

# Yu Shan --- SHIP OF THE YEAR 2023 in Taiwan



Taiwan SNAME



Yu Shan underway conducting sea trial

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## MAIN DIMENSION

Length (LOA)	153 m
Breadth	23 m
Draft (Full load)	5.8 m
Displacement (Full load)	10600 t
Endurance	7500 nm

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## Design element

### Stealth

The design incorporates considerations for stealth, with a slightly inward sloping hull design. In addition, a domestically developed enclosed mast design is used for the first time, further improving the ship's stealth performance. The appearance features a simple and concise design style, reducing unnecessary protrusions or indentations, effectively reducing RCS.

### Replenishment

This ship is equipped with a variety of functions and equipment, including a well deck, side ramps, turn table and helicopter hangar. These equipment can meet various missions and challenges, such as transporting supplies and materials, supporting disaster relief



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missions, and executing amphibious operations. In addition, the ship can also carry various military vehicles and helicopters, including LCU, LCM, AAV7, etc., which can be used to support landing operations. It can also serve as an amphibious warfare command platform, providing support and command for landing operations.

## **Maneuvering**

During the full load sea trial, this ship achieved a speed over 22.5 knots, meeting the requirement of 21.5 knots specified in the contract. In addition, the ship's turning time, heeling angle and turning radius is small respectively, when navigating at full speed and full rudder angle. This proves the stability and agility of the ship during high-speed navigation. These performance indicators demonstrate that the ship has excellent and maneuverability, can easily cope with different sea and weather conditions, and effectively execute various maritime transportation, rescue, amphibious operations and other missions.

## **NBC protection**

Yu Shan is equipped with an advanced nuclear, biological, and chemical (NBC) protection system, which can automatically analyze and identify different gas components in the surrounding environment. In the event of a nuclear, biological, or chemical reaction, the system immediately issues an alarm and activates the NBC sprinkler system to protect the safety of the ship and personnel onboard. This system can quickly respond and effectively reduce the impact of a nuclear, biological, or chemical attack, greatly improving the reliability of the ship's defense capabilities and maintaining the ship's operational capability in difficult environments. This enables the ship to better face on potential dangers and challenges.

## **Gender equality**

With women playing a more important role in the military, the ship also considers the needs of female personnel. There are dedicated living spaces on board for female personnel. These exclusive spaces not only ensure the privacy of female personnel in their daily lives, but also provide a safe, comfortable, and respectful environment that meets the physiological and psychological needs of female personnel.

## **MOB system**

Man overboard system provide an accurately detect man overboard events and immediate, actionable data to response personnel.

## Significance

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### **Domestically Design and Built**

The ROCN has been receiving 1<sup>st</sup> dock landing ships from the United States since November 17, 1960, starting with the Tung Hai, followed by the Chen Hai and the Hsu Hai, all of which were provided by the United States. However, the design and construction of Yu Shan were all accomplished by Taiwanese professionals. The NSDC and the SOIC are responsible for the initial design and contract design, while CSBC Corporation, Taiwan is responsible for construction. This represents Taiwan's shipbuilding industry development



strength and allows Taiwanese people to see the strength and achievements of domestic shipbuilding, truly embodying the concept of building national defense ships domestically.

## Legacy

The name of this ship is derived from the "Shan" class Destroyer Escort, which were purchased from the United States by the ROCN, after the 1986 naval battle and have since been decommissioned. Continuing the legacy of the decommissioned Yu Shan warship (PF-832), the current ship is once again named Yu Shan. This not only represents inheritance but also symbolizes the spirit of the ROC Armed Forces in facing challenges and overcoming obstacles. In addition, the design and construction process of this ship is also incorporated the experience of the Xuhai-class dock landing ship, giving even greater significance to the concept of inheritance embodied by the Yu Shan.

## Humanitarian Assistance

With the global impact of extreme weather on various countries, the excellent performance and carrying capacity of naval vessels have played a role in humanitarian assistance during peacetime. When Typhoon Haiyan hit the Philippines in 2013, we ROC immediately dispatched the Zhonghe-class landing ship to provide aid. As for domestic disaster relief efforts, the presence of the military is essential. During Typhoon Morakot in 2009, land transportation was disrupted in the Taitung Dawu area, and the ROCN dispatched landing craft to transport supplies. The well deck on Yu Shan can also carry landing craft, ensuring that she will not be absent from future humanitarian and disaster relief missions.

## Conclusion

"Yu Shan" is the highest peak in Taiwan and represents the spirit of the navy's pursuit of excellence and fearless climbing towards the summit. It also symbolizes this vessel's ability to carry marines and amphibious vehicles, overcome various difficulties, and navigate through obstacles, always standing at the forefront of safeguarding the homeland.



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