

Container ship shaft generator





Overview

How does a shaft generator work on a ship?

Shaft generators on board ships are driven by the main engine to supply power to the mains. The mains have to be supplied with constant voltage and frequency by the shaft generator whilst the speed of the main engine changes, i.e. when the vessel travels at different speeds or if the propeller speed strongly varies in heavy seas.

Why do shipbuilders use shaft generators as power take-off systems?

Shipbuilders are now integrating shaft generators into their newbuilds as Power Take-Off (PTO) systems to achieve considerable savings on energy and meet the necessary fuel/energy regulations. To ensure fuel sustainability and efficacy, some new vessels have incorporated hybrid propulsion systems into their vessels.

Should you install a shaft generator on a vessel?

There are several benefits of installing a shaft generator on board a vessel. The shaft generator enables production of electric power by the ME that has a low specific fuel consumption. In addition, the lower number of running hours of the gensets reduces maintenance and expenses for spare parts.

What is a shaft generator?

The shaft generator enables production of electric power by the ME that has a low specific fuel consumption. In addition, the lower number of running hours of the gensets reduces maintenance and expenses for spare parts. In the early 2000s, shaft generators were most prevalent among larger container vessels.



Container ship shaft generator



Optimum arrangement of the propulsion shafting system for a ship

In recently ships are being equipped with shaft generators to comply with stricter marine environmental regulations and reduce fuel consumption. Shaft generators utilize the ...

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