



VASILIOS ZYMARIS



Offshore  
Sacrificial  
Anodes



## QUALITY ASSURANCE

To ensure the production of uniformly high quality products, ZBA is certified to the requirements of ISO 9001 by BV Quality Assurance.

The ZBA Management System covers every stage of the production process-from design, to manufacture, right through to delivery. The key objective of the ZBA management system is to continually improve. This is achieved by reviewing and refining all processes critical to producing high quality products.



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## COMPANY PROFILE

ZBA-Cathodic Protection Services- specialises in the design and manufacture of sacrificial anodes (Zinc, Aluminium Magnesium ) for shipping , offshore, and industrial applications.

The company has one of the largest sacrificial anode foundries in the Mediterranean area.

Our facilities are equipped with 3 Gaz induction furnaces with a total capacity to produce 8 Tons of Zinc and 4 Tons of Aluminium per day.We are also have our own fully equipped tool room where all molds for the casting are made.ZBA has designed,manufactured & supplied in excess of 10.000 Tons of sacrificial Zinc & Aluminium Alloy anodes for various applications in Marine & Offshore Sectors.

## LABORATORY SERVICES

Our own in house quality program and laboratory facilities guarantees top quality products.

To ensure anode purity all raw materials undergo thorough inspection and every alloy batch is spectrographically tested prior to anode casting.Anodes can only be cast if the spectrographic analysis is within specification.On request ZBA can provide certificate of Chemical Analysis.

Customer may also arrange inspections by recognized quality assurance agencies such as BV,DNV,ABS.

## APPLICATIONS

Cathodic protection is an economical and highly effective means of corrosion controlling for a wide range of applications.

The three industries which use our cathodic protection systems are :

- 1.The marine industry- for protecting ships both internally and externally.
- 2.The offshore petrochemical industry.This includes offshore structures,drilling rigs,drill ships,fixed production platforms ,underwater pipelines.

Sacrificial anodes for submarine pipelines is the most interesting application engineering challenge.Pipeline anodes have very specific tolerance fit to the pipe and precise nett weight requirements in order to meet cathodic protection design. The design of the bracelet is often varied to suit the mode of fitting or the type of pipe it is being fitted to.Bracelet anode can also be fully bolted,hinged and bolted,fully weld-on.

Sacrificial anodes for fixed production platforms are generally up to 30 cm in section and up to 300 cm in length of trapezoidal or circular cross section.Inserts are made from steels with a composition computible with welding direct to the structure or via doubler plate.Inserts are now invariably a tube with ends bent to facilitate attachment some 30 cm from the surface to be protected.

- 3.The on-shore petrochemical and pipeline industries.

