

## Marine Software Solutions



A COMPLETE AND  
INTEGRATED SOLUTION  
FOR **SHIP DESIGN AND  
SHIPBUILDING**  
NETWORKS – FROM  
INITIAL AND BASIC  
DESIGN TO ASSEMBLY,  
CONSTRUCTION, AND  
**BEYOND**

## Digital Revolution by Data-Driven Shipbuilding (4.0)

The Shipbuilding industry is currently undergoing a digital revolution that is creating and transforming business models and value chains.

Cadmatic is increasingly embracing the immense possibilities offered through Shipbuilding 4.0 by advanced digitalization in the shipbuilding life cycle.

At CADMATIC, we are leading the charge to assist our customers to optimize the way ship design and shipbuilding is conducted. These efforts are guided by our vision of a transformed shipbuilding industry, one that is driven by data.

## Cadmatic Collaboration around the globe for Naval Defence.

- Cadmatic Marine design software solutions collaborated with Damen Schelde Naval Shipbuilding, Netherlands for SIGMA Class Corvette project
- A class minehunter vessels built at Abeking & Rasmussen Shipyard – Germany for Turkish Navy in collaboration with Cadmatic Software
- Cadmatic Design Solutions contribution for Commercial and wide range of Marine Crafts like Multipurpose Coast Guard Patrol vessels and Mine Countermeasure vessels have gained global reputation.

**Hull Basic Design** - 3D modeling of the entire hull structure starting from hull surface import up to a complete project. Alongside 3D modelling, General Arrangements and other drawings can be generated and information for class approval prepared.

**Hull Detailed Design** - The core module of the CADMATIC Hull Application used for 3D modeling of the hull structure from basic design up to detailed and production engineering of hull blocks, assemblies, panels and parts.

**Hull production Information** - Accurate, automatic and customizable output for hull production suitable for any manufacturing process. It includes interfaces and solutions that support automatic production, prefabrication and assembly lines.

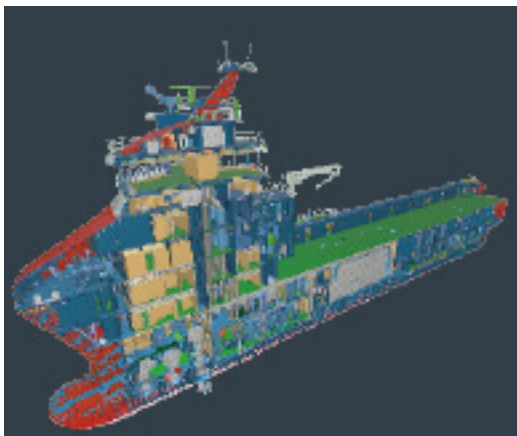
**Hull Viewer** - A unique tool for fast 3D hull model inspection with flythrough, orbit and spinning visualization. It helps to define work packages and organize the work breakdown structure.

**Shell Plate Development** - Develop shell plates in 3D and extract complete production data extremely accurately.

**Plate Nesting** - The CADMATIC Plate Nesting module is used to nest part geometries fully automatically and to optimize the use of raw plate materials to minimize material waste.



CADMATIC Hull design software offers a CAD/CAM software solution for hull design, starting from basic design and creating documentation for classification to a complete 3D detailed model and automatic extraction of production data for projects of any complexity.



CADMATIC Marine Outfitting and Piping offers specification-driven 3D design in distributed, multidisciplinary engineering projects.

**Diagram, P&IDs** - Create, manage and modify a wide variety of process flow, schematics, P&IDs, electrical or cabling diagrams.

**Outfitting Basic Design** - Integrated, database-driven design module that provides powerful tools for 3D layout- piping-, HVAC-, electrical- and outfitting structural design of ship and offshore projects.

**Outfitting Detailed Design** - All the functionality of detailed 3D modeling - creating 3D models, layout of equipment, routing pipes, HVAC and cable trays, structural units, containment management and model templates. Additionally, it includes a full package of modules for generating production information.

**Outfitting production information** - Generates various types of data for outfitting production: layout drawings, isometrics, spools, units for prefabrication and direct exports to CNC machines.

**Laser Scans in Marine Projects** - Integrated solution for seamless use of data from laser scanners to 3D models and production data. It boosts the use of laser scanning technologies in design projects. Utilize point clouds directly in 3D with the use of familiar design tools.

**CADMATIC**  
Linnankatu 52 A  
20100 Turku, Finland

email: [sales@cadmatic.com](mailto:sales@cadmatic.com)  
website: [www.cadmatic.com](http://www.cadmatic.com)

Branch Office:  
Mumbai, Goa, Bangalore  
Tel: +91 22 25410715

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