



DELTAMARINE

[www.DELTAMARINE.com.tr](http://www.DELTAMARINE.com.tr)

## THE COMPANY



Delta Marine has been founded in 1996 by a group of Naval architects who have intended to develop qualified projects for marine industry. Since its foundation, Delta Marine has grown up rapidly and founded departments of conceptual design, steel construction design, CAD/CAM, piping and outfitting, advanced engineering for research and development (R & D), information technologies (including Software Development), ship theory and project planning. Delta Marine has a vast ship design experience, which is reflected to the realization of numerous projects of different kinds of ships. As a result of its designs Delta Marine not only has been known as the best ship design company of Turkey but also has succeeded to reach the level of most reliable and productive design companies in Europe. Delta Marine, when considering its capabilities and ambition to develop new designs by using the opportunities of high technology, guarantees a reliable and fast work with well-experienced engineering team. The company has the ability to work on a grand range of product by the means of different kinds of activities.

By combining the experience accumulated from the design process and by supervising numerous vessels using the latest computer technology, Delta Marine provides the most appropriate and applicable solutions of highest quality. To be able to provide state-of-the-art solutions, the company follows the philosophy of continuous improvement by applying the latest developments and rules with all the aspects of shipping through a constant dialogue with ship owners, shipyards, suppliers, operators, authorities and classification societies. Delta Marine employing naval architects, marine engineers, architects, mechanical engineers offers design services for.



## Integrated Solution In Naval Architecture

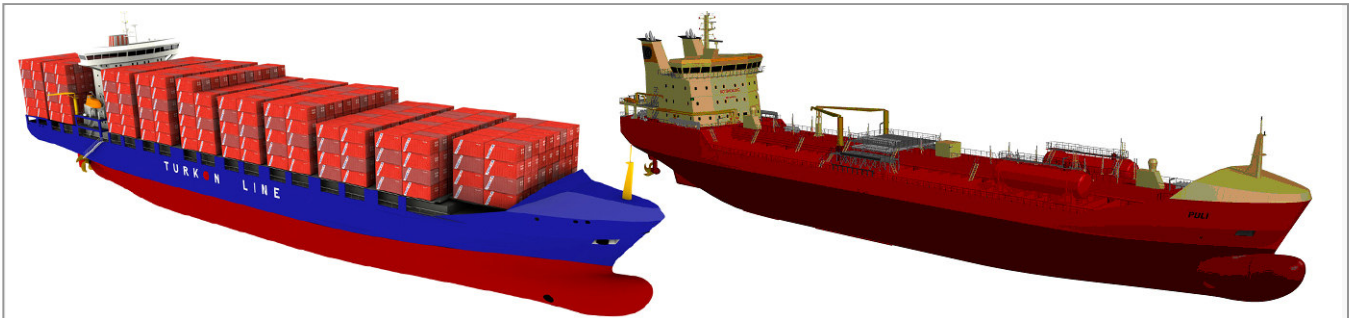
- **Basic design**
  - concept design
  - preliminary design
  - contract design
  - functional design
- **Product engineering**
  - transition design
  - workstation/zone information preparation
- **Advanced Engineering,**
- **Consultancy, supervision and inspection activities,**
- **Conversions,**
- **Preparation of tenders and shipbuilding contracts,**
- **Software Development**

### Key Personnel

Chairman	: H. Bülent SENER
General Manager	: Yasar GUL
Department Manager	: Cemal SAHIN
Department Manager	: Cem DOGANCI
Department Manager	: Tamer CAKMAK
Department Manager	: Timur E. ERIS
Department Manager	: Levent KAYDIHAN
Department Manager	: Erki KIROGLU
Department Manager	: S. Dirim SENER

### Contact Information

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Phone : 0090 216 428 02 41 Fax : 0090 216 428 44 75  
e-mail : [contact@deltamarine.com.tr](mailto:contact@deltamarine.com.tr)  
Web : [www.deltamarine.com.tr](http://www.deltamarine.com.tr)

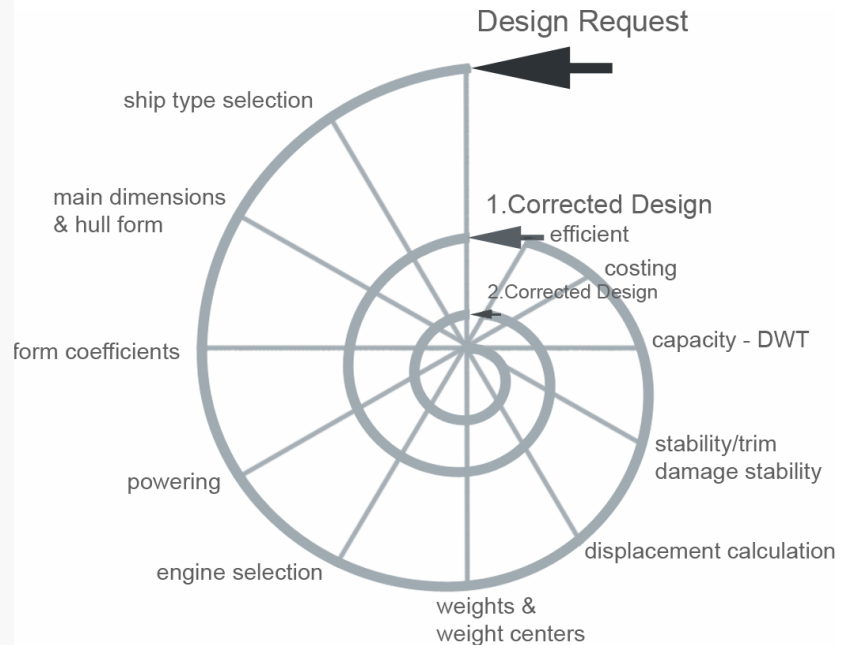


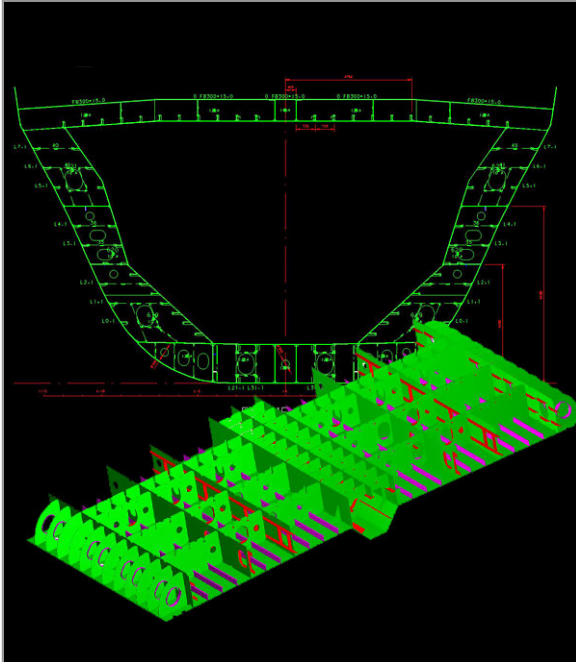
Delta Marine provides a very detailed engineering service and design work on different types of ships such as, General Cargo Ships, Containers, Oil and/or Chemical Tankers, Passengers Ships and Ferries, Yachts, Navy ships. Throughout these designs Delta Marine realizes the conceptual design, feasibility analyses, technical specifications, basic and classification plan, detailed engineering of hull and outfitting, instruction books and manual preparation and interior design, during the whole design process of a ship.

## CONCEPTUAL DESIGN

At the early stages of the design process, Delta Marine determines the parameters that will form the basis for optimum ship dimensions, hull form as well as the selection of propulsion system's type and power and auxiliary systems, according to the customer's requirements (for example, speed, DWT, number of passengers, number of vehicles etc.). Concerning the conceptual design stage of the project, Delta Marine provides the services stated as below,

- Determination of main dimensions according to ship type, speed and carrying capacity
- Preliminary form design
- Speed-power analysis
- Calculation of preliminary stability, trimmed and damaged stability conditions
- Calculation of preliminary weight distribution
- Calculation of longitudinal strength
- Subdivision calculations
- Preparation of preliminary general arrangement
- Calculation of capacities
- Feasibility studies
- Preparation of Technical Specification Booklet





## STRUCTURAL DESIGN

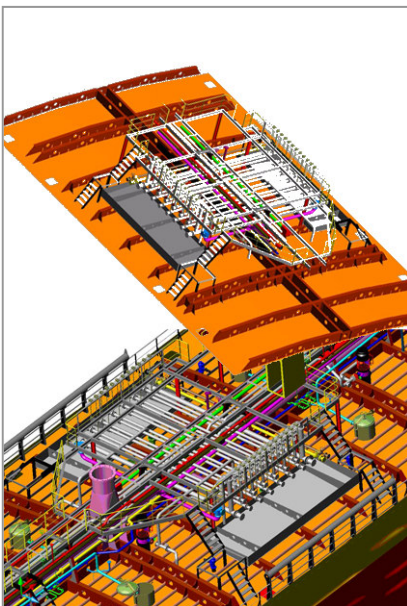
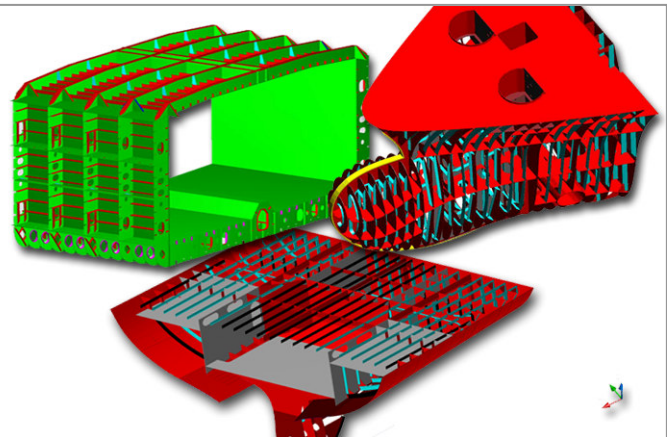
In Delta Marine, Engineers of Structural Design, who are experts on their subjects, prepare the optimum structural configuration of ship dimensions by taking the type of cargo and type of the ship as reference. Their aims are to use minimum amount of material, to comply the rules of Classification Society, to develop special details in critical areas of fatigue and corrosion, to develop the most suitable structural configuration for workmanship and vibration. They utilize acknowledged software such as, Classification Society Software (for example, Poseidon, Safe Hull, Mars etc.) and Finite Element Analysis Software for all these purposes. The scope of services of structural design includes,

- Design of midship and typical transverse section details
- Design of ship structure and preparation of general steel construction drawings
- Preparation of shell expansion and framing system
- Preparation of engine room, foundation of main engine and other machinery equipment
- Preparation of fore and aft structural details
- Design of signal masts and crane columns
- Design of hatch covers and ramp

## CAD / CAM

CAD/CAM Engineers and Draftsmen in Delta Marine work on the realization of the items cited as below,

- Lines fairing
- Preparation of manufacturing sections
- Preparation of block plans
- Determination of building strategy
- Design of the 3D structural model
- Calculation of block weight and centre of gravity
- Determination of element position numbers
- Preparation of workshop drawings
- Development of shell plates and preparation for cutting
- Preparation of shell's bending model



## MACHINERY, OUTFITTING & PIPING

Outfitting and Marine Engineers who have worked in ships for many years and who have a long onboard experience, develop projects on arrangements, outfitting and one-line diagrams of the main and auxiliary engines of the ship. During this arrangement process, their main aim is to provide safe, ergonomic and environmental designs. 3D model of piping layout and isometric drawings are among their experience.

- Design and arrangement of engine room
- Calculation of the equipment capacities and selection of equipment
- Design of propeller and rudder shaft systems
- Calculation of boiler capacity, heating coil length, design of heating systems
- Design of ladder, railway, windlass-mooring arrangement and other deck equipment
- Design and preparation of piping diagrams
- Design of exhaust and ventilation ducts
- 3 - D pipe modelling and preparation of isometric plans
- Preparation of P&A, ODME, Rudder Shaft and Clean Sea manuals
- Preparation of Fire and Safety plans
- Preparation of Damaged Stability control plans
- Preparation of docking and painting plans
- Pressure Drop calculation for P/V circuits





## ACCOMMODATION DESIGN

Not only Marine Engineers are working Delta Marine for the realization of the design of ships but also architects are employed in the company in order to reach a fine, comfortable and functional design of accommodation. As far as the accommodation of the ship is concerned architects and engineers provide the services that can be resumed as follows,

- Design of accommodations in accordance with function, status and regulations
- Interior design of cabins, rooms, kitchen etc.
- Design of furniture and details
- Design of wetted volume
- Preparation of fire, noise and heat insulation

## SHIP THEORY

Delta Marine has a vast experience on ship stability (intact and damaged) calculations and engineering. An independent department has been established for this subject in Delta Marine. Through a very close contact with the changing and developing rules, Ship Theory Department provides perfect compatibility with new projects as well as existing one's. There is an ongoing research and development study for new software on this subject. The scope of services of this department are stated as below,

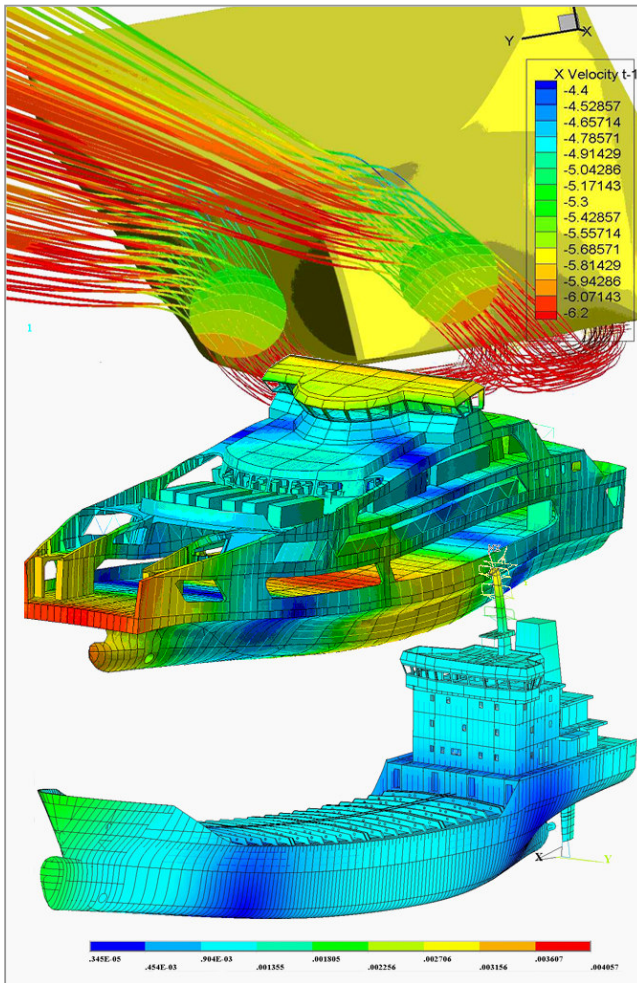
- Calculation of tank capacities, preparation of ullage and sounding tables
- Calculation of hold capacities for trimmed and untrimmed ends, calculation heeling moment
- Calculation of hydrostatic, stability cross curves and trim table
- Inclining experiment executing and preparation of the experiment report
- Freeboard calculation
- Calculation of trim & stability according to IMO Stability Regulations
- Preparation of trim & stability booklet
- Calculation of damaged stability
- Calculation of required damaged stability for B - reduced freeboard
- Calculation of damaged stability for tankers according to IBC Code and MARPOL 73/78 Rules
- Calculation of probabilistic stability and determination of allowable GM curve for general cargo and Ro-Ro ships according to SOLAS
- Calculation of damaged stability and determination of A / Amax value for passenger ships according to SOLAS
- Preparation of loading manuals for trimmed and untrimmed grain cargo
- Calculation of weight distribution of light ship
- Calculation of allowable bending moments and shearing forces
- Calculation of longitudinal strength
- Preparation of loading manuals and bulk cargo loading booklets
- Preparation of Loading / Unloading Sequence Booklet
- Preparation of Cargo Securing Manual
- Preparation of Garbage Management
- Preparation of Capacity Plan



## RESEARCH & DEVELOPMENT

Throughout the services of Delta Marine, Research & Development is also important to reach the perfection in the ship design. Some services of this concept are,

- Form development and optimisation
- Weight optimisation
- Vibration and noise prediction



## CAE ( FEA / CFD )

In a very close relation with the advanced engineering tools, designing ships with art-style perfection are among the objects of Delta Marine Engineers.

To achieve this goal the following engineering studies are in performed:

### Finite Element Based Analysis

- Statical stress analysis
- Linear and non-linear buckling analysis
- Fatigue analysis
- Thermal stress analysis
- Dynamic analysis
- Vibration analysis (free and forced vibrations)
- Transient dynamic analysis (crushed, earthquake etc.)

### Boundary Element Based Analysis

- Form Optimisations
- Wave analysis around the hull
- Stream lines analysis

### Finite Volume Based Analysis

- Viscous flow (Navier-Stokes) Solutions
- Prediction of ship friction and viscous pressure resistance
- Wake flow analysis and optimisation
- Propeller analysis and solving propeller-hull interaction problems
- Design and analysis of equipment for propulsion efficiency
- Noise induced by flow analysis
- Exhaust gas analysis
- HVAC system analysis
- Mass and heat transfer analysis.

## SOFTWARE DEVELOPMENT

Delta Marine develops own software to solve Naval Architectural problems as well as company's organizational needs . A new software is still being developed on ship structure modelling and production planning. Below, software, which are developed or being developed by Delta Marine for in-house use, are determined.

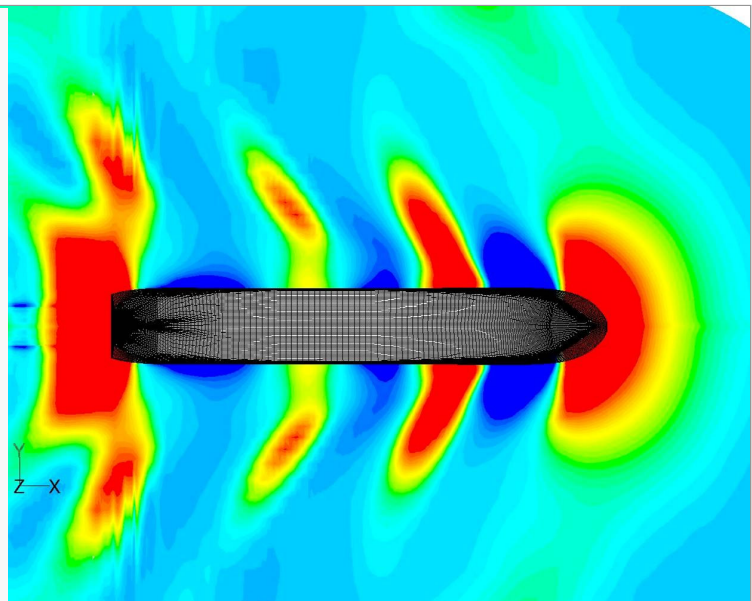
**DeltaLoad** : Loading computer software for stability, trim, grain cargo and container loading and reporting, longitudinal strength calculation, developed to be used both in office and onboard

**B\_Surf** : Form design, manufacturing and fairing

**DeltaHydro** : Software for capacity calculation, hydrostatic, stability cross curves, inclining experiment report, trim & stability, GM limit curve, longitudinal strength and launching calculations.


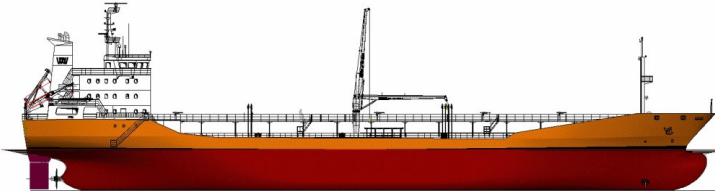
**MarineCAD** : Software for ship structure modelling and production planning.

**Textus** : Application for Document Management, workflow Management and Project Management





# REFERENCES


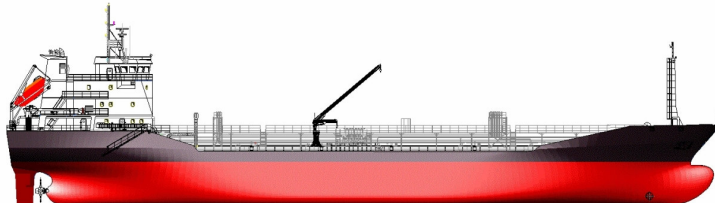



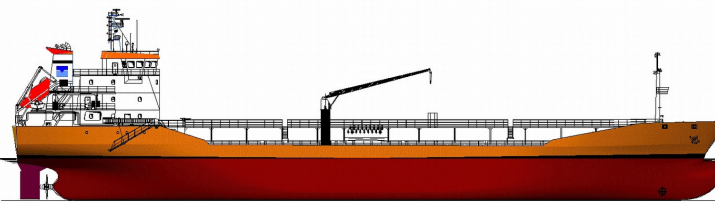
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STATUS	IN SERVICE


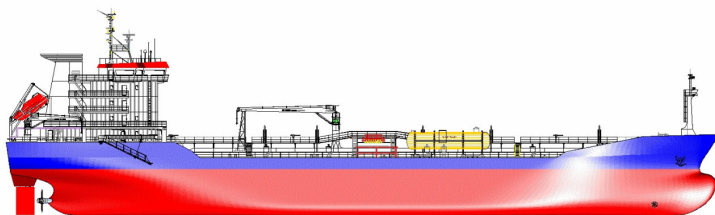
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PROJECT NAME	TRAINING BOAT
PROJECT NR	E00698
OWNER	T.C. DNZ. K.K.
SHIPYARD	BORA-DÜZGİT
HULL NR	001
CLASS	T. LLOYD
STATUS	IN SERVICE

SHIP NAME	M/T PYLA
PROJECT NAME	6700 DWT OIL / CHEMICAL TANKER
PROJECT NR	T00798
OWNER	PETROMARINE
SHIPYARD	ÇELİKTEKNE
HULL NR	28
CLASS	BV
STATUS	IN SERVICE

SHIP NAME	M/T ALFATEM
PROJECT NAME	6700 DWT OIL / CHEMICAL TANKER
PROJECT NR	T00898
OWNER	TEMMAR DENİZCİLİK İŞLETMECİLİK SAN. VE TİC. A.Ş
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STATUS	IN SERVICE

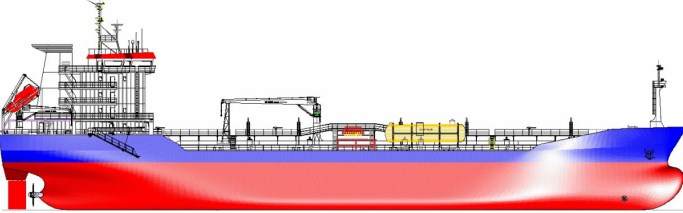




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STATUS	IN SERVICE

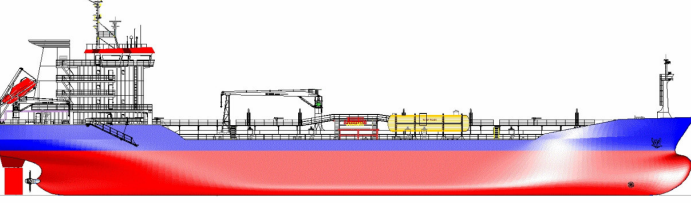



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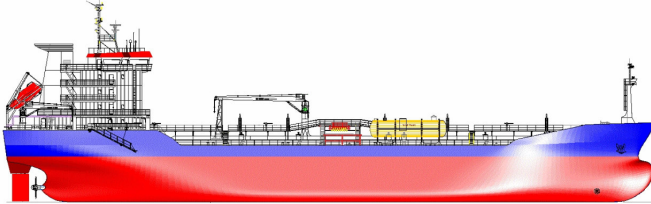





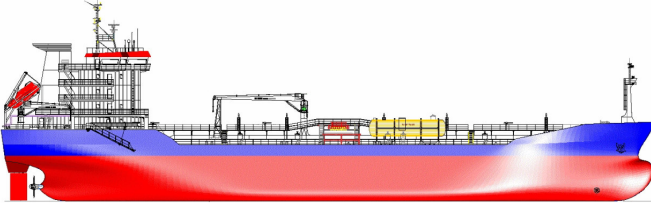
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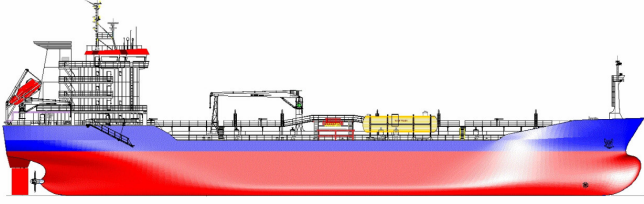
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	<b>OWNER</b>	CLIPPER GROUP
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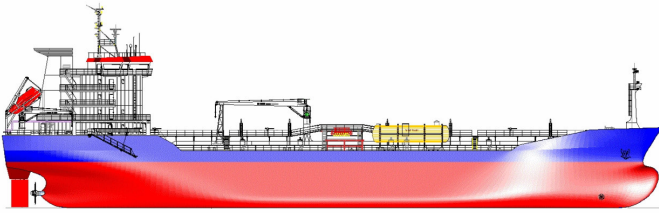



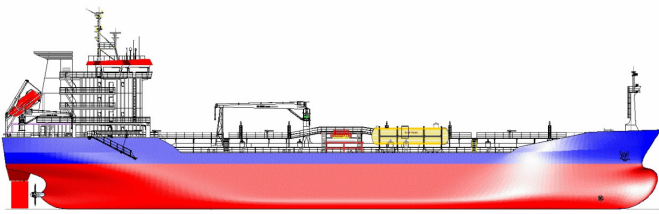

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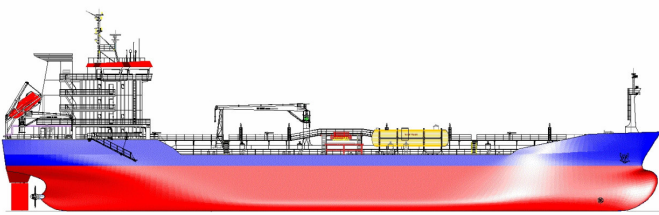



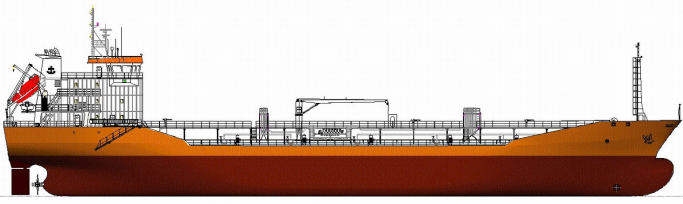

# REFERENCES

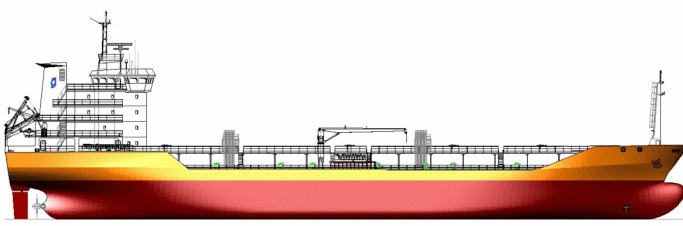



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	<b>STATUS</b>	UNDER CONSTRUCTION

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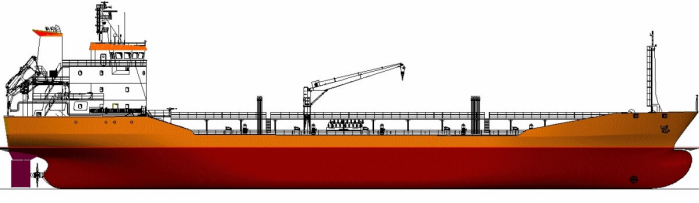

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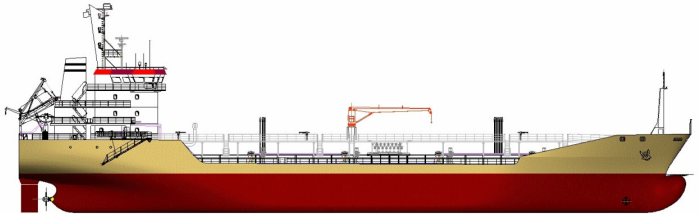

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	<b>OWNER</b>	MARIA JAKOBSEN ILP
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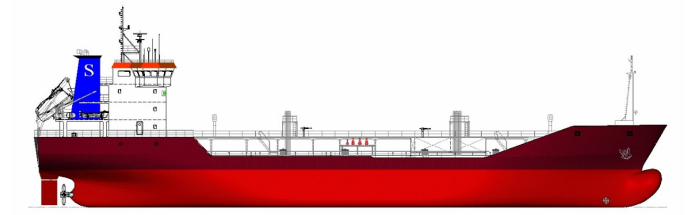

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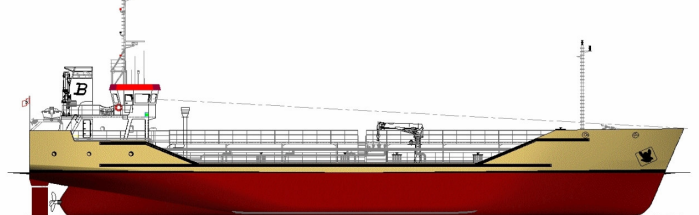

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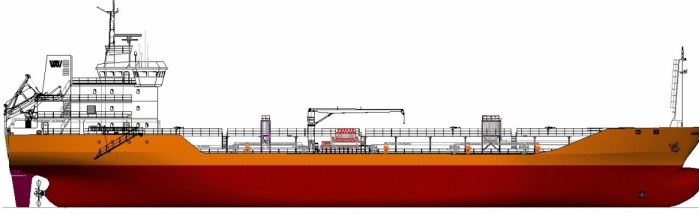



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	<b>OWNER</b>	TEMMAR DENİZCİLİK İŞLETMECİLİK SAN. VE TİC. A.Ş
	<b>SHIPYARD</b>	DEARSAN
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 	<b>SHIP NAME</b>	MC ANGIMAR
	<b>PROJECT NAME</b>	5850 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	T01520
	<b>OWNER</b>	SMTV spa
	<b>SHIPYARD</b>	ŞAHİNÇELİK
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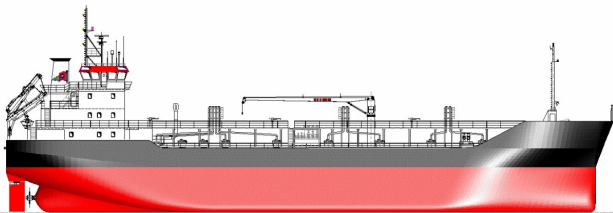

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	<b>OWNER</b>	REDERİET MH SIMONSEN APS
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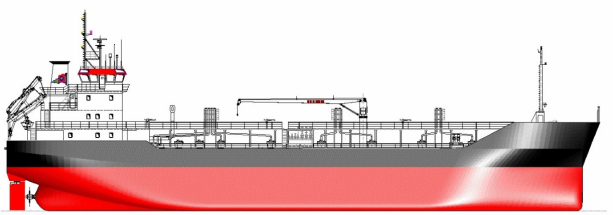

 	<b>SHIP NAME</b>	M/T MILLENIUM II
	<b>PROJECT NAME</b>	1100 DWT OIL PRODUCT TANKER
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	<b>OWNER</b>	DESAŞ DENİZ SERVİSLERİ TİC. A.Ş
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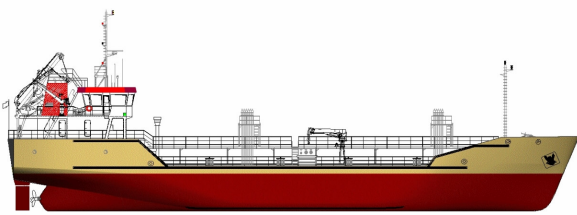

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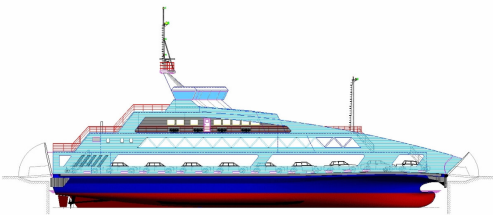

# REFERENCES

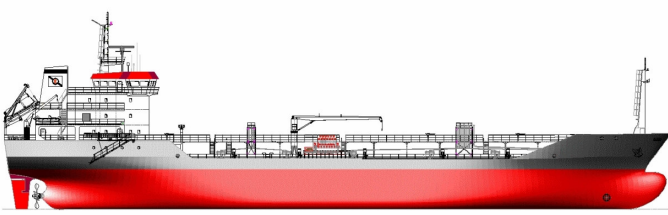



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	<b>PROJECT NR</b>	T02120	
	<b>OWNER</b>	JOHN H. WHITAKER TANKERS LTD	
	<b>SHIPYARD</b>	TUZLA GEMİ	
	<b>HULL NR</b>	23	
	<b>CLASS</b>	LR	
	<b>STATUS</b>	IN SERVICE	

		<b>SHIP NAME</b>	M/T WHITCHAMPION
	<b>PROJECT NAME</b>	4500 DWT OIL PRODUCT TANKER	
	<b>PROJECT NR</b>	T02120	
	<b>OWNER</b>	JOHN H. WHITAKER TANKERS LTD	
	<b>SHIPYARD</b>	TUZLA GEMİ	
	<b>HULL NR</b>	24	
	<b>CLASS</b>	LR	
	<b>STATUS</b>	IN SERVICE	

		<b>SHIP NAME</b>	M/T ASLI-S
	<b>PROJECT NAME</b>	1100 DWT OIL PRODUCT TANKER	
	<b>PROJECT NR</b>	T02220	
	<b>OWNER</b>	ATS DENİZCİLİK TİC. A.Ş	
	<b>SHIPYARD</b>	ŞAHİNÇELİK	
	<b>HULL NR</b>	33	
	<b>CLASS</b>	BV	
	<b>STATUS</b>	IN SERVICE	

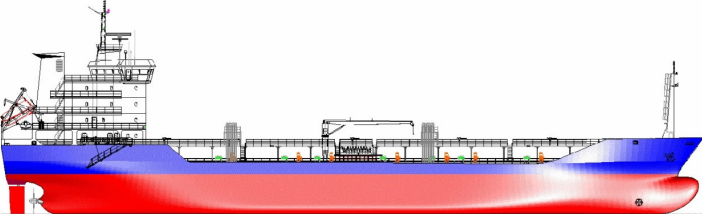

		<b>SHIP NAME</b>	İZDENİZ
	<b>PROJECT NAME</b>	FERRYBOAT	
	<b>PROJECT NR</b>	F02301	
	<b>OWNER</b>		
	<b>SHIPYARD</b>		
	<b>HULL NR</b>		
	<b>CLASS</b>		
	<b>STATUS</b>	AT DESIGN STAGE	

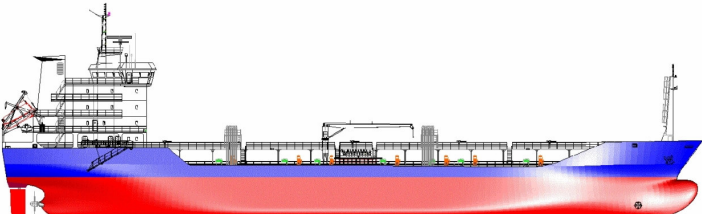

		<b>SHIP NAME</b>	M/T HEINRICH
	<b>PROJECT NAME</b>	6700 DWT OIL / CHEMICAL TANKER	
	<b>PROJECT NR</b>	T02401	
	<b>OWNER</b>	CARL F PETERS	
	<b>SHIPYARD</b>	SELAH	
	<b>HULL NR</b>	34	
	<b>CLASS</b>	BV	
	<b>STATUS</b>	IN SERVICE	

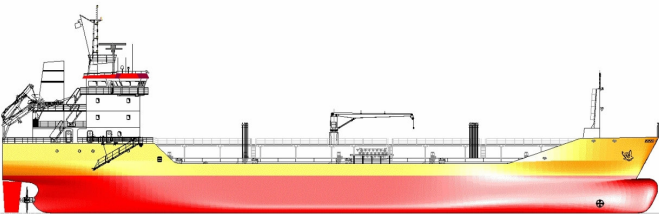



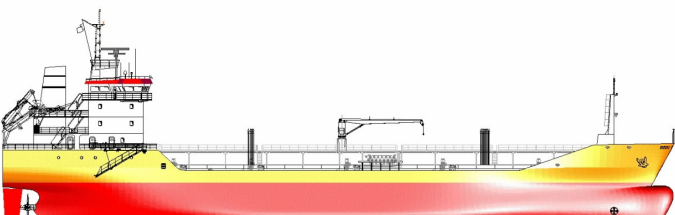

# REFERENCES

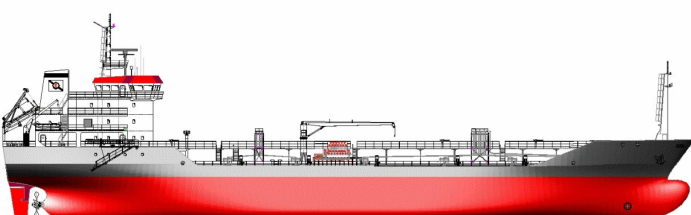



 	<b>SHIP NAME</b>	M/T AMARANT
	<b>PROJECT NAME</b>	7100 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	T02501
	<b>OWNER</b>	VADERÖ TANK AB
	<b>SHIPYARD</b>	MARMARA
	<b>HULL NR</b>	62
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

 	<b>SHIP NAME</b>	M/T MARISP
	<b>PROJECT NAME</b>	7100 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	T02501
	<b>OWNER</b>	VADERÖ TANK AB
	<b>SHIPYARD</b>	MARMARA
	<b>HULL NR</b>	61
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

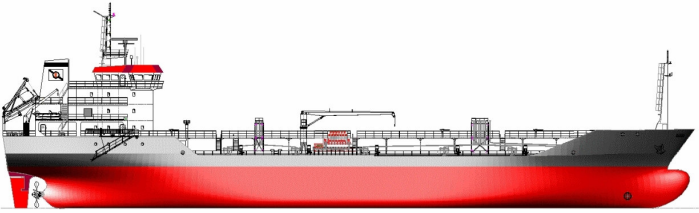

 	<b>SHIP NAME</b>	M/T MAR ISA
	<b>PROJECT NAME</b>	4750 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	T02701
	<b>OWNER</b>	MAR PETROL SA
	<b>SHIPYARD</b>	SELAH
	<b>HULL NR</b>	41
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

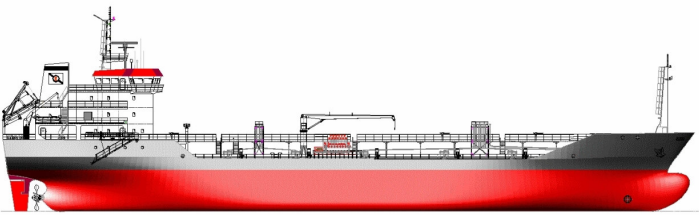

 	<b>SHIP NAME</b>	M/T MAR MARIA
	<b>PROJECT NAME</b>	4750 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	T02701
	<b>OWNER</b>	MAR PETROL SA
	<b>SHIPYARD</b>	SELAH
	<b>HULL NR</b>	42
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

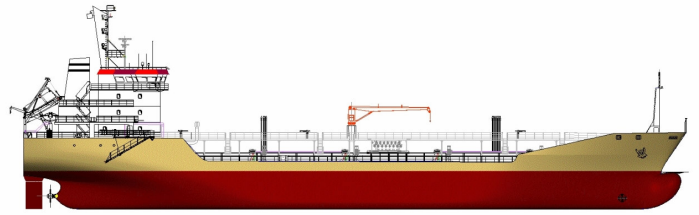

 	<b>SHIP NAME</b>	M/T CRESTAR
	<b>PROJECT NAME</b>	6700 DWT CHEMICAL TANKER
	<b>PROJECT NR</b>	T02901
	<b>OWNER</b>	LAURANNE SHIPPING
	<b>SHIPYARD</b>	SEDEF
	<b>HULL NR</b>	124
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

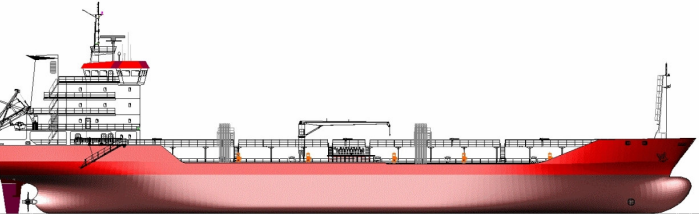

# REFERENCES

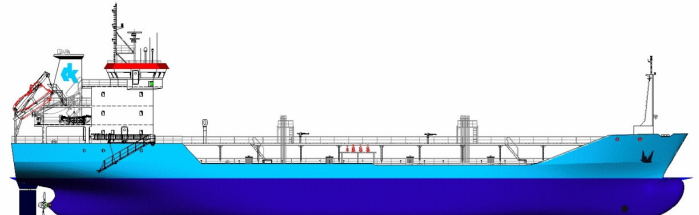



 	<b>SHIP NAME</b>	M/T EVANNE
	<b>PROJECT NAME</b>	6700 DWT CHEMICAL TANKER
	<b>PROJECT NR</b>	T02901
	<b>OWNER</b>	LAURANNE SHIPPING
	<b>SHIPYARD</b>	SEDEF
	<b>HULL NR</b>	127
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

 	<b>SHIP NAME</b>	M/T PAUL E
	<b>PROJECT NAME</b>	6700 DWT CHEMICAL TANKER
	<b>PROJECT NR</b>	T02901
	<b>OWNER</b>	CARL F PETERS
	<b>SHIPYARD</b>	SEDEF
	<b>HULL NR</b>	128
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

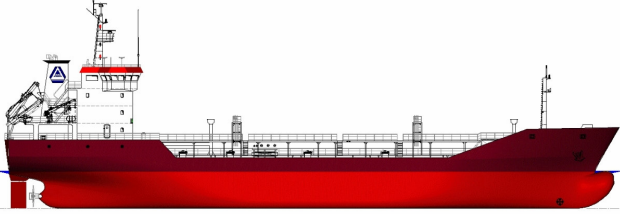

 	<b>SHIP NAME</b>	M/T BURÇE-S
	<b>PROJECT NAME</b>	5850 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	T03001
	<b>OWNER</b>	ŞENER PETROL DENİZCİLİK A.Ş.
	<b>SHIPYARD</b>	ŞAHİNÇELİK
	<b>HULL NR</b>	26
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

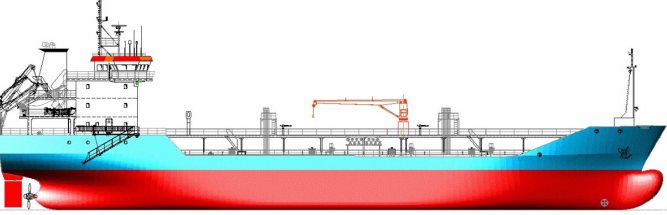

 	<b>SHIP NAME</b>	M/T MORINA
	<b>PROJECT NAME</b>	7000 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	T03201
	<b>OWNER</b>	DEVAL DENİZCİLİK
	<b>SHIPYARD</b>	ÇELİKTEKNE
	<b>HULL NR</b>	044
	<b>CLASS</b>	ABS
	<b>STATUS</b>	IN SERVICE

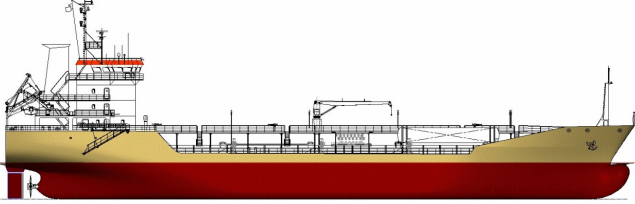

 	<b>SHIP NAME</b>	M/T ALEV KAMAN
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	T03301
	<b>OWNER</b>	KAMAN DENİZCİLİK PET. ÜR. PAZ. NAK. VE TİC. A.Ş.
	<b>SHIPYARD</b>	SEDEF
	<b>HULL NR</b>	129
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

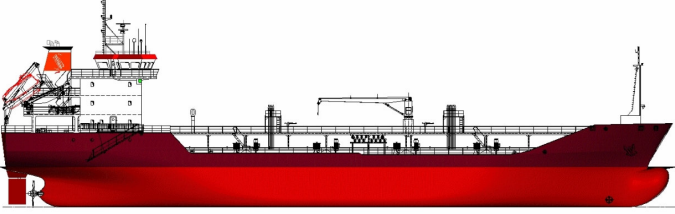

# REFERENCES

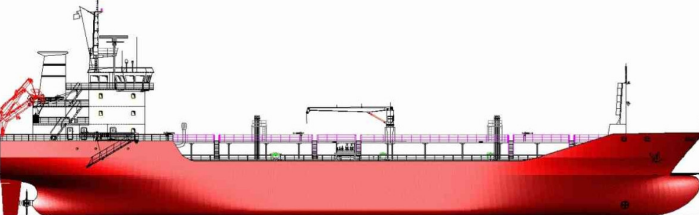



 	<b>SHIP NAME</b>	M/T SOFIE THERESA (EX. AYLİN)
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	T03401
	<b>OWNER</b>	HERNING SHIPPING A.S
	<b>SHIPYARD</b>	DEARSAN
	<b>HULL NR</b>	2027
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

 	<b>SHIP NAME</b>	M/T ATLANTIS ARMONA
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	T03502
	<b>OWNER</b>	ARMONA DENİZCİLİK A.Ş
	<b>SHIPYARD</b>	GELİBOLU
	<b>HULL NR</b>	23
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

 	<b>SHIP NAME</b>	M/T FS SOLENE
	<b>PROJECT NAME</b>	5850 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	T03602
	<b>OWNER</b>	FOUQUET SACOP MARITIME
	<b>SHIPYARD</b>	YARDIMCI
	<b>HULL NR</b>	27
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

 	<b>SHIP NAME</b>	M/T EBRU-S
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	T03702
	<b>OWNER</b>	ŞENER PETROL DENİZCİLİK A.Ş
	<b>SHIPYARD</b>	ŞAHİN ÇELİK
	<b>HULL NR</b>	28
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

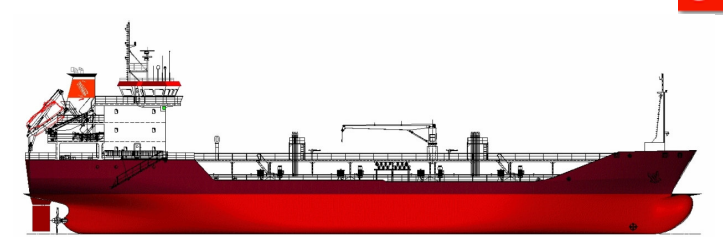

 	<b>SHIP NAME</b>	M/T MAR VICTORIA
	<b>PROJECT NAME</b>	5850 DWT ASPHALT TANKER
	<b>PROJECT NR</b>	T03802
	<b>OWNER</b>	MAR PETROL SA
	<b>SHIPYARD</b>	SELAH
	<b>HULL NR</b>	35
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

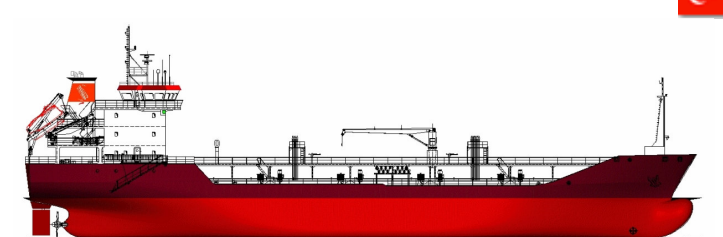



# REFERENCES

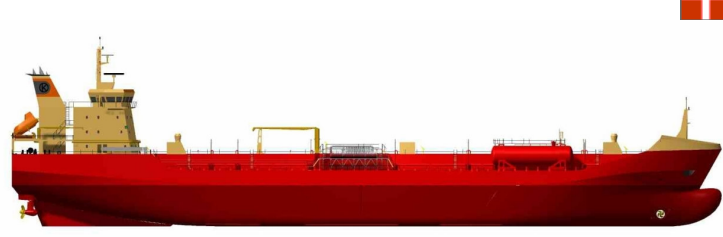



 	<b>SHIP NAME</b>	M/T MAR PAULA
	<b>PROJECT NAME</b>	5850 DWT ASPHALT TANKER
	<b>PROJECT NR</b>	T03802
	<b>OWNER</b>	MAR PETROL SA
	<b>SHIPYARD</b>	SELAH
	<b>HULL NR</b>	36
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

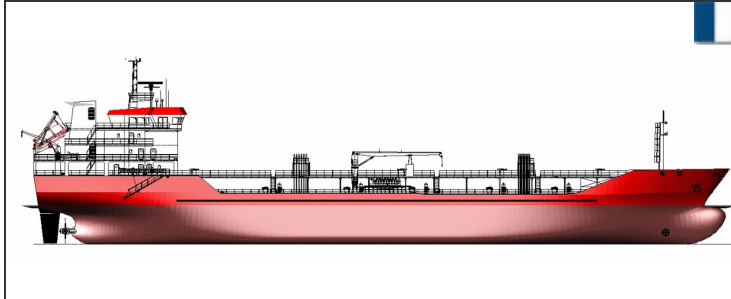
 	<b>SHIP NAME</b>	M/T TUĞRUL-S
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	T03902
	<b>OWNER</b>	ŞENER PETROL DENİZCİLİK A.Ş
	<b>SHIPYARD</b>	YILDIRIM
	<b>HULL NR</b>	102
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

 	<b>SHIP NAME</b>	M/T VEYSEL BEY
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	T04002
	<b>OWNER</b>	MASTER PETROL
	<b>SHIPYARD</b>	YILDIRIM
	<b>HULL NR</b>	101
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

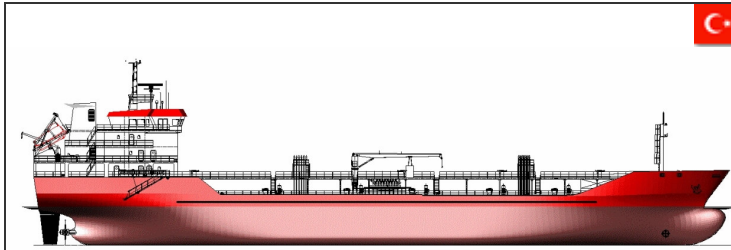
 	<b>SHIP NAME</b>	M/T ORALAKE
	<b>PROJECT NAME</b>	2850 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	T04102
	<b>OWNER</b>	NAVYTIME NV
	<b>SHIPYARD</b>	ÇELİKTRANS
	<b>HULL NR</b>	CS26
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

 	<b>SHIP NAME</b>	M/T FIONIA SWAN (EX. PULI)
	<b>PROJECT NAME</b>	15000 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 043
	<b>OWNER</b>	UNI TANKERS
	<b>SHIPYARD</b>	ÇİÇEK
	<b>HULL NR</b>	34
	<b>CLASS</b>	BV
	<b>STATUS</b>	UNDER CONSTRUCTION

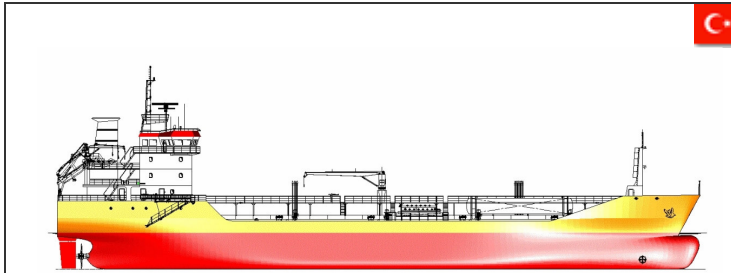
# REFERENCES



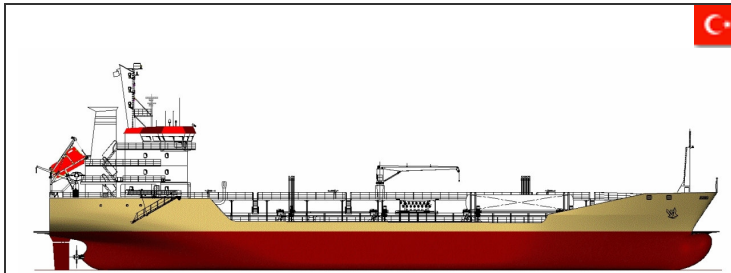
SHIP NAME	M/T GASCOGNE
PROJECT NAME	7100 DWT OIL / CHEMICAL TANKER
PROJECT NR	T04403
OWNER	PETROMARINE
SHIPYARD	ÇELİKTEKNE
HULL NR	49
CLASS	BV
STATUS	IN SERVICE



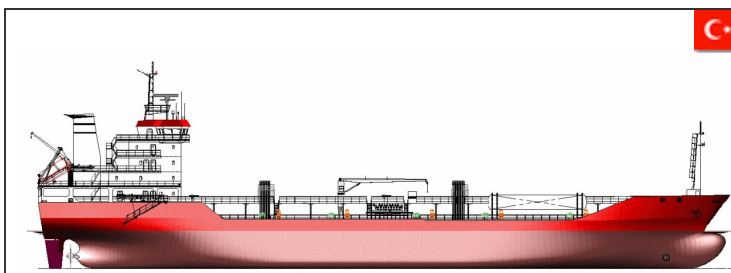
SHIP NAME	M/T GUILD
PROJECT NAME	7100 DWT OIL / CHEMICAL TANKER
PROJECT NR	T04403
OWNER	BEŞİKTAŞ TANKERCİLİK TAŞIMACILIK PETROL ÜRÜNLERİ SAN. VE TİC. A.Ş.
SHIPYARD	ÇELİKTEKNE
HULL NR	50
CLASS	BV
STATUS	IN SERVICE



SHIP NAME	M/T YM MERCURY
PROJECT NAME	4850 DWT OIL / CHEMICAL TANKER
PROJECT NR	T04603
OWNER	YILDIRIM PAZ. TİC. A.Ş.
SHIPYARD	MARMARA
HULL NR	60
CLASS	BV
STATUS	IN SERVICE



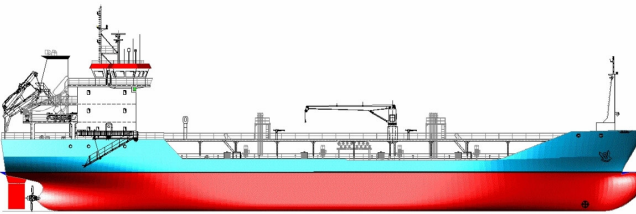

SHIP NAME	M/T YM VENUS
PROJECT NAME	5850 DWT OIL / CHEMICAL TANKER
PROJECT NR	T04703
OWNER	YILYAK YAKIT PAZARLAMA VE TİC. A.Ş.
SHIPYARD	MARMARA
HULL NR	62
CLASS	BV
STATUS	IN SERVICE

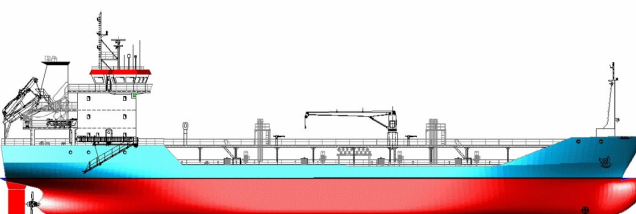



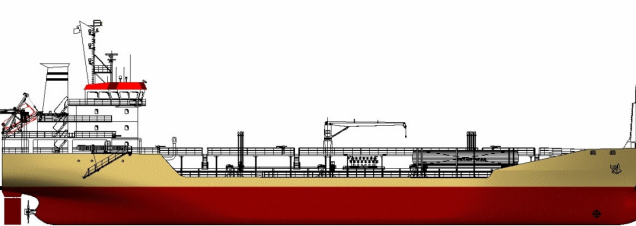

SHIP NAME	M/T AMANDA (EX. PAKİZE S)
PROJECT NAME	7000 DWT OIL / CHEMICAL TANKER
PROJECT NR	DLT - 048
OWNER	MED MARINE DENİZCİLİK RÖM. VE ESK. HİZ. LTD. ŞTİ.
SHIPYARD	TORGEM
HULL NR	071
CLASS	BV
STATUS	IN SERVICE

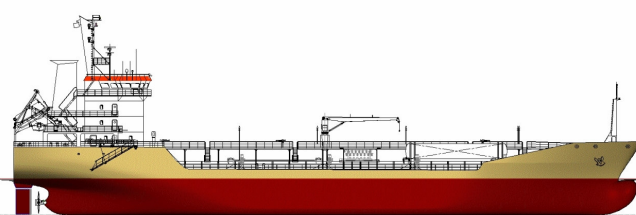

# REFERENCES

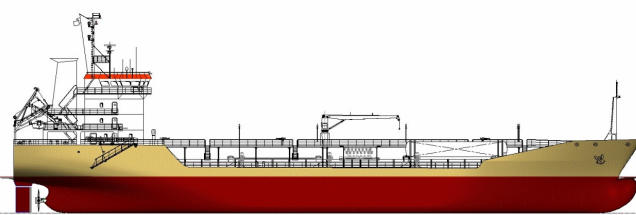



 	<b>SHIP NAME</b>	M/T ODIN
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 049
	<b>OWNER</b>	TSC DENİZCİLİK A.S.
	<b>SHIPYARD</b>	DEARSAN
	<b>HULL NR</b>	20
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

 	<b>SHIP NAME</b>	M/T ELSA THERESA
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 049
	<b>OWNER</b>	HERNING SHIPPING A.S.
	<b>SHIPYARD</b>	DEARSAN
	<b>HULL NR</b>	21
	<b>CLASS</b>	BV
	<b>STATUS</b>	UNDER CONSTRUCTION

 	<b>SHIP NAME</b>	M/T ÖZ-AY 4
	<b>PROJECT NAME</b>	5850 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 050
	<b>OWNER</b>	BİLNAM İŞLETMECİLİK VE TİCARET LTD. ŞTİ.
	<b>SHIPYARD</b>	TORLAK
	<b>HULL NR</b>	40
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

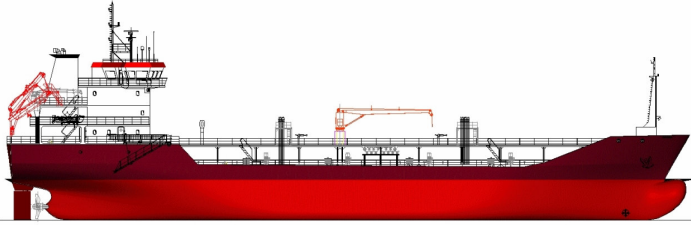

 	<b>SHIP NAME</b>	M/T FS CLARA
	<b>PROJECT NAME</b>	5850 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 051
	<b>OWNER</b>	FOUQUET SACOP
	<b>SHIPYARD</b>	YARDIMCI
	<b>HULL NR</b>	32
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

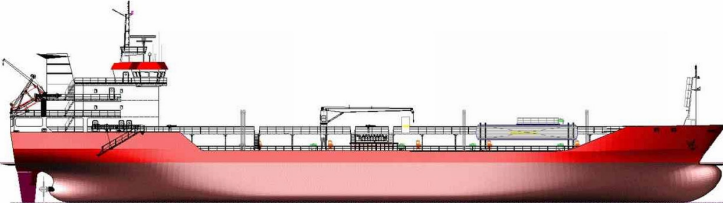

 	<b>SHIP NAME</b>	M/T FS PAULINE
	<b>PROJECT NAME</b>	5850 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 051
	<b>OWNER</b>	FOUQUET SACOP
	<b>SHIPYARD</b>	YARDIMCI
	<b>HULL NR</b>	35
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

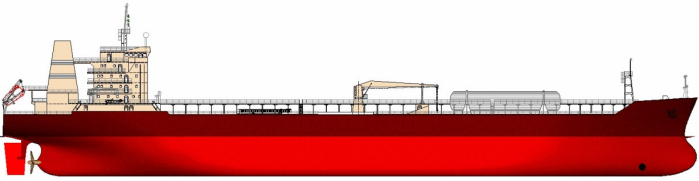



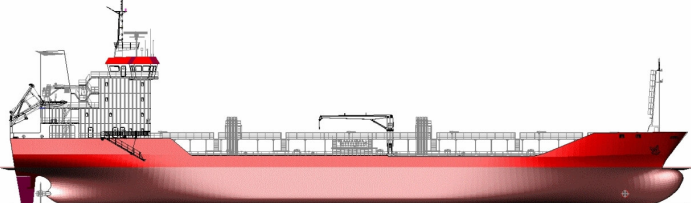

# REFERENCES

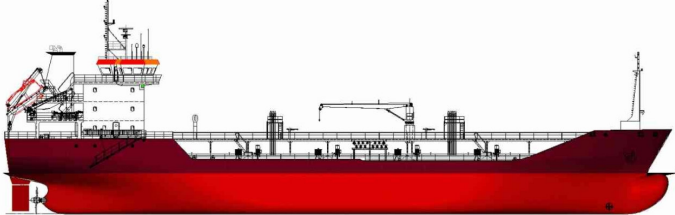



 	<b>SHIP NAME</b>	M/T ATLANTIS ALVARADO
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 052
	<b>OWNER</b>	ARMONA DENİZCİLİK A.Ş
	<b>SHIPYARD</b>	GELİBOLU
	<b>HULL NR</b>	24
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

 	<b>SHIP NAME</b>	M/T MARELD
	<b>PROJECT NAME</b>	7100 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 053
	<b>OWNER</b>	VADERÖ TANK AB
	<b>SHIPYARD</b>	SELAH
	<b>HULL NR</b>	38
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

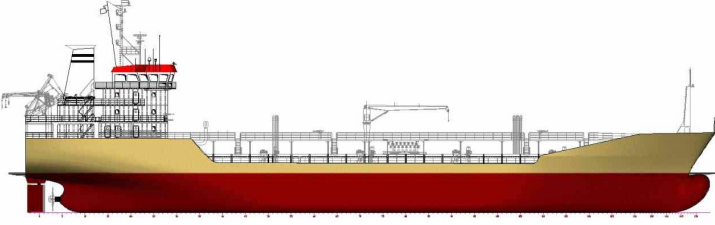

 	<b>SHIP NAME</b>	M/T H.İSMAIL KAPTANOĞLU
	<b>PROJECT NAME</b>	40000 DWT OIL TANKER
	<b>PROJECT NR</b>	DLT - 054
	<b>OWNER</b>	BARRACUDA MARINE Co. LTD.
	<b>SHIPYARD</b>	TROGIR / ÇİÇEK
	<b>HULL NR</b>	202 / ?
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

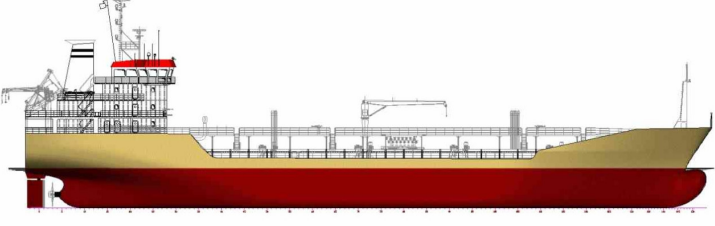

 	<b>SHIP NAME</b>	M/T COVADONGA
	<b>PROJECT NAME</b>	7000 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 055
	<b>OWNER</b>	ALVARGONZALEZ S.A
	<b>SHIPYARD</b>	TUZLA GEMİ
	<b>HULL NR</b>	25
	<b>CLASS</b>	LR
	<b>STATUS</b>	IN SERVICE

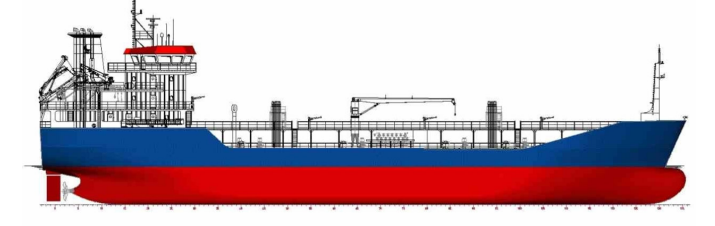

 	<b>SHIP NAME</b>	M/T MUSTAFA KEMAL 2
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 056
	<b>OWNER</b>	MUSTAFA OKAN OGULLARI GEM. SAN VE TIC. LTD. STI
	<b>SHIPYARD</b>	YILMAZ
	<b>HULL NR</b>	22
	<b>CLASS</b>	BV
	<b>STATUS</b>	UNDER CONSTRUCTION

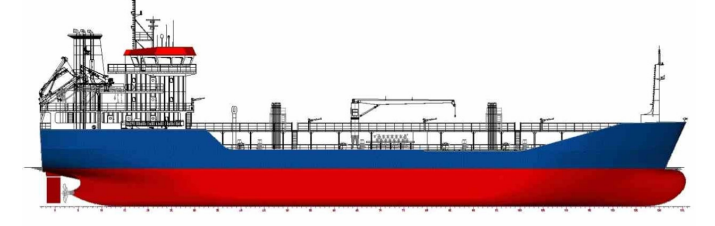

# REFERENCES




 	<b>SHIP NAME</b>	M/T MONTAUK
	<b>PROJECT NAME</b>	5850 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 057
	<b>OWNER</b>	TREFIN TANKERS
	<b>SHIPYARD</b>	TORGEM
	<b>HULL NR</b>	076
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

 	<b>SHIP NAME</b>	M/T YIGIT BEY
	<b>PROJECT NAME</b>	5850 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 058
	<b>OWNER</b>	MASTER DENİZÇİLİK VE TİC. LTD.
	<b>SHIPYARD</b>	İSTANBUL
	<b>HULL NR</b>	10
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

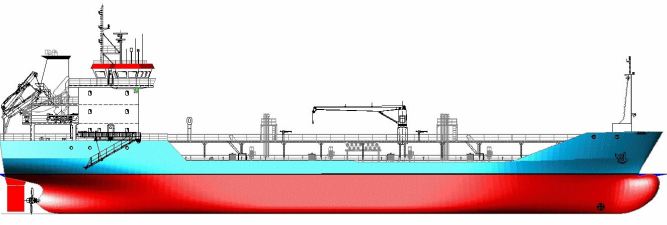

 	<b>SHIP NAME</b>	M/T CRESCENT BARBERA
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 059
	<b>OWNER</b>	CRESCENT TANKSHIPS LTD.
	<b>SHIPYARD</b>	YARDIMCI
	<b>HULL NR</b>	28
	<b>CLASS</b>	ABS
	<b>STATUS</b>	UNDER CONSTRUCTION

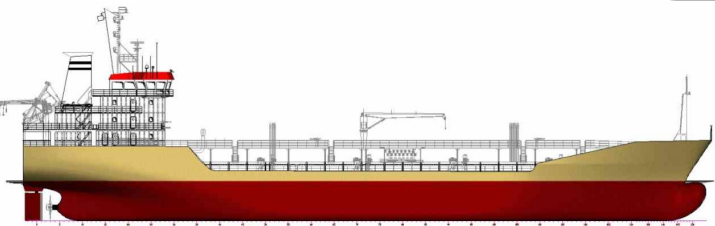

 	<b>SHIP NAME</b>	M/T CRESCENT BAROLO
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 059
	<b>OWNER</b>	CRESCENT TANKSHIPS LTD.
	<b>SHIPYARD</b>	YARDIMCI
	<b>HULL NR</b>	29
	<b>CLASS</b>	ABS
	<b>STATUS</b>	UNDER CONSTRUCTION

 	<b>SHIP NAME</b>	M/T ZEYCAN
	<b>PROJECT NAME</b>	15750 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 060
	<b>OWNER</b>	YILDIRIM DIŞ TİCARET A.Ş.
	<b>SHIPYARD</b>	MARMARA
	<b>HULL NR</b>	69
	<b>CLASS</b>	BV
	<b>STATUS</b>	UNDER CONSTRUCTION

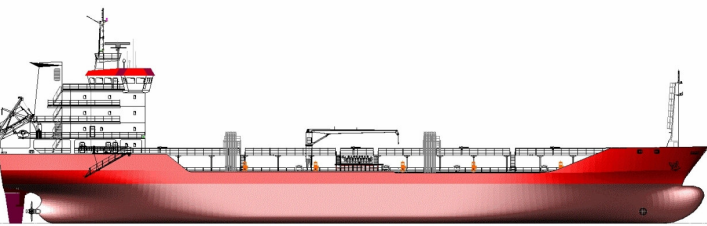

# REFERENCES

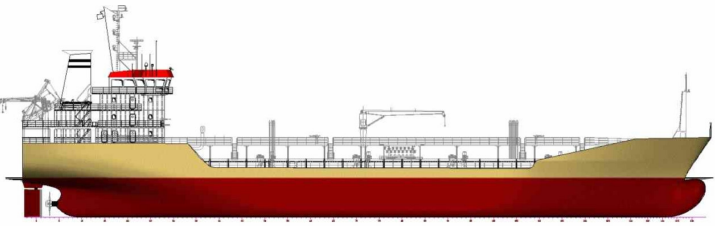



 	<b>SHIP NAME</b>	M/T SUSANNE THERESA
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 061
	<b>OWNER</b>	HERNING SHIPPING A.S.
	<b>SHIPYARD</b>	DEARSAN
	<b>HULL NR</b>	24
	<b>CLASS</b>	BV
	<b>STATUS</b>	UNDER CONSTRUCTION

 	<b>SHIP NAME</b>	M/T LILAC
	<b>PROJECT NAME</b>	5850 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 062
	<b>OWNER</b>	CHEMMARINER SHIPPING LTD.
	<b>SHIPYARD</b>	TORGEM
	<b>HULL NR</b>	77
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

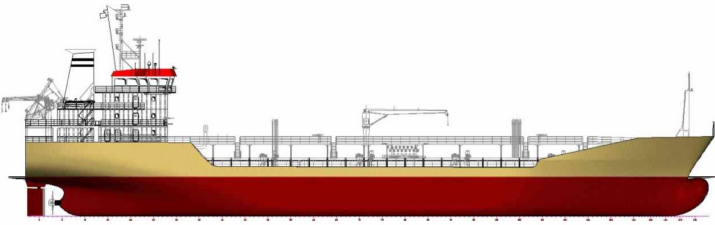

 	<b>SHIP NAME</b>	M/T FS CHARLOTTE
	<b>PROJECT NAME</b>	11000 DWT MOLTEN SULPHUR / BITUMEN TANKER
	<b>PROJECT NR</b>	DLT - 063
	<b>OWNER</b>	FOUQUET SACOP MARITIME
	<b>SHIPYARD</b>	YARDIMCI
	<b>HULL NR</b>	40
	<b>CLASS</b>	BV
	<b>STATUS</b>	UNDER CONSTRUCTION

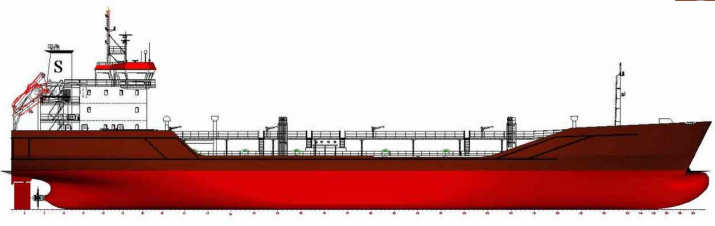

 	<b>SHIP NAME</b>	M/T PLEVNE
	<b>PROJECT NAME</b>	7000 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 064
	<b>OWNER</b>	DEVAL DENİZCİLİK
	<b>SHIPYARD</b>	ÇELİKTEKNE
	<b>HULL NR</b>	55
	<b>CLASS</b>	ABS
	<b>STATUS</b>	UNDER CONSTRUCTION

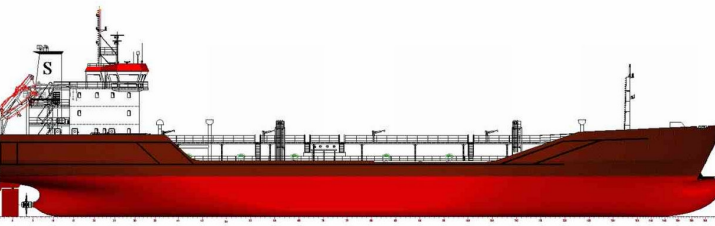

 	<b>SHIP NAME</b>	M/T YM EARTH
	<b>PROJECT NAME</b>	5850 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 065
	<b>OWNER</b>	YILYAK A.Ş.
	<b>SHIPYARD</b>	MARMARA
	<b>HULL NR</b>	68
	<b>CLASS</b>	BV
	<b>STATUS</b>	UNDER CONSTRUCTION

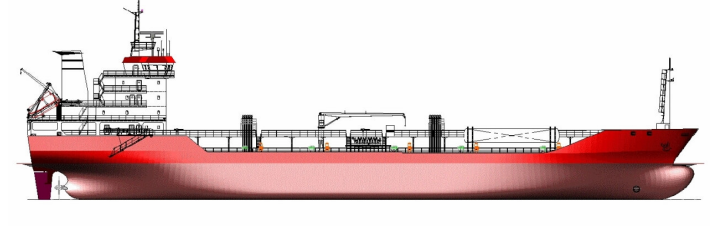

# REFERENCES

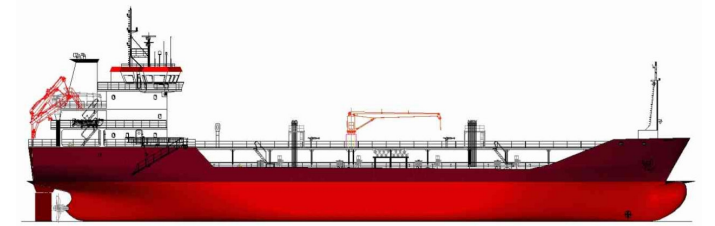



		<b>SHIP NAME</b>	M/T YM MARS
	<b>PROJECT NAME</b>	5850 DWT OIL / CHEMICAL TANKER	
	<b>PROJECT NR</b>	DLT - 065	
	<b>OWNER</b>	YILYAK A.Ş	
	<b>SHIPYARD</b>	MARMARA	
	<b>HULL NR</b>	69	
	<b>CLASS</b>	BV	
	<b>STATUS</b>	IN SERVICE	

		<b>SHIP NAME</b>	M/T ORAHOLM
	<b>PROJECT NAME</b>	4500 DWT OIL / CHEMICAL TANKER	
	<b>PROJECT NR</b>	DLT - 066	
	<b>OWNER</b>	REDERIET MH SIMONSEN APS	
	<b>SHIPYARD</b>	DESAN	
	<b>HULL NR</b>	12	
	<b>CLASS</b>	BV	
	<b>STATUS</b>	UNDER CONSTRUCTION	

		<b>SHIP NAME</b>	4500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NAME</b>	4500 DWT OIL / CHEMICAL TANKER	
	<b>PROJECT NR</b>	DLT - 066	
	<b>OWNER</b>	REDERIET MH SIMONSEN APS	
	<b>SHIPYARD</b>	DESAN	
	<b>HULL NR</b>	14	
	<b>CLASS</b>	BV	
	<b>STATUS</b>	UNDER CONSTRUCTION	

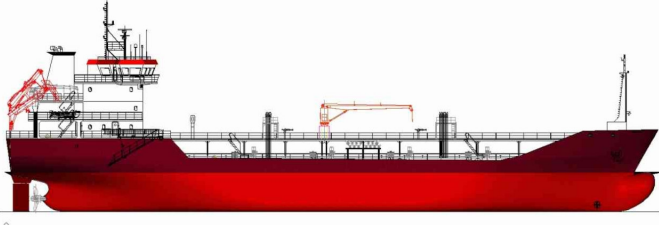

		<b>SHIP NAME</b>	M/T RED WING
	<b>PROJECT NAME</b>	7000 DWT OIL / CHEMICAL TANKER	
	<b>PROJECT NR</b>	DLT - 067	
	<b>OWNER</b>	GEMAK GEMİ İNŞAAT SAN. VE TİC.	
	<b>SHIPYARD</b>	TUZLA GEMİ	
	<b>HULL NR</b>	26	
	<b>CLASS</b>	BV	
	<b>STATUS</b>	IN SERVICE	

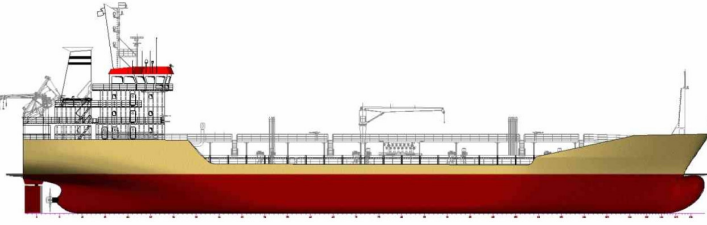

		<b>SHIP NAME</b>	M/T ATLANTIS ALDABRA
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER	
	<b>PROJECT NR</b>	DLT - 068	
	<b>OWNER</b>	ARMONA DENİZCİLİK A.Ş	
	<b>SHIPYARD</b>	ÇELİKTRANS	
	<b>HULL NR</b>	28	
	<b>CLASS</b>	BV	
	<b>STATUS</b>	IN SERVICE	

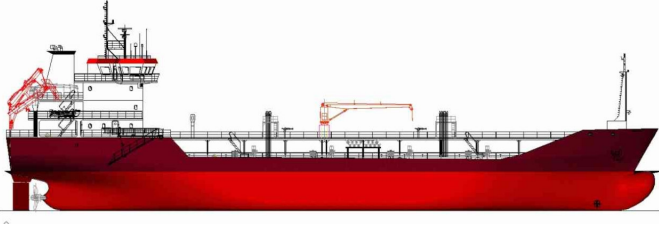



# REFERENCES



 	<b>SHIP NAME</b>	M/T ATLANTIS ACRA
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 068
	<b>OWNER</b>	ARMONA DENİZCİLİK A.Ş
	<b>SHIPYARD</b>	ÇELİKTRANS
	<b>HULL NR</b>	29
	<b>CLASS</b>	BV
	<b>STATUS</b>	UNDER CONSTRUCTION

 	<b>SHIP NAME</b>	M/T NİYAZI - S
	<b>PROJECT NAME</b>	5850 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 069
	<b>OWNER</b>	ŞENER PETROL DENİZCİLİK A.Ş
	<b>SHIPYARD</b>	YILDIRIM
	<b>HULL NR</b>	104
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE

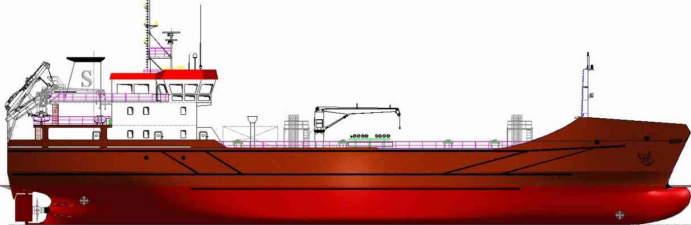
 	<b>SHIP NAME</b>	M/T GELİBOLU 26
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 070
	<b>OWNER</b>	AKSOY DENİZCİLİK A.Ş
	<b>SHIPYARD</b>	GELİBOLU
	<b>HULL NR</b>	26
	<b>CLASS</b>	BV
	<b>STATUS</b>	IN SERVICE


 	<b>SHIP NAME</b>	M/T PULI 1
	<b>PROJECT NAME</b>	15000 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 071
	<b>OWNER</b>	LİMANKÖY DENİZCİLİK A.Ş
	<b>SHIPYARD</b>	ÇİÇEK
	<b>HULL NR</b>	36
	<b>CLASS</b>	BV
	<b>STATUS</b>	UNDER CONSTRUCTION

 	<b>SHIP NAME</b>	M/T ACACIA
	<b>PROJECT NAME</b>	7000 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 072
	<b>OWNER</b>	CHEMMARINER SHIPPING LTD.
	<b>SHIPYARD</b>	SELAH
	<b>HULL NR</b>	44
	<b>CLASS</b>	BV
	<b>STATUS</b>	UNDER CONSTRUCTION

# REFERENCES







SHIP NAME	1700 DWT OIL / CHEMICAL TANKER
PROJECT NAME	1700 DWT OIL / CHEMICAL TANKER
PROJECT NR	DLT - 073
OWNER	REDERİET MH SIMONSEN APS
SHIPYARD	DESAN
HULL NR	17
CLASS	BV
STATUS	UNDER CONSTRUCTION





SHIP NAME	NOURRAHMA
PROJECT NAME	FISHING VESSEL
PROJECT NR	DLT - 074
OWNER	USTAMEHMETOGLU TERSANESİ
SHIPYARD	USTAMEHMETOGLU
HULL NR	163
CLASS	BV
STATUS	UNDER CONSTRUCTION



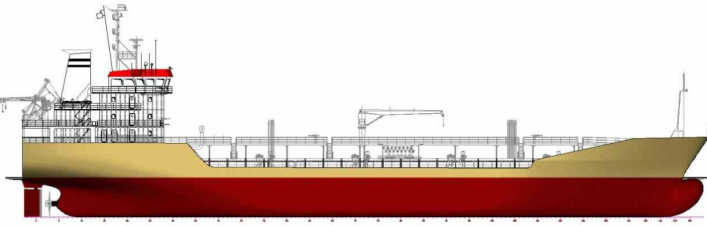



SHIP NAME	SABRRAHMAN
PROJECT NAME	FISHING VESSEL
PROJECT NR	DLT - 074
OWNER	USTAMEHMETOGLU TERSANESİ
SHIPYARD	USTAMEHMETOGLU
HULL NR	164
CLASS	BV
STATUS	UNDER CONSTRUCTION





SHIP NAME	ELFELABELKADER 7
PROJECT NAME	FISHING VESSEL
PROJECT NR	DLT - 074
OWNER	USTAMEHMETOGLU TERSANESİ
SHIPYARD	USTAMEHMETOGLU
HULL NR	165
CLASS	BV
STATUS	UNDER CONSTRUCTION

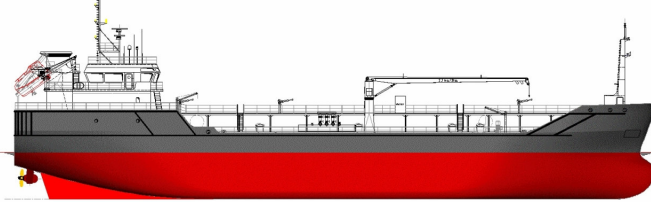





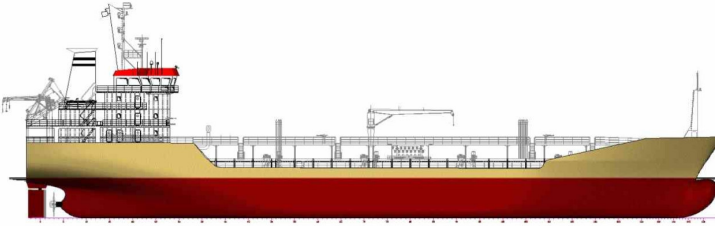

SHIP NAME	5850 DWT OIL / CHEMICAL TANKER
PROJECT NAME	5850 DWT OIL / CHEMICAL TANKER
PROJECT NR	DLT - 075
OWNER	MARİNA DENİZCİLİK A.Ş
SHIPYARD	TORGEM
HULL NR	80
CLASS	BV
STATUS	UNDER CONSTRUCTION

# REFERENCES

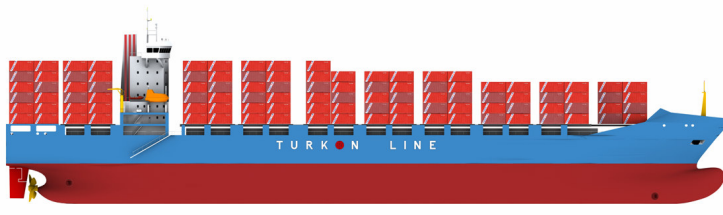



		<b>SHIP NAME</b>	M/T FS CAMILLE
	<b>PROJECT NAME</b>	3900 OIL PRODUCT TANKER	
	<b>PROJECT NR</b>	DLT - 076	
	<b>OWNER</b>	FOUQUET SACOP MARITIME	
	<b>SHIPYARD</b>	YARDIMCI	
	<b>HULL NR</b>	54	
	<b>CLASS</b>	DNV	
	<b>STATUS</b>	UNDER CONSTRUCTION	

		<b>SHIP NAME</b>	7500 OIL/CHEMICAL & LPG TANKER
	<b>PROJECT NAME</b>	7500 OIL/CHEMICAL & LPG TANKER	
	<b>PROJECT NR</b>	DLT - 077	
	<b>OWNER</b>	FOUQUET SACOP MARITIME	
	<b>SHIPYARD</b>	YARDIMCI	
	<b>HULL NR</b>	36	
	<b>CLASS</b>	DNV	
	<b>STATUS</b>	AT DESIGN STAGE	

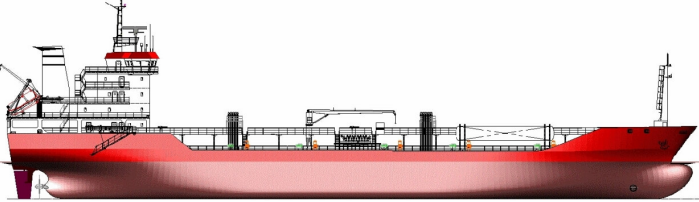

		<b>SHIP NAME</b>	M/T ÖZDEN - S
	<b>PROJECT NAME</b>	5850 DWT OIL / CHEMICAL TANKER	
	<b>PROJECT NR</b>	DLT - 078	
	<b>OWNER</b>	ŞENER PETROL DENİZCİLİK A.Ş	
	<b>SHIPYARD</b>	YILDIRIM	
	<b>HULL NR</b>	105	
	<b>CLASS</b>	BV	
	<b>STATUS</b>	UNDER CONSTRUCTION	

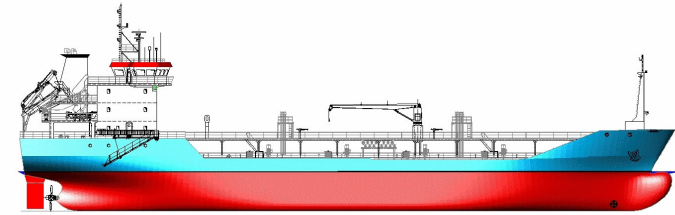

		<b>SHIP NAME</b>	M/T PULI 2
	<b>PROJECT NAME</b>	15000 DWT OIL / CHEMICAL TANKER	
	<b>PROJECT NR</b>	DLT - 079	
	<b>OWNER</b>	ÇAMLICA DENİZCİLİK A.Ş	
	<b>SHIPYARD</b>	ÇİÇEK	
	<b>HULL NR</b>	38	
	<b>CLASS</b>	BV	
	<b>STATUS</b>	UNDER CONSTRUCTION	

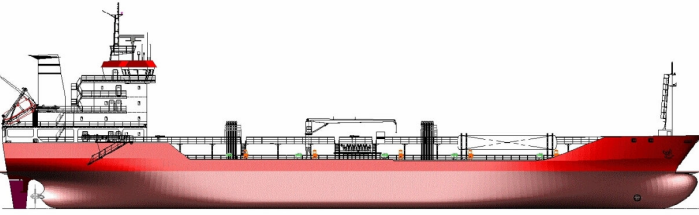

		<b>SHIP NAME</b>	1800 TEU CONTAINER
	<b>PROJECT NAME</b>	1800 TEU CONTAINER	
	<b>PROJECT NR</b>	DLT - 080	
	<b>OWNER</b>	TURKON TRANSPORTATION & SHIPPING Co	
	<b>SHIPYARD</b>	SEDEF	
	<b>HULL NR</b>	143	
	<b>CLASS</b>	ABS	
	<b>STATUS</b>	AT DESIGN STAGE	

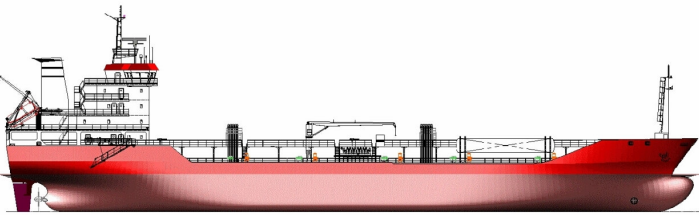

# REFERENCES

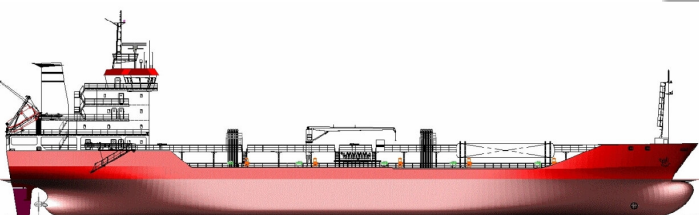



 	<b>SHIP NAME</b>	7000 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NAME</b>	7000 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 081
	<b>OWNER</b>	MED MARINE DENİZCİLİK RÖM. VE ESK. HİZ. LTD. ŞTİ.
	<b>SHIPYARD</b>	USMED
	<b>HULL NR</b>	001
	<b>CLASS</b>	BV
	<b>STATUS</b>	UNDER CONSTRUCTION

 	<b>SHIP NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NAME</b>	3500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 082
	<b>OWNER</b>	YDC DENİZCİLİK A.S.
	<b>SHIPYARD</b>	DEARSAN
	<b>HULL NR</b>	2035
	<b>CLASS</b>	BV
	<b>STATUS</b>	UNDER CONSTRUCTION

 	<b>SHIP NAME</b>	7000 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NAME</b>	7000 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 083
	<b>OWNER</b>	DÜZGİT GEMİ İNŞA SAN. A.Ş
	<b>SHIPYARD</b>	MARMARA
	<b>HULL NR</b>	72
	<b>CLASS</b>	BV
	<b>STATUS</b>	UNDER CONSTRUCTION

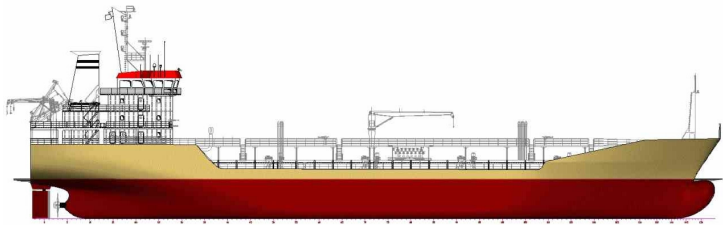
 	<b>SHIP NAME</b>	7000 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NAME</b>	7000 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 084
	<b>OWNER</b>	MED MARINE DENİZCİLİK RÖM. VE ESK. HİZ. LTD. ŞTİ.
	<b>SHIPYARD</b>	EREĞLİ
	<b>HULL NR</b>	03
	<b>CLASS</b>	BV
	<b>STATUS</b>	UNDER CONSTRUCTION


 	<b>SHIP NAME</b>	7000 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NAME</b>	7000 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 084
	<b>OWNER</b>	MED MARINE DENİZCİLİK RÖM. VE ESK. HİZ. LTD. ŞTİ.
	<b>SHIPYARD</b>	EREĞLİ
	<b>HULL NR</b>	04
	<b>CLASS</b>	BV
	<b>STATUS</b>	UNDER CONSTRUCTION



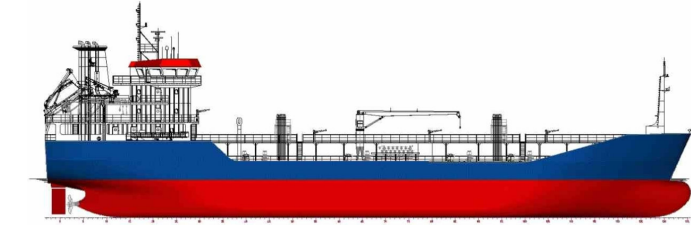
# REFERENCES








<b>SHIP NAME</b>	5850 DWT OIL / CHEMICAL TANKER
<b>PROJECT NAME</b>	5850 DWT OIL / CHEMICAL TANKER
<b>PROJECT NR</b>	DLT – 085
<b>OWNER</b>	YDC DENIZCILIK A.S.
<b>SHIPYARD</b>	DEARSAN
<b>HULL NR</b>	2035
<b>CLASS</b>	BV
<b>STATUS</b>	UNDER CONSTRUCTION





<b>SHIP NAME</b>	3500 DWT OIL/CHEMICAL TANKER
<b>PROJECT NAME</b>	3500 DWT OIL/CHEMICAL TANKER
<b>PROJECT NR</b>	DLT – 086
<b>OWNER</b>	YARDIMCI GEMİ İNSA A.S.
<b>SHIPYARD</b>	YARDIMCI
<b>HULL NR</b>	41-42
<b>CLASS</b>	ABS
<b>STATUS</b>	UNDER CONSTRUCTION



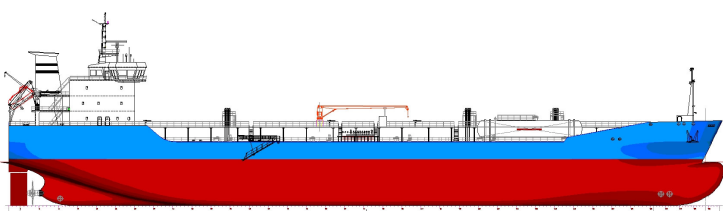



<b>SHIP NAME</b>	20000 DWT BULK CARRIER
<b>PROJECT NAME</b>	20000 DWT BULK CARRIER
<b>PROJECT NR</b>	DLT - 087
<b>OWNER</b>	İLERİ DENİZCILİK A.S.
<b>SHIPYARD</b>	TORGEM
<b>HULL NR</b>	87
<b>CLASS</b>	BV
<b>STATUS</b>	AT DESIGN STAGE





<b>SHIP NAME</b>	20000 DWT BULK CARRIER
<b>PROJECT NAME</b>	20000 DWT BULK CARRIER
<b>PROJECT NR</b>	DLT - 087
<b>OWNER</b>	İLERİ DENİZCILİK A.S.
<b>SHIPYARD</b>	TORGEM
<b>HULL NR</b>	88
<b>CLASS</b>	BV
<b>STATUS</b>	AT DESIGN STAGE





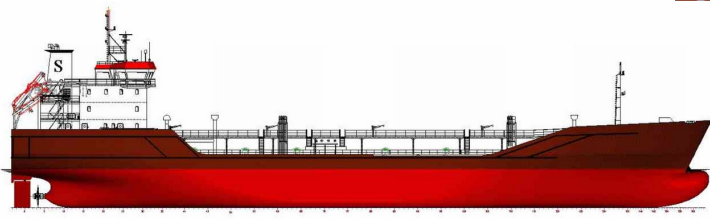
<b>SHIP NAME</b>	10000 DWT OIL/CHEMICAL TANKER
<b>PROJECT NAME</b>	10000 DWT OIL/CHEMICAL TANKER
<b>PROJECT NR</b>	DLT - 088
<b>OWNER</b>	ATLANTİK DENİZCILİK SAN. VE TİC.
<b>SHIPYARD</b>	SELAH
<b>HULL NR</b>	49
<b>CLASS</b>	BV
<b>STATUS</b>	AT DESIGN STAGE

# REFERENCES



	<b>SHIP NAME</b>	20000 DWT OIL/CHEMICAL TANKER
	<b>PROJECT NAME</b>	20000 DWT OIL/CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 089
	<b>OWNER</b>	SOLI GEMI İNŞA SAN. VE TİC.A.S.
	<b>SHIPYARD</b>	SOLI
	<b>HULL NR</b>	01
	<b>CLASS</b>	BV
	<b>STATUS</b>	AT DESIGN STAGE

	<b>SHIP NAME</b>	20000 DWT OIL/CHEMICAL TANKER
	<b>PROJECT NAME</b>	20000 DWT OIL/CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 089
	<b>OWNER</b>	SOLI GEMI İNŞA SAN. VE TİC.A.S.
	<b>SHIPYARD</b>	SOLI
	<b>HULL NR</b>	02
	<b>CLASS</b>	BV
	<b>STATUS</b>	AT DESIGN STAGE

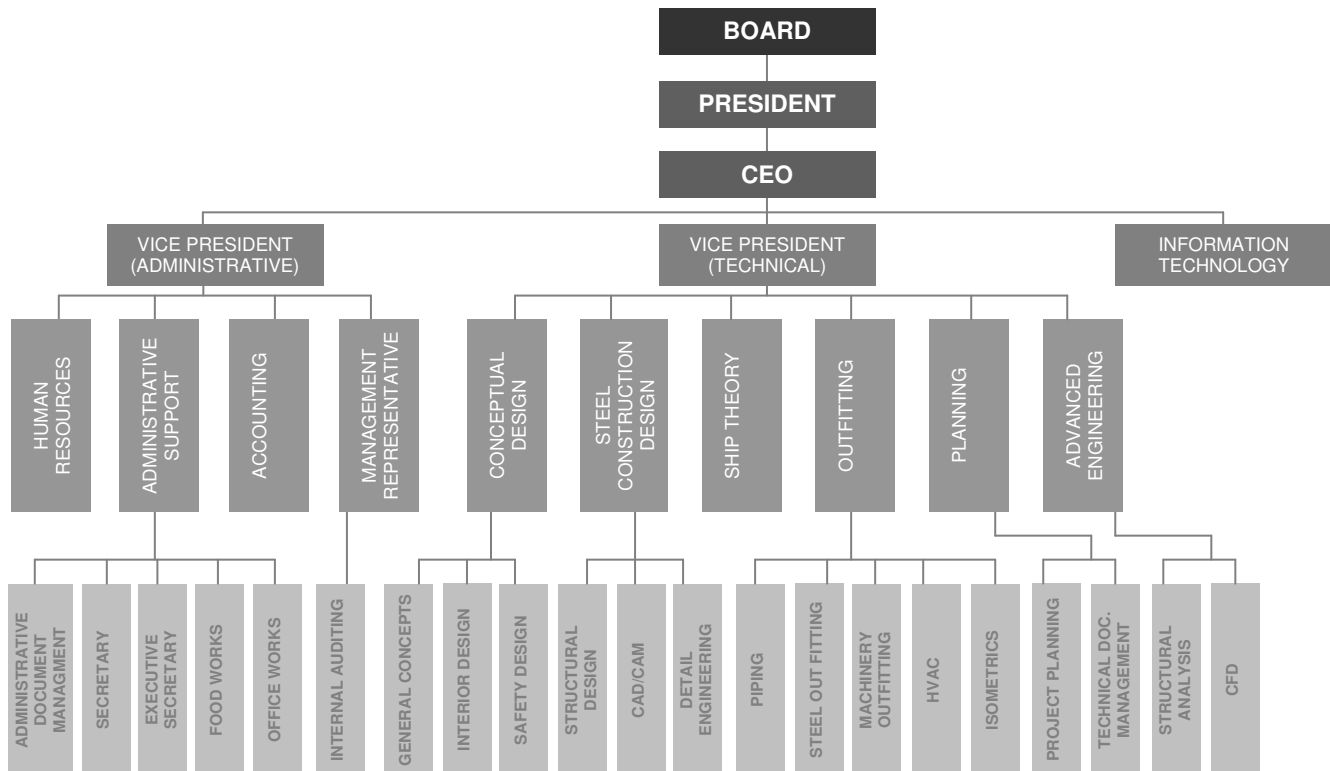
	<b>SHIP NAME</b>	4500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NAME</b>	4500 DWT OIL / CHEMICAL TANKER
	<b>PROJECT NR</b>	DLT - 090
	<b>OWNER</b>	REDERIET MH SIMONSEN APS
	<b>SHIPYARD</b>	DESAN
	<b>HULL NR</b>	15
	<b>CLASS</b>	BV
	<b>STATUS</b>	AT DESIGN STAGE

## HUMAN RESOURCES



Naval Architect / Marine Engineer	25	Draftsman	7
Ocean Engineer	3	Software Engineer	4
Mechanical Engineer	4	Accountant	2
Industrial Engineer	1	Secretary	3
Industrial Designer	2	Office Boy	2
Architect	1	Cook	1
Aeronautical Engineer	1	Trainee	1
<b>Total</b>			<b>57</b>

## ORGANIZATION CHART



## HARDWARE AND SOFTWARE RESOURCES

### SOFTWARE FOR GENERAL DESIGN PURPOSES



#### TRIBON

**Producer Company** : Aveva & Tribon Solutions Inc.

**Particulars** : Tribon helps define your vessel, build strategy and create assembly production information. The application supports numerous activities in the work preparation and production engineering area. Production and assembly structures can easily be defined and maintained with Assembly Planning.

**Purpose to use** : Creation of the whole design process of ship from the initial design until detailed production drawings



#### MICROSTATION

**Producer Company** : Bentley Systems Inc.

**Particulars** : MicroStation is a single, comprehensive platform for design and engineering projects. MicroStation capabilities are suited for 3D modeling, data versatility, workgroup productivity and application development.

**Purpose to use** : Basic graphics for the whole design, furnishing engineering and architectural design



#### AUTOCAD

**Producer Company** : Autodesk

**Particulars** : AutoCAD is the 2D drafting and detailing and 3D design tool providing native DWG compatibility and also integrates new and enhanced productivity tools, presentation graphics, CAD standards.

**Purpose to use** : Basic graphics for the whole design of the vessel



## HARDWARE AND SOFTWARE RESOURCES

### SOFTWARE FOR GENERAL DESIGN PURPOSES



#### **NAPA**

**Producer Company :** NAPA Ltd.

**Particulars :** NAPA is a CAE system for initial and basic ship design. It offers powerful functions for the modelling of ships and performing versatile design analysis calculations: 3D modelling of the entire ship, Standard naval architectural calculations, Hydrodynamic calculations, Report generator and drawing functions, Communication with other design systems through numerous links and interfaces. Onboard-NAPA is an advanced software system for on board calculations of ship loading, damage stability analysis, decision support, and ship performance predictions. It can be used onboard all kinds of vessels, such as car ferries, cruise liners, tankers, cable ships and naval ships. The Onboard-NAPA and NAPA systems share the same reliable core technology.

**Purpose to use :** Hull form design, hull fairing, hull form optimization.



#### **AUTO PLANT**

**Producer Company :** Bentley Systems Inc.

**Particulars :** AutoPlant is a tool for analyzing systems of any complexity, combining object-based graphics technology with advanced analytical capabilities.

**Purpose to use :** To design the piping system and coordination plans of machinery and decks

## HARDWARE AND SOFTWARE RESOURCES ENGINEERING ANALYSIS SOFTWARE



### ABAQUS

**Producer Company :** ABAQUS, Inc.

**Particulars :** ABAQUS provides solutions for linear, non-linear, explicit and multi-body dynamics problems to deliver a unified finite element analysis environment. The ABAQUS suite consists of three core products, ABAQUS/Standard which provides, analysis technology to solve traditional implicit finite element analyses, such as static, dynamics, thermal, all powered with the widest range of contact and nonlinear material options. ABAQUS/Explicit, is focused on transient dynamics and quasi-static analyses using an explicit approach appropriate in many applications such as drop test, crushing and many manufacturing processes. ABAQUS/CAE, provides a complete modeling and visualization environment for ABAQUS analysis products.

**Purpose to use :** ABAQUS is being used to make many kinds of linear and non-linear analyses such as global vibration analyses of the ships with the interaction of surrounding water, structural stress patterns occurred at the global or local part of ships caused by the sea loading, internal loading or underwater explosions, thermal stress distribution occurred in tank structures caused by the thermal loads, structural born noise calculations, contact problems and crash test analyses.



### ANSYS

**Producer Company :** ANSYS Inc.

**Particulars :** ANSYS is a general purpose finite element modelling and analysis software that can be used to analyse complex problems in mechanical structures, thermal processes, computational fluid dynamics, magnetic, electrical fields.

**Purpose to use :** Ansys/Professional product is being used to analyse the vibration characteristics of the ships, structural stress patterns occurred at the global and local part of ships and thermal stress distribution occurred in tank structures because of thermal loads.



### FLUENT

**Producer Company :** Fluent Inc.

**Particulars :** Fluent is the solver based on the finite volume method, in which all of the fluid dynamic problems can be analyzed computationally. Thank to the post processing of the FLUENT, the results can be investigated in detail.

**Purpose to use :** Resistance and propulsion analyses, form and appendages analyses, propeller-based noise and vibration analyses, flow analyses around the superstructure, ventilation and air-conditioning analyses, analyses of the objects of 6 freedom degree in fluids (dynamic mesh).

## HARDWARE AND SOFTWARE RESOURCES

### ENGINEERING ANALYSIS SOFTWARE



#### **GAMBIT**

**Producer Company :** Fluent Inc.

**Particulars :** Gambit is the mesh generator program, in which the grid of the model is built to analyze in CFD Software.

**Purpose to use :** Mesh and Grid Generation of the Models



#### **TECPLOT**

**Producer Company :** Amtec Inc.

**Particulars :** Tecplot is a 2-D and 3-D data graphing, plotting, scientific visualization and evaluation tool.

**Purpose to use :** To plot, visualize and evaluate the solutions of numerical analyses (FEM, VOF).



#### **DELTAFLOW**

**Producer Company :** In House

**Particulars :** Potential flow solution with panel method, around the hull

**Purpose to use :** To make the form optimization by solving potential flow around the hull, to determine the streamlines and to calculate the wave making resistance

### SOFTWARE FOR OPERATING SYSTEM & OFFICE WORKS



#### **WINDOWS 2000 & WINDOWS NT**

**Producer Company :** Microsoft Corporation

**Particulars :** Worldwide used operating systems

**Purpose to use :** To operate the whole computer based system



#### **OFFICE PROGRAMS (WORD, EXCEL, POWERPOINT)**

**Producer Company :** Microsoft Corporation

**Particulars :** Worldwide used software for office works

**Purpose to use :** To prepare necessary documents for different office purposes and presentations



#### **ADOBE ACROBAT**

**Producer Company :** Adobe Systems Inc.

**Particulars :** Adobe PDF is a reliable format for electronic document exchange that preserves document integrity so files can be viewed and printed on a variety of platforms.

**Purpose to use :** To prepare and keep design and official documents in a secure environment

## HARDWARE AND SOFTWARE RESOURCES

### SOFTWARE FOR ENGINEERING PROJECT & INFORMATION MANAGEMENT



#### PROJECTWISE

**Producer Company** : Bentley Systems Inc.

**Particulars** : Bentley ProjectWise is the AEC content management solution, designed to handle MicroStation DGN and AutoCAD DWG files, as well as other business file formats, for the engineering office. Users can consolidate decentralized engineering content into a single presentation to ensure that all project team members have access to the right data when needed.

**Purpose to use** : To handle the document management, work flow management and engineering project management issues in an integrated solution



#### SMARTDRAW

**Producer Company** : smartdraw.com

**Particulars** : SmartDraw is the easy-to-use software for creating business charts, diagrams, technical drawings and business documents.

**Purpose to use** : To create necessary process diagrams for defining the working System of the company, special informative documentation about the staff using the pre-defined forms.



#### MS PROJECT

**Producer Company** : Microsoft Corporation

**Particulars** : MS Project is a software specialized to manage projects independently or as part of a large organization

**Purpose to use** : To make financial analysis and scheduling in order to track the flows of every single project separately and all together.

### SOFTWARE FOR NAVAL ARCHITECTURE



#### B\_SURF

**Producer Company** : In House

**Particulars** : Hull modeling, fairing and ship theory calculations  
**Purpose to use** : To create and modify the form of the vessel, to create a new vessel form from an old one, to make fairing, to create a database for the theoretical calculations, to divide the surface into the panels for DeltaFlow



#### DAMAGE SHIP

**Producer Company** : In House

**Particulars** : To make the necessary damage calculations for the vessel

**Purpose to use** : To make necessary probabilistic and deterministic damaged stability calculations and to control the compatibility with the international rules for vessels bulk carriers, tankers and passenger



## HARDWARE AND SOFTWARE RESOURCES

### SOFTWARE FOR NAVAL ARCHITECTURE



#### DELTA LOAD

**Producer Company :** In House

**Particulars :** Ship loading condition calculation, information booklet preparation

**Purpose to use :** To make any type of loading calculation, to determine the intact stability and longitudinal strength values with controlling the suitability to the international rules for tankers, bulk carriers and containers.

### SOFTWARE OF CLASSIFICATION SOCIETIES



#### SAFEHULL

**Producer Company :** American Bureau of Shipping  
**Particulars :** Rule and ship structure FEM software

**Purpose to use :** Modeling, dimensioning, preparing the FEM model and realizing the analyses of the structural elements of the vessel according to ABS rules.

### SOFTWARE FOR GRAPHIC DESIGN



#### COREL

**Producer Company :** Corel Corporation

**Particulars :** Graphic design and vector animation software for print and the Web

**Purpose to use :** To create necessary graphical design files especially for presentation documents



#### MARS

**Producer Company :** Bureau Veritas

**Particulars :** Rule Software

**Purpose to use :** Modeling and dimensioning the plates and secondary structural elements of the vessel according to BV rules.



#### ADOBE PHOTOSHOP

**Producer Company :** Adobe Systems Inc.

**Particulars :** Image editing and graphic design software

**Purpose to use :** To create necessary graphical design files especially for presentation documents

*Superior Hull Design Software.*

## POSEIDON ND

#### POSEIDON

**Producer Company :** Germanischer Lloyd

**Particulars :** Rule and ship structure FEM software

**Purpose to use :** Modeling, dimensioning, preparing the FEM model of the structural elements of the vessel according to Germanischer Lloyd rules.

## HARDWARE AND SOFTWARE RESOURCES

### SOFTWARE FOR 3D MODELING



autodesk

#### **AUTODESK 3D STUDIO MAX**

**Producer Company :** Autodesk

**Particulars :** Solid modeling, animation and rendering software.

**Purpose to use :** To create necessary 3D models, animation and realistic rendering.



**RhinoCeros<sup>®</sup>**  
NURBS modeling for Windows

#### **RHINOCEROS**

**Producer Company :** Rhinoceros

**Particulars :** Nurbs modeling software for Windows.

**Purpose to use :** Rhino provides the tools to accurately model your designs ready for rendering, animation, drafting, engineering, analysis, and manufacturing.

Contact Information

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