



Fincantieri awarded Pemamek Welding Automation Contract – Unique New Solutions for Shipyard Production

Fincantieri and its Monfalcone Shipyard decided to continue with a well-trying Pemamek welding automation technology in shipyard's production lines: Fincantieri ordered a unique profile processing line and one side welding station with laser-hybrid process and integrated milling. The exact amount of the contract is not revealed by the parties, but it is in the order of several million euros.

Previously Pemamek has supplied patented Vision Robot Stations for welding panels to Fincantieri. The shipyard has found the results with PEMA systems productive and advanced, so there was a ground laid to further co-operation and trust between the two companies.

Based on good relationship, Fincantieri and Pemamek have now revealed a contract of laser-hybrid based one-sided welding station and a unique profile processing line. The contract consists of a full turn-key delivery with designing, manufacturing, assembly, installation and training. The delivery of these both outstanding solutions will take place during summer 2013 at Monfalcone.

At the first stage of the project, PEMA created efficient solutions for profile processing and plate joining in close cooperation with Fincantieri. The co-operation was fruitful and productive from the very beginning. As Pemamek stands for one of the only global professional manufacturers of both types of complete systems, a package solution was the best way to solve Fincantieri's production needs.

Unique solutions to Fincantieri

In the project, Pemamek had the capability and know-how to take customer's specific requirements on serious consideration and to adapt them to PEMA's own existing technology. **The profile processing line** which consists of **edge blasting and milling** functions before fully **robotized cutting and sorting system** is the most advanced and highest technology available on the market. The solution is very unique and highly automated to provide superior capacity and quality to the shipyard production.

Plate joining system is the first one of its kind and size on the markets and is consisting of huge **one sided welding station with laser-hybrid welding process** integrated together with **tandem MAG process** for welding various range of thicknesses. The station includes also PEMA's own **milling machine technology** and rigid clamping systems for the in-feeding and out-feeding the plates with related conveyors. Welding power sources are of latest technology and fiber laser source one of the biggest for plate joining.

Pemamek is dedicated to listen to customer's requirements, conditions, wishes and needs. Pemamek has over 40 years of experience of different production and welding automation systems that makes PEMA solutions easy to fit with customer's current systems. PEMA solutions are flexible and Pemamek's professional engineers have the experience and know-how in this kind of unique solutions. In addition to these factors, the company's strong commitment on creating key customer partnerships was the reasons for the concluded contracts.

***Fincantieri**, heir to the great tradition of Italian shipbuilding and one of the largest shipbuilding groups in the world, operates in the design and construction of complex ships with high technological content such as merchant and naval vessels, offshore and mega yachts.*

*The Company is a leader in the construction of cruise ships and large ferries. Moreover, it is the reference builder for a wide range of ship types including surface vessels (frigates, corvettes, patrol vessels etc.) and submarines. **Fincantieri** is a partner to ship owners and to the Defense sector with innovative, tailor-made turn-key products backed by a high service level. The company's wide ranging engineering expertise and capacity to build prototypes enable it to take up new opportunities on the market by developing tailor-made products. These specific skills were proved in January 2013 by the acquisition of STX OSV (renamed VARD), a company listed on the Singapore Stock Exchange, world leader in the construction of offshore support vessels for oil and gas extraction and production. Thanks to this transaction Fincantieri improved its competitive position in the offshore industry, becoming one of the leading groups in this sector. In the field of ship repairs and conversions, Fincantieri provides services worldwide and organizes interventions to be carried out at its own facilities or at third party facilities with the aim of reducing the amount of time the ship is out of service and in accordance with customer requirements.*

It develops and builds naval systems (stabilizers, solutions and components for propulsion and power generation etc.), industrial turbines, as well as diesel engines, for both marine and industrial application through its subsidiary Isotta Fraschini Motori. The company also draws on its expertise to create complex, high value designs for the luxury niche market of mega yachts of over 70 metres.

[PEMA welding automation](#) is designed by the world's leading specialist in designing and manufacturing welding automation systems, and work-piece handling equipment – PEMAMEK LTD. PEMA welding solutions are designed to improve customer competitiveness and productivity for better profits. Pemamek uses and produces hi-tech: utilising the best available robot and automation technology. Established in 1970, an AAA-company Pemamek has constantly strived to supply the best welding automation solutions in the world.

PEMA systems and comprehensive customer support services are specifically engineered for the ship building and offshore, heavy engineering, mobile machinery, civil construction, industrial boiler, wind energy, and process and nuclear industries. PEMA products and services are used in more than 50 countries around the world.