- PLM ⚙

TRAINING

- ⚙ Hands-On
- ⚙ Strategy & Analysis
- ⚙ Specialized
- ⚙ Project specific

CONSULTING

- Business Process Assessment ⚙
- Implementation Consulting ⚙
- Process Development ⚙
- Project Strategies ⚙
- Teamwork Optimization ⚙
- Workflow Optimization ⚙

SUPPORT

- ⚙ Project Support
- ⚙ Project Assistance
- ⚙ Continued Proficiency
- ⚙ Collaborative Organization

Founded in 1983, today **NDAR** offers comprehensive software solutions for Ship Design, Naval Architecture and Shipbuilding, fully integratable with existing systems. The **NDAR Design/Naval Architecture Solution** adds specialized plug-ins Orca3D, ExpressMarine, VisualARQ etc. to the Rhino3D platform, integrated with GHS, ShipWeight, MAESTRO, NavCad, Altair, etc. and the NDAR Shipbuilding Solution.

The **NDAR Shipbuilding Solution** builds on the AutoCAD/Autodesk platform with ShipConstructor, the realistic, 3D solid modeller AutoCAD plug-in, whose relational project database manages the AutoCAD modelling environment, output, deliverables, sisterships, series of

ships, platforms, submersibles, etc. to generate Digital Prototypes, as-built Digital Twins, PLM data and supports on-board operations, refits, conversion, etc.

Moreover, ShipConstructor feeds the one-of-a-kind SSI ShipbuildingPLM environment, integrated with formal PLM solutions.

NDAR purposely teams-up with other recognized specialists and seeks highest quality/cost ratio results by continually challenging, comparing and relentlessly testing against real-world situations. Not least, we place people first at NDAR, they are the diamond tip that delivers value with experience, innovation, flexibility, adaptability and creativity.





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SSI ShipConstructor

ShipConstructor is a complete line of solutions for the design, engineering, and construction of ships and offshore projects. Via the EnterprisePlatform, it directly supports the PLM ecosystem.



SSI ShipbuildingPLM

ShipbuildingPLM is the only product lifecycle management (PLM) platform that is specifically built for the business of shipbuilding.



GHS by Creative Systems

A most comprehensive, uniquely versatile and powerful stability calculator covering the marine domain with integrated probabilistic damage, seakeeping, longitudinal strength and 2nd generation intact stability tools.



Rhino3D by McNeel

The ultimate industry standard general purpose CAD 3D modeler. Its NURBS-based surfaces and SubD modelling is used directly by most other marine software.



Orca3D

Naval Architecture in Rhino3D including hull design, hydrostatics, compartmentation, fluid loads and free surfaces, intact & damaged stability, resistance prediction, weight tracking.



ShipWeight by BA Software

A unique collection of Weight & CG Estimation, Tracking and Monitoring tools connected with Naval Architecture tools (NAPA, GHS, Orca3D, etc.) and ShipConstructor.



HydroComp NavCad®

NavCad is the premier hydrodynamic and propulsion system simulation tool, providing powerful systems engineering calculations for the Vessel-Propulsor-Drive performance of marine vehicles.



SSI EnterprisePlatform

EnterprisePlatform makes the enormous wealth of engineering information present in every shipbuilding project available across the organization custom configured and in full automation.



MAESTRO Marine

MAESTRO is a design, analysis, and evaluation Finite Elements tool specifically tailored for water-bound structures that offers unique tools for rationally-based structural design, including integrated hydrodynamic loads.



Enscape3D

Enscape is a real-time rendering and virtual reality plugin for Revit, SketchUp, Rhino, Archicad, and Vectorworks. It plugs directly into your modeling software, giving you an integrated visualization and design workflow.



VisualARQ

Architectural design software which enhances Rhino by adding powerful architectural objects, styling and dynamic documentation tools. Also runs inside Revit



Orca3D Marine CFD

Combination of the Orca3D marine design plug-in for Rhino and the Simerics Multi-Phase CFD software, providing a fast, accurate, and easy-to-use CFD solution for the naval architect.



ExpressMarine by BA Software

Rapid parametric structure modelling inside Rhino3D, produces weight & cg reports, material take-off, volumes, exports to ShipWeight, ShipConstructor and NAPA.



HydroComp PropElements®

PropElements is an efficient wake-adapted propeller code that provides an optimizing design and analysis capability including benchmarking and full 3D preparation for CFD.

NDAR Member of



NDAR

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