



## Wirelife® Monolec® Penetrating Lubricant (2001) & Wirelife® Almasol® Coating Lubricant (2002)

**ELFE SA – Kavala, Greece**

**Wire Rope on Cranes**

- Extended working life of wire ropes
- Extended lubrication intervals
- Reduced lubricant consumption

### Customer Profile

ELFE SA was founded in 1961 and began operating in 1965 at Nea Karvali in Kavala. ELFE merged with Chemical Industries of Northern Greece S.A. and is now by far the largest fertiliser manufacturer in Greece. The company controls the largest share in the Greek fertiliser market, and exports its products worldwide. ELFE's main production facility is in Kavala. It also has a sulfur dusting powder production plant in Patras, a fertiliser bagging facility in Pyrgos, and a company-owned port within the Nea Karvali plant in Kavala.

At the company's Nea Karvali port, its loading and unloading facilities are used for taking delivery of raw materials and dispatching ready products, either in package, pallet or loose form. In 2003, ELFE's port served 251 ships, handling 899,403 tons of fertiliser and raw materials.

### Application

Wire ropes on the port's cranes

### Challenge

The wire ropes on the port's cranes operate in particularly adverse conditions and are subject to environmental pollution, dampness, heavy loads and chemical attack. With the previous lubricants, frequent repeat applications were necessary. In addition, every two months some wire ropes were found with moderate to severe wear.



### LE Solution

In November 2005, technicians from LE Hellas suggested the use of two of LE's Wirelife® lubricants: Wirelife® Monolec® Penetrating Lubricant (2001) and Wirelife® Almasol® Coating Lubricant (2002).

**Wirelife Monolec 2001** penetrates to the core of wire rope, forming an incredibly strong film of Monolec® – one of LE's exclusive wear-reducing additives – thereby providing outstanding protection of the inner strands of wire rope.

**Wirelife Almasol 2002** forms a tough outer coating on wire rope that cannot be washed off by contaminating liquids, has high load-carrying capacity and simultaneously increases the wire rope's inner flexibility.

Together, they address the challenges created by the adverse conditions at the port.

### Results

Switching to LE's Wirelife lubricants has provided positive results for ELFE. The combined use of Wirelife lubricants for the wire ropes on the port's cranes, as well as certain



# Customer Testimonial

improvements in handling the cranes, led to the working life of the wire ropes being extended from a few months to eight to 12 months. In addition, the need for frequent lubrication has been significantly reduced compared to the previous lubricant.

### **Other LE Products Used**

- Almatek® General Purpose Lubricant

*Thank you to ELFE's mechanics for providing the information used in this report.*



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Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.

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