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Guard Patrol Boats

## 海巡艦艇介紹專欄 8 500 **吨俱級反巡防庁**船 Featurded Introductory Column VIII-Coast Guard patrol vesselsthe 500-ton Frigate

我國係屬海洋島國,對外除了仰賴國防 力量防禦疆土外,對於維護海域主權 及治安能量之建立,更是不惶多讓,因此, 爲利於巡弋釣魚台、東沙及南沙等主權海 域,本署海洋巡防總局響應「國艦國造 | 政 策,於民國 88 年採用經海軍測試驗證良好 之現役500噸「錦江級艦」設計,由聯合船 舶設計中心配合本署任務需求進行改良而 成,於同年11月由得標廠商中信造船廠開 工程承造, 並於90年3月20日完工交船, 命名為「台北艦」(CG116),加入我國中長 程海域巡防工作,自服勤以來,績效卓著; 有鑑於此,更於94年度再次由中信造船股 份有限公司得標建造另一艘同型姊妹船艦, 命名為「南投艦」(CG122), 甫於94年4 月29日由行政院謝院長賢伉儷親自主持「下 水」及「擲瓶」典禮儀式。

「台北艦」(CG116)艦身長61.41公尺, 模寬9.5公尺,船高5.1公尺,設計吃水2.8 公尺,滿載排水量680噸,載重量約140公 噸;巡防艦動力來自兩部德國MTU製柴油 引擎,每部出力7804馬力,雙軸推進器五 葉螺槳,最高航行速率達30節,經濟航速 12節,續航航程達4,600百浬,乘員配置為 40人。本型船體建造與檢驗,包括船體、 輪機、電機、艤裝及安全設備等均符合中國

s a seafaring country, Taiwan not only relies on its defense dynamic to secure its territories, but there is also a compelling need for securing its maritime sovereignty claim and security enforcement dynamics. With that, to enforce patrolling the territorial seas around the Ishigaki Island, Dong Sha and Nan Sha areas, the Maritime Patrol Directorate General Office, responding to the locally built state vessel policy, has in 1999 commissioned a vessel be built by mirroring the 500-T Chin Jiang class frigate, which is currently in service and proven effective through the Navy's testing validation, followed by shipbuilding that begun in November of the same year with the contract awarded to the bidder Chung Hsin Shipbuilder, and the vessel has since March 20, 2001 been completed and delivered, and formally named as [Tiapei] (CG-116), joining Taiwan's mid and long-range sea patrol duties and earning a fine reputation with excellent performance. With the prior records, the administration has once in 2005 commissioned Chung Hsin Shipbuilder to build an identical sister ship, which has been named Nantou (CG-122) that has just been inaugurated in a champagne christening ceremony presided by premier Hsieh and wife on April 29, 2005.

The<sup>¬</sup>Taipei J (CG-116) measures 61.41M in length, 9.5M in width, 5.1M in height, with a 2.8M draught, and 680T displacement at full load, carrying approx. 140T. The frigate is powered by two German MTU diesel engines, with each rated at 7,804HP, with duo five-blade propeller, sailing at a top speed of 30 knots, or economic cycle of 12 knots, and a continuous sailing capability of 4,600 nautical miles, and boards 40. The building and inspection of the ship model, including that of the ship hull, engine, electrical, instrumentation, safety equipment and so forth, are fully compliant to demands and guidelines set by Chinese Ship Rating Center (CR) and Norway Ship Rating Association (DNV), with a vessel grade rated to the class of CR100 + "PATROL VESSEL", CMS+DNV+1A1, HSLC, RO, PATROL. Onboard the ship are more than the modernized satellite navigation system and communication system, and the weaponry equipment include two 20mm machine guns, two .50

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五百噸級巡防艦配置之自動扶正救難快艇。 The 500-T frigate is fitted with self-righting rescue speedboat

● 台北艦泊港。 The SS Taipei mooring at port

驗船中心(CR)及挪威驗船協會(DNV)之要求 與規定,而其船級之級位為CR100+"PATROL VESSEL",CMS+DNV+1A1,HSLC,RO, PATROL。船上除具備現代化衛星導航、通訊系 統外,武器配備包括有國軍聯勤司令部所生產之 20公釐機砲2座、50機槍2挺及國造65式步槍 等。本艦於主機艙左右舷各裝置一部不可伸縮穩 定翼,當船速到達25節時,穩定翼控制系統會依 船舶橫搖量,控制穩定翼之角度產生抗橫搖力 距,使船艦穩定度達80%,具有高速、靈活、舒 適、耐航、安全等特性。

爲保障遠洋航行安全,在安全性上特別著 重,40人的編制,配備了2艘20人座的救生筏; 此外,爲達海上聯合查緝作爲,艦上還搭載了兩 艘漆成全紅色的高速警備救難艇,這種可自動扶 正的專業救難艇是我國第一次擁有這樣的裝備, 本級艇船殼爲強化纖維樹脂,長8公尺,寬2.6 公尺,深1公尺,最大吃水0.8公尺,滿載排水 量3.5公噸;主機爲一部VOLVO PENTA YAMD 41型柴油引擎,出力200匹馬力,航速20節,巡 航速率20節,航程200海里,乘員6人,可與母 船展開同步20節之快速航行聯合查緝作業,符合 國際海事組織(IMO)及挪威驗船協會(DNV) 規範。2艘自動扶正警備救難艇,在惡劣的海象 下,擁有翻覆時自動翻正艇身的功能,無論救 人、自救均能在最短時閒內發揮最大的功能。

「南投艦」(CG122),各項諸元與「台北艦」 相同,並依近年海域執法、海洋事務服務等任務 需求考量,在配置救難小艇配置上之設計規劃 上,採用船尾放收方式下水,除可獲得操作靈活 之目的,且傾覆時仍可靠自體預留浮力自動扶 正,並強化駕、住艙空間之防噪音功能,是一款 符合現代海巡任務的高性能巡防艦。 (作者現任職於海洋巡防總局第八海巡隊) machine guns produced by the Joined Forces Artillery Commanding Headquarters, and locally produced .65 rifles and so on. To the left and right starburst of the vessel is one each inflexible, fixed wing, which extends out to help to stabilize the vessel in angular compensation with sway resistance when the vessel speed reaches 25 nautical knots, allowing the vessel to achieve an 80% stability, offering high speed, flexible, comfortable, navigation resistant and safe features.

To safeguard open sea navigation safety, the vessel has its safety feature revolving around a 40 men mobilization, and is coordinated with two 20-seater lifeboats; in addition, to respond to joint sea crackdown missions, onboard the vessel are two red lacquered high-speed mission mobilization/rescue boats, which are self-righting and are professional rescue speedboats marking a first in Taiwan history. The vessel hull class is fabricated out of reinforced fiberglass resin, measuring 8M in length, 2.6M in width, 1 M in depth, with an 0.8M maximum draught, and has a 3.5T maximum displacement, and is fitted with a Volvo Penta YAMD-41 model diesel engine, rated at 200HP that sails at 20 knots, with a patrol cruise of 20 knots, and a navigation distance of 200 nautical miles, seating 6, which is capable of synchronizing with the mother ship sailing at a fast speed of 20 knots to carry out joint crackdown missions that fully meet guidelines set by International Maritime Organization and Norway Ship Rating Association (DNV). The two self-righting defense mobilization speedboats will automatically return to an upright position when overturned under the most severe oceanographic conditions to offer maximum yield in life rescue or self help within the shortest time imaginable.

Many aspects of the  $\lceil$  Nantou  $\rfloor$ (CG-122) are identical as that of the  $\lceil$ Taipei  $\rfloor$  and taken into account the mission demands in maritime law enforcement and maritime affairs services, which is designed to load the rescue boat through lowered it into water via the bow to achieve the objective of a flexible maneuver but are capable of self-righting and staying buoyant even if capsized. They also come with reinforced maneuverability, enlarged living quarters and noise reduction to make them a high-performance frigate model that meets the modern demands of carrying out coast guard missions.

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