



END CUSTOMER

Hellenic (Greek) Navy

BACKGROUND

Dellner Brakes has delivered complete brake systems for three different types of vessels for the Hellenic Navy:

- Tank landing vessels (TLVs – Chios, Samos, Lesvos, Ikaria and Rodos)
- Offshore patrol vessels (OPVs – Pyropolitis and Polemistis)
- Gun boats (GBs – Machitis, Nikiforos, Aittitos, Krateos)

The TLVs were designed by Elefsina Shipyards to transport 17 amphibious vehicles, 15 trucks, a helicopter and 245 troops.

The OPVs and the GBs were designed by Hellenic Shipyards to serve a variety of purposes such as surveillance of territorial waters, search and rescue operations, transport of small rapid strike forces, anti aircraft defence and mine laying etc.

APPLICATION

Each of the 11 vessels is powered by two Wärtsilä 16V25 main diesel engines which provide a total propulsion power of 7,360 kW (10,000 bhp).

Each propeller shaft is equipped with a shaft brake system consisting of two Dellner SKD 4x100 hydraulic disc brakes working on $\varnothing 1,100$ mm (43.3 in) or 950 mm (37.4 in) brake discs. The brakes are pressurised with a pneumatic-hydraulic pressure intensifier.

Brake torque generated is approximately 200 kNm (1,770,000 lbf-in), depending on disc size and the applied pneumatic pressure. The brakes have two functions: to quickly stop the propeller to change the direction of rotation and to hold the propeller shafts in place during maintenance.