



# NAVAL SHIP CLASSIFICATION SERVICES

TÜRK LOYDU

# COMMON GOAL COMMON FUTURE

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Türk Loydu was established in 1962 with the aim of promoting technical progress in the maritime and industrial fields.

As of November 1, 2023, Türk Loydu became a member of the International Association of Classification Societies (IACS). With the mission of "Safe ships, sustainable structures, and clean seas," Türk Loydu has reinforced its commitment to international standards and its determination to maintain high professional standards.

As a globally recognized and reliable classification society, Türk Loydu provides trusted classification services for a wide variety of vessels, ranging from commercial ships to yachts, naval projects, and submarines.

Our Vision is to prioritize safety, quality, and environmental sustainability in the maritime sector while placing innovation and technology at the center. In this context, we carry out significant studies in areas such as autonomous and unmanned surface vessels, zero-emission ships, alternative fuels, and cybersecurity.

Türk Loydu will continue to enhance the quality of its processes and its competitiveness in the sector with determination by promoting innovation and excellence in maritime safety, environmental protection, and sustainability.

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# Türk Loydu in Defense Industry Projects

## National Naval Ship Classification Activities

Türk Loydu's classification activities for naval ships began in 1996 with the classification of TCG Yarbay Kudret GÜNGÖR, the first navy ship built in the private sector.

As of October 2025, in both national and international naval ship projects, we have provided - and continue to provide - classification, conformity assessment, and certification services for approximately 350 vessels of various classes, including steel, composite, and aluminum ships.

### References by Ship Type:

**1- Destroyer** (TF-2000 Air Defense Destroyer),

**2- Frigates** (İSTİF Class 5-12),

**3- Corvettes** (ADA Class 1-4),

**4- Fast Attack Craft** (National FAC Project),

**5- Mine Hunting and Minesweeper Vessel,**

**6- Patrol Vessels** (YTKB 1-16, ADKG 1-6, Coast Guard Control Boats 1-185),

**7- Landing Ships** (Multi-Purpose Amphibious Assault Ship, LST 1-2, LCT 1-8, YLCT 1-8),

**8- Auxiliary Vessels** (Fleet Replenishment and Combat Support Ship, Submarine Rescue Ship, Rescue & Towing Ships, Training Boats, Fuel Supply Ships, Fuel Transport Ships, Emergency Response Boats, 10,000-ton Floating Dock, 3,000-ton Submarine Dock),

**9- Armed Unmanned Surface Vessels (AUSVs)** (ULAQ, MARLIN, SANCAR, SALVO).

# ADA CLASS CORVETTES





**TÜRK LOYDU**

**IACS**

**International  
Association of  
Classification  
Societies**



In 2023, we became a full member of the International Association of Classification Societies (IACS), aligning with our goals for maritime safety, environmental protection, and sustainability. The Quality Management Certification System (QSCS) "Certificate of Conformity" obtained in 2022 paved the way for this membership, strengthening our position in the international maritime sector.

Adopting the mission of "safe ships and clean seas," IACS is a powerful organization overseeing more than 90% of the world's cargo tonnage. We support this mission by upholding our commitment to ethical values, sustainability, innovation, and professional competence.

With our membership, we have integrated international standards and best practices into all our processes. We actively participate in working groups and panels, collaborating with the IMO and other maritime institutions. We take a leading role in developing new rules, updating regulations, and contributing to international meetings.

From dry bulk to tankers, Ro-Ro to container ships, we provide reliable classification services across a wide range of vessels. Our IACS membership represents quality, trust, and international prestige, enabling us to make a global impact on maritime safety and sustainability.





**NSCA**  
NAVAL SHIP  
CLASSIFICATION ASSOCIATION

A white flag with a blue border, featuring the acronym 'NSCA' in large, bold, blue capital letters. Below the acronym is a thin blue horizontal line, followed by the full name 'NAVAL SHIP CLASSIFICATION ASSOCIATION' in smaller, blue, sans-serif capital letters.

**INSA**  
INTERNATIONAL NAVAL  
SAFETY ASSOCIATION

A white flag with a blue border, featuring the acronym 'INSA' in large, bold, blue capital letters. Below the acronym is a thin blue horizontal line, followed by the full name 'INTERNATIONAL NAVAL SAFETY ASSOCIATION' in smaller, blue, sans-serif capital letters.

# NSCA

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NAVAL SHIP CLASSIFICATION  
ASSOCIATION

Türk Loydu has been a member of the NATO Naval Ship Classification Association (NSCA) Council since 2004.

It significantly contributes to working groups and the development of naval ship regulations.

# INSA

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INTERNATIONAL NAVAL  
SAFETY ASSOCIATION

Türk Loydu is a member of the INSA Council.

It comprises seven classification societies from various countries, including Türk Loydu, and the navies of 13 countries.

## International Naval Ship Classification Activities

Türk Loydu possesses naval ship classification experience not only in Turkey but also abroad. Projects by country:

- 1- Qatar :** 2 Training and School Ships, 2 Attack Boats, LCT, 2 LCM, LCVP, 3 SG Hercules 75, 10 SG Hercules 110, 2 SG Hercules 150.
- 2- Pakistan :** 4 ADA-Class Corvettes, JINNAH-Class Frigate, Gun Boat.
- 3- Malaysia :** 3 Corvettes, SG Multi-Purpose Mission Vessel.
- 4- Ukraine :** 2 ADA-Class Corvettes.
- 5- Turkmenistan :** Corvette, 10 SGSB, Seismic Research Vessel, Hovercraft, 6 Fast Intervention Boats, 10 Quick Intervention Boats, 2 Tugs, Catamaran.
- 6- Nigeria :** OPV, Patrol Boat.
- 7- Bahrain :** 6 SG ARES 53.
- 8- Portugal :** At-Sea Replenishment and Logistics Support Vessel.
- 9- TRNC :** 3 Ares 42 Hector Boats.

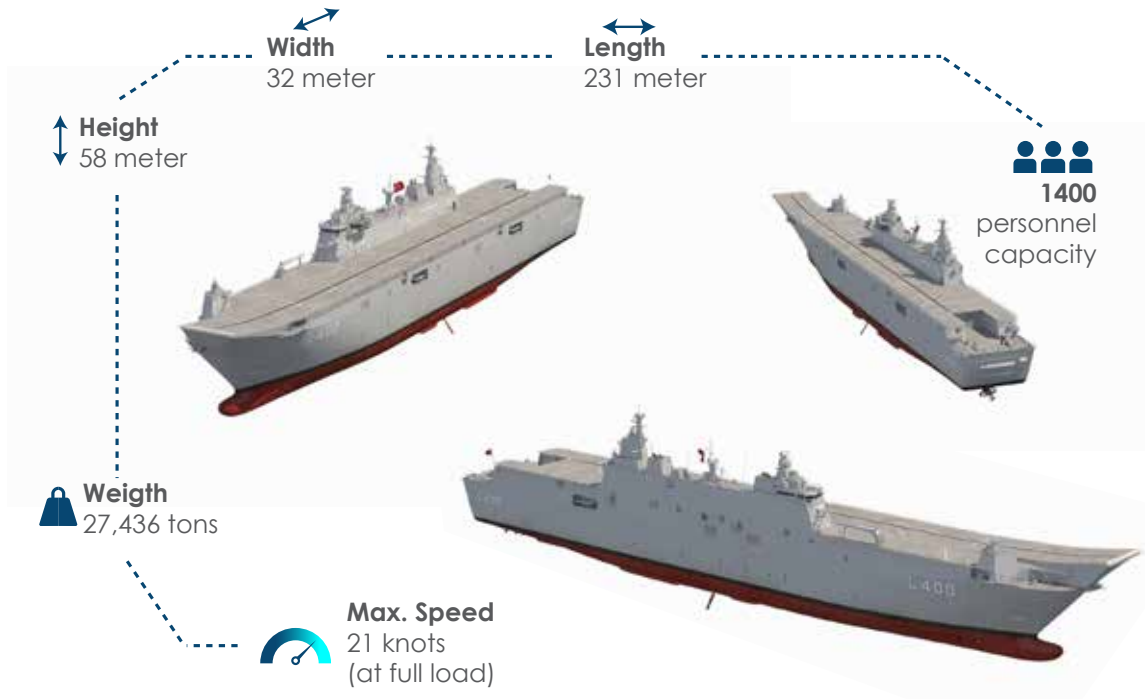
# NIGERIA OPV





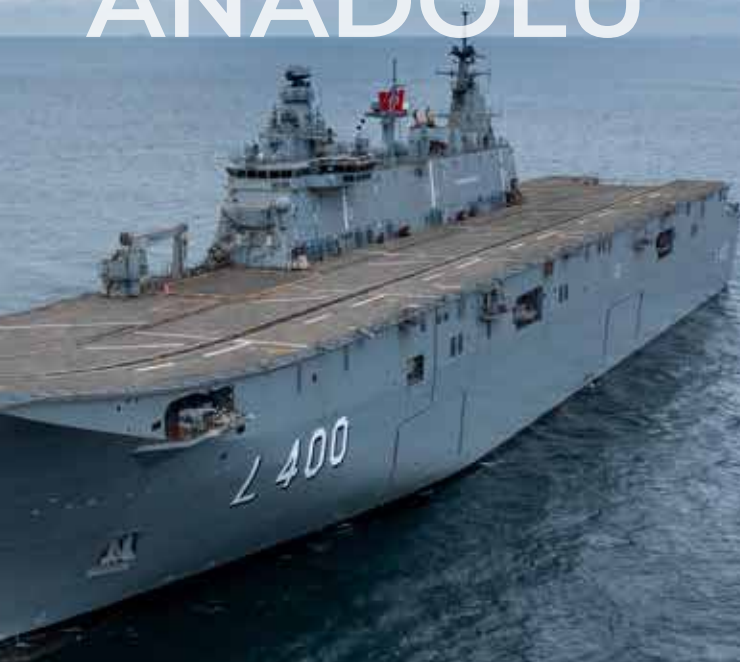
# **HIGHLIGHTED PROJECTS**

# Multipurpose Amphibious Assault Ship





# TCG ANADOLU



## Landing Ships

### Classification

LCT Tank Landing Ships 1-8

LST Landing Ships 1-2

Multi-Purpose Amphibious Assault Ship

Y-LCT New Type Tank Landing Ships 1-8

## TCG ANADOLU

Built under the supervision of Türk Loydu in accordance with its Naval Ship Classification Rules, TCG Anadolu, a Multi-Purpose Amphibious Assault Ship, has a full-load displacement of 27,436 tons and a length of 231 meters. It can accommodate eight fully equipped helicopters and has the capacity to easily transport a fully equipped battalion to any desired region.

# PN MİLGEM BABUR Class Corvettes

Built for the Pakistan Navy, the PN MİLGEM corvettes are equipped with long-range sensors and weapon systems, low radar signature, and high reliability, meeting the demands of modern naval warfare.

In this project, Türk Loydu, as an independent classification society, has played a role in conducting compliance inspections and certification processes in accordance with international standards, ensuring the safety and security of the vessels.



# Corvettes

## Classification

TURKMENISTAN Corvette  
PAKISTAN MİLGEM 1-4  
UKRAINE MİLGEM 1-2  
MALAYSIA Corvette 1-3

## Design Certificate

ADA Class 1-4

# Attack Boats

## Classification

QATAR Attack Boats 1-2  
National Attack Boat

# Mine Hunting and Minesweeper Vessel

## Classification

Mine Hunting and Minesweeper Vessel



## Boyutlar

Full Length: 108,2 m  
Width: 14,8 m  
Design Draft: 4,1 m  
Maximum Speed: +26 knots  
Tonnage: 2,985 tons

## Performance Characteristics

Capable of effective operations in sea state 5, the ships can conduct operations without resupply for 15 days.



Equipped with modern weapon and sensor systems, a low radar cross-section, advanced electronic warfare capabilities, and high maneuverability, the PN MİLGEM stands out as a versatile platform for multi-dimensional naval operations.

# TCG AKHİSAR



# Patrol Vessels

## Classification

New Type Patrol Boats 1-16  
Coast Guard SAGET Boats 1-10  
BAHREIN SG ARES 58 FBP 1-6  
TURKMENISTAN SGSB 1-2  
TURKMENISTAN SGSB 3-8  
Coast Guard Control Boats 1-185  
NIGERIA Patrol Boat  
NIGERIA Offshore Patrol Vessel  
Offshore Patrol Vessels 3-10  
MALAYSIA Multi-Purpose Mission Vessel

## Design Certificate

Offshore Patrol Vessels

# ADKG Offshore Patrol Vessels

The Hisar Class Offshore Patrol Vessels, whose design approvals were conducted by Türk Loydu, were developed based on the MILGEM Ada Class Corvette design. The Hisar Class vessels are 99 meters in length, 14 meters in width, and have a displacement of 2,300 tons. They are powered by four diesel engines and two electric motors, achieving a speed of 24 knots, a range of 4,500 nautical miles, and the capability to operate for 21 days without resupply.



## Dimensions

Width: 99.56 m  
Length: 14.42 m  
Displacement: 2,300 tons  
Max. Speed: 24 knots



## Boats

2 RHIB  
Special operations and personnel transport  
Capacity to carry 10-12 personnel  
Vehicle davit



## Features

Personnel: 104  
Combat Management System: Advent  
Main Propulsion System: CODELOD  
Configuration Hydrodynamic Design

# Destroyer

## Design Certificate

TF-2000 Air Defense Destroyer

## TF-2000 Air Defense Destroyer

The TF-2000 Air Defense Warfare Destroyer project, constructed under the prime contracting of ASFAT, established under the Ministry of National Defense, and for which plan approval services are provided by Türk Loydu, is a national destroyer-class warship project equipped with advanced air defense capabilities.

Aimed at enhancing the deterrence and naval power defined in the strategic plans of the Turkish Naval Forces Command, the project's Plan Approval process will be completed through the review and approval of plans and analysis documents in compliance with Türk Loydu Rules, Naval Norms and Standards, and the provisions of the Naval Authority.

With more than 25 years of experience as a classification society in national naval ship projects, Türk Loydu is proud to take part in this project.

## Dimensions



Full Length: 149 m  
Width: 21,3 m  
Draft: 5,75 m  
Displacement: 8,300 tons  
Maximum Speed: 26+ knots

## Performance Characteristics

The TF-2000 Air Defense Warfare Destroyer is designed with a range of 5,000 nautical miles, unrestricted operations in sea state 5, and a service life of 40 years.



Capable of operating for 45 days without resupply and 180 days without main base support, the ship features a robust hull structure with reduced radar, acoustic, magnetic, and infrared signatures.









# Frigates

## Classification

İSTİF Class 6-12

## Design Certificate

İSTİF Class-5  
PAKISTAN JINNAH Class

## İSTİF CLASS Frigates

The construction of the 6th to 12th ships of the İ (İstif) Class Frigate Project is ongoing at private shipyards under the supervision of Türk Loydu.

İ (İstif) Class Frigates have a displacement of 3,000 tons, a length of 113 meters, and a width of 14.4 meters.

The İ (İstif) Class Frigate Project was initiated to develop indigenous warships capable of performing anti-submarine warfare and open-sea patrol duties for the Turkish Naval Forces. Within the scope of the project, 4 ADA-class corvettes and 1 İSTİF-class frigate have been constructed, while the construction of 7 additional İSTİF-class frigates is ongoing.



# TCG İSTANBUL



### Dimensions

Width: 113.2 m  
Length: 14.42 m  
Draft: 4.05 m



### Displacement Tonnage

3,000 tons

### Cruising Range / Speed

14 knots / 5,700 nautical miles  
Maximum Speed: +29 knots



### Capabilities

High maneuverability  
Advanced air defense warfare  
Long range and endurance  
Low radar cross-section and IR signature  
Close-in air defense system

# TCG DERYA



# Auxiliary Class Vessels

## Classification

Fuel Supply Ship  
Naval Academy Training Boats 1-8  
Fuel Transport Ships 1-2  
Submarine Rescue Ship  
Rescue Backup Ships 1-2  
TURKMENISTAN AMB 1-10  
TURKMENISTAN Tug Boat  
TURKMENISTAN HSV  
Fuel Supply Ships 1-2  
Test and Training Ship  
Emergency Response Boats 1-2  
QATAR School Training Ship  
10,000-ton Floating Dock  
Replenishment At Sea and Combat Support Ship  
3,000-ton Submarine Dock  
Fuel Ships 1-4

## Design Certificate

PORTUGAL At-Sea Replenishment and Logistics Support Ship

# Replenishment At Sea and Combat Support Ship

Türk Loydu ensures the operational efficiency and safety of naval vessels through high standards, advanced engineering solutions, and meticulous inspection processes in military ship projects. In this context, the Türk Loydu-classed At-Sea Replenishment and Combat Support Ship TCG DERYA stands out with its ability to reach long ranges without port calls, robust logistic support, and versatile mission capabilities. Capable of serving as a command-and-control ship during wartime, TCG DERYA was commissioned into service in 2024.



## Dimensions

Width: 24.4 m  
Length: 199.8 m  
Displacement: 24,000 tons



## Max. Speed

14 knots

## Cruising Range

4,500 nautical miles

# Armed Unmanned Surface Vehicles (USVs)

## Classification

MARLİN USV  
SANCAR USV  
SALVO USV

## Hull Conformity Certificate

ULAQ USV

## MARLİN USV

MARLİN is the first Armed Unmanned Surface Vehicle (USV) to join the Turkish Naval Forces inventory, was built under Türk Loydu classification. Designed for surface and electronic warfare, reconnaissance-surveillance, facility security, and amphibious operations, MARLİN represents a significant step in modernization. Türk Loydu ensures operational efficiency and safety in military projects through high standards, engineering solutions, and meticulous inspections.

## Boyutlar

Tam Boy : 15 m  
Genişlik : 3.85 m  
Deplasman Tonaj : 21 t.  
Seyir Sırası / Sürat : 1000 nm / +12 kts  
Azami Sürat: 36 kts

## Dimensions

Full Length: 15 m  
Width: 3.85 m  
Displacement Tonnage: 21 tons  
Cruising Range / Speed: 1000 nm / +12 knots  
Maximum Speed: 36 knots



# MARLIN





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# NAVAL SHIP CLASSIFICATION SERVICES





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Contact

