

## 3D Design Approval



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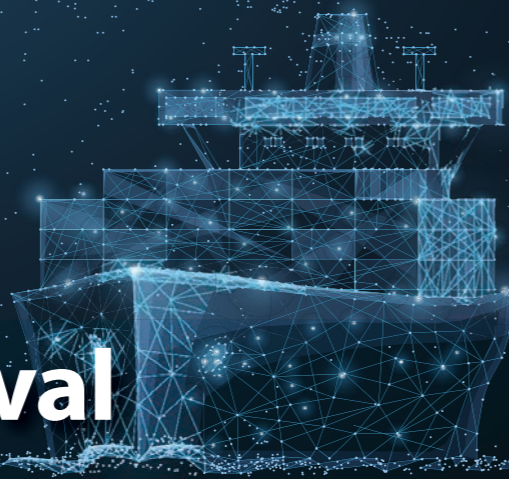
### KR ICT Solution Team

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# KR Software 3D Design Approval







According to international conventions and government inspection rights, ship designs must be checked for stability, following the technical rules of classification society.

Traditionally, classification societies have reviewed and approved ship designs by exchanging 2D drawings and documents with the shipyard. At present, digital drawings and documents are being exchanged. As such, the Korean Register (KR) offers KR-EDAS (Electronic Design Approval System), a 2D-based electronic drawing review and approval system.

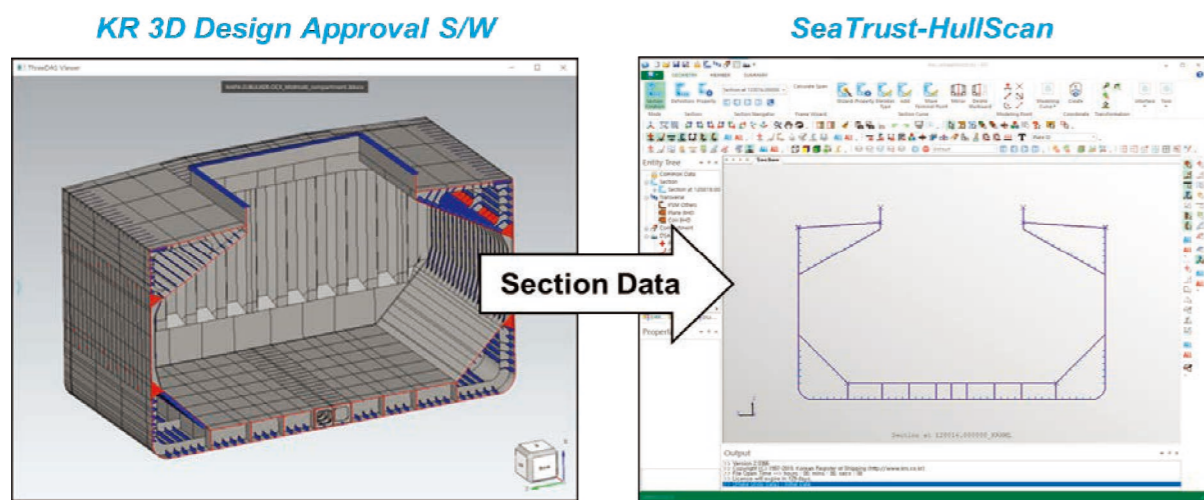
Recently, most shipyards have transitioned from 2D- to 3D-based designs. Hence, KR has developed a design approval system based on 3D drawings.

## Benefits

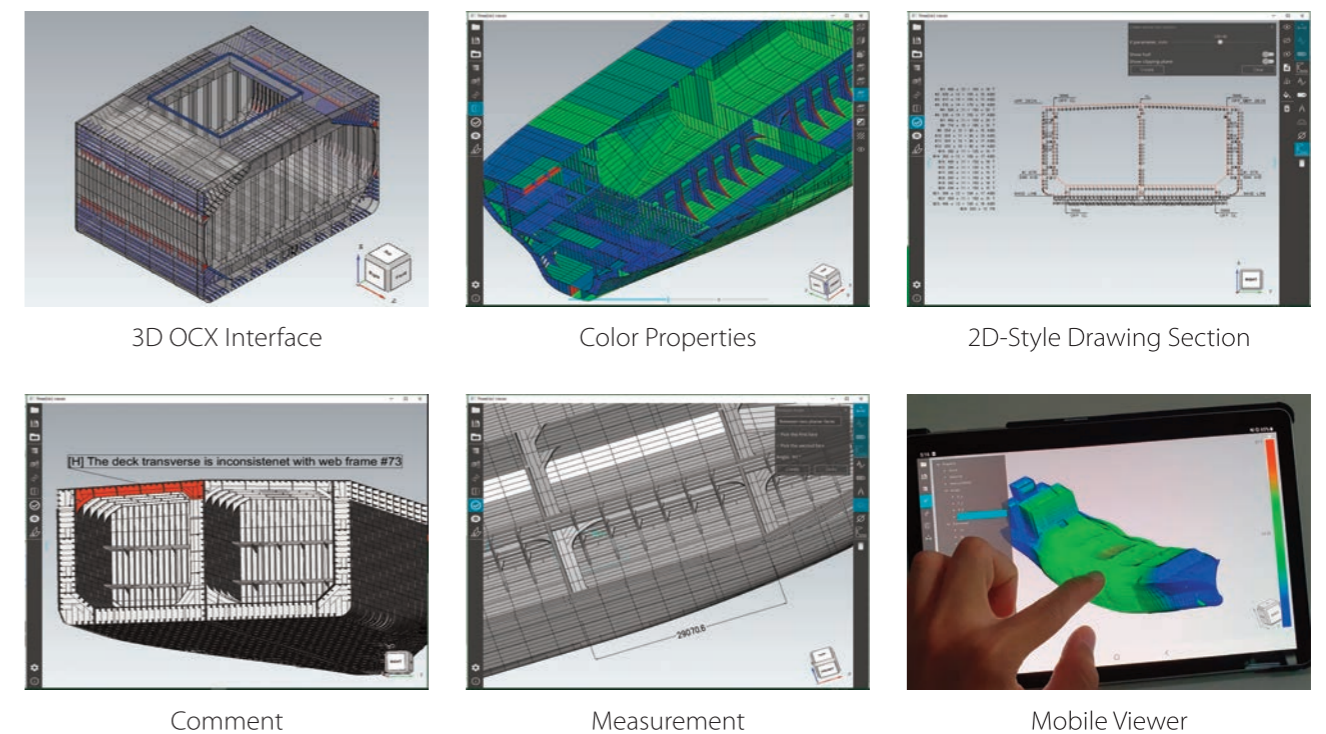
 <p>Improved ship representation through 3D shape</p>	 <p>Safer inspection through various information of 3D drawings</p>	 <p>Various data from across the system will be utilized as a digital twin throughout the ship's life cycle.</p>	 <p>Increased shipyard productivity</p>
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## KEY FEATURES

- Provides a high-performance 3D viewer that handles a ship's 3D model
- Uses text or color to graphically represent properties such as thickness, size, type, and material
- Visualizes the entire ship's 3D shape at a glance or the selected objects or areas
- Displays information and calculation results linked to each element of a ship's 3D shape
- Creates, edits, and manages comments
- Measures dimensions, such as distance and angle, between each structural member
- Extracts 2D-style drawings from a ship's 3D shape in runtime
- Calculates rule scantling by the interface to SeaTrust-HullScan, the structural evaluation software of KR
- Offers a simple mobile viewer
- Interfaces 3D OCX\* format for data exchange of 3D ship drawings  
\*Open Class 3D Exchange is a neutral format for exchanging 3D CAD with the classification and shipyard



Rule Scantling with SeaTrust-HullScan



3D OCX Interface

Color Properties

2D-Style Drawing Section

Comment

Measurement

Mobile Viewer