

CP propeller upgrade + propeller nozzle

MAN PrimeServ

For optimizing the propeller thrust and pulling performance of specialized vessels, customized Alpha High Thrust (AHT) nozzle designs are offered.

The AHT nozzle designs offer superior performance compared to the '19A' propeller nozzles, which have been common standard in the marine industry. The increased bollard pull achieved when using the AHT nozzle is not only a result of the CFD-optimized nozzle profile, which is double-curved on both the inner and outer surface. Other contributing factors are e.g., nozzle length/diameter optimization, nozzle built-in support, and aft ship lines adaption.

High-thrust and speed customized AHT nozzle installations are popular for vessels requiring increased pulling power and still limited free-sailing resistance.

Our range of ducted propellers and AHT nozzles are the thrust boosters for high performance vessels enabling bollard pull and towing force at very high levels. The propeller blades are specifically designed and tailor-made for optimized operation with the AHT nozzles – customized into the aft ship vessel designs.



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Key benefits

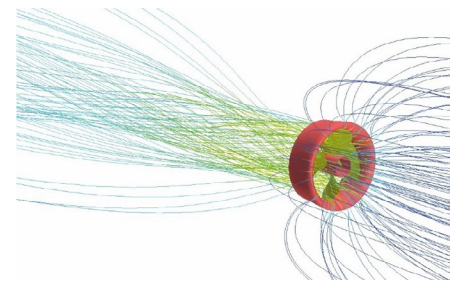
- More pulling power thanks to the increased propeller thrust - especially at lower ship speeds
- Reduced fuel consumption - A specific bollard pull or towing force can be delivered at a reduced power output and engine rating
- Individual customization, balanced to application and aft ship design
- Retrofit potential gain exceeding 20% increased bollard pull when upgrading older nozzles to the AHT design, combined with state-of-the-art MAN Alpha propeller blades

Scope of supply

- AHT nozzle
- State-of-the-art MAN Alpha propeller blades optimized for the actual vessel operational profile
- All relevant propeller sealing and slide rings

Applicability

Applicable for MAN Alpha controllable pitch propellers operating in nozzle



Retrofit & Upgrades

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More information

Would you like to know more about the product, and how our upgrade solutions can improve your propulsion configuration? Then do not hesitate to contact your local MAN PrimeServ office to receive more information about the upgrade!

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