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C-SHARP[®]: an innovative hull for KERSHIP patrol vessels



KERSHIP proceeds with its expansion and strengthens its patrol vessels range with an innovative hull concept: C-SHARP[®] (Combined-Speeds Hull with All-Round Performances).

Based on their long established know-how regarding high speed ships, PIRIOU, KERSHIP and the LHEEA research laboratory (research in Hydrodynamics, Energetics and Atmospheric Environment, Ecole Centrale de Nantes) joined forces to change the high speed ships design philosophy.

These highly versatile multipurpose vessels are designed to be deployed alternately for:

- slow patrol missions, that represent 90% of their operation programme and require extended autonomy,
- operations at very slow speed including deploying divers, handling equipment such as RHIBs or UAVs,
- and fast intervention missions: fast deployment on operation areas, interception missions,

whatever the weather conditions, extremely changeable and often unreliable.

To meet the challenge of maximal operability, the C-SHARP[®] hull was developed to optimize global hydrodynamic performances of the vessel over a large range of speeds and operational conditions.



For such a purpose it features:

- a hydrodynamic fore bow with high lift-off capacity
- an advanced hydrodynamic stern

These devices can be installed separately or in combination.

The C-SHARP® hull has proved unequalled global performances:

- Autonomy increased by 10 to 30 % thanks to significantly reduced resistance, especially at patrol speed
- Excellent seakeeping behaviour with 10 to 20 % gain in accelerations
- Unequalled capacity to safely operate on-board equipment with approximately 20% reduction of wake and aft peak vertical accelerations as well as reduced relative movements between the ship and launched equipment;
- Outstanding performances at higher speed, even on rough seas.

The C-SHARP® concept is currently being deployed on KERSHIP vessels range and especially on coastal patrol vessels (CPV 25 and CPV 32) as well as high sea patrol vessels (OPV 45, OPV 52 and OPV 58).

It is also perfectly adapted to modernization requirements on existing vessels (stern).

Leader for vessels dedicated to Law Enforcement at Sea, KERSHIP will be attending the Euronaval exhibition in Le Bourget from the 17th to the 21st of October in order to show its range and programmes under construction (Stand D15).

About KERSHIP

KERSHIP is a joint venture created in 2013 by PIRIOU and DCNS, two experts in naval engineering and building, military systems and services.

KERSHIP provides vessels up to 95 m dedicated to Law Enforcement at sea for navies, coast-guards, customs, scientific institutions...

Thanks to the expertise of its parent companies, KERSHIP assists administrations and military marines all along their vessels' life-cycle, from building to delivery as well as after sales and In-Service support.

KERSHIP takes part in several major programmes for the French government and has become the first supplier of the French Navy for vessels dedicated to Law Enforcement at Sea.

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