

Controllable Pitch propeller optimization

MAN PrimeServ

Upgrade your CP propeller with the latest technology and hydrodynamic know-how.

A CP propeller optimization provides a great fuel-saving, allowing your vessel to meet stricter emission levels, CII requirements and potentially improve your energy class, while optimizing your operational economy, providing a short return on investment.

Based on your current operating profile and possible EEXI OPL (Overridable Power Limitation) MAN Energy Solutions will support you, uncovering the potential of optimizing your current propeller configuration.

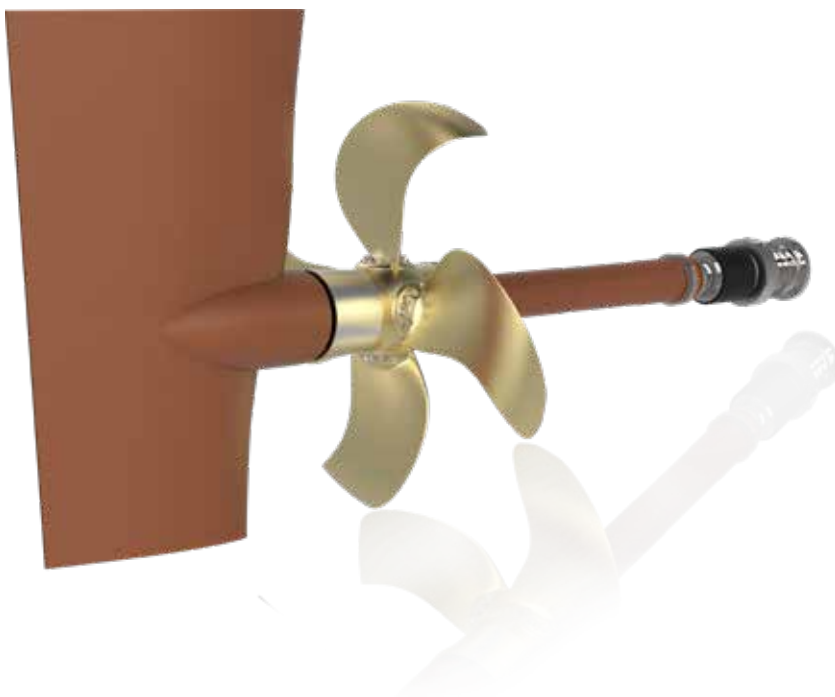
Leveraging state-of-the-art CFD (Computational Fluid Dynamics) analysis, design, and optimization tools, MAN ES can provide an controllable pitch propeller optimization solution for your existing fleet.

A perfect hydrodynamic propeller integration is always optimized with the ship's hull and any flow-guiding and efficiency improving devices, such as high-efficiency rudders and rudder bulbs.

Our solution is tailor-made for your specific vessel and includes an optimized propeller blade design combined with other MAN ES efficiency improving devices such as EcoBulb rudder bulb, fairing cone solutions and new combinator mode software.

Get more information

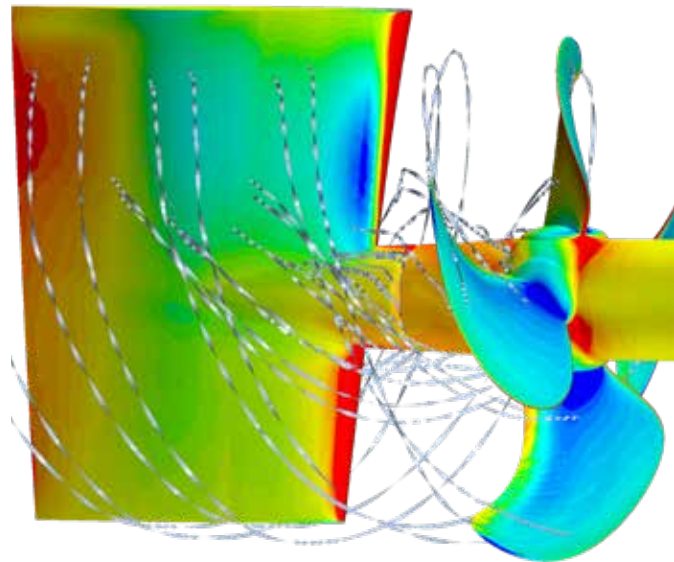
Learn more about our products and how our upgrade solutions can improve your propulsion performance. Do not hesitate to contact your local MAN PrimeServ office to receive more information on possible upgrades.



CP propeller optimization

System solution upgrade

Exploit our knowledge on engine and propulsion system characteristics and gain more with combinator curve and aft ship optimization.



Typical scope of supply

For propeller hub:

- Optimized controllable pitch propeller blades
- Slide and sealing rings
- Corrosion anode, if required

For propulsion control system:

- Review and optimization of existing combinator mode software

For rudder system:

- Steel EcoBulb, including all parts, for installation to existing rudder profile
- Stainless steel fairing cone for attachment to propeller hub

Classification:

- Including class approval of propeller blades and EcoBulb

Applicability

- Available for MAN Alpha controllable pitch propeller configurations

Key benefits

- Increased propulsion efficiency
- Reduced power requirement, fuel consumption and emissions
- Scrap value of existing propeller blades can be included in the business case
- Short installation time of propeller blades and EcoBulb – normally less than one week
- Installation can be carried out in connection with normal overhaul and propeller maintenance / PMC
- Optimization supporting your Carbon Intensity Indicator (CII) targets
- Short return on investment

Reference list

- More than 100 vessels has optimized their MAN Alpha controllable pitch propeller configurations with new and improved aft ship solutions

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