



## **REFERENCE LIST**

Our references comprise a large number of projects for a wide range of customers and across various disciplines:

- **Project Management**
- **Steel Design and Structural Calculations**
- **Outfitting Design**
- **Shell Doors**
- **Ship Design**
- **Supervision and Consulting**
- **Offshore**

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## **PROJECT MANAGEMENT**

**Lürssen Kröger Werft**  
*Schacht-Audorf, Germany*

**Project Management**  
**Outfitting Design**

*75 m Megayacht*

Project co-ordination within the Hull Outfitting Design Dept. of the building yard, responsible for technical clarification, internal co-ordination and schedule follow-up for all hull outfitting activities.

**EnPro GmbH**  
*Bremerhaven, Germany*

**Project Management**  
**Outfitting Design**

*74 m & 82 m Megayachts*

Project co-ordination of the delivery and installation of turn-key exterior pool and whirlpool systems, including engineering support.

**Thomas Klein Schwimmbadbau (Group<sub>2</sub>O)**  
*Langenhagen, Germany*

**Project Management**  
**Outfitting Design**

*67 m Megayacht*

Project co-ordination of the retrofitting of exterior pool water-treatment and outfitting systems, including engineering support.

**Kusch Yacht Bau GmbH**  
*Wewelsfleth, Germany*

**Project Management**

*130 m Megayacht*

Technical management and co-ordination of the steel design and fabrication for a diesel-electric Megayacht, preparation of hull outfitting drawings.

**Münchmeyer Petersen Marine (MPC)**  
*Hamburg, Germany*

**Project Management**  
**Documentation**

*IRISL 2 200TEU Container Ship*

Support of the Project Management Team in the area of technical procurement German-English translation of shipyard procedures and standards (Nordseewerke Emden).  
German-English translation of parts-list databases (Nordseewerke Emden).



**Flender Werft AG**  
*Lübeck, Germany*

**Project Management**

*RO-PAX Ferry Smyril Line M.F. NORRÖNA*

Project Management, Contract Management, co-ordination of statutory approvals and inspections.

*RO-PAX Ferries SUPERFAST XI/XII*

Post-delivery Contract Management.



## **STEEL DESIGN AND STRUCTURAL CALCULATIONS**

**abh Ingenieur-Technik GmbH**  
*Emden, Germany*

**Steel Design**  
**FEM-Calculations**

*855 TEU Container Ship (GL)*

Class strength calculations, preparation of steel classification drawings, calculation and evaluation of local vibrations, generation of a complete Poseidon FEM-model.

*4 500 tdw General Cargo Ship (GL)*

Preparation of steel classification drawings, FEM-calculations.

*5 500 tdw General Cargo Ship (GL)*

Preparation of steel classification drawings, FEM-calculations.

*3 600 tdw General Cargo Ship (GL)*

Preparation of steel classification drawings, FEM-calculations.

*65 m Cutter Section Dredger (GL)*

Preparation of steel classification drawings, FEM-calculations.

*2 800 TEU Containership (GL)*

Class strength calculations, preparation of midship section and shell expansion, FEM-calculations, local vibration calculations, consultancy services relating to structural design and strength calculations.

*1 300 TEU Container Ship (DNV)*

Dimensioning and preparation of midship section, FEM-calculations.

*12 000 tdw Heavy Cargo Ship (GL)*

Design of cargo platforms, FEM-calculation of crane supports.

*29 400 tdw General Cargo Ship (GL)*

Class strength calculations, preparation of midship section and shell expansion, FEM-calculations, consultancy services relating to structural design and strength calculations.

**P3 digital services**  
*Hamburg, Germany*

**Steel Design**  
**FEM-Calculations**

*7 350 m<sup>3</sup> Hopper Suction Dredger (Sietas Werft)*

*160 m Heavy Lift Vessel (Sietas Werft)*

Preparation of design sketches, classification drawings and FEM-calculations.



**Schichau Seebeck Shipyard GmbH**

*Bremerhaven, Germany*

**Steel Design**  
**FEM-Calculations**

*€-Pax 4000*

Dimensioning of midship section and FEM-Calculations for a 4000 Lane-Metre Ro-Pax Ship.

*2 600 TEU Container Ship (GL)*

Scantlings calculation and feasibility study for a ship lengthening conversion.

*1 450 Lane-Metre Ro-Pax Ship (RINA)*

Feasibility study for the conversion of vehicle decks and lengthening of the vessel by 41 m, FEM-calculations.

**SMK Ingenieurbüro**

*Schönkirchen, Germany*

**Steel Design**  
**Class Strength Calculations**

Strength calculations and classification drawings for various Megayacht projects.

**Lloyd Werft GmbH**

*Bremerhaven, Germany*

**FEM-Calculations**

*STENA BRITANNICA and STENA HOLLANDICA*

FEM-calculations of the structural strength of the ship's aft-body and connections to a stabilising pontoon, as part of a ship lengthening conversion.

**Lübeck Port Authority**

*Lübeck, Germany*

**Steel Design**

Complete basic and steel design of coupled dredger pontoons.

Design of mooring and positioning equipment.

Design of a work boat.

**WIS Marine GmbH**

*Wismar, Germany*

**Steel Design**

Complete steel design and production documentation of an offshore construction pontoon.



**Ingenieurbüro Beck**  
*Oeversee, Germany*

**Class Strength Calculations**

*Hopper Dredger (BV)*

Class strength calculations for a Hopper Bagger from Vosta LMG.

**Peter Deilmann Reederei**  
*Neustadt in Holstein, Germany*

**FEM-Calculations  
Outfitting Design**

*SS LILI MARLEEN, MS GERMANY*

Preparation of hull outfitting drawings for various conversion works, FEM-Calculations.

**Ship Design and Consult GmbH (SDC)**  
*Hamburg, Germany*

**FEM-Calculations  
Steel Design**

Calculation of bending moment distribution for a ship lengthening project.

Classification Drawings and FEM Calculations for a container vessel conversion (8400 TEU).

Classification Drawings and FEM Calculations for a cement carrier conversion.

Design, dimensioning and drawing preparation for the retrofit of shipboard cranes.

**Scandlines Deutschland GmbH**  
*Rostock, Germany*

**Steel Design**

*FS SCHLESWIG HOLSTEIN*

Concept and design for the integration of an exhaust gas scrubber.  
Design of the foundations for the battery racks (hybrid ferry).

*FS DEUTSCHLAND*

Concept and design for the integration of an exhaust gas scrubber and arrangement of a new auxiliary engine.  
Design of the foundations for the battery racks (hybrid ferry).

**Scandlines Denmark AS**  
*Copenhagen, Denmark*

**Steel Design**

*FS PRINS RICHARD*

*FS PRINSESSE BENEDICTE*

Concept and design for the integration of an exhaust gas scrubber and new exhaust pipes, arrangement of a new auxiliary engine.



**TT-Line GmbH & Co. KG**  
*Lübeck, Germany*

**Steel Design**  
**FEM-Calculations**

*FS ROBIN HOOD*

Feasibility study for the arrangement of an additional stern ramp.

*FS PETER PAN*

Feasibility study for the transport of special loads on the cargo loads.

*FS NILS DACKÉ*

Design and structural drawings for the modification of a RO-RO vehicle deck.

*FS TOM SAWYER*

Design and structural drawings for the integration of new ship's windows.

**OLDENDORFF CARRIERS GmbH & Co. KG**  
*Lübeck, Germany*

**Steel Design**  
**FEM-Calculations**

*Offshore Transshipment Barge*

Design, dimensioning, FEM-calculations and drawing preparation for reinforcements of a conveyor-belt feeder system.

Design, dimensioning, FEM-calculations and drawing preparation for the extension of an onboard crane column.

*Offshore Barge*

Design, dimensioning and drawing preparation for towing bollard foundations.

*Offshore Crane Barge*

Technical consulting and structural verification calculations regarding the swap-out of crane slewing bearing.

**KG-Projex Schiffahrtsgesellschaft mbH**  
*Hamburg, Germany*

**Steel Design**  
**FEM-Calculations**

Design, dimensioning and drawing preparation for a crane boom rest.

**Lindenberg Anlagenbau GmbH**  
*Rösrath, Germany*

**Offshore**  
**FEM-Calculations**

Strength calculation of a diesel generator enclosure for installation on a Floating Storage Offshore (FSO) unit.

Strength calculation of a modularized machinery container.

Strength calculations for various standardized machinery containers.



**Borsig Boiler Systems GmbH**  
*Hamburg, Germany*

**Offshore  
Steel Design**

Preliminary steel design and material take-off of a boiler topsides module for installation on a floating offshore production vessel.

**German Shipowner**

**Steel Design  
Outfitting Design**

Classification drawings and foundation drawings for the re-fit of a coastal freighter.

**Ingenieur Team Trebes GmbH**  
*Preetz, Germany*

**Steel Design**

Steel design for a linkspan pontoon.

**Vosta LMG**  
*Lübeck, Germany*

**Steel Design  
FEM-Calculations**

*Multi Purpose Dredging Pontoon (BV)*

Design und FEM-Calculations of winch foundations and tug boat reinforcements.

**Detlefsen & Lau**  
*Kiel, Germany*

**FEM-Calculations**

FEM strength evaluation of a sun awning framework structure for a cruise liner.





## **OUTFITTING DESIGN**

### **Lürssen Kröger Werft**

*Schacht-Audorf, Germany*

### **Outfitting Design**

#### *75 m Megayacht*

Project co-ordination within the Hull Outfitting Design Dept. of the building yard, responsible for technical clarification, internal co-ordination and schedule follow-up for all hull outfitting activities.

#### *Megayachts MARLIN, FALCON, NEMO, SHARK, BERMUDA, SCOUT, J-24, FIREBIRD, HERMITAGE, ROCKY, BELLISSIMO, NIKI, GLOBAL, ORCHID, GREEN, MISTRAL*

Design, technical procurement and supplier supervision for structurally-integrated aluminium and GRP deck furniture.

#### *Megayachts BELLISSIMO, NIKI, GLOBAL, ORCHID, GREEN, MISTRAL*

Design, technical procurement and supplier supervision for structurally-integrated exterior pool installations.

#### *Megayachts ROCKY, BELLISSIMO, GLOBAL*

Preparation of deck outfitting design drawings.

#### *Megayachts GLOBAL, GREEN, ORCHID*

Design and preparation of workshop documentation for deck hatches.

#### *111m Megayacht*

Preparation of machinery space foundation drawings.

#### *Ice Research Ship MARIA S. MERIAN*

Preparation of foundation and hull outfitting drawings.

### **Meyer Werft GmbH**

*Papenburg, Germany*

### **Outfitting Design**

#### *143 000 GRT Cruise Liner (DNV)*

Design development and enquiry specifications for deck outfitting.

#### *161 450 GRT Cruise Liner (DNV)*

Enquiry specification for the ship windows and preparation of the window-plan.

### **Kusch Yacht Bau GmbH**

*Wewelsfleth, Germany*

### **Outfitting Design**

#### *Various Megayacht Projects (70-120 m)*

Preparation of steel classification and outfitting drawings, concept design and feasibility studies for hull outfitting.



**Yacht Werft Wedel GmbH**

*Wedel, Germany*

**Project Management  
Outfitting Design**

Project management, technical consulting design for the delivery of GRP-components for a 70 m Megayacht.

Design of a hinged life raft cover.

**KAEFER Schiffsausbau GmbH**

*Bremen, Germany*

**Outfitting Design**

*123 m & 156 m Megayachts*

3D design and approval drawings of GRP deck furniture (bars, counters, seating).

*74 m & 82 m Megayachts*

3D design and approval drawings of GRP wing station consoles.

**Stükerjürgen Aerospace Composites GmbH & Co. KG**   **Outfitting Design**

*Rietberg-Varansell, Germany*

*135 m Megayacht*

3D design and approval drawings of GRP deck furniture (bars, counters, seating).

Approval drawing preparation for a custom interior whirlpool tub.

3D design and approval drawing preparation for a custom exterior whirlpool tub.

**Grittner Team GmbH & Co. KG**

*Visselhövede, Germany*

**Outfitting Design**

*123 m Megayacht*

3D design and approval drawings of GRP wing station consoles.

**Detlefsen & Lau**

*Kiel, Germany*

**Outfitting Design**

*67 m Megayacht*

Preparation of workshop drawings, parts-lists and CNC information for aluminium deck furniture.



**EnPro GmbH (Group<sub>2</sub>O)**  
*Bremerhaven, Germany*

**Outfitting Design**

*111 m Megayacht*

3D design, approval and workshop drawings for a stainless steel custom housing for an exterior shower installation.

**Lange Metallbau GmbH**  
*Bremen, Germany*

**Outfitting Design**

*74 m Megayacht*

3D design, approval and workshop drawings for a stainless steel custom awning framework, including strength assessment.

3D design, approval and workshop drawings for a stainless steel custom cable port protection liner.

**Blohm & Voss Repair GmbH**  
*Hamburg, Germany*

**Outfitting Design**

*MV FUNCHAL*

Design of a windlass foundation (replacement).

**Peter Deilmann Reederei**  
*Neustadt in Holstein, Germany*

**Outfitting Design**  
**FEM-Calculations**

*SS LILI MARLEEN, MS GERMANY*

Preparation of hull outfitting drawings for various conversion works, FEM-Calculations.

**Hapag Lloyd Container Linie GmbH**  
*Hamburg, Germany*

**Outfitting Design**

Structural design of a transport frame for steel coils.

**German Shipowner**

**Steel Design**  
**Outfitting Design**

Classification drawings and foundation drawings for the re-fit of a coastal freighter.



**Scandlines Deutschland GmbH**

*Rostock, Germany*

**Plan update**

*FS SCHLESWIG HOLSTEIN*

*FS DEUTSCHLAND*

Update of outfitting- and safety plans.

**TT-Line GmbH & Co. KG**

*Lübeck, Germany*

**Plan update**

*FS HUCKLEBERRY FINN*

*FS ROBIN HOOD*

*FS TOM SAWYER*

Update of safety plans.



## **SHELL DOORS**

**Prinz Technik Hydraulik Schwerin GmbH**  
*Schwerin, Germany*

**Shell Doors**

*Various 65-110 m Megayachts*

Layout and detail design of tender doors, stern doors, crew doors, sea terraces, rescue boat hatch covers, bulwark flaps and mooring hatches.

**Meyer Werft GmbH**  
*Papenburg, Germany*

**Shell Doors**

*143 000 GRT Cruise Liner (DNV)*

*161 450 GRT Cruise Liner (DNV)*

*148 000 GRT Cruise Liner (DNV)*

*168 700 GRT Cruise Liner (DNVGL)*

Design development, technical procurement and supplier supervision of shell doors incl. boarding platforms and provisioning platforms.

**Fr. Lürssen Werft GmbH & Co. KG**  
*Bremen, Germany*

**Shell Doors**

*150 m Megayacht*

Preparation of workshop drawings and production documentation for tender doors.

*160 m Megayacht*

Detail design and preparation of production documentation for a side-boarding platform.

*110 m Megayacht*

Design and preparation of production documentation for two rescue boat hatch covers and a foldable helicopter deck.

*120 m Megayacht*

Design and preparation of production documentation for several shell doors.

*130 m Megayacht*

Design and preparation of production documentation for several shell doors.

*130 m Megayacht*

Design and preparation of production documentation for tender doors.



**Fr. Fassmer GmbH & Co. KG**  
*Berne, Germany*

**Shell Doors**

*100 m Megayacht*

Preparation of workshop drawings and production documentation for a Transom Door.

**MESA GmbH**  
*Carlow, Germany*

**Shell Doors**

Design of a shore connection hatch for a Megayacht.

Consulting for the design of a shell sliding door for an island ferry.



## **SHIP DESIGN**

### **Superfast Ferries SA**

*Athens, Greece*

**Ship Design**

#### *SUPERFAST XI/XII (ABS)*

Basic Design of additional accommodation deckhouses and lifesaving appliances.

### **Münchmeyer Petersen Marine (MPC)**

*Hamburg, Germany*

**Ship Design**

#### *2 500 Lane-Metre Ro-Ro Heavy Transport Ship*

Feasibility study.

#### *Research Vessel*

Technical evaluation of an existing design as a potential basis for a newbuilding project.

### **OLDENDORFF CARRIERS GmbH & Co. KG**

*Lübeck, Germany*

**Ship Design**

#### *Offshore Barge*

Preparation of Towing Arrangement drawings.  
Preparation of tank sounding tables.

### **Lübeck Port Authority**

*Lübeck, Germany*

**Ship Design**

Complete basic design of coupled dredger pontoons.

Check Lightweight surveys and trim & stability calculations for several dredging and crane pontoons.

### **Waterways & Shipping Agency (WSA) Lübeck**

*Lübeck, Germany*

**Ship Design**

Check Lightweight survey and trim & stability calculations for a deck barge.

### **Hans Lehmann & Co. KG**

*Lübeck, Germany*

**Ship Design**

Preliminary design, general arrangement and outline specification for a 5.600 dwt General Cargo Ship.



**Alfons Winter 3-D Konstruktions GmbH**

*Lübeck, Germany*

**Ship Design**

Naval architectural concept and layout development of a diesel-electric propulsion system (18 000 kW) for a Megayacht.

Preparation of a 3D-Model of the steel structure of a 40 m sailing yacht.

**German Shipowner**

**Ship Design**

Preliminary design and contract general arrangement for a 2250 tdw coastal freighter.

**German Shipowner**

**Ship Design**

Design and contract general arrangement for a 200 m<sup>3</sup> bunker ship.





## **SUPERVISION AND CONSULTING**

### **Münchmeyer Petersen Marine (MPC)**

*Hamburg, Germany*

**Supervision**

*76 000 dwt Bulk Carrier (GL)*

*27 700 dwt Bulk Carrier (LR)*

*37 000 dwt Bulk Carrier (LR)*

Drawing approval and technical consulting.

### **Danz & Tietjens Schiffahrtsgruppe**

*Burg (Dithmarschen), Germany*

**Supervision**

*80 000 dwt Bulk Carrier Newbuildings (LR/Jiangsu Eastern HI)*

Drawing approval, technical consulting, inspections and sea-trial supervision.

### **KG-Projex Schiffahrtsgesellschaft mbH**

*Hamburg, Germany*

**Consulting**

Technical consulting with regard to ship design and structural design of a 2600 TEU container ship.

Feasibility study for the lengthening of a 2700 TEU container ship.

### **Elan GmbH**

*Hamburg, Germany*

**Consulting  
Supervision**

Technical consulting and site supervision relating to the design and manufacture of a large hydro-mechanical installation for a Megayacht.



## **OFFSHORE**

### **Lindenberg Anlagenbau GmbH**

*Rösrath, Germany*

### **Offshore FEM-Calculations**

Strength calculation of a diesel generator enclosure for installation on a Floating Storage Offshore (FSO) unit.

Strength calculation of a modularized machinery container.

Strength calculations for various standardized machinery containers.

### **Borsig Boiler Systems GmbH**

*Hamburg, Germany*

### **Offshore Steel Design**

Preliminary steel design and material take-off of a boiler topsides module for installation on a floating offshore production vessel.