Clad welding technology by Everllence

Propeller
& aft ship
solutions

Alpha Clad Welding



Everllence is by your side with complete systems for reliable and efficient propulsion. Our Alpha Clad Welding solution offers exceptional protection of water-lubricated propeller tail shafts, minimizing corrosion risks for greater uptime and lower maintenance costs.

Benefits at a glance

- More robust than epoxy shaft coating
- Lasts the lifetime of your vessel
- Can be refurbished if damaged
- Approved by major classification societies

Everllence

Exceptional protection of your propeller shaft

A reliable process with proven results

Alpha Clad Welding is the best solution for protecting your water-lubricated propeller tail shaft system from corrosion.

This is a thoroughly tested, proven process that adds a metal layer to the surface of the shaft. This extra layer has minimal effect on the shaft diameter required by the classification societies and lasts for the lifetime of the vessel (unlike epoxy alternatives).

If for any reason the shaft becomes damaged, it can be refurbished by welding a new layer of metal on top.

The Everllence clad welding procedure is approved by major classification societies.

Choosing the right material for your vessel

It's important to choose the right cladding material for your specific vessel. Our experts are ready to guide you through the process.

To do this, we help you assess factors such as water temperature, salinity, the presence of abrasive particles or pollutants, or stagnant water that your cladding will be exposed to.

Getting this right makes a significant difference to reliable long-term performance and minimizes corrosion risks.

Together, we'll make sure you get the best possible solution to balance environmental exposure, maintenance requirements, and lifecycle cost.

As standard, we offer two cladding material solutions.





Clad welded shaft from Royal Danish Navy frigates

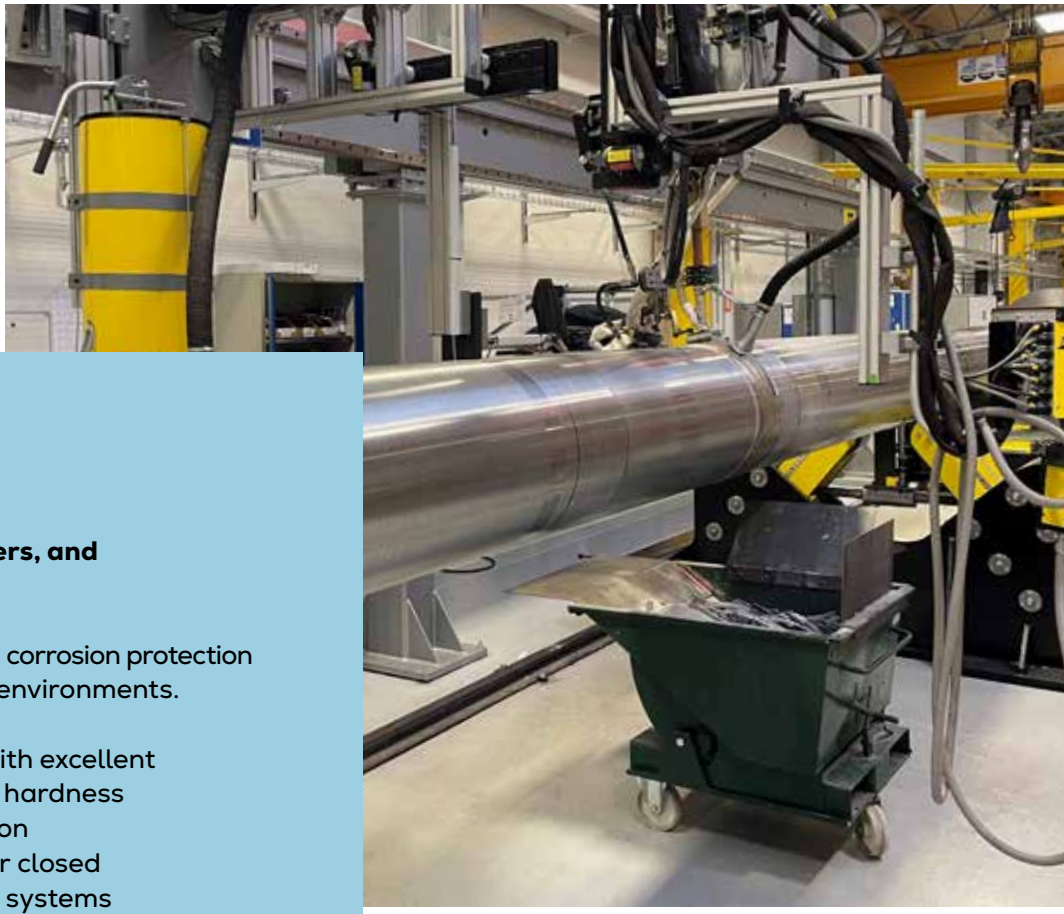
ACW NiCrMo-3

For warmer climates, longer docking times, and sediment-rich water

ACW NiCrMo-3 gives you the greatest possible protection for your shaft.

- Nickel-based alloy for exceptional strength and hardness
- Stable properties across a wide temperature range
- Very resistant to pitting and crevice corrosion in seawater

Submerged Arc Welding (SAW) of a frigate propeller tail shaft



ACW G259NL

For cleaner, cooler waters, and more frequent use

ACW G259NL offers high corrosion protection even in harsh seawater environments.

- Stainless steel alloy with excellent strength and superior hardness
- A cost-effective solution
- Also highly suitable for closed freshwater circulation systems

Everllence

Everllence
9900 Frederikshavn
Denmark
P + 45 9620 4100
info-frh@everllence.com
www.everllence.com

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