



ERGOMARE S.A.

PORT AND MARINE CONSTRUCTIONS



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PORT AND MARINE CONSTRUCTIONS



Message from the CEO

Greece is a **coastal and insular country** with the largest coastline in the world so its need for **port infrastructure** is continuous and timeless. The **popular tourist islands** and the major coastal cities have constant needs for modern port infrastructure. At the same time there is an **urging social need** for connecting the most isolated islands to the mainland. So, over the time, what is required is incessant **development of new port facilities** along with the necessary **service and modernization** of the older ones.

ERGOMARE SA is proud to have put its own great contribution to the country's port infrastructure during the last **35 years**, having accomplished more than **100 large and small port projects**. Combining family **tradition** and the **inventive spirit** of the Greek engineer together with traditional **Greek seamanship**, ERGOMARE has delivered timely, the most demanding port projects in geographical and technical terms.

Today, **future challenges** are exciting: the growing need for **modern Marinas**, the recent trends in world maritime transports and the tackling of the **coastal erosion** problem due to **climate change**, bring the technical world of port and marine projects in the front line.

ERGOMARE SA is here to meet the challenges of the future: inspired by family tradition, with the knowledge and experience deriving from decades, equipped with the most modern equipment and staffed by experienced and qualified engineers, operators and technicians, ERGOMARE is ready to undertake even **the most demanding port projects in Greece and the Eastern Mediterranean.**

Ioannis K. Bitounis
Civil Engineer N.T.U.A
CEO ERGOMARE SA

Ereikoussa project : 2017-'18



COMPANY PROFILE

ERGOMARE SA is the only construction company in Greece that is **specialized exclusively in the port and marine infrastructure construction** field, keeping alive a family tradition of more than 30 years.

Founded by Constantine Bitounis, an **inspirational** Civil Engineer, **ERGOMARE SA** is specialized in the field of port and marine infrastructure construction, with focus on medium and large scale projects, usually the **most challenging** ones in terms of **technical and geographical complexity**.

Over the years, **ERGOMARE SA's** engineers and experienced personnel, have **developed more than 100 port construction projects**, both for the public and private clients, both domestically and internationally:

- Commercial and passenger ports
- Marinas
- Pescatorial Shelters
- Berthing and cargo piers
- Specialized marine works (pier repairs, shipwreck removals, underwater pipe-laying etc)

Moreover, **ERGOMARE SA's** services cover a **wide range of marine services**, including marine transports, underwater mapping and surveying and diving works.

With state-of-the-art techniques deriving from the accumulated company experience and know-how, coupled with the company-owned modern equipment, **ERGOMARE SA can provide three complete sets of machinery** (floating cranes or excavators, tugboats and barges) and implement every aspect of the marine infrastructure work with the highest standards of safety and efficiency:

- Port basin dredging
- Sea walls, piers and jetties construction
- Floating docks (pontoons) placing
- Port and marina electro-mechanical infrastructure (pillars, watering, firefighting installations, security installations)
- Construction and placement of port equipment (moorings, buffers, bollards)
- Breakwater constructions by artificial or natural big stones
- Integrated coastal zone formation, management and coastal protection
- Special underwater foundation (bored piles, gravel piles, drainage)
- Artificial reef construction
- Offshore wind parks construction

Ergomare SA is registered with the Greek Ministry of Infrastructure registry of public works Contractors for the construction mainly of Port/Marine works but also Road construction, Hydraulic works, Building and Industrial/ Energy works.

Ergomare is a pioneer in private marine works in Greece (Hotel marinas, cargo loading piers etc)

Ergomare SA brings solid experience, specialized personnel and modern machinery and equipment to its clients, and is proud to provide **integrated solutions for any offshore construction or service**.





SERVICES

Ergomare SA provides a wide range of services in the field of Port and Marine infrastructure and, generally, in any project having to do with on and offshore areas. Indicatively (but not exclusively), Ergomare SA offers the following services:

1. Port construction “from scratch”: We develop **entirely new ports**, marinas, fisheries ports always keeping the **highest quality standards** and with **timely delivery**. We offer either, both design and construction. Here are some of the projects that ERGOMARE SA has constructed entirely:

a. Marinas

- Mlraggio Marina in Chalkidiki - Med Sea Health (delivered 2016)
- Marina in Serifos Island – (2014)
- Marina in Pythagoreion Samos Island – (1992)
- Marina in Skyros Island - (1991)

b. Main Ports

- Port of Evdilos Ikaria Island - (1997 & 2014)
- Port of Kimi Evia Island - (1992)
- Port of Gavdos Island- (2005)
- Port of Mantoudi Evia Island - (2011)
- Ereikoussa Port – Corfu (under construction 2017)

c. Piscatorial shelters

- Fishery Port in Tyros, Arcadia - (2015 εν εκτελέσει)
- Fishery Port in Fournoi Island - (2006)
- Fishery Port in Psaropoulion Evia Island - (2004)

Accropode moulding and loading in Piraeus - 2017



Dredging



> SERVICES

2. Complementary constructions: extensions of existing piers or docks, placement of floating docks, reconstruction or repairs of damaged facilities, periodical service of existing facilities. ERGOMARE SA's experienced engineers provide with sound and low cost solutions in existing facilities, due to their great expertise in similar projects and to their renowned capacity of **resource allocation** in terms of finding materials that are necessary for the marine projects (natural big or smaller stones, sand gravel etc).

3. Basin Dredging: with the combined use of its floating cranes together with its several capacities' barges, ERGOMARE SA undertakes underwater mapping and then dredging in all kinds of bottom soil, achieving maximum production of excavation, always within strict time deadlines.

4. Marine transports: with our floating machinery and boats manned with experienced marine personnel, we undertake special marine transportation such as:

- **Towing** of other floating equipment
- Marine transport of **big volume objects** (eg parts of wind power installations)
- **Transport of gravel** or other quarry products



Marina in Astros 2015



Shore Coast protection



Maritime transport



Marine piling



Underwater drilling



Modern floating pontoons, Astros

MAJOR PROJECTS

ERGOMARE SA has carried out a lot of medium or large scale marine and port infrastructure projects but for some of them, we are mostly proud; the largest, the more complex ones or those that were located in special or prestigious locations.



MIRAGGIO MARINA IN CHALKIDIKI

- Construction of 84 berthing spots Marina in a luxury hotel complex
- 300 m. of quay wall, protected by natural big stones up to 15 tons each
- 100 m bridge on pre cast concrete piles founded underwater
- Floating pontoon 60 m. long
- Marine transport of 150.000 m³ gravel and stones.



SERIFOS ISLAND MARINA, 2015

- Construction of 50 berthing spots Marina in Serifos island nearby the passenger port.



MARINA IN ASTROS, ARCADIA 2014

- Reconstruction of 90 m long quay wall with bored piles D 100
- Downwind dock extension for 35 m. Channel dredging.
- Coastal pier 85 m long with hoist ramp
- Basin dredging at -4,50 m depth.
- Floating docks (pontoons) 190 m long.



EVDILOS, IKARIA ISLAND 1997 & 2014

- Windward dock construction in two phases
- Overall length 300 m. with 5 rows of Hollowed concrete blocks
- Construction and placement of over 3.000 accropodes and tetrpodes
- Basin depth -9,50 m.



KIMI EVIA ISLAND

- Windward dock construction 500 m long, out of natural big stones up to 10 tons each.
- 450 m downwind dock.



PYTHAGOREIO SAMOS ISLAND

- Construction of 250 berthing spots Marina
- Breakwater dock construction 250 m long with out of natural big stones up to 10 tons each. Construction of bored piles 800 mm diameter. Stone layer construction.
- Pythagoreio Marina of 280 berth spots.



LEROS ISLAND

- Privately owned Port infrastructure work on behalf of TITAN SA cement production company
- Construction of cargo loading dock.

> MAJOR PROJECTS

TRAPANI, SICILY, ITALY

- Marine transport and placement of 3.500 concrete blocks weighing up to 30 tn each. 300 m. windward dock. Project abroad.



EXTENSION OF CRUISE SHIP DOCK, KILLINI (PELOPONNESSE)

- Cruise ship dock extension for 250 m., Land filling of 10.000 m2 surface.
- Lift and underwater placement of heavy concrete blocks up to 70-90 tons each.



GAVDOS ISLAND

- Construction of 180 m windward dock, protected by natural big stones.
- Port basin dredging.
- Project in the south most port of Greece and the European continent.



SKYROS ISLAND MARINA

- 700 m quay wall construction, 110 m breakwater dock, 110 m downwind dock
- 57.000 m2 surface of land leveling.
- 140 boats marina.



FOURNOI ISLAND (NEAR IKARIA)

- 150 m quay wall construction.
- All the natural stones needed (75.000 m3) were brought to the site by sea transport from Leros (42 n.miles) and Ikaria (22 n. miles)



COAST PROTECTION IN KALAMATA AND SKYROS ISLAND

- Construction of vertical breakwaters and coast rehabilitation (Kalamata 2013)
- Construction of three (3) parallel breakwaters (Skyros Island 1990)





TABLE OF ACCOMPLISHED PROJECTS BY ERGOMARE SA

No	PROJECT TITLE	LOCATION	CLIENT	BUDGET	YEAR
1	ERIKOUSSA PORT EXTENSION	ERIKOYSSA, CORFU	PREFECTURE OF IONIAN ISLANDS	€ 7,000,000	2017
2	PROTECTION OF THE AKROKERAMOS PRAWN	PIRAEUS	EYDAP	€ 1,000,000	2016-2017
3	CLEANING AND REHABILITATION OF THE SEA BOTTOM FROM RUST	LARYMNA	LARCO SA	€ 300,000	2016
4	EXTENTION AND IMPROVEMENT OF FISHING PORT	TYROS, ARCADIA	PREFECTURE OF PELLOPONESSE	€ 2,500,000	2015
5	BERTHING FACILITIES	CIT OF PATRA	PATRA PORT ORGANISATION	€ 500,000	2015
6	MARINA	KANISTRON CHALKIDIKI	MED SEA HEALTH SA	€ 8,118,000	2014
7	REPAIR OF SOUTIRAGES	HERAKLION, CRETE	HERAKLEION PORT ORGANISATION	€ 100,000	2015
8	MARINA	SERIFOS ISLAND	MINISTRY OF TOURISM	€ 3,500,000	2014-2015
9	REPAIR OF BREAKWATER	HERAKLION CRETE	HERAKLION PORT AUTHORITY S.A.	€ 500,000	2005
10	REPAIR OF QUAYS	POROS ATTICA	PREFECTURE OF ATTIKA	€ 500,000	2013-2014
11	REPAIR OF THE CENTRAL PIER	NAXOS ISLAND	MUNICIPAL PORT FUND OF NAXOS	€ 300,000	2013-2014
12	MARINA	ASTROS, ARCADIA	PREFECTURE OF PELLOPONESSE	€ 5,300,000	2014
13	REINFORCEMENT OF BREAKWATER	SYROS ISLAND	PREFECTURE OF NOTIO AIGAI0	€ 1,218,000	2013
14	EXPANTION OF BREAKWATER	EVDILOS, IKARIA ISLAND	EGNATIA ODOS SA	€ 11,000,000	2013-2014
15	COAST PROTECTION	CITY OF KALAMATA	PREFECTURE OF PELLOPONESSE	€ 3,950,000	2012
16	PORT OF KIMI	KYMI, EVIA ISLAND	PREFECTURE STEREA ELLADA	€ 7,300,000	2011-2012
17	WIDENING OF THE ROAD TO THE SOUTHEAST SEASIDE OF THE BAY IN	SIMI ISLAND	MUNICIPAL PORT FUND OF RHODOS	€ 500,000	2011
18	REPAIR OF DOCK	KALYMNOS ISLAND	MUNICIPAL PORT FUND OF KALIMNOS	€ 365,000	2011
19	SHIELDING - PROTECTION OF PATMOS DOCKS PORT BEAM FROM THE MODERN SHIP PROPELLERS	PATMOS ISLAND	MUNICIPAL PORT FUND OF PATMOS	€ 196,000	2011
20	EXTENTION OF MANDOUDI PORT	MANTOYDI, EVIA ISLAND	PREFECTURE OF EVOIA	€ 8,100,000	2011
21	IMPROVING FACILITIES AT FISHING PORT	ILIA, EVIA ISLAND	PREFECTURE OF EVOIA	€ 1,300,000	2011
22	COASTAL ROAD EXTENSION	LANGADA, CHIOS ISLAND	PREFECTURE OF NORTH AEGEAN	€ 1,745,000	2011
23	SHELTER IMPROVEMENT PROJECTS OF SMALL TOURIST BOATS	NAOYSSA, PAROS ISLAND	MUNICIPAL PORT FUND OF PAROS-ANTIPAROS	€ 143,260	2010
24	DAMAGE REPAIRS	PARIKIA, PAROS ISLAND	MUNICIPAL PORT FUND OF PAROS-ANTIPAROS	€ 360,000	2010
25	EXTENTION OF BREAKWATER	KARYSTOS, EVIA ISLAND	PREFECTURE OF EVOIA	€ 3,300,000	2010
26	300M BREAKWATER PROTECTION AT PYTHAGOREIO IN SAMOS ISLAND	PYTHAGOREIO,SAMOS ISLAND	PREFECTURE OF SAMOS	€ 3,850,000	2009
27	FISHING PORT	EVDILOS, IKARIA ISLAND	PREFECTURE OF SAMOS	€ 1,243,000	2009
28	FISHING PORT IN St PAUL MONASTERY IN MOUNT ATHOS	AGION OROS	ATHONIKI TECHNIKI SA	€ 1,100,000	2009
29	PIER CONSTRUCTION FOR LOADING QUARRY PRODUCTS	LEROS ISLAND	TITAN S.A.	€ 650,000	2007
30	PORT OF CHRISOMILIA	FOURNOI IKARIA ISLAND	PREFECTURE OF SAMOS	€ 3,500,000	2006-2008
31	PORT OF EVDILOS	EVDILOS, IKARIA ISLAND	PREFECTURE OF SAMOS	€ 2,000,000	2005-2007
32	TRANSPORT AND PLACEMENT OF 3500 ARTIFICIAL BLOCKS AT THE PORT OF TRAPANI - SICELY-ITALY	TRAPANI, SICILY, ITALY	IRA COSTRUZIONI SRL / NINO FERRARI ING	€ 650,000	2005
33	FISHING PORT	KIATO, CORINTHOS	PREFECTURE OF TRIPOLI	€ 2,613,000	2004-2007
34	PORT OF KISSAMOS IN SOUTH CRETE	KISSAMOS, CHANIA CRETE	PREFECTURE OF CHANIA	€ 1,756,400	2003-2005
35	PORT OF KILLINI	KILLINI, ILEIA	EDRASIS S.A.	€ 4,200,000	2003-2005
36	FISHING PORT IN SFAKIA	SFAKIA, CHANIA CRETE	MUNICIPAL PORT FUND OF CHANIA	€ 2,250,000	2003-2005
37	PORT OF GAVDOS	GAVDOS ISLAND	PREFECTURE OF CHANIA	€ 3,286,727	2003-2006
38	CONTRUCTION OF PORT	AGISTRI ISLAND	PREFECTURE OF PIREUS	€ 1,786,437	2004-2005
39	FISHING PORT IN PSAROPOULI	PSAROPOULI, EVIA	MINISTRI OF AGRICULTURE	€ 2,386,727	2003-2005

No	PROJECT TITLE	LOCATION	CLIENT	BUDGET	YEAR
40	CONSTRUCTION OF CENTRAL DOCK	SKIATHOS ISLAND	PREFECTURE OF MAGNISIA	€ 1,470,000	2003-2004
41	DREDGING	KARYSTOS, EVIA ISLAND	PREFECTURE OF EVOIA	€ 290,000	2003
42	FISHING HARBOUR IN AVDIRA	AVDIRA, XANTHI	PREFECTURE OF XANTHI	€ 750,000	2002
43	PORT OF SIMONOPETRA MONASTERY	AGION OROS	KEDAK	€ 450,000	2001
44	PORT OF VATOPEDION MONASTERI IN AGIO OROS	AGION OROS	KEDAK	€ 600,000	2001
45	FISHING HARBOUR	GIALISKARI, IKARIA ISLAND	PREFECTURE OF SAMOS	€ 1,400,000	2000
46	FISHING HARBOUR OF AGIA ERMIONI	AG. ERMIONI, CHIOS ISLAND	PREFECTURE OF CHIOS	€ 1,100,000	2000
47	PORT OF EYDILOS	EYDILOS, IKARIA ISLAND	PREFECTURE OF SAMOS	€ 2,000,000	2000
48	FISHING HARBOUR IN MAKRI	MAKRI, EVROS	PREFECTURE OF EVROS	€ 1,900,000	2000
49	FISHING HARBOUR IN MAKRI OF ALEXANDROUPOLIS	MAKRI, EVROS	PREFECTURE OF EVROS	€ 1,450,000	1999-2000
50	FISHING HARBOUR IN AMIGDALIA IN ISLAND OF EVIA	AMIGDALIA, EVIA	PREFECTURE OF EVOIA	€ 600,000	1999
51	REPAIR OF DOCK P9 IN NAVY PORT OF SALAMIS	SALAMIS ISLAND	GREEK NAVY	€ 600,000	1999
52	PORT OF KIMI	KIMI, EVIA	Δ.Τ.Υ.Ν.Α.ΕΥΒΟΙΑΣ	€ 22,000,000	1985-1998
53	PORT OF EYDILOS	EYDILOS, IKARIA ISLAND	PREFECTURE OF SAMOS	€ 700,000	1998
54	PORT OF EYDILOS	EYDILOS, IKARIA ISLAND	PREFECTURE OF SAMOS	€ 2,400,000	1996
55	EXPANSION OF FISHING PORT	PLATAIA, EVIA	PREFECTURE OF EVOIA	€ 80,000	1994
56	DOCKS OF BREAKWATER IN FISHING PORT	FANOI, RODOS ISLAND	MUNICIPAL PORT FUND OF RHODOS	€ 300,000	1995-1996
57	MARINE CONSTRUCTION PROJECTS (Phase B)	SPETSES ISLAND, ATTICA	PREFECTURE OF PIREUS	€ 420,000	1996
58	FISHING PORT AT NORTHERN PLACE OF FALIRAKION (A' & B' PHASE)	RODOS ISLAND	MUNICIPAL PORT FUND OF RHODOS	€ 95,000	1995-1996
59	MARINE CONSTRUCTION PROJECTS	SPETSES ISLAND, ATTICA	PREFECTURE OF PIREUS	€ 200,000	1995-1996
60	COAST ROAD REPAIR PROTECTION AT THE ANCIENT CASTLE	KOS ISLAND	MUNICIPAL PORT FUND OF RHODOS	€ 230,000	1995
61	EXCAVATION OF REEF IN THE PORT OF MYRINA	LEMNOS ISLAND	PREFECTURE OF LESVOS	€ 120,000	1995
62	PORT WALL CONSTRUCTION IN MYRINA	LEMNOS ISLAND	PREFECTURE OF LESVOS	€ 550,000	1995
63	PORT OF PIREUS	PIRAEUS	PORT OF PIREUS	€ 1,400,000	1994
64	PORT OF ALIKI	PAROS ISLAND	PREFECTURE OF CYCLADES	€ 240,000	1993
65	PORT OF NAXOS	NAXOS ISLAND	PREFECTURE OF CYCLADES	€ 200,000	1994
66	PORT OF AG. KIRIKOS	IKARIA ISLAND	PREFECTURE OF SAMOS	€ 450,000	1994
67	FISHING PORT OF NAOUSSA	PAROS ISLAND	PREFECTURE OF CYCLADES	€ 230,000	1993
68	PORT OF PETRA	LESVOS ISLAND	PREFECTURE OF LESVOS	€ 1,100,000	1990
69	MARINA IN PITHAGORIO	SAMOS ISLAND	MINISTRY OF TOURISM	€ 5,000,000	1992
70	A' PHASE CONSTRUCTIONS	RETHYMNON CRETE	PREFECTURE OF RETHIMNOS	€ 640,000	1993
71	FISHING PORT OF PARIANOS BAY	KOYFONISSI ISLAND	PREFECTURE OF CYCLADES	€ 230,000	1991
72	MARINA CONSTRUCTION IN ACHILLEION SKYROS (A' PHASE)	SKYROS ISLAND	MINISTRY OF TOURISM	€ 4,500,000	1991
73	A' PHASE OF MARINE CONSTRUCTION	KARPATOS ISLAND	MUNICIPAL PORT FUND OF RHODOS	€ 450,000	1989-1990
74	CONSTRUCTION DOCK AND RETAINING ARMPORT IN LINARIA	SKYROS ISLAND	PREFECTURE OF EVOIA	€ 150,000	1989-1990
75	PORT PROTECTION IN XENIA HOTEL	SKYROS ISLAND	MINISTRY OF TOURISM	€ 450,000	1989-1990
76	PORT HOTEL PROTECTION IN LAKOPETRA BEACH	LAKOPETRA, ACHAIA	ITAS	€ 230,000	1988
77	PORT PROJECTS	KIMI, EVIA	PREFECTURE OF EVOIA	€ 3,000,000	1985-1994
78	PORT PROJECTS	PLATANA, EVIA ISLAND	PREFECTURE OF EVOIA	€ 60,000	1988
79	COMPLETION OF PROTECTION PHASE B- CONSTRUCTION DOCKS PHASE III	AEGINA ISLAND	PREFECTURE OF PIREUS	€ 65,000	1988
80	PORT CONSTRUCTION SURVIVAL CRAFT	PIRAEUS	GREEK AIRFORCE	€ 27,000	1985
81	DREDGING-REPAIR-BEACH PIER EXTENSION IN POLITIKON	POLITIKA, EVIA ISLAND	MUNICIPAL FUND OF EVOIA	€ 30,000	1982-1983

FLOATING CRANES

ERGOMARE SA owns today (2017), among others, the two biggest floating cranes in Greece (type LIMA 2400). The two "twin-cranes" over all platform dimensions are: 20,00 X 50,00 X 3,00 (m). Being equipped with the most appropriate parts of several sizes (buckets, graspers etc) together with power generators, compressors, welding – sets, they offer full accommodation even when offshore.

Due to the big deck surface, they can carry on board cargo up to 1.400 tons and they are suitable for carrying large parts (e.g. wind-power generators' parts) that cannot be carried by other conventional vessels.

The LIMA 2400B heavy duty cranes offer the most reliable solutions for the marine and port infrastructure construction works allowing:

- **Lifting cargoes up to 120 tons**
- **Under water soil (bottom) excavation** of up to 4.000 m² per working day
- **Placing of artificial concrete blocks** up to 1.000 m³ per day
- Placing of special artificial concrete blocks or breakwater protection (e.g. accropode, tetrapode) up to 1.200 m³ per day
- **Placing of natural big stones weighing up to 20 tons each, with a daily production of 1.400 m³**

FC CONSTANTINOS - ΠΓ ΚΩΝΣΤΑΝΤΙΝΟΣ

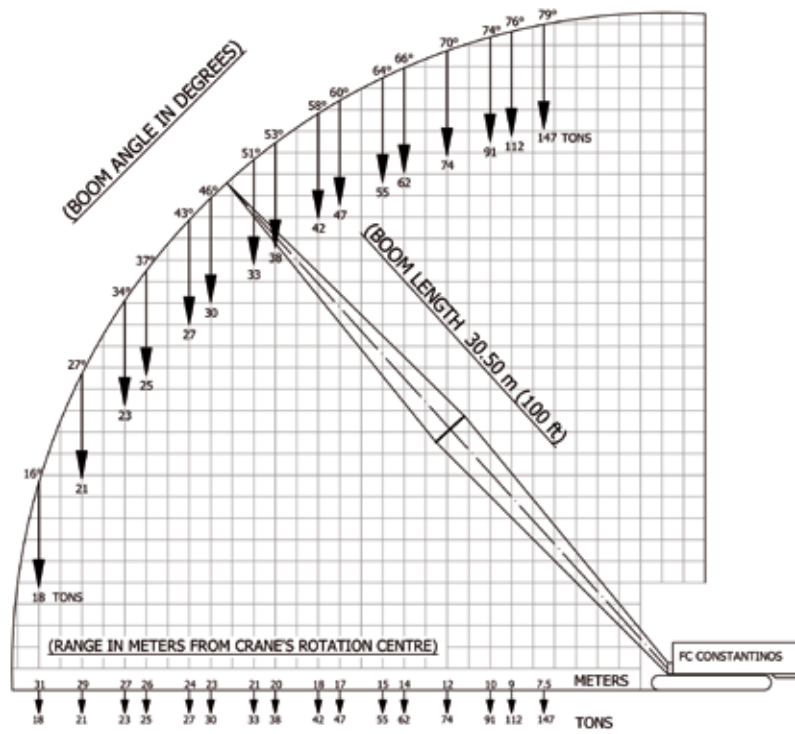
Main Features

LENGTH (OA)	50,30 m
BREADTH (OA)	20,00 m
DEPTH	3,00 m
NET TONNAGE	790,44 REG. TONS
GROSS TONNAGE	806,97 REG. TONS
BUILT	1978/ ROMANIA
CARRYING CAPACITY	1400 tn
CAPACITY / m ²	15,48 tn
GENERATOR 1	35 KVA
GENERATOR 2	12 KVA
ACCOMODATION	5 persons
CRANE	LIMA 2400B
LIFTING CAPACITY	150 tn
ENGINE	Caterpillar D-379 /479hp-1200r.p.m.



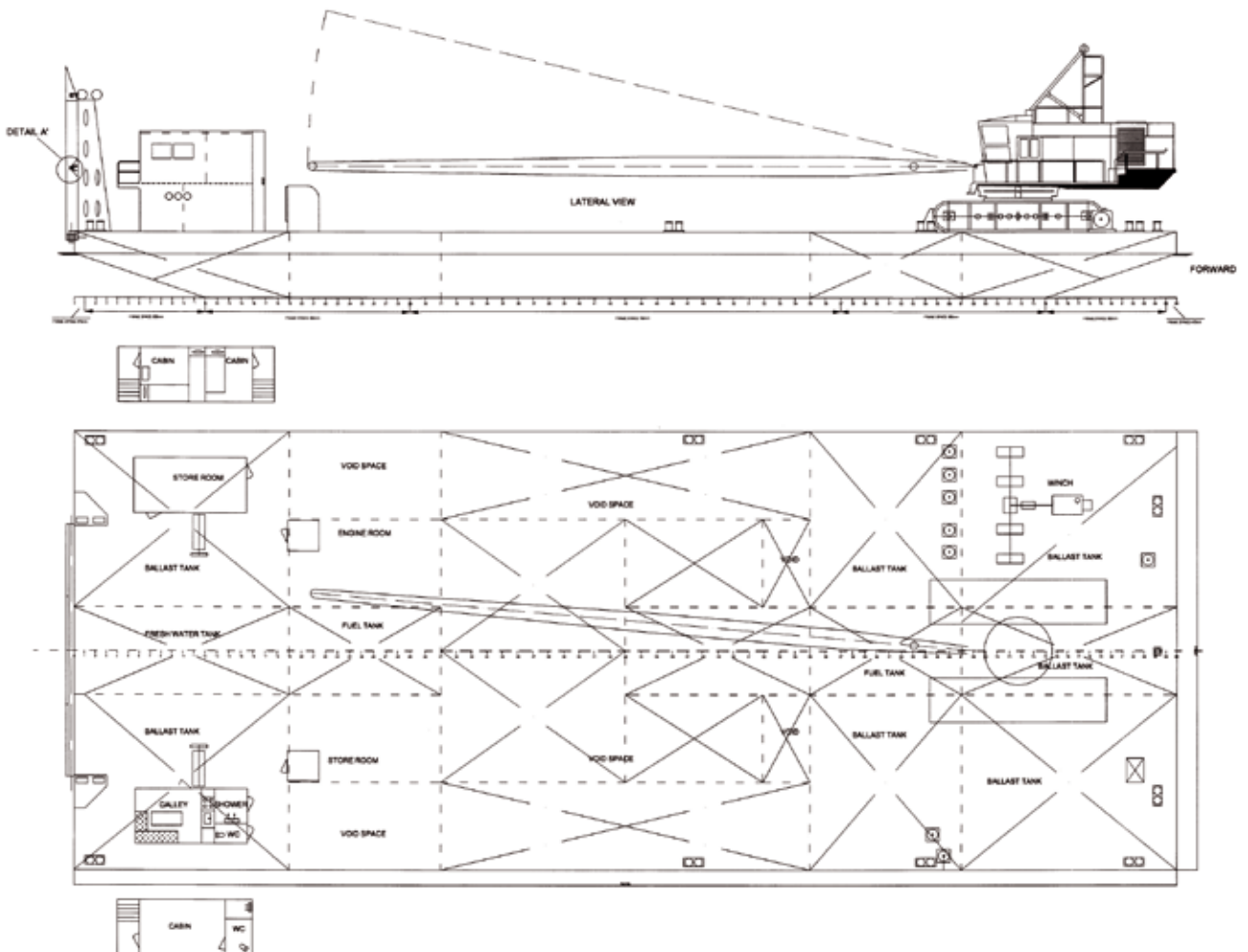


LIFTING CAPACITY DIAGRAM
CRANE LIMA 2400B (100 ft - 30 m BOOM)



FC CONSTANTINOS
(LIFTING CAPACITY CHART)

FC CONSTANTINOS (VIEW AND GENERAL PLAN)



> FLOATING CRANES

FC CHRYSSA



Main Features

LENGTH (OA)	50,30 m
BREADTH (OA)	20,00 m
DEPTH	3,00 m
NET TONNAGE	790,44 REG. TONS
GROSS TONNAGE	806,97 REG. TONS
BUILT	1983 /ROMANIA
CARRYING CAPACITY	1200 tn
CAPACITY / m2	13,48 tn
GENERATOR 1	50 KVA
GENERATOR2	30 KVA
ACCOMODATION	8 persons
CRANE	LIMA 2400A
LIFTING CAPACITY	120 tn
ENGINE	Caterpillar D-397 /473hp

Windward dock breakwater construction with natural big stones over 30tn in Gavdos island



In works where there is no need for relatively big lifting capacity like underwater placing of cables, formation of final layer of the concrete blocks seating, drainage placing etc, the solution is provided by more economical equipment that is a smaller floating crane of lifting capacity up to 70 tons:

FC AGIOS NICOLAOS



Main Features

LENGTH (OA)	29,10 m
BREADTH (OA)	13,55 m
DEPTH	1,55 m
NET TONNAGE	74,00 REG. TONS
GROSS TONNAGE	247,00 REG. TONS
BUILT	1958/ ROMANIA
CARRYING CAPACITY	400 tn
CAPACITY / m2	15,48 tn
GENERATOR 1	15 KVA
ACCOMODATION	5 persons
CRANE	RUSTON 71RB
LIFTING CAPACITY	40 tn
ENGINE	Cummins NT-855PTC /335hp-2100r.p.m..

TUG BOATS

ERGOMARE SA owns private Tug Boats. The Tug Boats are used for towage of big or smaller boats or floating equipment and they are suitable for working in relatively small depth, as is usually needed in Port and Marine infrastructure works. Mostly, they are manned by experienced sailors, well trained for their specific tasks, securing a safe towage. Moreover, our tug boats are used when a marine transport of special equipment is assigned.

TB MICHAEL



Main Features

TB MICHAEL	
Type	Assistant TUG BOAT for sea transport and off shore works
Year	1978 Greece
CALL SIGN	SV 5359
Hull material	Steel
Overall length	LOA = 12,20m
Overall breadth	Bmax = 3,65m
Maximum draught	dmax = 2,40m
Register depth	D = 1,63 m
Gross tonnage	GT=16,66
Net tonnage	NT=8,69
Deadweight	
Engines	1X141 VOLVO TD60
Flag	Greek

TB VASSILIKI



Main Features

TB VASSILIKI	
Type	TUG BOAT for sea transport and off shore works
Year	1982 Romania
CALL SIGN	SY 8123
Hull material	Steel
Overall length	LOA = 23,28m
Overall breadth	Bmax = 6,97m
Maximum draught	dmax = 2,40m
Register depth	D = 2,65 m
Gross tonnage	GT=99,30
Net tonnage	NT=15,39
Deadweight	DWT = 140 t
Engines	2X480 DOOSAN V158TIH
Flag	Greek



Floating Crane
towage

Split barge
towage



BARGES

The barges owned by ERGOMARE SA cover a range of capacities (from 200 to 1.800 m3) and are in perfect operational condition. They are used to dump excavation products, carry gravel products or other materials even in big distances. They are also used in several stages of the port infrastructure works like in placing stones on the seating layer of the concrete blocks.

With the use of the towable barges we can provide solutions for the marine transport to any area, keeping the cost low, due to the big cargo capacity, securing big and continuous production.

B GIANNIS III



Main Features

Split hopper barge – Purpose: Transport of dredged material, sand, gravel stones, blocks etc. Transport of quarry run up to 12t/pc for construction of breakwaters.

Year built	1990
Last inspection	2010
Hull material	Steel
Dimensions	50,30 X 12 X 2,20
Net tonnage	615,48 tns
Cargo capacity	450 m3 / 850 tns
Gross tonnage	642,39 tns
Engines	Without propulsion means
Flag	Greek

B GIANNIS IV



Main Features

Split hopper barge – Purpose: Transport of dredged material, sand, gravel stones, blocks etc. Transport of quarry run up to 12t/pc for construction of breakwaters.

Year built	1980 Romania
Last inspection	2014
Hull material	Steel
Overall length	LOA = 60,30m
Overall breadth	Bmax = 11,30m
Maximum draught	dmax = 3,40m
Register depth	D = 3,93 m
Holds legths	34 m
Cargo capacity	940 cum
Gross tonnage	GT=940,81
Deadweight	DWT = 1.500 t
Engines	Without propulsion means
Flag	Greek



Floating Excavator DIMITRIOS



Main Features

Purpose: Underwater excavation

Year built	2009
Dredging capacity	Up to 400m ³ /hour
Hull material	Steel
Dimensions	25,28 X 11,50 X 2,00
Net tonnage	126 tns
Gross tonnage	145 tn
Engines	Without propulsion means
Flag	Greek
Type of excavator	O & H RH30D /70tns
Engines	Cummins 450hp
Bucket	3 m ³
Anchors	2

OTHER EQUIPMENT

ERGOMARE SA's competitive advantage is the **privately owned floating machinery** and equipment. However, the company's other (land) equipment is significant too, whether it is considered special or not. ERGOMARE SA **keeps on investing** in new equipment, marine or land, or adding value to it by regular service, in order to be able to meet in time the construction of the projects it undertakes.

Our company due to its in depth knowledge of the Greek market, **has access to a multitude of floating machinery (floating diggers) or other equipment (excavators, loaders, trucks, batching plants, etc.)** that may be required in each construction phase project .

Moreover, a series of supporting means (cars, vans) and special equipment (depth soundings special electronic equipment, diving equipment) is available.



HUMAN RESOURCES

The most important factor that ensures the leadership of the Company in its object, is its staffing by fully qualified manpower in the construction of port infrastructure projects that requiring special knowledge due to their nature and the conditions that need to be addressed in the construction stages.

The company today is managed by experienced engineers with unquestionable experience in building public and private projects, who provide their expertise and guidance for the project implementation.

Our construction sites are staffed by personel, the most specialized in Greece in the construction of marine works. Qualified surveyors, experienced pilots, sailors and craftsmen as well as equipped diving crews of the company undertake and guarantee timely and workmanlike construction projects.



QUALITY AND SAFETY

An integral part of company policy is a concern for health and safety of workers and staff. Particularly during the construction phase of port infrastructure works where requirements on security are high up, we keep the most demanding security plans with a focus on:

- Continuous education and informing employees on security matters with continuous seminars
- Compliance with health and safety requirements at all stages of projects
- Risk assessment, audit compliance with security measures
- Prevention measures for marine pollution
- Compliance with the standards of quality programs in construction and administration.

With the experience and the constant training of our workforce, we achieve successful prevention of accidents or injuries and ensure the protection of the marine environment.

ERGOMARE SA is under certification by TUV AUSTRIA:

- of its Quality management systems with the requirements of ISO 9001:2008 Certificate Registration No 010150537
- of its Environmental management systems in compliance with the requirements of ISO 14001:2008 Certificate Registration No 04015151
- of its Occupational Health and Safety managemen systems in compliance with the requirements of OHSAS 18001:2008 Certificate Registration No 03015103

UNDERWATER SURVEYING AND DIVING WORKS

ERGOMARE SA is staffed by accredited divers who in cooperation with the company's equipment are capable to carry out the most demanding underwater works and services, such as:

- Underwater concrete laying
- Enforcement of existing quays
- Underwater inspections and filming
- Underwater pipelaying



SHIPWRECK REMOVALS AND CARGO SALVAGE

- We are specialized in salvage and shipwreck removals.
- We are pioneers in cargo reclaiming from any depth

SPECIAL MARINE PARTS PLACING

- We are pioneers in special marine parts underwater placing, in big depth (over 50m.)



CLIENTS

At ERGOMARE SA, we know that whether you're a local authority, a public sector entity or a private sector investor you have specific needs concerning your construction project, and we address those needs with a proposal tailored specifically to you. We serve in Greece or abroad:

- **Public sector authorities** as contractors of port infrastructure projects
- **Private investors as contractors** of their Marina or any other kind of construction project
- Construction organizations as **subcontractors with "turnkey" solution** for their project
- Project leaders **chartering units of our fleet** (floating cranes, tug boats or barges), daily or monthly

Our clients can guarantee for the timely, technically sound, secure and economical project construction

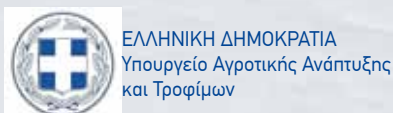


TABLE OF FLOATING MACHNERY AND EQUIPMENT OF ERGOMARE S.A.

TYPE	NAME	REGISTRATION	DIMENTIONS	CHARACTERISTICS
	FLOATING CRANE CLARK CONSTANTINOS	PIRAEUS 157	50,20 x 20,00 x 3,00	LIMA 2400B, 120TN - CAPACITY ON BOARD 1400 mtns Lifting capacity 120tns / boom 36m / accomodation 8prns / Bucket 14tn, Grab 9tn, Grab 4tn / two (2) generators 35KW, 12 KW
	FLOATING CRANE CLARK CHRISSA	CHALKIS 05	50,20 x 20,00 x 3,00	LIMA 2400, 120TN - CAPACITY ON BOARD 1400 mtns - Lifting capacity 120tns / accomodation 8prns / boom 33m / Bucket 16tn, Grab 7tn, Bucket 4tn /two (2) generators 50KW, 24 KW
	FLOATING CRANE AG. NIKOLAOS	PIRAEUS 2267	13,50 x 29,10 x 3,00	RUSTON BUCYRUS - LIFTING CAPACITY 50tns
	FLOATING EXCAVATOR DIMITRIOS I	CHALKIS 76	25,28 x 11,50 x 2,00	O&K 30D EXCAVATOR - BOOOM LENGTH 16m, DREDGING CAPACITY 3.000M3 AT -12,00M
	SPLIT HOPPER BARGE GIANNIS III	CHALKIS 07	50,30 x 12,00 x 2,20	CAPACITY 400 M3 (650 tns)
	SPLIT HOPPER BARGE GIANNIS IV	CHALKIS 05	60,30 x 11,70 x 3,93	CAPACITY 1000m3 (1600 tns)
	TUG BOAT VASILIKI	CHALKIS 446	23,30 x 6,96 x 3,30	Machines: 2 X 480 BHP DOOSAN
	TUG BOAT MICHAEL. N	PIRAEUS 6250	12,20 x 3,65 x 1,63	Machine: 141 BHP VOLVO





ERGOMARE S.A.

PORT AND MARINE CONSTRUCTIONS

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