MAN Alpha – FPP Propulsion Upgrade
Fuel-savings through optimised design

Consider a Fixed Pitch Propeller retrofit solution and gain up to 14%. Always relevant in case of: Changed operational profile of your ship? Old design – or any damage to your propeller?

A Fixed Pitch Propeller concept offers new opportunities
The PrimeServ organisation of MAN Diesel & Turbo has introduced a new retrofit concept based on the MAN Alpha Fixed Pitch Propeller programme – ranging from 3 MW and upwards. Retrofit solutions with state-of-the-art MAN Alpha propellers offer optimised propulsion efficiency, suppressed propeller noise and the robust reliability inherent with product designs from the MAN group. The retrofit concept and upgrade solutions are offered for all propeller makes.

The retrofit Fixed Pitch Propellers are characterised by numerous benefits:
- Fuel savings and short payback time
- High-efficient hydrodynamic optimised blade profiles – Kappel designs available
- High reliability: A robust approach – with ample mechanical design margins
- High-efficient aft ship integration options with rudder, rudder bulb, ducts etc.
- Tailored solutions for direct-coupled two-stroke plants or geared four-stroke plants
- Torsional vibration behaviour of plants may be considered up front
- Propeller design and plant calculations are performed with advanced CFD tools.
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Example of efficiency gain when upgrading to new propeller design

More targets and reasons for upgrading and retrofitting propellers:
- Fuel savings
- Emission reduction
- Speed optimisation
- Slow steaming
- Bollard pull improvement
- Vibration and noise reduction
- Changed operational profile of ship
- Propeller damage
- Change of Ice Class.

The retrofit MAN Alpha Fixed Pitch Propellers are based on:
- Outputs from 3 MW and above
- 3, 4, 5, and 6-bladed configurations.

For further FPP Retrofit information please contact MAN PrimeServ Frederikshavn, Denmark.