



We understand maritime operations
and propose superior workboats.

Making purse seine fishing
operations smarter

NET BOAT



295, Noksansaneopbuk-ro, Gangseo-gu, Busan (Songjeong-dong)

Company Number 070-8672-0882

fax 051-717-0327

e-mail haedong0428@ihaedong.com

www.ihaedong.co.kr

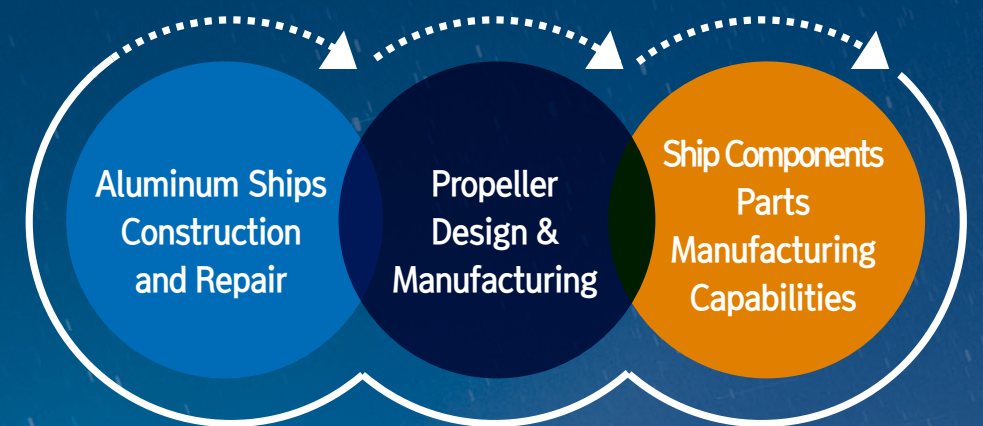
Drawing on our shipbuilding expertise, we create solutions tailored to on-site needs.

Haedong is a company specializing in shipbuilding, specifically the construction and repair of aluminum vessels and the design and manufacture of propellers.

Leveraging our experience in vessel structure and materials, we manufacture vessels and their components while taking into account on-site operational conditions and specific work requirements.

Leveraging the technical expertise and manufacturing experience accumulated particularly in the construction and repair of aluminum vessels and the design and fabrication of propellers we propose manufacturing solutions tailored to the customer's operational requirements.

Key Business Areas



Core Values



Connecting the main vessel and the work site
Practical fishing support platform

NET BOAT

A net boat is a small work vessel that assists in the operation of the main vessel during purse seine fishing and performs tasks such as maneuvering, approaching, and providing support before and after net operations.

Going beyond mere transportation, it is designed with a focus on accessibility, mobility, operational workflow, and ease of use to support various tasks performed around the main vessel.

I Key Roles of NET BOAT I



Fishing assistance

It supports tasks that are repeatedly performed around the main vessel.



Mobility Support

It facilitates the movement and access of workers and equipment.



Integrated operation with the main vessel

We operate in alignment with the fleet's main-vessel-centered operational flow.



Customized specifications

You can select specifications based on operating conditions and work objectives.

Understanding the flow of purse seine fishing
Practical workboat

Purse seine fishery

Purse seine fishing is a method in which a main vessel and several auxiliary vessels divide tasks to carry out the processes of deploying, encircling, and retrieving the net.

Therefore, to enhance operational efficiency, it is crucial to consider not only the performance of the main vessel but also the roles, movement, accessibility, and coordination across operational stages of each work vessel.

Characteristics of Purse Seine Fishing Operations

- 01 Performs key fishing operations such as casting nets, hauling nets, and net storage.
- 02 Assistance with access, movement, and work around the main vessel
- 03 Reconnaissance and various support roles



The Role of NET BOAT

A net boat is an auxiliary work vessel that is repeatedly deployed around the main vessel.

It is designed to accommodate the various support tasks involved in the operation process, ranging from berthing and movement to work preparation, equipment access, and worker mobility.

Key Role

- 01 Auxiliary operations near the main vessel: Supports necessary movements and tasks in close proximity to the main vessel.
- 02 Accessibility is ensured by taking into account the movement paths of workers and equipment at the work site.
- 03 It is designed to handle situations involving approaching and berthing alongside the vessel during berthing and close-proximity operations.

The work around the main vessel
connect more efficiently



Fleet Operation System

In fleet operations, the main vessel, auxiliary workboats, and equipment operators function within a unified workflow.

The NET BOAT serves to supplement on-site accessibility and mobility aspects that may be relatively limited in a main-vessel-centric operational system.

FLEET SYSTEM

- 01 Main Vessel: Casting, Hauling, and Storage
- 02 NET BOAT: Access, Assistance, and Mobility
- 03 Auxiliary Vessel: Reconnaissance & Support
- 04 Integration of communication and signaling systems

Product Introduction

For workboats that operate repeatedly in the field, considering mobility alone is insufficient.

A balanced approach is required, taking into account factors critical to day-to-day operations such as hull strength, the working deck, visibility from the helm, and accessibility for maintenance.

PRODUCT FEATURES

- 01 Rugged aluminum hull
- 02 Low, open work deck
- 03 Compact cabin and control unit
- 04 Custom-manufactured according to operating conditions

The main vessel and
the work line as one flow

For repetitive tasks
practical Workboat Design

The appearance of the NET BOAT, born from function

A design where the functions required in the field
naturally emerge.

Robust Hull Structure Designed for Repetitive Operational Environments

Exterior Design

The exterior of the NET BOAT is not merely a design feature but the result of prioritizing operational efficiency and ease of use.

The balanced layout of the work deck, protective structures, and cabin ensures both practical usability in the field and ease of maintenance.

DESIGN POINT

- 01 Practical shape based on an aluminum hull
- 02 Fender and Lower Protection Structure Considering Berthing Conditions
- 03 Ensuring work deck accessibility and visibility
- 04 Hull proportions considering coordinated operation with the main vessel

Hull structure

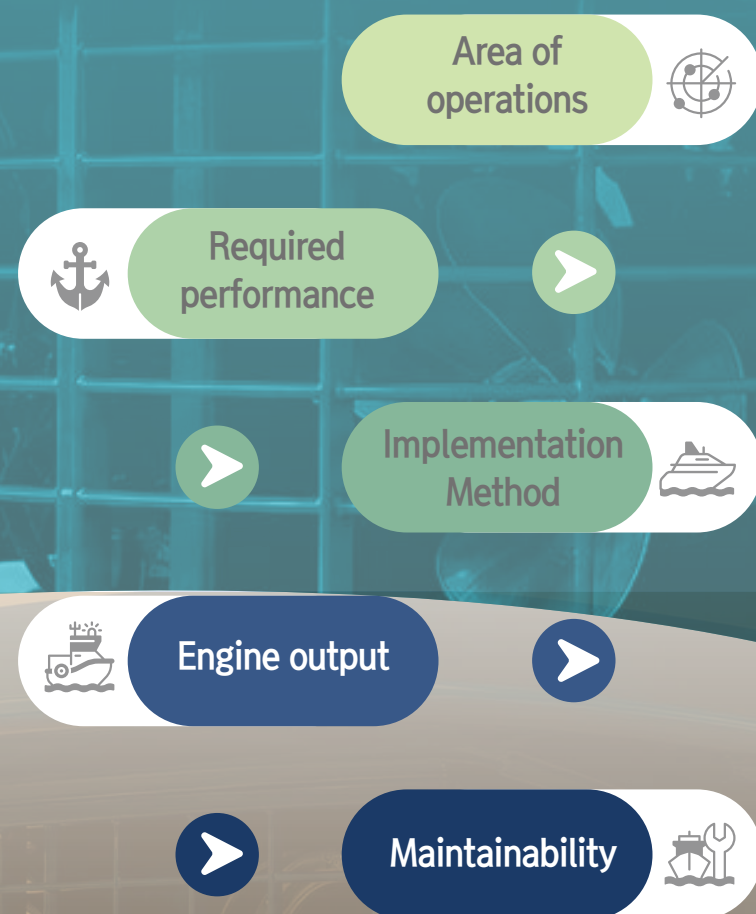
For the hull structure, both internal reinforcement and external protection are considered, taking into account repeated operations, berthing impacts, propulsion system protection, and worker movement.

STRUCTURE

- 01 Internal reinforcement through frames and ribs
- 02 Protection structure for the bow, stern, and critical areas
- 03 Securing the support structure beneath the deck
- 04 A production system that enables the verification and management of the structure during the production phase.

Lightweight and Durable Aluminum Hull for Marine Environments

Selected according to operating environment
Propeller & Water Jet



Hull material

For the hull of the NET BOAT, the selection of aluminum is evaluated based on its corrosion resistance, lightweight nature, and workability, taking into account the marine environment and the vessel's repetitive operational demands.

As aluminum is a material widely used in shipbuilding and repair, it is crucial to configure the appropriate plating and reinforcement structures to meet specific operational objectives and structural requirements.

MATERIAL ADVANTAGE

- 01 High corrosion resistance in seawater environments
- 02 Balance of lightness and strength
- 03 Plate structure with high weldability and machinability
- 04 Reinforcement accounting for repetitive impacts and operational loads

Propulsion System

The propulsion system for the NET BOAT can be evaluated by considering options such as propeller and water jet types, taking into account factors such as the operational area, required speed, maintenance conditions, and hull configuration.

PROPELLER TYPE

- 01 Propeller-type NET BOAT
- 02 Waterjet-type NET BOAT
- 03 The engine output is in the range of approximately 150 to 300 hp.
- 04 Review of maintenance accessibility and protective structures

Considering the workflow WORK-ORIENTED DECK

Take a broad view,
Control panel responds quickly



Deck Configuration

It is crucial to configure the deck layout so that worker movement, equipment placement, cabin access, and hull inspection routes do not conflict with one another.

The NET BOAT is designed with actual workflows in mind, with each area clearly defined according to its function and associated movement paths.

DECK ZONE

- 01 Consider bow access, access to the main hull section, and worker movement.
- 02 Central work deck: a primary space for work operations and equipment handling.
- 03 Upper deck area for monitoring cabin, operations, and work status.
- 04 Access space for stern inspection, considering the access section, propulsion unit, and inspection of the hull bottom.

Cockpit

The control room is designed with a focus on visibility and ease of operation, enabling quick monitoring of the vessel's position, berthing orientation, and conditions on the working deck.

CONTROL ROOM FEATURES

- 01 Ensuring forward and lateral visibility
- 02 Control Accessibility
- 03 Deployment of communication and signaling equipment
- 04 Pathway near the deck

A single NET BOAT,
Custom specifications tailored to various
operating conditions

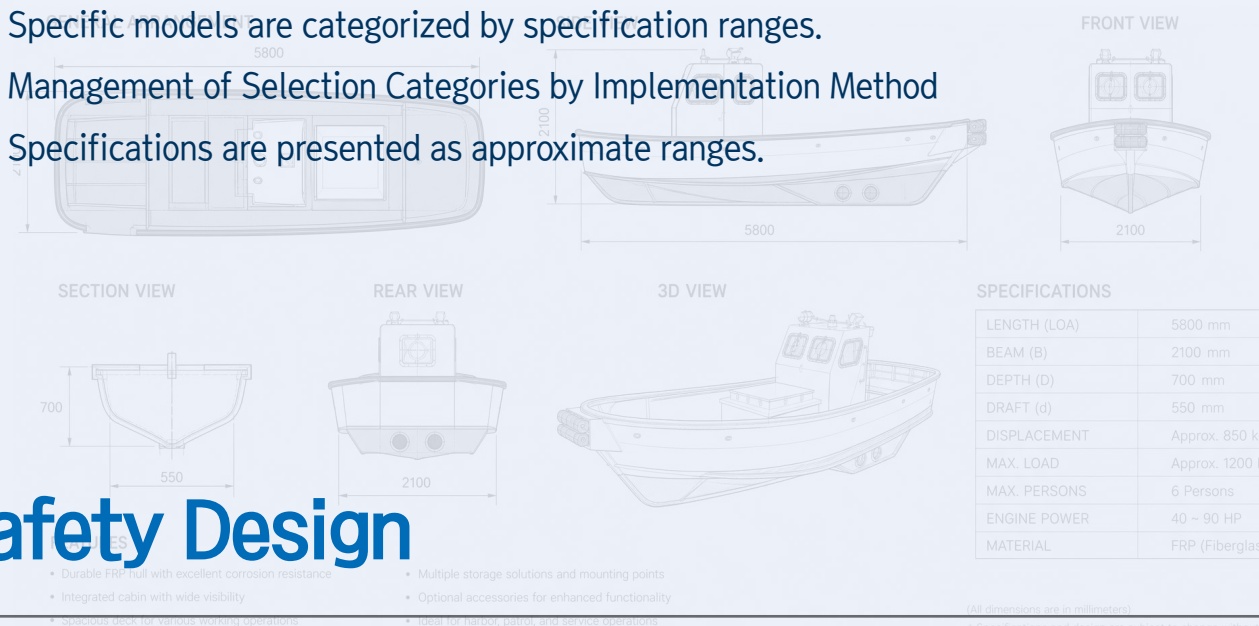
As important as work efficiency
safety-conscious design

Model range

In the final catalog, the product name is standardized as "NET BOAT," while specific models are distinguished based on specifications, propulsion systems, and optional configurations.

MODEL SYSTEM

- 01 Text Label: NET BOAT
- 02 Specific models are categorized by specification ranges.
- 03 Management of Selection Categories by Implementation Method
- 04 Specifications are presented as approximate ranges.



Safety Design

To mitigate risks associated with docking, boarding/disembarking, and repetitive tasks, we evaluate both work flow paths and protective structures.

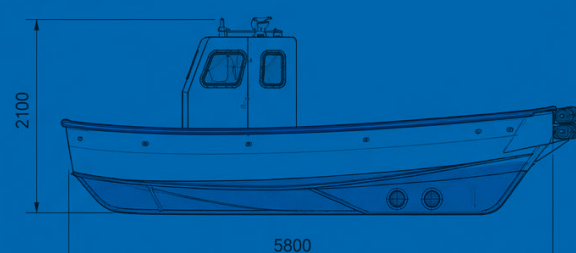
SAFETY DESIGN

- 01 Separation of work flow and equipment zones
- 02 Protection of fenders and outer plating
- 03 Review of non-slip deck application
- 04 Check recovery and lifting points.

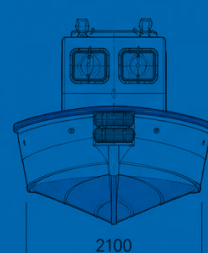
GENERAL ARRANGEMENT



SIDE VIEW



FRONT VIEW



Work Process

As a single workflow from departure to return

The NET BOAT performs its role within an operational workflow that encompasses pre-fishing preparations, approaching the main vessel, providing operational support, and conducting post-return inspections.

01 CHECK

Check the condition of the propulsion system and major equipment prior to departure.

02 APPROACH

Check the operational conditions for approaching the vessel and move to the work location.

03 SUPPORT

Support for tasks such as the movement of workers and equipment, and close-proximity work.

04 RETURN

Check the condition of the hull and equipment after return and completion of inspection operations.

Field application capabilities

Shipbuilding capabilities proven by experience

Haedong meets diverse on-site requirements by leveraging its experience in the construction and repair of aluminum vessels and the manufacturing of ship components.

The new construction and repair history for NET BOAT is compiled based on publicly shareable project records, demonstrating our manufacturing experience and scope of capabilities.



»» Product Strengths

Combining Haedong's manufacturing expertise with site-specific design.

Based on its experience in aluminum vessel construction, Haedong can propose structural designs, equipment layouts, and manufacturing quality standards tailored to specific operational environments.

01 ALUMINUM SHIP EXPERTISE

Experience in aluminum vessel construction and repair

02 CUSTOM DESIGN

Customized design and manufacturing tailored to operational conditions and work objectives.

03 FIELD WORKABILITY

Configuration considering actual worker movement and equipment operation

04 QUALITY CONTROL

Shipbuilding considering the production process and quality control

»» Options

CUSTOMIZED CONFIGURATION to select the required functions

Options for the NET BOAT may vary depending on factors such as the fleet operation method, mother ship loading method, fishing grounds, propulsion system, and deck equipment configuration.

OPTION CHECK LIST

01 Selection of Propulsion System

02 Deck and fender configuration

03 Cabin and control unit configuration

04 Safety Equipment and Custom Fabrication

Key Specifications

ITEM	Approximate value in the 7-meter range	DISPLACEMENT	Approximately 2~5 ton
MATERIAL	AL5083/6061 Series Aluminum	PROPULSION TYPE	Propeller type / Water jet type select
LOA	Approximately 6.8~7.2 m	ENGINE OUTPUT	Approximately 150~300 HP class
BREADTH	Approximately 2.2~2.6 m	CREW	Approximately 2 to 4 people
DEPTH	Approximately 0.8~1.1 m	NOTE	Approximate specifications for the proposal

Detailed Specifications

DIVISION	ITEM	APPROXIMATE VALUE IN THE 7-METER RANGE	NOTE
HULL	Material	AL5083/6061 line	Aluminum hull
HULL	Battlefield	Approximately 6.8~7.2 m	Length overall
HULL	full width	Approximately 2.2~2.6 m	Breadth
HULL	depth	Approximately 0.8~1.1 m	Depth
SCALE	Gross Tonnage	Approximately 2~5 ton	Gross tonnage
PROPULSION	Propulsion Type	Propeller / Water jet	Optional features
ENGINE	Engine output	Approximately 150~300 HPclass	Engine specifications
OPERATION	Ship	Approximately 2 to 4 people	Crew
PERFORMANCE	Cruising speed	Approximately 10~15knots	By loading and sea conditions
EQUIPMENT	Key Options	Fenders, Cabins, and Deck Equipment	Select Options

Certification

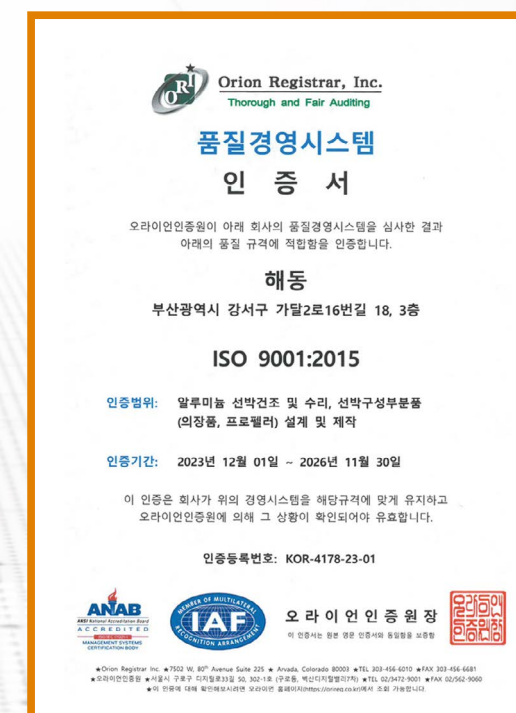
Based on Quality Management System and Environmental Management System certifications, we manage the quality of aluminum vessel manufacturing and repair, as well as the production of vessel components.

ISO 9001:2015 Quality Management System

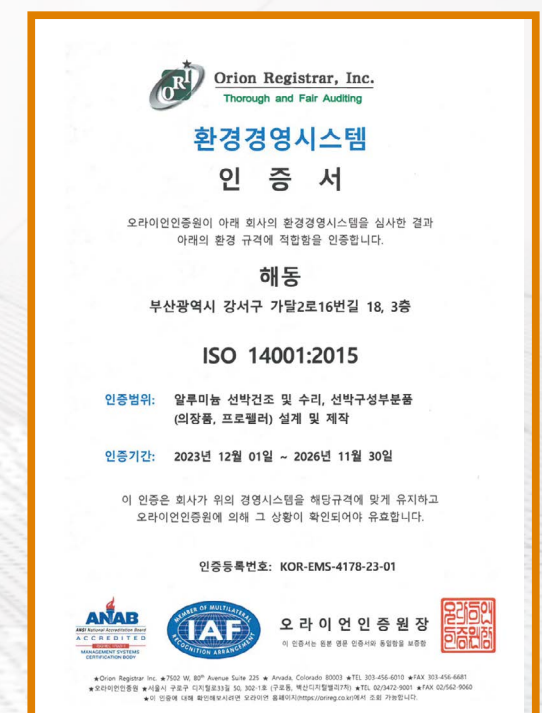
ISO 14001:2015 Environmental Management System

Aluminum Vessel Construction and Repair

Design and Manufacturing of Ship Components



ISO 9001:2015



ISO 14001:2015