



# Marine Solutions

 ARVANITIS E. BROTHERS



## INSTALLATION OF MACHINERY AND EQUIPMENT





The following points summarize part of our accomplishments in respect of installation.

- Main and Auxiliary Engines
- General Sets.
- Gearboxes.
- Propeller shafting systems.
- Anchor Windlasses.
- Mooring Winches (horizontal or vertical).
- Cranes.
- Steering Gears and Rudders.
- Bow & Stern thrusters.
- Catapult systems on ferries and Ro-Ro ships.
- Main deck watertight doors for ferries and Ro-Ro ships.
- Electrohydraulic and Electric systems.
- All kind of Pumps and compressors.
- Rollers, Bitts and Chocks.
- Engine and Machinery Foundations.
- Linear cable engines
- VSP(VOith Schneider Propeller) Propulsion System



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During the installation and latter at the commissioning of the machinery or equipment, Marine Solutions Ltd is using state of the art special tools.

- Upgraded Laser multipurpose Alignment System.
- Infrared Thermometers.
- Endoscope
- Last released Laser multipurpose Alignment System.
- Last released thermal Camera.
- Last released endoscope.
- Last released stroboscope.
- Vibration Analyzer.
- Surface Roughness Tester.
- Digital Crankshaft Deflection Indicator
- Digital Cylinder Liner Analyzer



[www.marine-solutions.gr](http://www.marine-solutions.gr)

Marine Solutions has installed main engines and propulsion systems, as well as all kinds of auxiliary equipment and machinery in more than 100 ships during its sixteen years of operation. Our 50 years experience, expertise and ongoing education and training combined with cutting edge technology guarantees quality in the installation of any machine, ensuring long-living machines and systems.

It is no coincidence that MAN B&W and VOITH SCHNEIDER graduated Marine Solutions with honors, regarding the quality control and installation style and result of main engines, gearboxes and tail shaft systems in new built ferry and supply vessel respectively.



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