



## Accurate Tri-Dimensional Replication of As-Built Ships

SCDS developed a leading-edge technology for digitization, geometry creation and reverse engineering of ship and offshore structures.

### Technological Features and Performances

- o Very quick non-contact tri-dimensional sensing (laser scanning) and solid model creation
- o Point distance accuracy within 2 mm and better, depending on the modeling approach
- o Creation of high quality lofts (NURBS-based)

### Efficient Solutions for:

- o Deriving the physical instability and deviations directly from the raw data (collected point clouds)
- o Very fast creation of accurate geometries, which are perfectly suitable for FEA/CFD
- o Combining different ranges of scanning and accuracies, ensuring their compatibility and creating multi-range model spaces with all detail levels
- o 2D/3D Modeling of Hull, Engine Room, Decks, Pilot House
- o Interior Design and Layout Modeling
- o Meshing for Structural/Dynamic Analysis and Simulation, Design and Construction
- o Repairs, Upgrades, Ships Retrofit, Restoration, Re-engineing

### Available Export Formats:

- o DXF/DWG, IGES, STEP, STL
- o ASCII: XYZ, TXT, PTS

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