JetBrief No. 315 August 1999
Service: Patrol Craft
Location: Greece

Hamilton Jet Model HM422
Application Review

High Speed Jet Power for Hellenic Coast Guard Patrol Craft

A fleet of 16 new high speed patrol craft for the Greek Coast Guard will all be powered by Hamilton waterjet propulsion systems. Each of the 17.4 metre craft will have twin Model HM422 jets directly driven by MTU V12 diesel engines.

The thrust generated by this propulsion system is sufficient to push the GRP monohedron hulls to a top speed of 48 knots at operational displacement.

Thrust vectoring control is by single station manual hydraulic steering and Hamilton Jet HYRC power assisted "follow-up" ahead/astern control. The HYRC system gives, without complex electronic manoeuvring controls, independent control of the jet's steering and ahead/astern functions for 360° thrusting ability, regardless of boat speed or direction. Infinitely variable speed ahead or astern, sideways motion and "on-the-spot" rotation are all possible.

This outstanding manoeuvrability, added to the shallow draft capability, rapid acceleration and high speed capability will make the craft an effective tool for Coast Guard functions.

The craft are designed and built by Athens based Motomarine S.A. with on-going support for the propulsion systems provided by Hamilton Jet's authorised Distributor, Motocraft S.A.

Brief Specifications

SERVICE:
High Speed Patrol Craft
TYPE:
Lambro 57 PB
LENGTH:
17.40 metres [LOA]
BEAM:
4.65 metres
DRAUGHT:
0.9 metres [static]
CONSTRUCTION:
G.R.P.
DISPLACEMENT:
24 tonnes (design)
SPEED:
48 knots (GPS verified)
WATERJETS:
Twin Hamilton Jet Model HM422
WATERJET CONTROLS:
Hamilton Jet type HYRC
ENGINES:
Twin MTU V12 diesels, Model 12V 2000 M90, each 993kW (1330hp) @ 2300rpm
DESIGNER/BUILDER:
Motomarine S.A.
Athens, Greece
OPERATOR:
Coast Guard (Limeniko Soma) of the Ministry of Merchantile Marine of Greece
Hamilton Jet DISTRIBUTOR:
Motocraft S.A.
Athens, Greece

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