

PTC CADD5 5 Shipbuilding and Design Option

A powerful, comprehensive and specialized set of design capabilities for the shipbuilding industry. This package includes all the necessary structural and outfitting capabilities as well as a powerful NURBS surface design for complex hull surfaces.



Solution overview

Database management tools are also included to manage all of the information created during the product development process, and the design data can be conveniently stored in a local database or in a company's Oracle or Optegra database.

Benefits

- Comprehensive capabilities enable you to complete the entire shipbuilding design task using a single product family - leveraging a common user interface and dataset improves design efficiency
- Optimizes multi-disciplinary systems design
- Improves collaboration efficiency of large design teams, supporting multiple, concurrent users and ensuring design consistency

Capabilities

This package includes:

PTC CADD5 5 Piping and Outfitting Design Option

PTC CADD5 5 Piping and Outfitting Design Option provides all the tools needed for the design and manufacturing planning of piping systems, including Piping and Instrumentation Diagrams (P&ID), isometric piping layouts and the routing of 3D pipe-runs through 3D product assemblies. This package also includes all the outfitting tools required so that the designer can add brackets and fixing to support the designed pipe-runs.

PTC CADD5 5 Structural Steel and Hull Design Option

PTC CADD5 5 Structural Steel and Hull Design Option includes a broad array of tools to facilitate the design of structural steel including all the manufacturing data, e.g. drawings, NC output, required in the design and manufacture of fabricated steel products, including plants and ships. Unique capabilities include the ability to design not only linear section beams, but also curve or twisted members. This package includes specific additional capability focused at the design and manufacturing of ship structural steel and hull, including industry specific drawing and manufacturing outputs.

PTC CADD5 5 HVAC and Outfitting Design Option

PTC CADD5 5 HVAC and Outfitting Design Option provides tools to support the development of major HVAC (Heating, Ventilating and Air Conditioning) systems and their support structure, including calculating flow requirements, using ASHRAE specifications if required, balancing the system to optimize performance and generating manufacturing output data.

PTC CADD5 5 Electrical and Outfitting Design Option

PTC CADD5 5 Electrical and Outfitting Design Option provides capabilities to support the development of major Ship Electrical systems, including cabling schematics, 3D cableway networks, 3D routing of cables and the cableway support structures. This application also supports multiple, concurrent users and maintains consistency through an Oracle database. This database may then be used to interface to 3rd party cable management software.

NURBS Surface Design

- NURBS Surface Design is a powerful implementation of Non-Uniform Rational B-Spline (NURBS) technology for interactive sculptured and free-form surface modeling.
- The accuracy and flexibility of NURBS Surface Design software provides an ideal solution for

the design of a wide range of unique surfaces, including automobile bodies, aircraft fuselages, ship hulls, and consumer products.

EDM Information

EDM Information is an Oracle Database utility that provides a mechanism for non-geometric data to be stored & retrieved from within PTC CADD5 5.

The PTC CADD5 5 Concurrent Assembly Option is optionally available for additional assembly design capabilities, flexibility, and scalability.

Platform Support

CONTACT US

For more information about PTC CADD5 5, visit

www.ptc.com/products/cadd5-5

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