

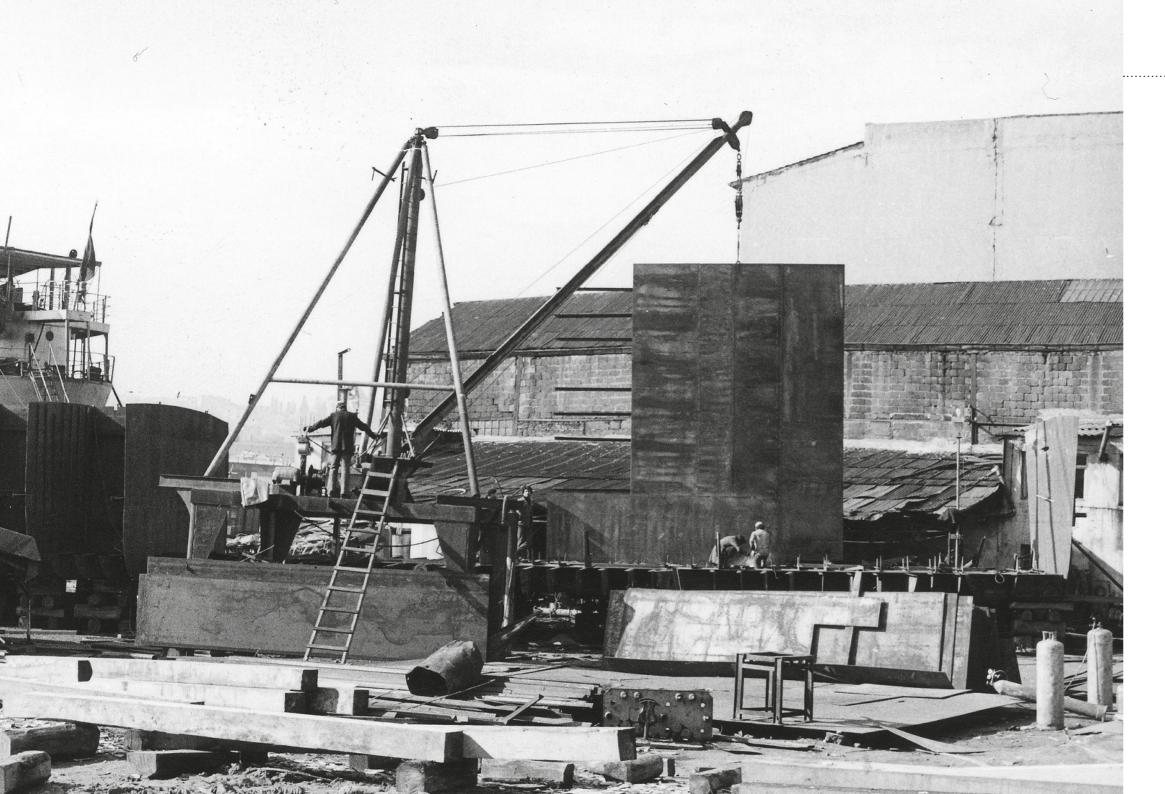




Ship Repair & Conversion







One of the Oldest Private Shipyard Group in Turkey

Gemak founded in **1969** by Naval Architect, **Mr. İsmet Uner** in "Golden Horn" in the Bosphorus, İstanbul. The yard was moved to Tuzla in 1981 which was designated as a ship repair and ship building area by Turkish Government authorities.

With more than of 50 years experience, Gemak and its subsidiaries are proud of being in service to over 2700 projects for the Ship Owners and Managers. With its experienced resources, modern facilities, and excellent track record, Gemak Group continues to be one of the leading Ship Repair and Ship Building group in Turkey.





40°48'09.4"N 29°30'27.7"E Sabiha Gokcen Airport 40°54'27.5"N 29°18'57.0"E Istanbul Airport 41°17'02.5"N 28°42'34.1"E Bozcaada Desloping Station 39°50'04.5"N 26°04'21.6"E

An Excellent Connectivity

The Gemak Group yards centrally located between Europe and Asia. Gemak creates an ecosystem that welcomes our clients and assist them for every demand with excellent maritime infrastructure, easily accessible of the international deep-sea ports in the Mediterranean Basin. We offer full range of services required for regular dry docking and maintenance, ship repairs and conversions of all types of vessels.



Financially Solid

All Gemak Group companies share the common corporate policy of financial sustainability which are audited by one of the most recognized global organizations. The keywords that define our financial policies are: integrity, transparency, honesty, accountability and fiscal discipline.





Ingenuity, Expertise & Knowledge

Gemak group employs **180 engineers** out of **700 permanent staff** and more than **2500 labor-force**.

The workmanship and experience ensure you **safe, fast and reliable service** 24/7 at our yards.

The Project management approach for the ship repair industry is to improve the level of project management expertise by constraint of safety, quality, time and cost.

With our in-house developed ERP system which is an integration of all modules under single platform in terms of planning, production, procurement, quality, HSE and also marketing. Basically the feature allows for each specific department,

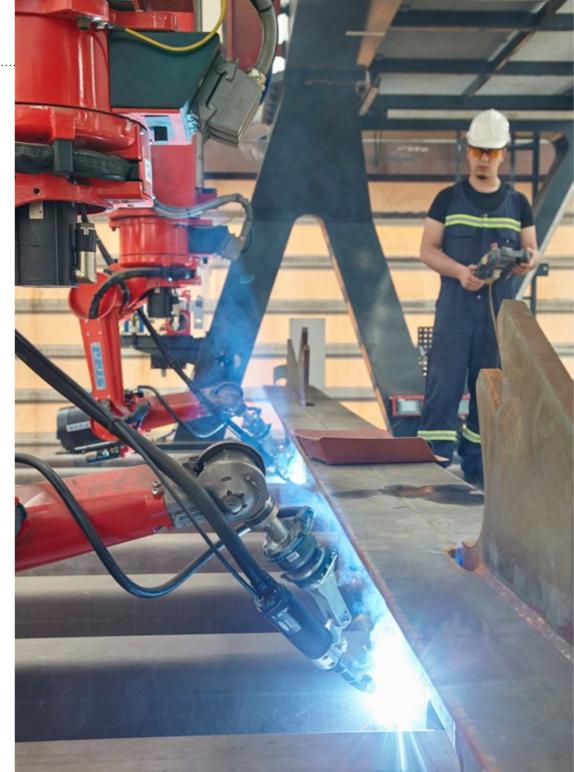
a. Marketing & Commercial

Includes inquiry management, quotation management, cost estimation, contract/change request management, billing and invoices, and warranty management.

b. Finance

Includes Budget Management, Cash Flow Analysis, Financial Management, Accounts Payable & Receivable

Continued >>

















Ingenuity, Expertise & Knowledge

c. Design & Document Management

Includes preparation and maintenance of design drawings, creation of bill of materials, indenting and purchase requisition of materials, production schedule management and accurate reporting.

d. Project Planning & Monitoring

Includes project planning, project monitoring, project closure and extensive work done report.

e. Materials & Procurement Management

Total supply chain management including purchase requisitions (PR), request for quotations (RFQ), bid analysis, supplier management, central purchasing and inventory control.

f. Production Management

Keeps track of mainly manpower, materials, and equipment usage at various stages of ship repair including steel preparation, block fabrication, pipe/spool fabrication, outfitting, painting, erection, consolidation, outfit, commissioning, sea trials and delivery.

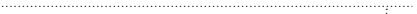
g. Security Management

Health, Safety & Environment (HSE), Time & Attendance, Facility Management

h. Repair & Maintenance Management

i. Quality Management

Includes inspection and quality control, production inspection and quality assurance, lab testing and instrument calibration.



Being Innovative in Everything: R&D Centre

The effective use of advanced technology and information is an integral part of our values.

Therefore, we utilize state-of-the-art technology by pushing our limits in construction methodologies for improving operational capacities at our yards by investing prudently in R&D.

Being innovative in everything we do, as the first example in Turkish Maritime Industry, we established our R&D Centre certified by the Ministry of Science, Industry and Technology; which prove our unceasing search for operational excellence and flexibility at all type of projects, to be preferred by demanding Ship owners.



Safety and Quality Take Utmost Priority

All Gemak Group companies share the common corporate policy of attaining and maintaining "zero accident" at all work sites with emphasis on the safety of human beings at the first place.

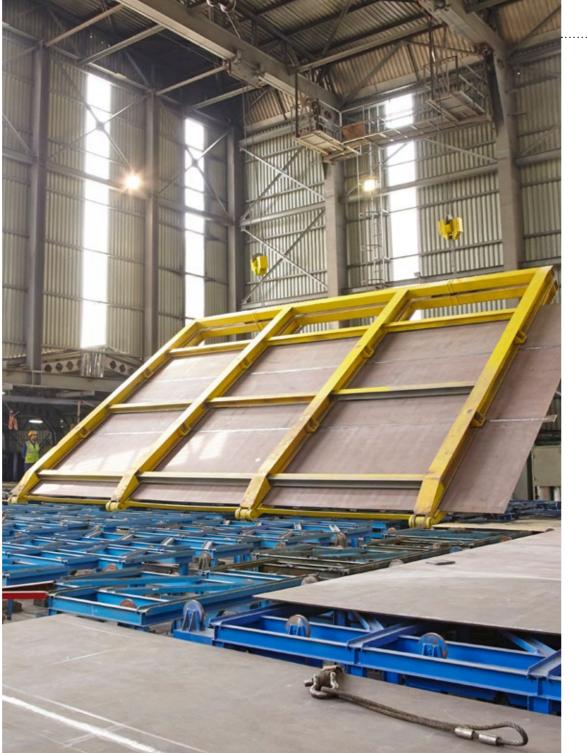
We ensure the highest quality in ship repair following a set procedure and using the latest technology. Quality control is performed by in-house qualified personnel and test equipment in cooperation with authorized suppliers. We superimpose the quality standards and requirements of our customers and the international Classification Societies within the continuous improvement of our Quality Management System (QMS).

Gemak Group and its subsidiaries have:

- · ISO 9001, 14001 and OHSAS certificates by ABS
- · Certification for the pressure vessels manufacturer by DNV
- Certificate for Factory Production Control EN-1090 EXC4 by BV
- . Certificate for Steel Construction, Pressure Vessels and Tubular Fabrication and Assembly EN ISO 3834-2 by BV









FACILITIES

GEMAK GROUP SHIPYARDS

Dry Docking Capacity (Net)

| Dock Name | Lifting Capacity | Dock Type | Dock Size | Length (m) | Beam (m) | Location | |
|-----------|------------------|---------------|-----------|------------|----------|----------|--|
| D-9 | 14000t | Floating Dock | Handymax | 200 | 32 | Gemak | |
| D-28 | 28000t | Floating Dock | Panamax | 245 | 37 | Gemak | |
| TGE-DD | | Graving Dock | Capesize | 300 | 53/56 | TGE | |









GEMAK GROUP SHIPYARDS

Advanced Infrastructure

- Highest crane capacity dedicated for ship repair & conversion
- Maximum combined lifting capacity
 SWL 570 tons
- Total number of cranes 45
- Self propelled floating crane SWL
 100 ton capacity









GEMAK GROUP SHIPYARDS

Advanced Infrastructure

2,3km wet berth in total and the biggest graving dock of the region, (300m x 53/56m) in suezmax size that enable immense tonnage accomodation, provide perfect alignment checks/preservation.





TGE Shipyard

FACILITIES

GEMAK SHIPYARD TUZLA

Yard Overview Data and Facts

Total Area: 45.000 m^2 Enclosed Area: 16.000 m^2

Floating Docks : 1 x 28.000 tons lifting capacity (245x37 m)

1 x 14.000 tons lifting capacity (200x32 m)

Floating Crane - Atlet (SWL 100 ton)

Pier Length : 421 m.

Cranes : Gantry Crane with lifting capacity of 55 ton

6 x Jib Cranes (up to 30 tons lifting capacity)

Several cranes with lifting capacity of 2x10 ton and 2x5 ton

Ship Repair: 2.100.000 DWT per annumSteel Processing: 10.000 ton per annum

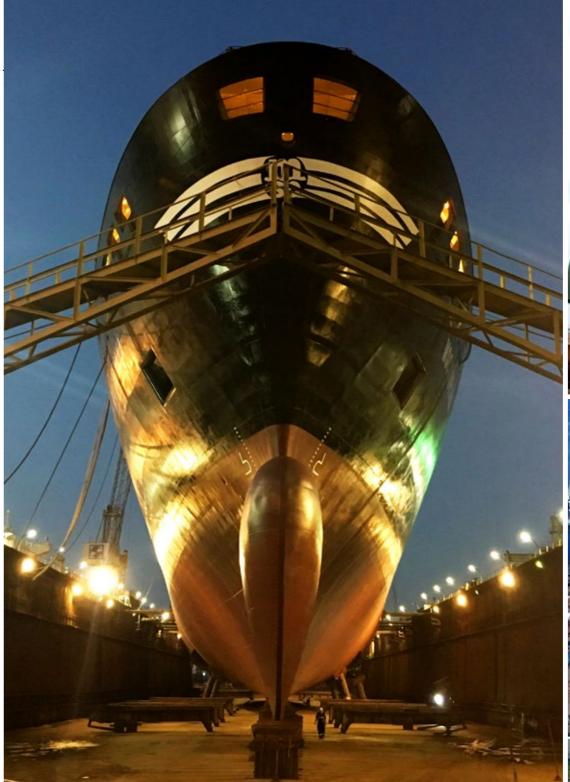
Painting Works : 20.000 m² per day

Types of Ships Repaired: Offshore Platform, Crude Oil, Chemical Tanker, Ro-Ro Ship, Ferry, Bulk

Carrier, General Cargo, Tug Boat, Reefer, Suction Dredger, Cutter Dredger,

Submersible Heavy Load Carrier

Types of Conversions : Product Tankers, General Cargo, Cement Carrier, Ro-Ro Ship, OSV **In-house Workshops** : Fully Equipped, Mechanical, Machining, Electrical, Pipe & Steel







GEMAK TGE SHIPYARD

Yard Overview Data & Facts

: 87.000 m² Total Area : 11.000 m² **Enclosed Area**

: 200 m x 43.5 m Slipway Graving Dock (capesize) : 300 m x 53 m

 $: 1 \times 2 \times 150 + 10 \text{ tons}$ Cranes

1 x 2x125 + 10 tons

Tandem working 570 tons

1 x 2x110 tons

9 Jib Cranes (up to 45 tons lifting capacity)

Several cranes with lifting capacity 2 up to 80 tons

Panel Line Capacity : apprx. 120 tons per day : 3.000.000 DWT per annum **Ship Repair Capacity**

Types of Conversions : Product Tankers, General Cargo, Cement Carrier, Ro-Ro Ship, OSV, Asphalt Tanker,

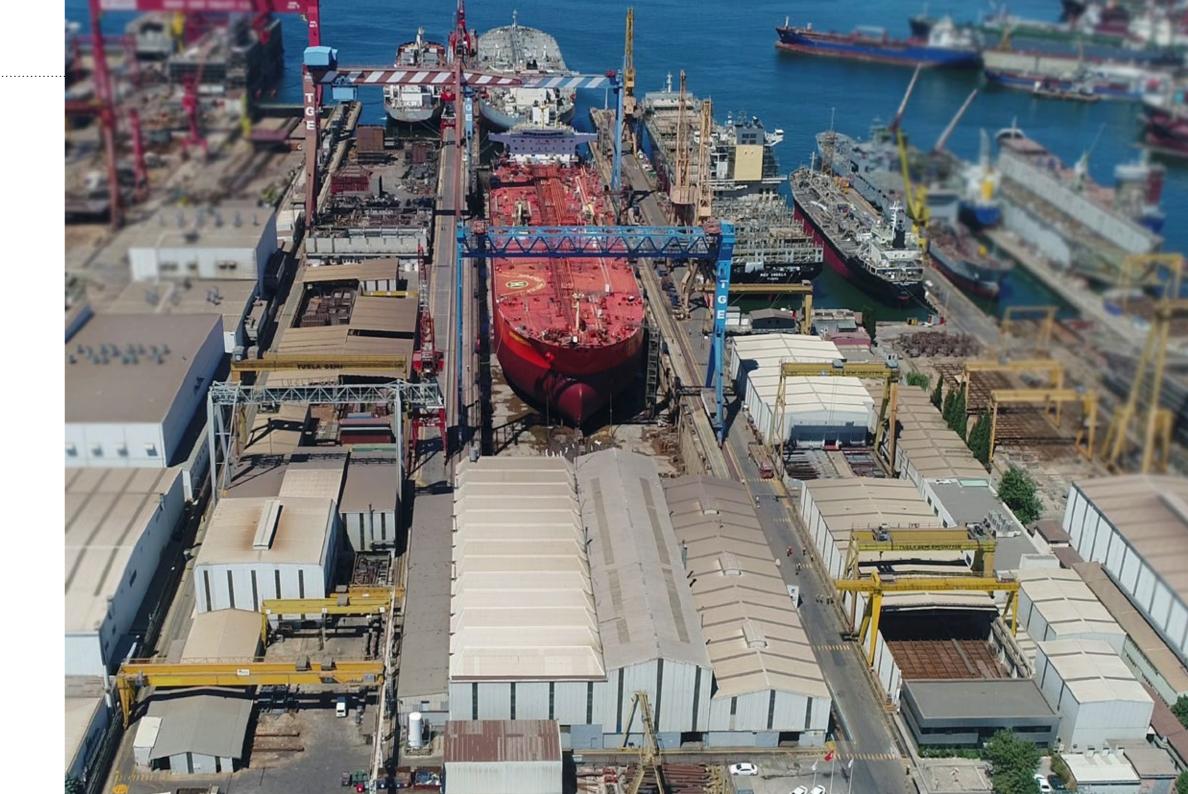
Offshore Supply Vessel, Sismik Resarch Vessel

: Offshore Platform, Crude Oil, Chemical Tanker, Ro-Ro Ship, Car Carrier, Ferry, General Cargo, Reefer, Types of Ships Repaired

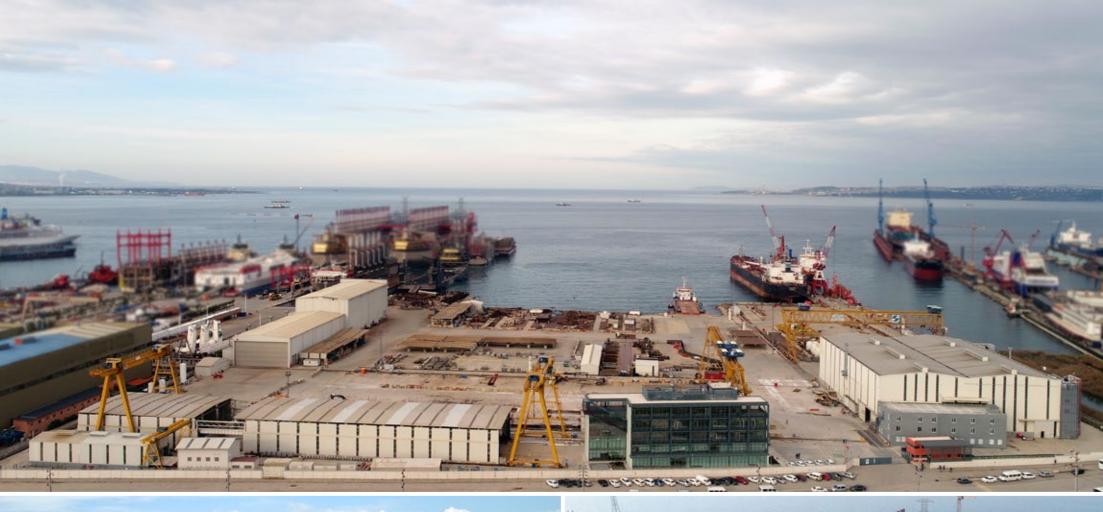
Dredgers, Tug Boat, Submersible Heavy Load Carrier, LPG Carriers, Container, Cable Layer, Cement

Carrier, Chip Carrier, Livestock Carrier, Passenger Vessel, Offsore Supply Vessel

Types of Ships Built : Product Tanker, Chemical Tanker (Stainless Steel, Epoxy Coated), Oil Tanker, General Cargo











Gemak Altınova Shipyard

The Yard has capacity for large structures' steel, pipe fabrication and painting by the wide landing area and workshops. Besides construction of mega strustures like off-shore platforms, floating docks, bridges, large sections of ships, the faciliteis are used for ship repair/conversion of the all kind of vessels at berth.

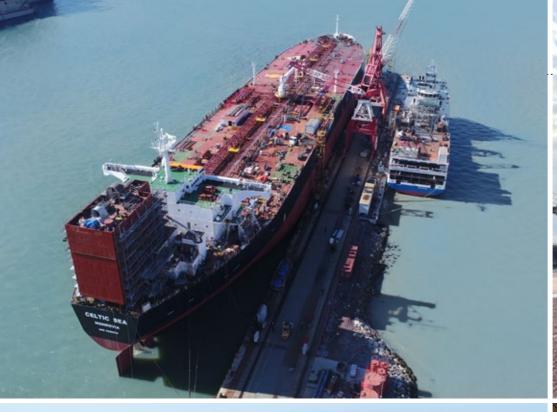
Load out pier is capable to transport mega structures via its inhouse designed and built NETA heavy transport vessel which also has a Dynamic Positioning notation.

The yard also contains a blasting and painting hall with the dimensions $68m \times 30m \times 20m$. for block coating.

Total area of 120.000m² 415m of berth space













GEMAK ALTINOVA SHIPYARD

Yard Overview Data & Facts

Panels Fabrication Workshop : Dim. 70m x 60m x 18m, crane: 2x35 tons

Panels Fabrication Open Area : Dim.170m x 25m; crane: 2x35 tons

2 x Steel Section Fabrication Areas : 32.000 m², crane: 2x32 tons for each steel section fabrication area

Blasting Hall : Dim. 67m x 30m x 20m

Painting Hall : Dim. 68m x 28m x 12m capacity 2200 m²/day

Offshore Construction Platform : Dim. 210m x 160 m, bearing ground capacity: 10-11 tons/m²

Load-Out

: By own equipment with max. lifting capacity 1280 tons

Load-Out Berth : 245 m

CRANE CAPACITIES

Pier Cranes : 1x15t + 1x35 t

Block Manufacturing : $4 \times (2 \times 16t) + 2 \times (2 \times 32t) + 3 \times (2 \times 7,5t)$

Panel Manufacturing : 2x(1x15t) + 2x(2x6,3t)

SPMT Units : 2 Power pack, 36 axles SPMT with lifting capacity of 1.440 tons

· FACILITIES

GEMAK NETA PIPE AND STEEL FACTORY

Data & Facts

 Total Area
 : 60.960,82 m²

 Enclosed Area
 : 15.000 m²

CNC Plasma Steel Cutting Machines : 5 x CNC Plasma Cutting Machines

Shipbuilding Press : 1.000 ton (with moving head and table)

Roller-Hydraulic Press : 1.500 ton x 14 m Roller Press

Profile Bending Press : 400 ton

Pipe Bending Machine : 2.5D bending capability for wide pipe dia. range

NC Flange Welding Machine : Welding capability up to Ø400 mm

Band Sawing Machine: 3 x Band Sawing MachinesSteel Construction Capacity: 53.000 tons per annum.Pipe Spool Fabrication Capacity: 3.000 spools per month















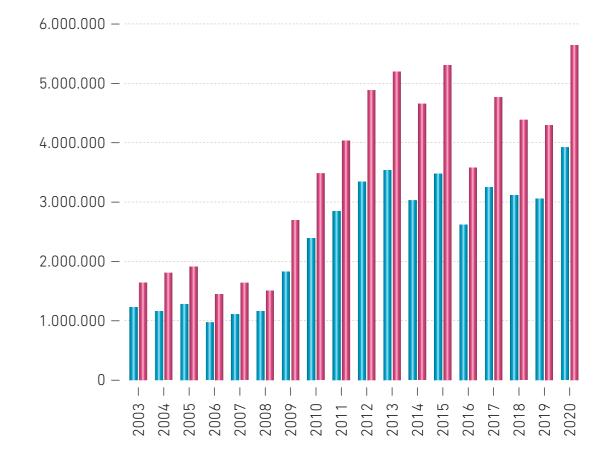


Ship Repair

Group today provides services for a wide range of ships from simple bulk carriers to sophisticated LPG carriers, dredger vessels, offshore platforms, semi-subs, drillships etc. and meanwhile enjoying challenging engineering projects of conversions, damage repairs, refits.

Since it undertook its first BWTS retrofit in 2012, Gemak Group Shipyards have successfully completed more than 85* projects from various makers.

More than 35* vessel, which has been successfully retrofitted with scrubber systems, have been delivered to their Owners by Gemak Group Shipyards. We have a team that solely focusing on the planning, purchasing, fabrication and installation aspects of these projects to be ensure we always meet our clients' requirements.



^{*} Till November 2020

Ship Conversion and Major Repair Works

The extensive knowledge and experience have been blended with the variety of conversion projects.

Our expertise in conversion segment extended to lengthening of ships, conversions from cable-laying into pipe-laying, OBO carriers to powership vessels, single hull tankers to double hull tankers and accommodation ship to flexible pipe-laying vessel and tankers to asphalt carriers or bulk carriers.

UN RO-RO SHIPS:

Lengthening 30 m. by building of new mid ship block of 1.130 tons.

AL DHABBIYYAH & ARZANAH:

Conversion of 1983 built, 26313 DWT, UAE flag single bottom oil tanker M/T "Al Dhabiyyah" and her sister M/T "Arzanah" into bulk carriers were completed.

YARA CO₂ TANKERS

World's largest food grade CO_2 tankers were converted from three General Cargo vessels, each containing $\emptyset 7x50$ mtrs and 470 tons weight of CO_2 tanks that were fabricated with 45 mm thick P355LN2 low temp steel, design pressure 19 bars.

KARADENIZ POWERSHIPS

Conversion of two sisterships, M/V Karadeniz Powership Orhan Ali Khan and M/V Karadeniz Powership Orka Sultan, capesize bulk carriers to floating power plants. Both have 415 MW electric generation capacity.

SK LINE 727

A PSV vessel has been converted to a seismic research/ support vessel equipped with the most advanced tech and equipment to operate offshores for our valued customer Boskalis to operate under Gardline Fleet.

STENA EUROPE

The vessel refurbishment, vehicle deck modification and life-extension programme including extensive docking & repair works have been completed.

















Offshore Oil & Gas Projects

Ranging from drill ships, semi subs, jack up MGS to all kinds of OSU, Group shipyards and fabrication yards are capable of expanding to meet offshore oil and gas industry demand by offering viable, cost-effective and highly adaptable solutions.

Technology, innovation and engineering capabilities meet the expertise that bring us to an assertive position at the Mediterranean Basin.











New Building Projects

Delivering safely, on time, and within budget establishes us as the preferred provider of choice and partner for solutions on new building. Creating customer value by executing high quality projects efficiently with superskilled workforce and engineering capacity is our warranty. Since 1985, 57 ships has been built and delivered. Our experience in ship building coincides with the advanced infrastructure at Gemak.

Our subsidiary TGE operates semislipway (200x44m) served by portal crane SWL 300 tons, also with the drydock 300x 53/56m with gantry cranes of SWL 470 tons, panel line and open and closed assembly areas.

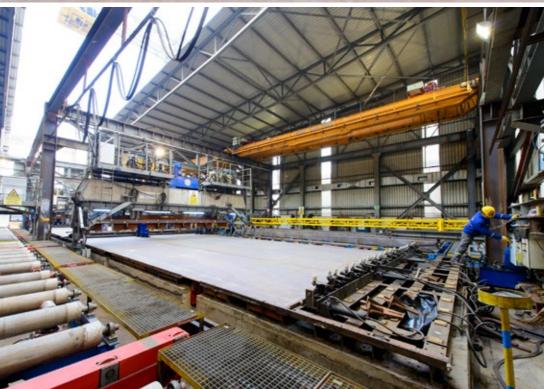












Industrial Projects

Gemak Group has built four steel shafts each abt. 550 tons for Izmit Bay Bridge connecting Istanbul with south of Turkey. Shafts are placed on the seabed to support the bridge towers.

Total length : 2.682m (8.799 ft) **Width** : 35.93m (117.9 ft)

Height : 252.0m (826.8 ft) (pylons)

Pier Length : 421m.

Longest span : 1.550m (5.090 ft)

Vertical clearance : 4.3m (211 ft) x 1.000m (3.300 ft)

Constructed by : IHI Corporation

Construction begin : 2013 **Construction end** : 2016

Daily traffic approx. : 115.000 vehicles

Gemak Group constructed the main steel structure deck of Yavuz Sultan Selim Bridge (Third Bosphorus Bridge) which is abt. 47000 tons and delivered sections by a DP barge.

Official Name : Yavuz Sultan Selim Bridge
Other Name(s) : Third Bosphorus Bridge

Carries : Four motorway lanes and one

railway line in each direction

Crosses : Bosphorus

Design : Hybrid Cable-Stayed,

Suspension Bridge

Construction Begin : 2013 **Construction End** : 2016



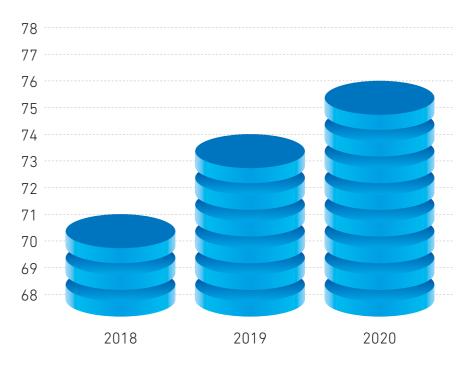




Nothing Is More Important Than Customer Satisfaction

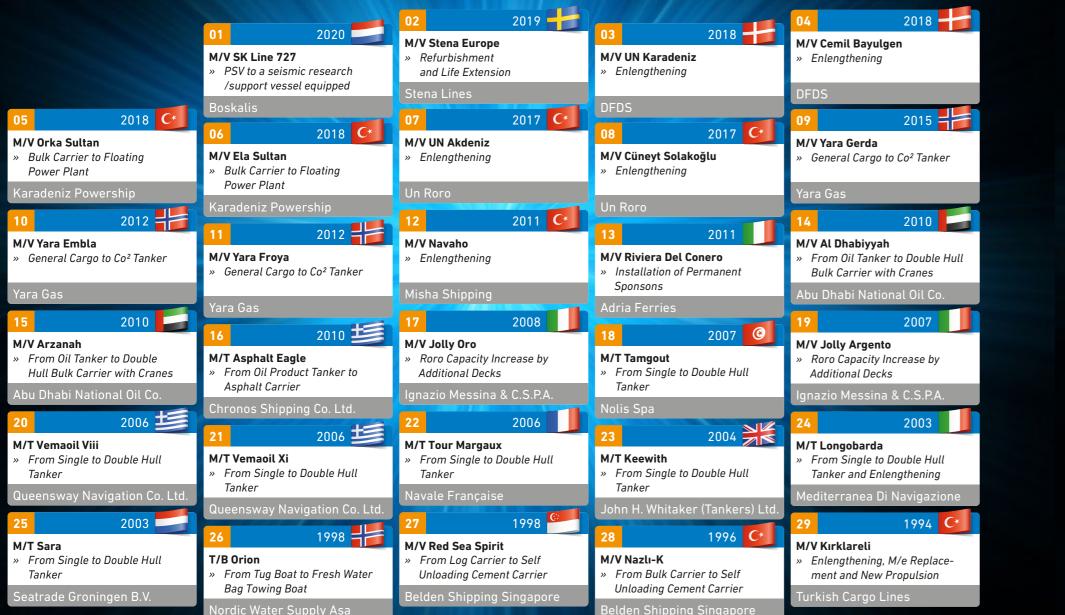
CUSTOMER SATISFACTION INDEX

As Gemak Group, nothing can be more important for us than a happy client. Our aim is to be best-in-class and preferred partner for engineered and integrated solutions. Therefore, we will continue working for meeting our customers' expectations.



REFERENCES ·····

Conversion References



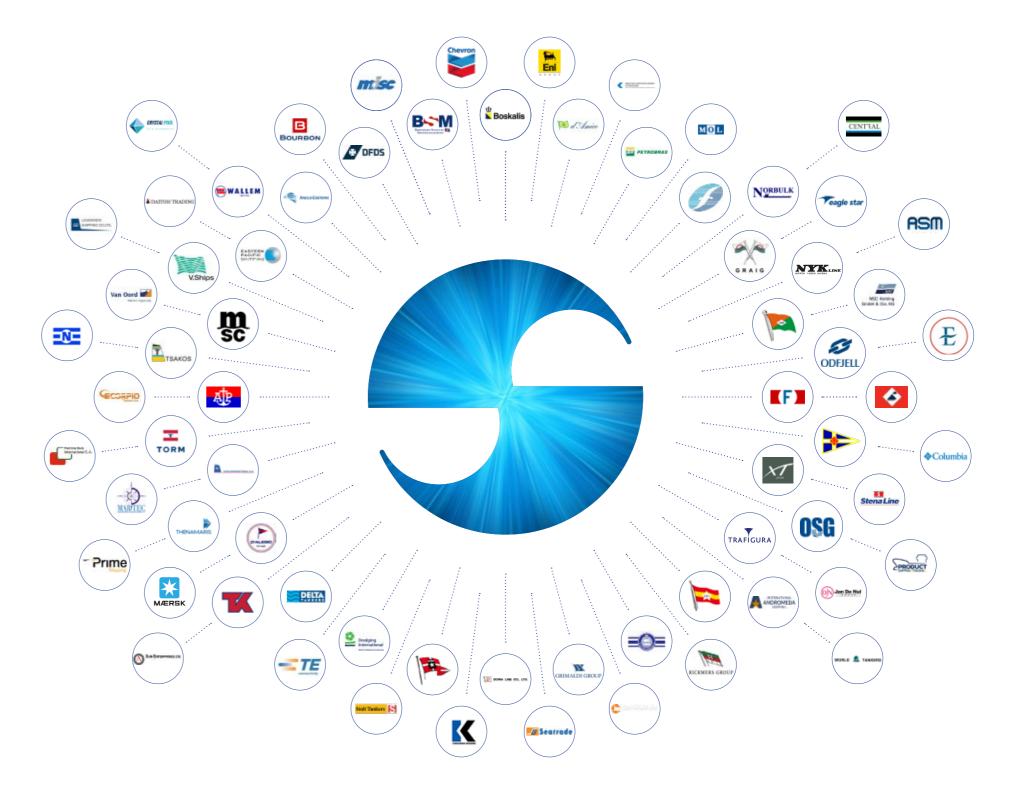
Offshore & OSV References



REFERENCE

New Building References (since 2001)







CONTACT INFO

Sales & Marketing



VEHBİ BARKIN SUNAY

E: vbsunay@gemak.com

Marketing Manager, Ship Repairs Naval Architect & Marine Engineer M: +90 533 648 8641







BURAK ÇAĞLAR KARSAK MİTHAT YILMAZ

Regional Manager, Ship Repairs Naval Architect & Marine Engineer M: +90 543 885 1949

E:ckarsak@gemak.com





Regional Manager, Ship Repairs Naval Architect & Marine Engineer

M: +90 543 885 1977 E:myilmaz@gemak.com







MURAT OĞUZHAN ARSLAN KAYA YAŞAR

Regional Manager, Ship Repairs Naval Architect & Marine Engineer

M: +90 543 885 1989 E: oarslan@gemak.com





Ship Building & Special Projects Sales Manager

M: +90 543 885 0664 E: kyasar@gemak.com



Overseas Agents (For Ship Repairs Only)



SHIPCARE CONSULTORIA MARITIMA LTDA

Mr. Roberto M.Leandro

Managing Director

Avenida Rio Branco, 45, Room 2512 - Centro CEP 20.090-003. Rio de Janerio - R.J. Brasil

Tel : +55 21 2516 9359 Tfx : +55 21 2516 9093

E-Mail: leandro@reefchartering.com.br



PRELUDE INTERNATIONAL

Mr. Ceki Yenifiliz

Strawinskylaan 647, 1077 XX Amsterdam - The Netherlands Tel : + 31 (0) 20 723 4890 Mobile: + 31 (0) 6 2931 7537 E-Mail: cyenifiliz@preludebv.com

SINGAPORE ZENTAR MARINE PTE LTD.

Mr. AC Tan Mr. Rayson Sim

10 Anson Road #18-04 International Plaza Singapore 079903

Tel: (65) 62258648 Fax : (65) 62232150

E-Mail: ac.tan@zentar.com.sq



WSR SHIP REPAIRS

Mr. Vangelis A. Tsangarides Mr. Thrasos Tsangarides

234 Ayias Fylaxeos CY 3082, Limassol, Cyprus www.umarwsr.com

Tel: +357 2535 5518 E-Mail: vangelis.t@wsr.com.cy E-Mail: thrasos.t@wsr.com.cv



ITALY - MONACO - SWITZERLAND BANCHERO COSTA

& C.AGENZIA MARITTIMA S.P.A

2. Via Pammatone 16121

Mr. Fabio Bertolini

Genova. Italv

: +39 010 56311 : +39 010 5631 601 Web : www.bancosta.it E-Mail: shipyard@bcagy.it



L&R MIDLAND (UK) LTD.

Mr. Jon Holloway

2nd Floor 3 Bolt Court London EC4A 3DQ UK

Tel: +44 (0) 20 3856 6521 Mobile: +44 (0) 77 1214 8881 E-Mail: jholloway@lrmidland.com



GERMANY

ZOEPFFEL & SCHNEIDER GMBH

Mr. Christian Schneider

Alter Fischmarkt 5, 20457 Hamburg

Tel : +49 40 879785-0 : +49 40 879785-20

E-Mail: info@zoepffel-schneider.com



ULRIK QVALE & PARTNERS AS

Mr. Oivind Qvale

Direct Line: +47 2251 1601 Mobile Tel: +47 911 61 760

P.O. Box 168 Skøyen\ N-0212 Oslo Norway

Enterprise NO 980 598 683 MVA

: +47 2251 1616 : +47 2251 1608 : www.ugp.no E-Mail : post@ugp.no

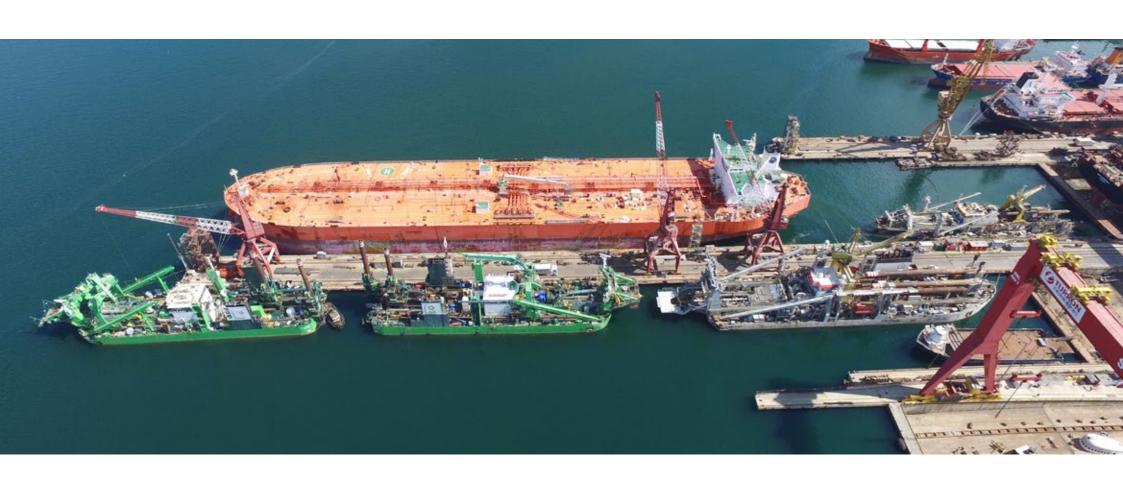


SHIP REPAIRERS & SHIPBUILDERS LTD.

Broadwell House Broadwell Lechlade

Gloucestershire GL7 3QS UK

: +44 (0) 1367 860050 E-Mail: ship@shiprepairers.co.uk



GEMAK Shipyard Tuzla

Tersaneler Cad. No:38 34944 Tuzla - İstanbul / Turkey

GEMAK

Group of Companies

: +90 216 581 23 00 Tel : +90 216 395 06 85 Fax E-mail: gemak@gemak.com

GEMAK TGE Shipyard

Tersaneler Cad. No:6 34944 Tuzla - İstanbul / Turkey : +90 216 582 00 00 Tel

: +90 216 395 65 40 Fax

E-mail: tuzlagemi@tuzlagemi.com

GEMAK Shipyard Altınova

Çavuşçiftliği Köyü, Devlet Yolu Altı Mah. Tersaneler Cad. No:56, 77700,

Altınova - Yalova / Turkey : +90 226 461 50 37 Tel

Fax : +90 226 461 50 34 E-mail: gemak@gemak.com

GEMAK Neta Pipe Steel Factory

Dilovası OSB 4. Kısım Ceyhan Cad.

No: 23-21 41455

Gebze - Kocaeli / Turkey

: +90 262 724 94 84 Tel : +90 262 724 94 85 Fax E-mail : neta@netakon.com