

Wärtsilä Metallurgical propeller repair services



Marine propellers are designed and manufactured to ensure the highest possible levels of performance and efficiency. However, even minor damage can reduce propeller efficiency and increase the fuel consumption of your propulsion train. For less than the cost of a replacement, a Wärtsilä Metallurgical propeller repair can give new life to your vessel's propellers – even in cases of serious damage – and improve propulsive efficiency by up to 5%.

FAST-RESPONSE REPAIRS WHEREVER YOU NEED US

Wärtsilä propeller repair services are located near major marine hubs, but our skilled teams can serve you wherever you are located. We can repair or modify any size of propeller to ensure the highest performance. The work can be performed in a Wärtsilä workshop, on site, or even submerged through our underwater services.

We can carry out metallurgical repairs virtually anywhere in the world using 20-foot intermodal containers that can be quickly and easily transported to the required location. These containers are fully equipped with specialised propeller repair tools and consumables. The advantages of this approach include:

- Reduced working time and minimum yard dependency
- Lower transportation costs for tools and equipment
- Fast response, with initial contact within 24 hours

KEY BENEFITS

- Save money – repairing a propeller costs 60–70% less than a full replacement
- Improve your vessel's propulsive efficiency by up to 5%
- Benefit from a quick return on investment, typically between one to three months



HIGH-QUALITY REPAIRS PERFORMED BY EXPERT TECHNICIANS

All propeller repairs carried out by Wärtsilä are subject to our full inspection procedure, including customer and class reporting. The repair process includes full heat treatment, dimensional checks and balancing.

Our teams of highly skilled service and repair personnel are fully equipped with their own generators and consumables. They can undertake emergency repairs – such as on disabled vessels afloat or in dry dock – at your location and with short notice.



If minor damage is not repaired it can quickly develop into larger deformations that reduce fuel efficiency.

SCOPE OF SUPPLY

We offer metallurgical propeller blade repairs for Wärtsilä and non-Wärtsilä installations. The standard scope includes:

- Blade polishing
- Straightening of propeller blades according to classification standards
- Blade tip renewal
- Replacement of missing tips
- Propeller modification such as trailing edge modifications
- Blue fitting
- Balancing
- Underwater blade repair and polishing
- Inspection reports with optional 3D measurement and scanning services

If needed, Wärtsilä can undertake a hydrodynamic design study to determine what kind of efficiency improvements are possible for the propeller in question.

WÄRTSILÄ WORKSHOPS CAPABLE OF METALLURGICAL REPAIRS



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