Our state-of-the-art propulsion control system: The Alphatronic 3000 controls both MAN Alpha Controllable Pitch and Fixed Pitch Propeller packages – for geared MAN 175D engines.

Benefits at a glance

- Safe and reliable ship manoeuvres
- Optimal load and speed control
- Reduced fuel consumption
- Logical touch screen and user interfaces
- Easy installation of modularized components
A relatively simple system architecture is shown for a straightforward twin MAN 175D FPP plant. However, a vast number of various FPP and CPP propulsion package applications can be controlled by the Alphatronic 3000 system – customized e.g. for combinations of MAN medium- and high speed engines in a wide range of diesel-mechanical, hybrid or diesel-electric propulsion setups.

**High speed package control**

The new MAN 175D based propulsion packages are characterized by all core elements – such as main propulsion engines, reduction gearboxes, shaft lines, stern tubes, propellers and propulsion control systems – being designed, matched and optimized for integration into tailored solutions. Alphatronic 3000 is ‘type approved’ and the overall key for propulsion control.

**Alphatronic at your finger tips**

Safe and accurate propulsion control all the way – from the navigator’s finger tips to the propeller tips. Any manoeuvring order given is translated into electrical speed setting-, pitch- or clutch signals, governing the hydraulic servo circuits of the gearbox and propeller system. Swift and reliable vessel manoeuvres are ensured due to quick and stable system response.

**Fuel and emission savings**

- Economic operation due to optimized engine load and thrust control
- An optional speed pilot feature with interface to GPS can be deployed for various sailing modes (economy/speed/silence).

**Panel design functionality**

- Modular concept to fit any ship’s console layout. Easy installation in compact consoles with limited space and free depth
- Configurable touch screens (and optional large 2nd displays) to meet a wide range of customer-specified functions
- Alarm and monitoring functionality
- ‘Electrical shaft system’ between control levers ensures synchronization and safe transfer of manoeuvre responsibility from one control station to another
- Bumpless mode change from ‘FPP trolling’ to ahead/astern speed increase
- Automatic thrust and engine power synchronization for twin propeller plants
- Control panel functionality is pre-tested for shipyards’ plug-and-play installation.

**Alphatronic 3000**

**MAN Energy Solutions**

9900 Frederikshavn
Denmark
P + 45 9620 4100
F + 45 9620 4030
info-frh@man-es.com
www.manalpha.com
www.175D.man.eu
www.man-es.com

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