



海巡艦艇介紹專欄五一

六十噸級巡防艇

The Sixty-ton Patrol Boat

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●六十噸級巡防艇英姿

民國八十四年，為因應海上巡防艦艇汰舊更新之需，當時保安第七總隊（本署海洋巡防總局前身）特別規劃及編列預算建造六艘二十八公尺長船速四十二節的六十噸級高速巡防艇，該型巡防艇由蘇澳龍德造船公司得標，並於民國八十五年陸續完工交船，特殊的高強度玻璃纖維複合材質所製成之堅硬船殼，加上其鮮橘色的環體碰墊，使其造型獨塑一格，此款巡防艇投入第一線海上不法查緝行列後，立刻發揮其優異船速創造

In 1994, in response to the need in replacing outdated maritime patrol vessels, the Security Police Seventh Division, Police Administration (former of modernized maritime organization of Maritime Patrol Directorate General, Coast Guard Administration), had specially planned and allocated budgets for building six 28m-long, 42-knot, 60-ton high-speed patrol boat; the patrol boat tender was awarded to Lung Der Shipbuilding Company of Su Aou, and completed in 1996. Its sturdy ship hull fabricated out of unique high-strength fiberglass composite material, coupled with its bright orange ringed collision pads, had made it stand out in a style of its own.



良好海上緝私的績效，所查獲的走私案件不計其數，績效卓著。

本型巡防艇取得中國驗船中心（CR）及挪威驗船協會（DNV）之雙重合格認證，船艇採克維拉（KEVLAR）高強度玻璃纖維複合塑膠材質（FRP）一體成形工法製造，船型為V型，引用二部PAXMAN VP185柴油引擎主機經減速機帶動二部可變螺距螺槳（Controllable Pitch Propeller；CPP），屬於高速巡防艇，本型船艇不同於一般傳統固定式螺槳推進巡防艇，無須停車換檔動作，可直接藉由螺槳葉面角度變換使船舶於瞬間由全速前進轉換至全速後退狀態，此一優異特性讓本型艇操縱更顯靈巧，其全長二十八米，造船界又稱其為二十八米巡防艇，船寬六點二米，模深三點二米，最深吃水二點四米左右，最大船速四十二節，經濟巡航速率二十五節，巡航距離六百浬，每艘乘員八至十二人，出勤時可在艙艙各裝一挺T-75機槍，船上並有先進全球衛星定位系統、自動雷達等航海儀器，可同時追蹤八個衛星，顯示並輸出船位、船速信號，配合海洋巡防總局衛星控管系統，為本署十二至二十四浬責任海域內的巡弋主力之一。

九十年六十噸巡防艇編號PP6001艇實施主機換裝（改採MTU公司之主機）工程，完工不久，於九十一年三月三十日清晨六時在淡水外海破獲國內治安史上最大宗走私黑槍案，查獲基隆籍「穎昇八號」漁船涉嫌自菲律賓走私制式長、短槍一百七十三支及手榴彈一批，還有罕見迷你衝鋒槍（走私槍枝包括制式手槍一百六十四支、制式長槍九支、子彈八千零二十發、彈匣三百二十三個、

Following the patrol boat's joining the rank of frontline illicit trafficking busting, it instantly excelled outstanding maritime illicit trafficking busting performance, thanks to its outstanding vessel speed, reporting innumerable trafficking cases with exceptional results.

The model of frigate had been accredited with a dual certification by Chinese Vessel Registration Center and Norway's DNV certification agency. The vessel had been built in a one-body construction method using Kelvar high-strength fiberglass reinforced plastic (FRP) material, with the vessel configured in a V-shape, and was equipped with two Paxman VP185 diesel engines, where the main engines were routed through a speed attenuator to drive tow controllable pitch propellers (CPP), and was regarded as a high-speed frigate. What set the model of frigate apart from the conventional fixed propeller driven frigate lied in that it did not require stopping for gear change but through angular change of the propeller blades to instantaneously switch from a full forward throttle to a backward throttle, an outstanding feature that allowed the frigate to be more maneuverable. Measuring at 28m long, it was also referred to by the industry as the 28m-long frigate. Measuring 6.2m in width, 3.2m in keel drop, it boasted a maximum draught of around 2.4m, and a maximum vessel speed of 42 knots, and economy cruise at 25 knots, with a patrol range covering 600 nautical miles. Each frigate seats 8 to 12, and can be loaded within one T-75 machine gun at stern when on active duty; the boat is fitted with many advanced navigational devices, such as the global satellite positioning system, automatic radar to name a few, which are capable of tracking eight satellites simultaneously for displaying the prompting boat position and vessel speed signals, which when coordinated with Maritime Patrol directorate General's satellite monitoring and control system, would make it one of the administration's main frigate forces responsible for patrolling the sea regions between 12 and 24 nautical miles. Fully classified by China Corporation Register of Shipping (CR) and Det Norske Veritas(DNV) of Norway, the vessel model takes to a Fiberglass Reinforced Plastics (FRP) material in a V-hull high-speed patrol boat with two



手榴彈七顆、炸藥一批)市價達七千多萬元，不但樹立本署海域執法權威，確保國家社會治安維護，也寫下本型巡防艇最佳代表作。(作者任職於第八【澎湖】海巡隊薦任技佐)

PAXMAN VP185 diesel engine, two Controllable Pitch Propellers, dual rudders and Length overall: 28 meter Breadth: 6.2 meter Max draft: 3.2 meter Draft: 2.4 meter Max speed: 42 knots Cruising speed: 25 knots Endurance: 600 nautical miles Crew: 8 to 12 Weapon: 20mm type75 . Naval aid equipment includes GPS, auto track radar and etc. These patrol boats are the major patrol force of ROC Coast Guard Administration between the 12 to 24 nautical miles of maritime.

In 2001, as the 60-ton patrol boat carrying a classified number of PP6001 had just undergone a main engine replacement switching to an MTU engine, and soon after the completion of replacement, the patrol boat had gone on to score the largest illicit gun smuggling case in history, in the open sea off the coast of Tamsui on the early morning of March 30, 2002, seizing a Keelung-based SS Ying Sheng #8 fishing vessel allegedly involve in smuggling in from the Philippines standard rifles and handguns totaling 173, a lot of grenades, in addition to the rarely mini machine gun (where the illicit guns included 164 standard handguns, 9 standard rifles, 8020 bullets, 323 cartridge clips, 7 grenades, and a lot of dynamites), over \$70

●海巡隊員馳騁於海上英姿



million market value. This case not only reclaimed the Coast Guard administration's maritime law enforcement authority, but further enhanced the security maintenance of the nation and the society as a whole, setting out a perfect representation of what this model of patrol boat was capable of.