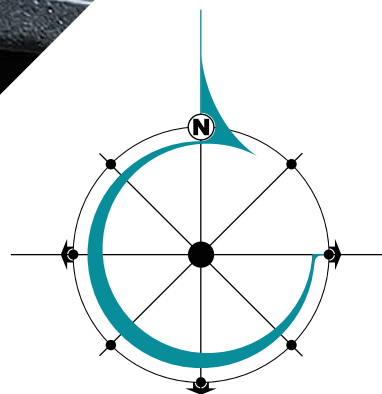




Ned Marine
services B.V.

ISO 9001 and SCC certified company

Cathodic Protection

Anti-fouling anodes

Sacrificial anodes

ICCP systems

Certified quality, engineered and manufactured by Ned Marine Services B.V.

Reliable protection below the waterline



Ensuring hulls remain solid, clean and protected

Ned Marine Services B.V. has over 10 years of experience in providing comprehensive Cathodic Protection (CP) and Marine Growth Prevention Systems (MGPS) for the marine, offshore oil & gas, offshore wind farm and civil industries. Since its inception in 2010, Ned Marine Services B.V. has built a strong reputation for high-quality products and services, with customer satisfaction at the heart of every business decision.

In 2015, the company was split into multiple specialised branches, each focusing exclusively on its respective core products. This allows Ned Marine to deliver even better service and quality through specialisation, while continuing with the same dedication to quality and service as before.

Ned Marine is a proven industry leader in the field of cathodic protection, both for anodes and Impressed Current Cathodic Protection (ICCP) systems. Our solutions are designed to ensure that vessel hulls remain clean, solid and protected against corrosion and marine growth. The product range includes both customised and standard solutions, such as antifouling anodes, sacrificial anodes and ICCP systems.

We understand how vital it is for seagoing vessels, offshore structures and critical maritime equipment to be protected by high-quality, long-lasting anodes. Ned Marine anodes have a lifespan of up to five years and are trusted worldwide. Our in-house design and manufacturing capabilities enable us to supply customised anodes that can be installed anywhere on a ship's hull, regardless of the contours. We offer the full range of anode metals, including zinc, aluminium and magnesium.

Our Cathodic Protection Solutions

Cathodic protection is essential for maintaining the condition, performance and lifespan of vessels and marine structures. Ned Marine offers a comprehensive range of anode solutions, designed to protect ship hulls, offshore structures and maritime equipment from corrosion, electrolysis and unwanted marine growth.

Depending on the vessel type, operating environment and maintenance strategy, Ned Marine supplies both traditional sacrificial anodes and advanced Impressed Current Cathodic Protection systems. In addition, anti-fouling anodes help prevent organisms such as barnacles and algae from attaching to surfaces below the waterline.

All solutions are selected and engineered with one clear purpose: keeping vessels solid, clean and protected.





Sacrificial Anodes

Sacrificial anodes play a crucial role in protecting ships' hulls from corrosion. Attached below the waterline, these anodes are designed to corrode instead of the protected metal. By "sacrificing" themselves, they help maintain the structural integrity and longevity of the vessel.

Ned Marine manufactures sacrificial anodes for all vessel types and supplies a wide range of certified standard types to ship owners and operators around the world. Recognised for their durability and ability to withstand harsh marine environments, these anodes are easy to inspect and replace. They can also be fabricated in specific sizes or shapes to meet individual customer requirements.



Anti-fouling Anodes

Anti-fouling anodes are designed to protect hulls and maritime equipment from unwanted marine organisms below the waterline. By releasing ions into the surrounding water, they help prevent barnacles, algae and other organisms from attaching to the hull or equipment.

This helps reduce drag, improve fuel efficiency and lower maintenance costs. Ned Marine's class-approved anti-fouling anodes are designed in-house and produced according to strict specifications by trusted manufacturing partners. This ensures reliable operation, consistent quality and cost-efficient production.



ICCP Anodes

For vessels and structures that require long-term, active corrosion protection, Ned Marine supplies Impressed Current Cathodic Protection systems. Unlike sacrificial anodes, ICCP systems use an external electrical current to protect the hull or structure from corrosion.

The system automatically regulates the current flow based on real-time measurements, ensuring optimal protection at all times. ICCP systems can offer a service life of up to 20-25 years, with minimal maintenance compared to traditional sacrificial anodes.

A complete ICCP system typically consists of durable anodes, reference electrodes, a rectifier and a control panel. Ned Marine supplies, installs and maintains bespoke ICCP systems tailored to the vessel, application, operational requirements and budget.





There are three main materials used as galvanic anodes:



Aluminium anodes

The chemical composition of aluminium anodes is based in the well established Al-Zn-In and it is suitable for most sea water applications. Their electrochemical capacity is more than 3 times greater than the capacity of zinc and it is nowadays the most widely used alloy for the cathodic protection of ships and other marine metallic structures.

Our pre-casting quality secures the concentration of all important elements (either impurities or alloying elements), even in very low concentrations, in order to strictly conform with the specification.



Magnesium anodes

The magnesium anode generally works well in brackish and fresh water. Magnesium contains a lower transition resistance and is therefore better suited in fresh and brackish water than zinc anodes.



Zinc anodes

The Zinc alloy type is the well-established formulation based on US MIL - A - 18001K specification. It is suitable for general seawater applications. Its low electrochemical capacity makes it suitable for coated structures where the current demand is significantly reduced.

Our Markets

Ned Marine has established an excellent reputation in supplying and maintaining cathodic protection solutions for a wide range of maritime, offshore and industrial markets. We work for various types of vessels, offshore structures and marine constructions, from workboats, cruise ships and port facilities to container ships, autocarriers, PSVs, OSVs, FPSOs and vessels serving the offshore energy sectors.

Our markets include:

- Offshore oil & gas
- Offshore wind
- Process industry & energy
- Shipping
- Inland navigation & river cruise
- Shipbuilding & ship repair
- Cruise vessels
- Superyachts & leisure yachts
- Dredging & marine construction
- Civil engineering & infrastructure
- Defence & security
- Fishing

Our Services

Ned Marine provides certified, high-quality cathodic protection solutions for maritime, offshore and industrial applications. With in-house design, manufacturing and global service capabilities, we support every project with practical expertise, reliable products and tailored advice.

Our services include:

- Anode calculations
- Anode arrangement drawings
- Anode inspections
- Anode delivery
- Tailor-made anode solutions
- Maintenance support
- Advice on cathodic protection systems

All Ned Marine cathodic protection anodes comply with the recommended practice of DNV-RP-B401 for cathodic protection design.

Anode calculation

Corrosion protection is obtained by proper anode distribution and location. Therefore, on request, we can provide anode calculations and preparation of anode arrangement drawings.



About Ned Marine Services B.V.

Ned Marine Services B.V. is an international leader in all kind of ship and off shore related inspections, 24/7, all over the world.

Types of inspection: Ultrasonic Thickness Measurements (UTM), Hatch Tightness Testing, New Building Inspections, Superintendency, Coating Inspections, Pre Conditional Survey (pre vetting inspection), Hull Condition Monitoring, Marine Consultancy, NDT Inspections, Cathodic Protection, Gangways, Bulwark ladders, ICCP Systems and MGPS Systems.

We have over 20 years of experience and are approved by all major classification societies and by ISO 9001-2015 and SCC 2017/6.0

ISO 9001 and SCC certified company



Anode Solutions by Ned Marine

Want to know more?

Please contact us.



Ned Marine Services BV



Wolweverstraat 43

2984 CE Ridderkerk

The Netherlands



+31180420055



sales@nedmarine.com



www.nedmarine.com

Ned Marine Services B.V.

Ned Ship Ned Technical Ned NDT
www.nedmarine.com