



REFIT & CONVERSION

— Design & Consultancy —



Excellence

Award winning ship design recognised by leading industry bodies.



Experience

Over 750 vessels built and more than 350 conversions successfully completed.



Global

An international team of experts with experience on all seven continents.



Solutions

Comprehensive experience covering design, contracting, construction, delivery and through-life services.



Guidance

Independent advice covering contract negotiations, planning, cost-evaluation and review of drawings and specifications.



Dedication

Our consultancy services ensure support throughout the entire lifetime of a vessel.

"We began to work with KNUD E. HANSEN, when we needed an HVAC specialist for the Queen Elizabeth Class. They performed very well for us and we've gone on to work with them on other projects as a result. In particular, KNUD E. HANSEN showed themselves to be incredibly flexible, willing to mobilise as many people as we needed, wherever we needed them to be. I attribute this adaptability to the close-knit, trusting relationships between personnel. The culture at KNUD E. HANSEN ensures total efficiency."

SHANKAR RASHIA, AERIUS

"KNUD E. HANSEN showed themselves to be very professional and totally dedicated to our project. Our cooperation could not have been better. We started out with one A4 page of specifications and, from this, KNUD E. HANSEN quickly developed the entire yacht."

PER BLINKENBERG-THRANE, 24 M EXPLORER TYPE MOTOR YACHTS

"KNUD E. HANSEN designed a total of 18 ships for my family's company. We spent countless days discussing our dreams, aspirations and passions. The relationships we developed became so personal that design decisions became automatic. The creativity and talent in KNUD E. HANSEN is boundless. KNUD E. HANSEN provided us with precision, accuracy and consistent quality. We knew we had a reliable design to work on. And, of course, the personal attention was outstanding – we felt we were one big family."

ALEX PANAGOPOLOUS

REFIT & CONVERSION, DESIGN & CONSULTANCY



DESIGN & CONSULTANCY

Ship conversions are efficient and cost-effective means of improving the capabilities of existing vessels. KNUD E. HANSEN has completed over 350 conversions projects and over 1000 feasibility studies, giving us unparalleled experience in this field.

We are intimately familiar with all aspects of the conversion process and can perform work involving midbody insertions, deck additions, re-purposing, re-powering, life extensions and refurbishments, dual fuel and green power upgrades, and much more.

KNUD E. HANSEN is active in every stage of the conversion process, from initial design studies to yard tendering to onsite shipyard support, allowing us to ensure that each project is completed on time, within budget, and to the highest industry standards.

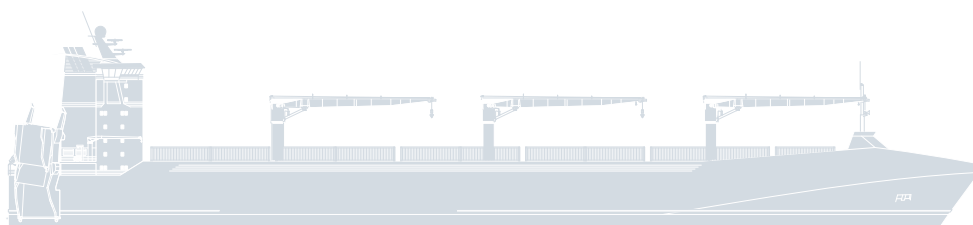
We understand that preparation is the key to success and that it is better to revise a design on paper than it is to attempt to change it in steel later. We therefore work closely with vessel owners throughout the conversion process to understand their needs and define their requirements, ensuring that the finished vessel will meet their expectations.

NOTABLE PROJECTS

- Stena Britannica - RoPax 30 m lengthening and deck addition
- Höegh Kobe/Chiba/Kyoto - PCTC 19.2 m lengthening
- RoPax feasibility - 30 m lengthening and vehicle deck addition
- Conversion of liner France to cruise ship Norway
- Conversion of Marco Polo
- Saga Sapphire - new balcony cabins, disabled access
- Superfast VII, VIII and X
- Elyros, Lefka Ori, Sophocles V - upgraded from domestic Japanese rules to SOLAS rules
- Awassi Express - container ship to livestock carrier conversion
- Conversion of M/V Spitsbergen



Converted Stena Britannica ►





CONVERSION PROCESS

DECREASING DESIGN FREEDOM

PREFAB / PRODUCTION

FEASIBILITY/CONCEPT

- Define objectives, constraints, success criteria
- Basic checks
- Specification
- Approval in principle

BASIC DESIGN

- Drawings & calculations for IMO & class requirements

DETAIL DESIGN

- Workshop drawings
- Parts lists
- Plate cutting/nesting
- Pipe isometrics
- Coordination

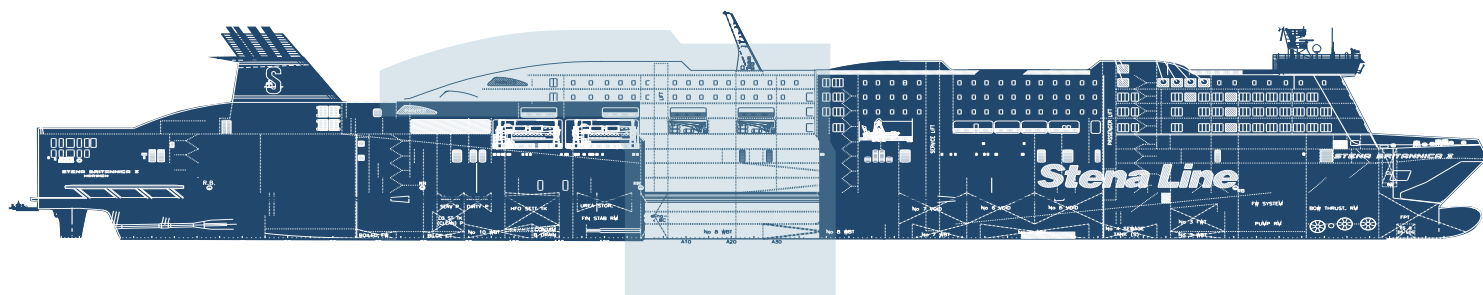
CONVERSION

YARD TENDER

APPROVAL

CONSULTANT INVOLVEMENT

CLASS INVOLVEMENT

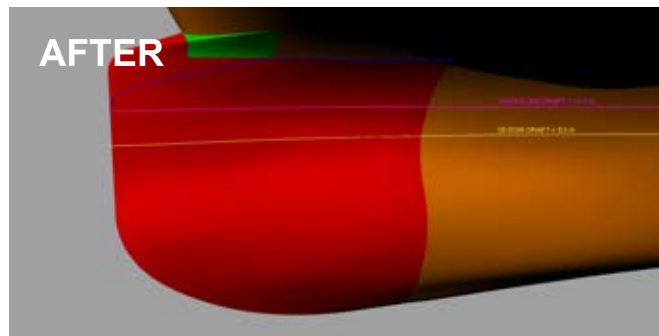
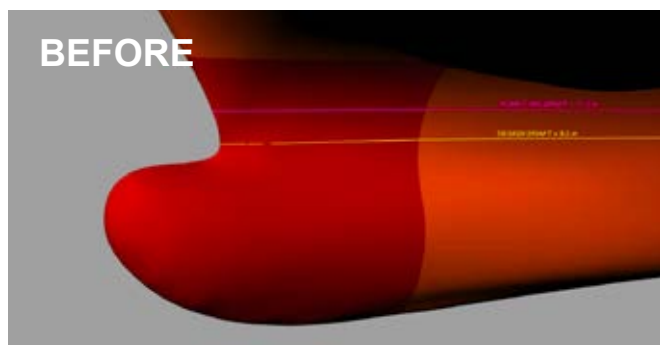




REDESIGNED A BULBOUS BOW, REDUCING FUEL CONSUMPTION

Thanks to our long history of advisory work at the IMO and through conducting of industry research projects, we have developed strong relationships with major classification societies and flag states.

This positions us perfectly to deal with the intricacies of regulatory requirements, no matter how complex. We advocate class and flag participation in the process as early as possible, in order to ensure approval in principle, for the fastest possible project execution.



KNUD E. HANSEN, A LEADING INDEPENDENT CONSULTANCY

... providing a comprehensive range of design, engineering and project management services to shipyards and ship owners around the world.

Our innovative, customised solutions cover areas ranging from concept, tender/contract & basic design, to supporting the building and conversion process of all types of maritime vessels and offshore structures, to

energy optimisation and services for the offshore wind industry.

Since 1937, over 750 vessels have been built and over 350 conversions carried out to our designs. In addition, more than 450 hull lines have been developed and thousands of surveys, feasibility studies and other projects undertaken.





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