



Ingegneria Marittima

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PRESS RELEASE

PRODUCTION ACTIVITIES RELOCATED INTO OPEN AREAS SUPPORTED THE BUSINESS RESULTS OF THE GROUP AND, LIKE REAL WAVE ATTENUATORS, PROTECTED THE STAFF, MINIMISING THE IMPACT OF THE PANDEMIC

The new 'mobile construction sites' made it possible to carry out important works in Italy and abroad despite health restrictions and the uncertain global economic scenarios of 2020

Milan, XX dicembre 2020. If due to suspension of business activities and trade restrictions on a global level, 2020 was classified by many as a "year to forget", for Ingemar it represented a great challenge, rewarded by a positive financial result. The group has allocated important resources to rigorously apply the stringent national and supranational regulations on safety and distancing and to reorganize many of the phases of its industrial process.

In particular, Ingemar's attention focused on three aspects:

- requalification of internal industrial spaces by distancing of work stations, acquisition of new spaces for the storage of manufactured goods and activation of remote work to facilitate precautionary distancing between staff
- definition of exclusive license agreements with important international Groups for production of floating structures relocated to other countries, with Ingemar providing executive design, direct supervision and the contribution of strategic supplies
- further development of the innovative "Ingemar mobile construction sites" which, after the exciting experiences in *Kuwait* and in the Gulf of *La Spezia*, made it possible to "transfer" the construction of heavier and more bulky products outside the plant.

The joint development of these commercial and operating methods opened new frontiers for the Group and made it possible to contain the effects of the recent global restrictions on the movement of goods and people, with the transfer of production to the places of destination in specific construction sites located in open spaces and far from potentially critical situations. Implementation of these new production methods resulted in 2 major installations being completed recently, one in Italy in *La Maddalena* and the other in *Dubai* in the United Arab Emirates.

LA MADDALENA and the new floating port of *Cala Balbiano*

The new tourist port of *Cala Balbiano* is considered one of the key projects for the relaunch of the tourist industry of La Maddalena island. Talks about it started in the days of the former G8 and many had almost stopped believing in it. Nevertheless, after a long and difficult bureaucratic procedure with the objective of minimizing the environmental impact of the project, the new port near the city center is now a reality.

The project design was prepared by the engineers *Andrea Ritossa* of MarTech srl and *Giovanni Pileri* of Studio Pileri. It includes the construction of two reinforced concrete barriers for a total of 140m, consisting of 6x20m floating breakwaters weighing 130t each. In addition, one steel access dock with concrete and expanded polystyrene floats of the same size was installed.

The project created about 140 berths in Cala Balbiano, including 52 for boats up to 40m. They are distributed along the breakwaters and along the quay near the port. The basin also contains 3 floating piers for smaller vessels. Ingemar, the contractor of the works, managed the execution of all the floating structures with their anchoring systems, moorings for the boats and the services.

In this case, the gigantic breakwater modules of over 130 ton each were built in a "mobile construction site" temporarily set up in Olbia and then towed by sea to the installation site. A rewarding choice, given the size and weight of the elements, but also an excellent opportunity to establish close collaboration with the local production realities which contributed in solving all the complex issues of the operations of the



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yard.

LAST MINUTE! Even before the completion of the works, the new breakwaters were subjected to a heavy and unexpected marine weather 'stress-test' which they passed with highly satisfying results. These field checks paved the way for a new contract for supply of another 14 elements - already under construction - which will protect the **Marina Cala dei Sardi**, in the nearby Gulf of Cugnana.

DUBAI HARBOR: a futuristic floating center for mega and giga yachts

The new Dubai Harbor Marina is the first and, moreover, a flattering result of the license agreement with Overseas AST LLC for the exclusive production and distribution in the United Arab Emirates of the most important top of the range Ingemar products: all-concrete pontoons, fingers and floating breakwaters with very high displacement.

Ingemar has refined its production technologies for on-site prefabrication over the last few years and gained a great deal of experience in the management of relocated construction sites and in the transfer of know-how. The AST Overseas LLC Group for almost 60 years has had major achievements in the maritime and civil infrastructure sectors of the United Arab Emirates and can boast a consolidated experience in the construction of important marinas.

The joint AST / Ingemar intervention is part of the new impressive project to enhance the city waterfront of "Dubai Harbor" with the construction of a new mega marina with 1,400 berths and an innovative cruise terminal capable of hosting large ships and up to 6,000 passengers.

After an initial phase of definition of the technical characteristics of floating structures and local resources, the production of the modules began in December 2019 in a construction yard about 20 km from the installation site. The floating docks, up to 6x20m, are of the All-Concrete type in reinforced concrete, characterized by high displacement. The lay-out and the specific requirements in services for the large yachts required a great deal of effort in the design of numerous special elements. Nevertheless, 220 specially designed modules were installed in record time, for a total of 3800m.

Inside the new marina, mega-yachts up to 60m long are moored directly on the new floating docks, while special fingers are reserved for giga-yachts up to 120m long, mooring to the buoys (with mooring blocks). Dubai Harbor covers an area of over 1.8 million square meters and will also include a large shopping center, an event arena, residential buildings, offices, shops, restaurants and bars, which are under construction. The project also includes an iconic architectural structure baptized "*Dubai Lighthouse*" 135 meters high and intended to overlook the entrance to the port.

Lorenzo Isalberti, founder and president of Ingemar, commented on the results of this anomalous financial year: - 2020 opened with many hopes and great expectations but the Covid emergency blocked everything and everyone suddenly. Fortunately, our experience in the field in the delocalization of production has allowed us to safely stem many of the limits imposed by the global contingency and to be able to closely monitor geographical areas that boast some of the highest development rates in the world. Summing up, our original "mobile sites", designed and tested before the emergency, were during this year the winning card to close the year with a positive sign and to keep our production level high while slowing down the activities of our factories.-

For more than 40 years Ingemar has been designing and building pontoons and floating breakwaters in Italy and abroad. Today it is one of the few companies in the sector to have its own independent production facilities, enabling it to carry out Research and Development in anticipation of market demands. ISO 9001 certification for design, construction and installation gives testimony to the company's constant dedication and commitment to quality. In addition, the company holds SOA certification in the port sector for commissions of up to Euro 15.5 million. The company's Head Offices are in **Milan**, while production and customer services are based in **Casale sul Sile** (Treviso). The Ingemar Group consists of the *Ingemar* parent company, responsible for design and maritime engineering, and its sister company *Ingemar Trade & Services*, which looks after the commercial network and after sales services.