

# MARINAS OF ITALY 2012

We've explored Italy's coastline looking for well appointed ports and marinas along our shores and here is our overview from 2012. Safe harbours and yacht facilities offering "a holiday within a holiday", places from which to explore enchanting corners of paradise or ancient ports praised by famous sailors and still in use today.

October 2012

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Maritime Engineering

# Pontoons and structures on water....



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**INGEMAR**  
Maritime Engineering



## An overview of resources for the Italian yachting industry in 2012

Ingemar is proud to again be alongside the Fiera di Genova as its technical partner for the **52nd International Boat Show**: Ingemar's piers and floating walkways have formed the exhibition framework for several years at this the most important Italian boat show.

As further testimony to their dedication in developing Italian yacht harbour structures, Ingemar has again published, in collaboration with **Il Giornale della Vela e Barche a Motore**, this 2012 brochure on **Italian Ports and Marinas** for both visitors to the show and all yachting enthusiasts.

Compared to the last version of the brochure, this one offers a more complete panorama of Italian ports and their services, together with the profiles of nearly **100 tourist harbours** which make up Italy's principal yachting resources.

We are convinced that you too share the same passion for the sea and for our splendid coastlines. We would also like to add our fervent wishes that the Italian sailing industry, a stronghold of our economy in the past, will again receive the well deserved attention and acknowledgement which are the results of a long and ancient maritime tradition and the **Made in Italy** trademark of quality.

# Ingemar in Jordan

## Ingemar participates in the development of Ayla and its new luxury marina

A new prestigious residential tourist centre is being developed at **Aqaba** on the Red Sea: Ingemar will be responsible for the design and construction of floating structures for the new Marina.

The Ayla Oasis Development Company is developing a new residential tourist resort at Aqaba in Southern Jordan which will radically transform the region.

**This huge project**, whose objective is to offer a high profile alternative to other **Red Sea destinations such as Sharm el Sheik and Hurgada**, will cover an overall area of approximately 460 hectares overlooking the Gulf of Aqaba and is surrounded by two mountain ranges which connect the Gulf of Aqaba to the Dead Sea. The new complex will feature a series of lagoons and artificial islands, 5 luxury hotels of 90 to 600 beds, 3,000 residential units, an 18-hole golf course designed by **Greg Norman** (the famous golfer and

golf course architect), a 9-hole course, a **tourist port** with multiple private moorings, as well as large commercial units and entertainment and recreational facilities.

Many of the new residences and hotels will have **private moorings** and independent access to the Marina (a tidal lagoon) and other units will overlook two upper lagoons (the Upper and Middle Lagoon) with white sandy beaches to be used exclusively for swimming and recreation but with no motor-boat access. Ingemar's role, for Società Italiana per Condotte d'Acqua SpA, which won the civil and electromechanical works, will be crucial for the 31 hectares of the tidal lagoon which flows directly into the Gulf of Aqaba: water from the two upper lagoons (the Upper and Middle lagoons), which cover approximately 53 hectares, will be fed by a system of pumps and lifting apparatus, pumping water directly from the **Gulf of Aqaba** at

about 10 cu mts per second.

Having terminated the final shop drawings, Ingemar is currently programming construction of **the pontoons, fingers and equipment for the marina**, all of which constitute the principal landings for the Ayla Project.

The floating structures, with an overall surface area of more than 7,000 sq mts and extending for approximately 3 kms, will be of aluminium alloy supported by unsinkable floating units in concrete and expanded polystyrene, finishings in eco-friendly exotic hardwood, all anchored to the lagoon bed by fixed pilings.

The project includes a wide range of floating structures differentiated according to their position in the Marina and their specific functions. The west zone, close to the Marina's entrance, will accommodate a **floating service platform** for fuel pumps and the waste pumpout system. On the

stretch of water to the south, between the residences, there will be 3 mt wide pontoons with three floating fingers of between 12 and 20 mt lengths and 1.5 mt or 2 mt widths, with or without mooring poles.

The pontoons will be **custom-made** and modeled so as to follow the horseshoe-shaped design and inserted within the available spaces. The storage depot and motor boats will be housed in the south-east zone and will include a small workshop for repairs. The pontoons will have no fingers but will be equipped with 4 floaters to ensure stability and comfort. Continuing anti-clockwise there will be the first zone for med-moorings equipped with 2.5 mt wide continuous pontoons and with bollard and chain mooring systems. The northeast zone will have the greatest number and longest fingers made up of 3 mt pontoons equipped with four floating elements and fingers up to 20 mts. The pontoons in the northern zone complete the project and will in part be installed during the second phase of work: these comprise pontoons and fingers for **mooring craft of up to 40 mts in length**. Access to the pontoons will be along walkways in aluminium and up to 24 mts

in length: this will eliminate barriers and provide a comfortable incline allowing easy passage for pedestrians. The design and construction of the pontoons meets the highly demanding contractual specifications from the point of view of weight-bearing loads, their combinations and quality of the finishings. The diversity of construction solutions respects the specific requirements according to the great variety of applications within the Marina.

The first of these huge areas, called **"Marina Village"**, will be completed by 2014 and will include approximately 250 residences, a super-luxury hotel, retail and commercial units. The next area to be developed, named the **"Arabian Venice"**, will have all the characteristics of a true "Venetian Arabia".

The area around the Ayla Project is famous for its spectacular coral reefs typical of the Red Sea, as well as its vicinity to the awe-inspiring city of **Petra and the archaeological sites of Tal Khalifeh**, an Iron Age settlement also mentioned in the Sacred Scriptures.

The project, with an overall estimated cost of US\$ 1.2 bn, is being promoted by the Ayla Oasis Development Co. (Ayla) and

the Aqaba Special Economic Zone Authority (ASEZA).

The excavation of the lagoons resulted in moving approximately 9,5 million cu mts of earth which has been used to create the elevations of Ayla Heights and the golf courses behind. The site is entirely supervised by the Ayla Oasis Development Co., formed by the Saudi investment group ASTRA, a holding company with diversified interests in commerce, manufacturing, pharmaceuticals, building and construction as well as vast experience in tourism, with important shareholders of the investment company ZARA Holdings (ZARA), the largest **Jordanian** tourist investment company.



## From the Mediterranean to the Red Sea and the Persian Gulf, the application of floating pontoons is increasingly numerous

In Greece, Monaco, Turkey, Croatia, Montenegro, Kuwait and Saudi Arabia, Ingemar's floating modules are also widespread. Apart from the enormous **Ayla Marina in Jordan** (see article) Ingemar is present throughout the **Mediterranean**, the **Red Sea** and the **Persian Gulf** with their floating moorings for yachts.

**ITALY** Work at the great tourist port **Marina del Gargano** at Manfredonia will be finished by next April; at **Venice**, in the heart of the Serenissima, the Marina of Sant'Elena is nearly operational;

**MONTE CARLO** In the Principality of Monaco installation of new floating elements in reinforced concrete of the all-concrete type is in its final stages, completing reconstruction of the old pontoons in the western section of Port'Ercole;

**CROATIA** Enlargement of Marina Kornati at Biograd and new installations for yachting associations and private operators at Split and Lussino;

**MONTENEGRO** More berths for Porto Montenegro at Tivat. Floating pontoons in the super yacht basin and fixed and floating piers along the shoreline;

**GREECE** On the island of Salamis installation is completed and work starts on the installation of pontoons at Zea Marina, Piraeus;

**TURKEY** Installation begins of maxi floating breakwaters in reinforced concrete, 6 mts wide and 280 linear mts, for D. Marine at Port Gocek near to Fethiye;

**KUWAIT** Work on restructuring and enlarging Khiran Marina, the country's main tourist port 100 kms south of Kuwait City, will be finished by year end;

**SAUDI ARABIA** Two floating landings are being constructed for the Saudi Coast Guard - one on the Persian Gulf and one on the Red Sea;



# Floating pontoons made in Italy

From La Spezia to Imperia the yacht sector counters the crisis

**G**enoa, La Spezia, Loano and Imperia are just some of the prestigious ports in north-western Italy embracing Ingemar's floating pontoons. If new tourist ports under construction struggle to take off, in reality they are more likely to attract an enthusiastic clientèle looking for top quality if the initiative is motivated by renovating and upgrading the existing resources. Floating pontoons offer a **simple, modern and reliable solution** which are more often adopted by small sporting associations rather than more important marinas.

Amid the many projects under construction, those along the Ligurian coastline are especially numerous: following completion of the prestigious **Marina di Loano** with over 1,000 berths, **Porto Maurizio, San Lorenzo** and **La Spezia**, Ingemar continues operations to renew and enlarge yachting harbours right up to the nearby Principality of Monaco.

## PORTO ANTICO DI GENOVA

Work on enlarging and rearranging the floating moorings in the historic basin between **Ponte Spinola** and **Calata**

**Cattaneo** have recently been completed. The work included installation of new floating pontoons for yachts as well as special structures along the wharf to moor ferries: the new outlay will ensure **greater receptive capacity** and improve management by the ports' operators. Of particular interest are the pontoon anchorage systems, diversified according to specific requirements, which include vertical beams along the quays and pilings fixed to reinforced concrete plynths within the port. The work also included refurbishment of the service installations and service terminals along the piers.

## MARINA GENOVA AEROPORTO

Ingemar has created new moorings on floating pontoons with steel frames and walkways in exotic hardwoods for the airports' marina, close to new residential buildings, thus completing the structures installed over the last few years.

## LA SPEZIA

At the entrance to the centre of **Le Grazie**, a new landing-place is under construction built entirely on Ingemar's floating pontoons for **Portido** and the

yacht club **La Rotonda di Ria** and **Velica 3D**. In the space of a few years the bay of Le Grazie has been completely transformed with better arrangements for the numerous yachts, which were previously moored to buoys, and more rational moorings in the delightful **Golfo dei Poeti**.

Today the flourishing refitting activities of large yachts at the **Cantiere Valdettaro** coexists alongside beautiful vintage yachts moored on the opposite side, while the harbour is mainly organised and equipped with floating pontoons for the use of local yacht clubs and the local administration.



## ITALY SECTOR LEADER - THEIR PONTOONS AT THE AMERICA'S CUP

### At the America's Cup too: floating pontoons are much better

**I**taly is the sector's leader for floating pontoons which have also been used at the Italian leg of the **America's Cup**. The system of floating pontoons is increasingly widespread and both modern marinas and small traditional ports make great use of them since they are not intrusive, are secure, longlived, efficient and movable according to harbour requirements for altering moorings. In the last few years thanks to Ingemar's floating pontoons, large tourist marinas and small ports have been created, both in Italy and abroad, with the shared virtue of having low negative impact on the exchange of water, surrounding coastlines and the environment. Over time their flexibility has resulted in varied



and diverse applications, from yachting to both tourist and commercial maritime traffic, from industrial installations to sporting events. In 2012, following the experience acquired at the **yachting events** for the **Athens Olympics** and the **Louis Vuitton Cup** in Sicily, Ingemar was again involved in regattas assisting the main organisers of worldwide sailing events for both the Italian legs of the America's Cup, installing approximately 500 mts of their floating modules opposite the Naples waterfront and within the historic basin of the Arsenale of Venice.

At both **Naples** and **Venice** regattas were held of flotillas, match races and speed trials on the demanding **AC45s** and fixed sail catamarans: in both events Ingemar's floating pontoons made up the 'base camps' for the catamarans and the regatta's service vessels.







# Ingemar: over 30 years of building on water

For more than 30 years Ingemar has been in the business of creating structures on water for the yachting industry and specialist facilities for the industrial, transport and recreational sectors. The company's head office and administration are located in Milan while production, technical and commercial work takes place in their own factory at Casale sul Silo near Treviso.

Ingemar employs roughly 35 people full time; both management and many key personnel have worked as a team for more than 20 years, testimony of constant attention to people and their capabilities. The company has all the necessary resources at its disposal for its technical, operational and research and development activities; laboratory testing of floating elements has for many years been carried out in collaboration between Ingemar and the **IMAGE** institute of the University of Padua.

Ingemar builds its most significant components directly in the **factory at Casale**, with 2,000 sq mts indoors and 4,000 sq mts of logistics and production space, and collaborates with distributors and selected partners to supply specialist elements. The company has always preferred direct contact with their clients, using external colleagues who, both in Italy and abroad, carry out commercial operations in collaboration with the company management. Ability and versatility of dedicated design has allowed Ingemar to increase its range of structures for the yachting sector to floating pontoons, jetties and prefabricated fixed pontoons and floating piers for super yachts. Production of standard elements has always been carried out alongside special made-to-measure structures, even for clients outside the marine sector. Expertise has been amassed in the construction of **floating platforms** for exhibition, recreational and industrial purposes, bridges and floating crossings, floating pumping stations, landings for naval and commercial vessels. Ingemar is often the main contractor, a distinctive and important role allowing the company to carry out important turnkey operations complete with anchorage and mooring systems, service facilities for berths and complementary fixtures. The company is associated with **UNINDUSTRIA** and **U.C.I.N.A.**, and its technical managers are all members of **A.I.P.C.N.**

Ingemar is the holder of quality certifications (ISO 9001: 2008 for design, construction and installation of pontoons, floating breakwaters and fixed piers) and holds the SOA certificate to carry out public works (category OG7 class VII for amounts up to 15 million Euros and the category OS 18 class III for amounts

of up to 1 million Euros). The most complex projects were warranted by **International certifying authorities** (Rina Industry in Italy, HRS in Greece and HRB in Croatia). Ingemar is always present at the most important yachting events and boat shows: in particular they are the supplier and technical sponsor for both the **Genoa** and **Venice** Boat Shows, as well as the yacht races of the Livorno Naval Academy for the **T.A.N. trophy** and the **Gargano and Manfredonia regattas**. Ingemar's pontoons were chosen for the yachting and rowing regattas at the **2004 Athens Olympics** and for the **Italian legs of the 2012 America's Cup** at Naples and Venice.

Ingemar's most prominent constructions in **Italy** are: Tourist Port at Loano, Marina at Castellammare di Stabia, Genova Porto Antico, Porto Mirabello at La Spezia, Marina at Villasimius, Tourist Port at Jesolo, Porto San Rocco at Mugia, Ports of Trani, Bisceglie and Taranto, Ormeggi Terre Rosse at Piombino, Marina della Cala at Palermo, Porto di Palau, Marina Piccola at Cagliari, Porto and Marina at Lacco Ameno and Ischia, Marina Cala de' Medici at Rosignano Solvay (Livorno), Club Nautico Marina di Carrara. Currently under construction are work for the new Marina Santelena at Venice, Marina di Diamante in Calabria and Marina del Gargano at Manfredonia.

Significant **international** appointments: Marinas of Gouvià and Lefkas in Greece, Regional Port of Locarno in Switzerland, Jasmine Marina at Hammamet in Tunisia, Marina Novi Grad and Marina Kastela in Croatia, Khiran Marina in Kuwait, Porto Montenegro in Montenegro, Port Stora in Algeria and Marina Andalous at Tripoli in Libya. Under construction are work for the new Ayla Marina at Aqaba in Jordan, Port'Ercule at Montecarlo and Port Gocek in Turkey.

The following are some of their specialist structures: the floating bridge for the Feast of the **Redeemer** at Venice, floating piers for the **Kuwaiti Coast Guard**, floating pavilions for the **Biennale** at Venice, floating headquarters for the **Reale Circolo Canottieri Tevere Remo** and the yacht centre **I.U.S.M.** in Rome and the **Ravenna Yacht Club**, floating platforms for catering at Trani (Bari) and Santa Margherita Ligure, floating crossing at Vigonovo, a bathing platform at Genova Porto Antico and the floating service centres at La Spezia and Locarno.

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*Pontoons and structures on water*