

# *Leading Shipyard in the Mediterranean*

*40 years  
of excellence*







# 40 YEARS OF EXCELLENCE...



Chalkis Shipyards S.A  
is one of the leading shipyards  
in the Mediterranean\_



# ABOUT US \_

Established in early 70s, having the experienced, perfectly qualified personnel, certified EN ISO 9001:2008 and with Port facilities that are under the implementation of ISPS code safety procedures, Chalkis Shipyards is well prepared to offer all requested dry-docking services and repair works, owning all necessary facilities and equipment.

OUR MISSION	Maintaining and improving with diligence the quality of services, Chalkis Shipyards is targeting to the full satisfaction of its clients in all fields of co-operation (quality of work, delivery time and cost of work).
OUR VALUES	The main objective of Chalkis Shipyards S.A. is the continuous improvement of customer satisfaction through the improvement of services provided as well as the development of facilities and human resources in relation to the protection of environment and safety.
OUR VISION	Chalkis Shipyards is wishing to ensure a strong international presence in ship repair work through the effective management of a wide range of services and activities and also establish itself in the field of newbuilding of specialized vessels.
QUALITY	<p>The development and implementation of a Management System according to ELOT EN ISO 9001:2008 reflects the sensitivity and Management's corporate philosophy, respecting the national and international legal and regulatory framework, and focusing on the following key points:</p> <ul style="list-style-type: none"><li>&gt; Quality is a key competitive advantage and it is possible for the company to guarantee the quality of work in the ever increasing demands of customers.</li><li>&gt; Standardization of individual operations has resulted in a clear improvement of the organization and performance.</li></ul> <p>The Quality Policy is the cornerstone for achieving company's objectives, which are:</p> <ul style="list-style-type: none"><li>&gt; Direct contact with the customer and provision of high quality services .</li><li>&gt; Relations of mutual trust with our customers, suppliers and employees.</li><li>&gt; Development of productivity and continuous quality improvement.</li></ul>

All staff is involved in the commitment to quality, spare no efforts to improve services.

SAFETY	<p>The Port Facilities of Chalkis Shipyards are following the security measures imposed by the Code ISPS - IMO Port facility number: GRQKG-0002 and are also authorized at the level of "Privacy -NATO SECRET-EU SECRET" for storage of classified information.</p> <p>The company also complies with all requirements for the protection of the environment through compliance with mandatory legislation.</p>
LOCATION	<p>Chalkis Shipyards is located at Avlis near Chalkis, approximately one hour drive north of Athens, easily reachable via the national road and at a fully protected gulf. Its geographical position favors vessels that are travelling to and from the Black Sea. It is easily accessible for vessels travelling from SUEZ to western Mediterranean and vice versa.</p> <p>The ancient drama that Euripides immortalized in a shocking tragedy, "Iphigenia in Avlis", took place here in Avlis from where the Greek fleet was preparing to sail against Troy. A few meters away from the Shipyard area, one can visit the archaeological site of Iphigenia sacrifice altar.</p>





# FACILITIES \_

Chalkis Shipyards complies with all modern facilities for accomplishment of dry-docking / repairing of all kind of vessels, new building of specialized vessels and extensive conversion works.

FLOATING DOCK 1 - AVLIS	<div><div>&gt; Lifting capacity:</div><div>&gt; Overall length:</div><div>&gt; Length over keel blocks:</div><div>&gt; Clear width between dock runways:</div><div>&gt; Height of keel blocks:</div><div>&gt; Two (2) cranes with carrying capacity:</div><div>Normal voltages available:</div><div>&gt; Three-phase:</div><div>&gt; Three-phase:</div><div>&gt; Direct current:</div><div>&gt; Capacity:</div></div> <div><div>15.000t</div><div>195,00m</div><div>156,00m</div><div>33,50m</div><div>1,30m</div><div>10t</div><div>A.C. 440V-60Hz</div><div>A.C. 380/220V-50Hz</div><div>110/220V</div><div>48.000 DWT</div></div>
FLOATING DOCK 2 - VATHI	<div><div>&gt; Lifting capacity:</div><div>&gt; Overall length:</div><div>&gt; Length over keel blocks:</div><div>&gt; Clear width between dock runways:</div><div>&gt; Height of keel blocks:</div><div>&gt; Two (2) cranes with carrying capacity:</div><div>&gt; Three-phase:</div><div>&gt; Direct current:</div><div>&gt; Capacity:</div></div> <div><div>7.500t</div><div>151,00m</div><div>135,00m</div><div>21,00m</div><div>1,30m</div><div>3t</div><div>A.C. 380/220V-50Hz</div><div>110/220V</div><div>15.000 DWT</div></div>
BERTHING	Available piers for repairs approximately 600 meters serviced by cranes with a lifting capacity of 50t with extensive supply networks for general services and amenities that allow to undertake satisfactorily all requirements for ship repair up to 75.000 DWT. Maximum vessel draft for repairs to piers is 6,3m.
FLOATING CRANE	The Shipyards owns a floating crane with a lifting capacity of 100t used to assist in disassembly/transfer of shafts, lifting of vessels sections, hoisting and launching of small boats.
SHORE CRANES & MOBILE CRANES	There are two shore cranes (TAKRAF) with a lifting capacity of 50t each serving ships at the docks of the shipyard and two mobile cranes (COLES) with a lifting capacity of 30t and 50t respectively.



**WORKSHOP** The workshop is a fully equipped shop for all types of mechanical repairs, overhauling and repairs of propeller shafts, rudder systems, pumps, main engines and all types of diesel engines.

- Available equipment:
- > Bridge crane of a lifting capacity of 26t
  - > Vertical lathe plateau diameter 200mm
  - > Lathe 12m
  - > Big boring with independent table 1.800x1.800mm
  - > Electronic balancing
  - > Milling with drill machine
  - > Plane machine
  - > Drill machines
  - > Lathe machines 1,5m, 2m, 3m, 4m
  - > Milling machine
  - > Reconditioning machine
  - > Drills
  - > Hydraulic press
  - > Portable lathe machines for machining in place, for example rudder
  - > Bushes, tailshaft funnel
  - > Horizontal press 100t
  - > An annealing furnace

**PLATESHOP** The plateshop is equipped with modern equipment of machinery for cutting, welding and forming plates

- Available equipment:
- > 2 bridge cranes 16t Each
  - > Flame cut machine with photocell
  - > Cnc cutting machine with plasma, oxygen-propane
  - > Vertical press 600t
  - > Vertical press 150t
  - > Plate shears with the ability of cropping plates up to 16mm
  - > Flanging machine of 4 meters length,
  - > Cylinder for plates rolling,
  - > Floor made of steel for steelworks, cropping and shaping of plates.

**PIPING SHOP** The piping shop consists of:

- > Fitting bench
- > Hydraulic Pipe Benders
- > Electrical saw
- > Welding machines
- > TIG machines





# FACILITIES \_

- TUGBOATS

The shipyard owns two (2) sister tugboats with a bollard pull of 24t each that are used for towing during docking/undocking of vessels or for any shifting within the premises of Chalkis Shipyards
- SLUDGE BARGE

The Shipyard has at its disposal a towable barge of capacity 54 cubic meters for receipt of sludges which are temporarily stored in a Marpol tank for further process. Procedures for receipt, transfer, storage and separation of oil residues are compliant to the Chalkis Central Port Authorities Rules.
- ELECTRICAL SHOP

The electrical shop includes:
  - > Electrical furnace for desiccation
  - > Electric motors winding machine
  - > Wheels, winches
  - > Drilling machines
  - > Air compressor
- CARPENTRY SHOP

The carpentry shop includes:
  - > Lathe machine 1m
  - > Planing machines
  - > Press 80t
  - > Drilling machines
  - > Bearing tapes
  - > Leveling machine
  - > Chain auger
- POWER SUPPLY SUB-STATIONS

There are 3 medium-voltage substations 20KV (each) with power transformers of 2X1600KVA each. Both floating docks have switchboards of lower and medium voltage.
- EXISTING YARD PIPING SYSTEMS

- > Compressed air
  - > Sea water
  - > Potable water
  - > Fire line
- AUXILIARIES

- > 4 Clarks
  - > 1 Shipper for tank cleaning
  - > 4 Cherry picker
  - > 1 Big shipper
  - > 2 Trucks
  - > 2 Platform vehicles for heavy cargo





# SERVICES \_

**DOCKING SERVICES** Docking of vessels up to 52.000 DWT and supply of services.

- SANDBLASTING & PAINTING WORKS**
- > Preparation of metal surfaces (hull, deck, hold, hatch covers, cargo tanks, ballast tanks) for Sand blasting in accordance with Swedish standards or high pressure water blasting (up to 1400bar)
  - > Painting of all vessel's areas
  - > Special preparation and painting for yachts
  - > Tank coating of Double bottom and cargo tanks

- STEEL WORKS**
- Renewal of plates in:
- > Holds
  - > Cargo tanks and fuel tanks
  - > Engine Room
  - > Double bottom
  - > Deck
  - > Superstructures
  - > Bow/bulbous area

- Works in cargo holds:
- > Disassembly, removal and transportation of cargo holds hatch covers ashore
  - > Renewal of Rubber seals
  - > Renewal of Rubber channel
  - > Renewal of hatch coaming compression bar
  - > Renewal of drain channels
  - > Renewal of steel in truckway and hatch coamings
  - > Replacement of cleats, crutches, guide plates
  - > Rewelding of seams, welding of crack

- MACHINERY WORKS**
- > Work in valves, safety valves, PV valves and suction boxes
  - > Replacement of anodes
  - > Renewal of chain shackles in anchor chains
  - > Works in winches
  - > Works in pumps
  - > Works on deck cranes
  - > Works in rollers and cargo hatch pins
  - > Works in Main Engines, Electrical Generators, boilers
  - > Works in hydraulic cylinders





# SERVICES \_

## PIPING WORKS

- > Renewal of pipes with fittings in engine room, boiler room, pump room, cargo tanks and cargo holds, double bottoms, watertight tanks, chain lockers, bilges, top side tanks
- > Galvanized Pipes
- > Works in hydraulic pipes

## WORKS ON PROPELLERS/SHAFTS

- Works on shafts/propellers include:
- > Measurements of rudder clearances
  - > Tailshaft measurements
  - > Removal/refitting of rudder blade
  - > Repair of rudder pintle
  - > Fabrication-renewal of rudder bushes
  - > Removal/refitting of tailshaft
  - > Alignment of tailshaft
  - > Fabrication-renewal of tailshaft bushes
  - > Inspection of intermediate shaft bearings
  - > Removal of propeller blades
  - > Straightening of propeller blades
  - > General inspection of propeller hub
  - > General inspection of bow thruster
  - > Removal of bow thruster

## ELECTRICAL WORKS

- > Check-inspection rewinding of electric motors
- > Inspection of electric switchboard-switches
- > Overhauling of generators
- > Megger test

## INSULATION WORKS

- > Insulation work (decks-bulkheads-tubes-ventilation tubes).
- > Fire and insulating substrates and floors.

## OTHER SERVICES

- > Cleaning of FO, DO, ballast tanks
- > Testing of cranes lifting capacity
- > Tests on boats, boat davits, stairs
- > Air-conditioning-vents
- > Carpentry (wood doors, rails, wooden decks)





# COMPLETE PROJECTS \_

## NEW BUILDING:

Chalkis Shipyards has accomplished more than 10 new building projects including:

- > New building of eight (8) fishing trawlers
- > New building of two (2) tugboats with a bollard pull of 24t
- > New building of water tanker “STYMFALIA” for the Greek Navy
- > New building of two (2) modern tugs “Pomboo” and “Nguva”

## CONVERSIONS

Some of the most remarkable conversions that have already completed are:

- > Construction of new superstructure on a tugboat
- > Construction of a new engine room and fitting of voith snider in Cable Laying Barge
- > Reconstruction of deck barge into a DP2 Cable Laying Barge
- > Conversion of passenger vessel into Luxury Megayacht (Dream)
- > Conversion of two (2) reefer vessels into luxury cruise vessels (Daphne, Danae)
- > Conversion of four (4) Tanker type “VOLGONEFT” into ocean-going tankers
- > Conversion of cargo vessel “FRATZIS”
- > Conversion of two (2) bulk carriers into modern handling and processing cement carriers (ALAMEIN, ALKAZAR)
- > Conversion works on passenger Ferries (AFRODITI II, POSEIDON),

### Conversion of the following passenger cruise vessels for trading into the U.S. market:

- > P.V. Empress (600 passengers)
- > P.V. New York Fortune ex Tropic Star ex Sitia (1.000 passengers)
- > SS The Emerald ex Regent Rainbow (1.300 passengers)
- > M.V. Regent Spirit (500 passengers)
- > M.V. Calypso ex Ionian Harmony (600 passengers)

All above conversions included refurbishment of all Accommodation and service spaces, reengining, installation of new aux. engines, extensive steel work (superstructures, new stern, new bow), A/C and electrical installation, new safety and navigation equipment, piping systems, insulation works, outfitting, etc.

## OTHER STRUCTURAL ACTIVITIES

- During the last 10 years extensive repairs have been carried out on vessels, such as:
- > Construction of a double bottom part and participation in projects conducted by National Technical University of Athens
  - > Construction of towed barge (RICHOUULA)
  - > Replacement of bottom in a RO/RO vessel after damage
  - > Tank coating in cargo tanks on tanker (EL ZORRO)







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**CHALKIS**  
= SHIPYARDS S.A.

**CHALKIS SHIPYARDS S.A.**

Vathi Avlidas - Evia 34100 - Greece

Tel: +30(22210)33300

Fax: +30(22210)30374

Email: [repairsdpt@chalkis-shipyards.gr](mailto:repairsdpt@chalkis-shipyards.gr)

Url: [www.chalkis-shipyards.gr](http://www.chalkis-shipyards.gr)