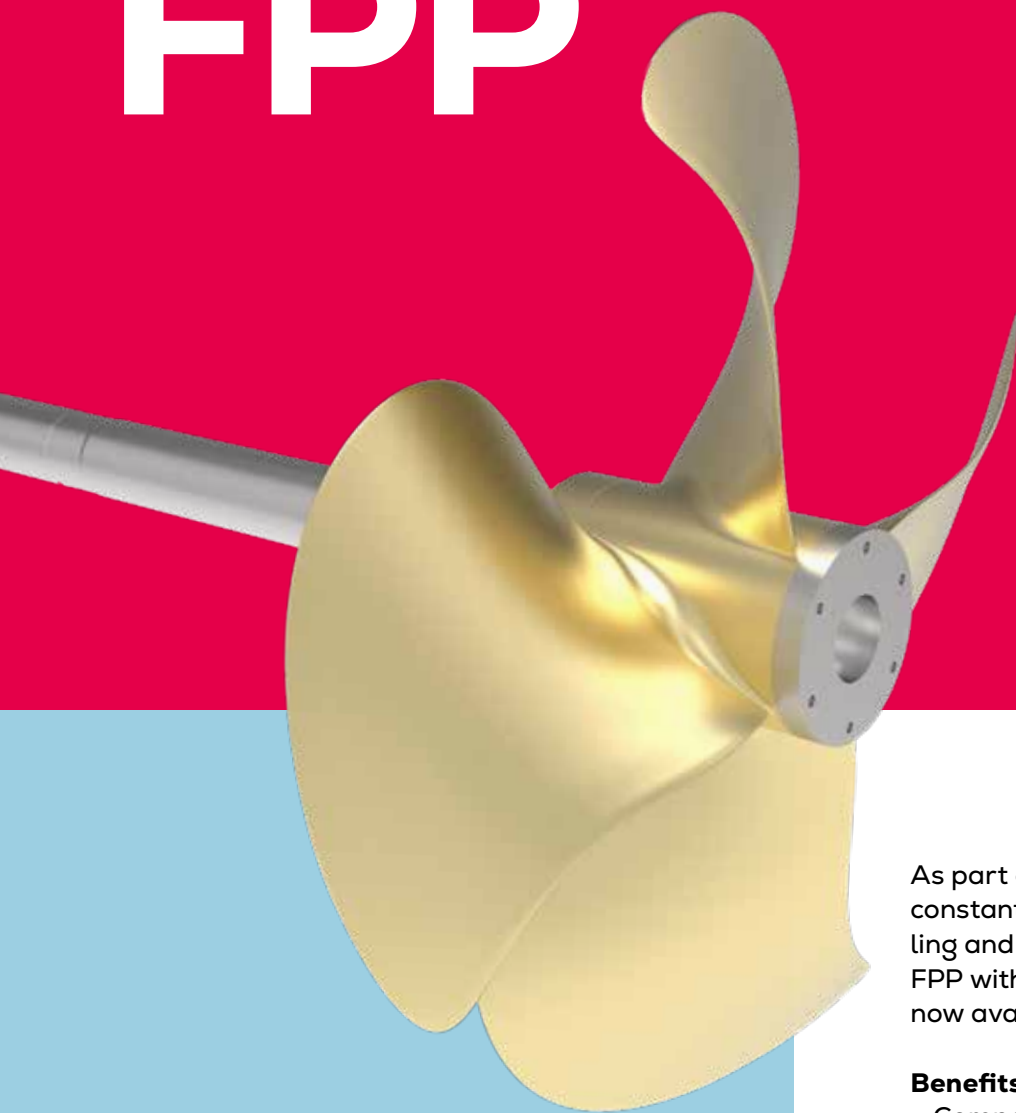


# Alpha FPP



As part of our continuous development and constant strive for improving designs, handling and performance – a next generation FPP with flanged hub/ shaft connection is now available.

**Benefits at a glance**

- Compact and easy to handle
- Sturdy and simple alternative to the traditional propeller hub and shaft taper fitting
- Critical and time-consuming shipyard processes with repeated grinding and blue-fitting actions are avoided

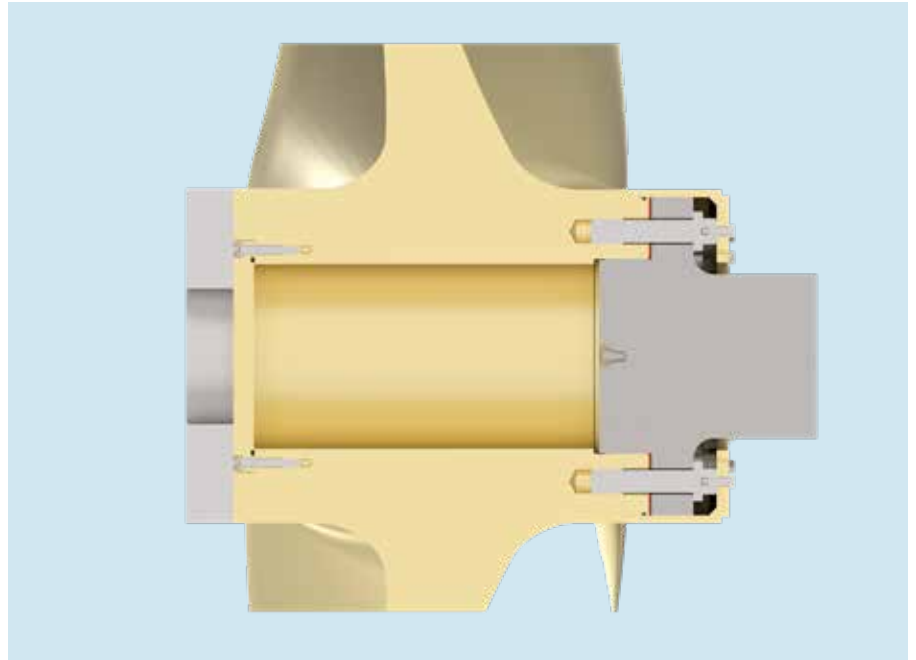
# Alpha FPP

Fixed Pitch Propeller with flanged hub/shaft connection

## Economy and efficiency

Traditionally, conical mounted propellers have had smaller hub diameters than flanged and bolted propellers – leading to more economical and efficient hubs. However, by using custom-made high friction discs for the flanged design, the diameter can now be reduced for even better economy and efficiency.

Blue-fitting and mounting of a conical propeller can take anything from a few days to several weeks, depending on the size of the propeller and the initial fit. A bolt-on solution eliminates this uncertainty for shipyards' docking plans and quotation coverage.



## General benefits of flanged FPP propellers

### In short – simplicity by design

A straightforward design of propeller hub and propeller shaft, without conical elements requiring more critical machining. The hub length of a flanged fixed propeller only depends on the propeller blade design, since it is not an integral part of the strength in the hub-shaft connection. The shortened built-in dimensions allow for a propeller and aft ship design where the propeller is placed closely to the rudder.

### Reliable and proven principle

The assembling and disassembling actions by means of bolts for hydraulic tensioning secure a junction, which remains robust and reliable after many dockings. The bolted principle and the easy tensioning procedure are proven by many other demanding assemblings for e.g. large CP Propeller hubs and shaft/shaft connections.

### Less risk – easy handling

- No need for removing the rudder for propeller dismantling
- Time-saving connection and disconnection of the propeller and shaft
- Easy and safe propeller and shaft handling for shipyard engineers and fitters
- No complex and time-consuming grinding and blue-fitting procedures
- No shaft pull-up diagrams and no pull-up measures to reach
- No vulnerable shaft thread and propeller nut to protect and handle
- Fitting of a simple end cover instead of a propeller nut cap
- No special tools needed
- Fast and flexible solutions

### Efficiency improving options

Propeller hubs can be fitted with EcoCap (hub cap fins) – alternatively with fairing cone for EcoBulb (rudder bulb) installations.

### Tough to tackle: Skills, time, money



Time-consuming fitting processes requiring skilled specialist personnel and special tools – are now history with the flanged shaft/hub connection.

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