



# WÄRTSILÄ METALLURGICAL PROPELLER REPAIR SERVICES – GIVE YOUR VESSEL’S PROPELLERS A NEW LEASE OF LIFE

Marine propellers are designed and manufactured to ensure the highest possible levels of performance and efficiency. However, if not repaired, even minor damage can quickly develop into larger deformations that reduce propeller efficiency and increase the fuel consumption of your propulsion train. For less than the cost of a replacement, a Wärtsilä metallurgical repair can give your vessel’s propellers a new lease of life – even in cases of serious damage – and improve propulsive efficiency by up to 5%.

## **Saving time, saving money**

We recognise, as do our customers, that time is money. Therefore we operate 24 hours a day, 365 days a year, providing a fully comprehensive global repair service.

## **Fast-response repairs wherever you need us**

Wärtsilä Specialist Propulsion Services offers a comprehensive propeller repair service at our facility in Scotland or, when necessary, on-site at any location around the world. If your vessel is in dry dock we can perform a free propeller inspection and provide a report detailing potential corrective actions.

While we specialise in the emergency repair of propeller blades, we also offer repair and service of controllable pitch propeller hubs and related equipment as well as monoblocks, thrusters, impellers and waterjets. We are a leading supplier of replacement propeller blades, couplings and hub components.

We can repair or modify any size of propeller to ensure the highest performance. Our approach reduces working time and minimises yard dependency, and we can respond within 24 hours of the initial contact.

## **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



### Specialised repairs by the specialists

All propeller repairs are carried out subject to our full inspection procedure, together with customer and class reporting, prior to the repair proceeding. Full heat treatment, dimensional checks and balancing are carried out as part of the repair process.

Our team of highly skilled service and repair personnel are available 365 days a year and can travel at short notice to perform emergency repairs on disabled vessels either afloat or in dry dock, and carry their own generators and consumables. Our engineers and specialist welding technicians are certified across a wide range of materials and classification societies, with experience in handling everything from stainless steel and nickel aluminium bronze to manganese bronze and duplex steel.

### Replacement propeller supply

We are a leading supplier of replacement propellers, in particular CPP blades from other OEMs. In most cases we can offer cost reductions of up to 40% compared to OEM prices with lead times as short as six to eight weeks.



Waterjet servicing and repairs

### Scope of supply

We offer metallurgical propeller blade repairs for Wärtsilä and non-Wärtsilä installations. If needed, we can undertake a hydrodynamic design study to determine what kind of efficiency improvements are possible for the propeller in question. 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

Wartsila Specialist Propulsion  
Services Glasgow  
Tel: + 44 141 812 2888 (24 hr)  
Email: propulsion.glasgow@wartsila.com

© 2022 Wärtsilä Corporation – All rights reserved.

No part of this publication may be reproduced or copied in any form or by any means (electronic, mechanical, graphic, photocopying, recording, taping or other information retrieval systems) without the prior written permission of the copyright holder. Neither Wärtsilä Finland Oy, nor any other Wärtsilä Group Company, makes any representation or warranty (express or implied) in this publication and neither Wärtsilä Finland Oy, nor any other Wärtsilä Group Company, assumes any responsibility for the correctness, errors or omissions of information contained herein. Information in this publication is subject to change without notice. No liability, whether direct, indirect, special, incidental or consequential, is assumed with respect to the information contained herein. This publication is intended for information purposes only.