

Sustainable
for the future

of HAEDONG Co., Ltd.

the relentless pursuit of challenges
to be continued.

For tuna purse seine fishing
Skiff Boat



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Technology that transcends waves, trust that changes the ocean

We are HAEDONG Co., Ltd., a company specializing in the construction and repair of aluminum vessels and the custom design of propellers.

Since its inception, HAEDONG Co., Ltd. has established itself as a specialist in shipbuilding, accumulating unparalleled technical expertise and know-how in the construction and repair of aluminum vessels, as well as the design and manufacture of high-performance propellers.

To ensure customer safety and optimal navigational performance in the demanding marine environment, HAEDONG provides comprehensive "Total Solutions" that cover the entire lifecycle of a vessel—from initial design and construction to precision repairs and propulsion system optimization.



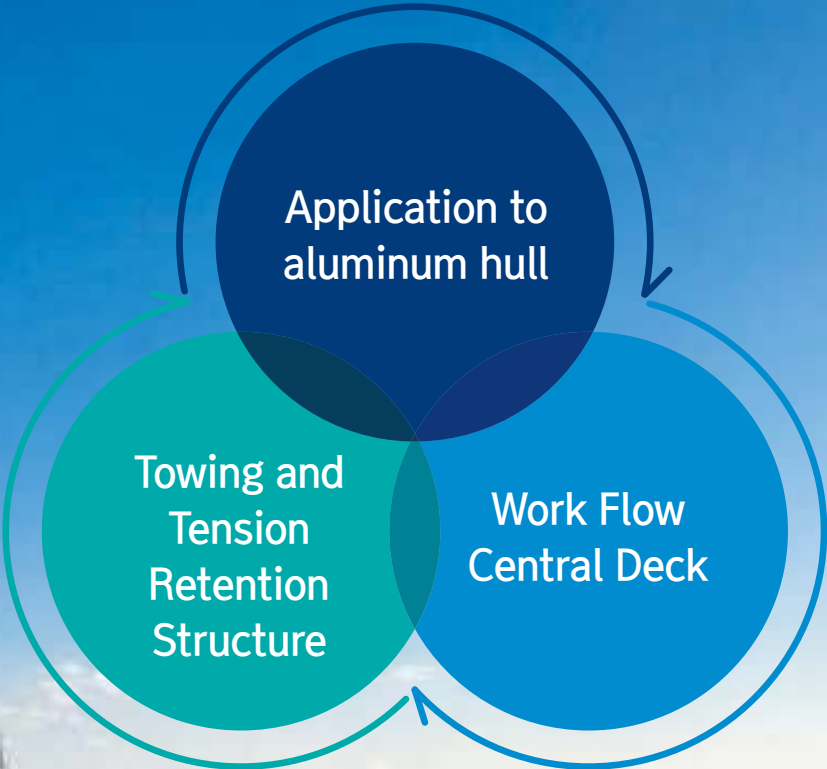
Aluminum ship
Construction and
Repair



Prop
Design and
Manufacturing



Ship parts
Production
Support





Maintain net
starting point

Towing line
tension assist

Distance from
the main line

Direction
adjustment

Return and
equipment
inspection after
casting the net

What is a skiff boat?

A skiff is a workboat used in tuna purse seine fishing that holds one end of the net and assists the main vessel with the net-casting operation.

It helps ensure stable fishing operations by maintaining a fixed position and tension while the main vessel encircles the school of fish.

Purse seine fishery

Purse seine fishing is a method in which a school of tuna is encircled with a large net, and the bottom is then drawn shut to secure the catch. The main vessel and the skiff operate in tandem, maintaining the shape and position of the net in a stable manner.

Suitable for
large-scale fishing

Collaboration
between the main
vessel and the skiff is
required.

Stability is
important during
the net casting and
hauling stages

Net tension and
position control
are key.

The Role of the Skiff Boat

The skiff holds the end of the net at the starting point of the operation and helps maintain the shape of the main vessel's circular net deployment. During the process, it utilizes towing equipment and propulsion to manage changes in tension.

- ✓ Securing the end of the net
- ✓ Maintaining posture while casting a net
- ✓ Towing load distribution
- ✓ Collection after completion of work
- ✓ Inspection



Fleet Operation System

Tuna purse seine fishing involves multiple support vessels performing distinct roles centered around the main vessel.

The skiff boat stabilizes the overall net-setting process by holding the starting point of the net and assisting with towing.

- ✓ Main Vessel: Casting, Hauling, and Storage
- ✓ Skiff boat: Maintaining the net end
- ✓ Auxiliary Vessel: Reconnaissance & Support
- ✓ Integration of communication and signaling systems



Skiff Boat Configuration

Given that this is a workboat deployed repeatedly during operations, we propose a skiff design that strikes a balance among hull strength, deck workflow, towing equipment layout, and accessibility for maintenance.

- ✓ Rugged aluminum hull
- ✓ Stable towing performance
- ✓ Deck designed to accommodate worker movement
- ✓ Custom-built for specific operating environments



Exterior Design

The skiff's exterior is designed with a focus on a robust hull and an open workspace to accommodate the repeated docking, towing, and net-handling tasks involved in purse seine fishing.

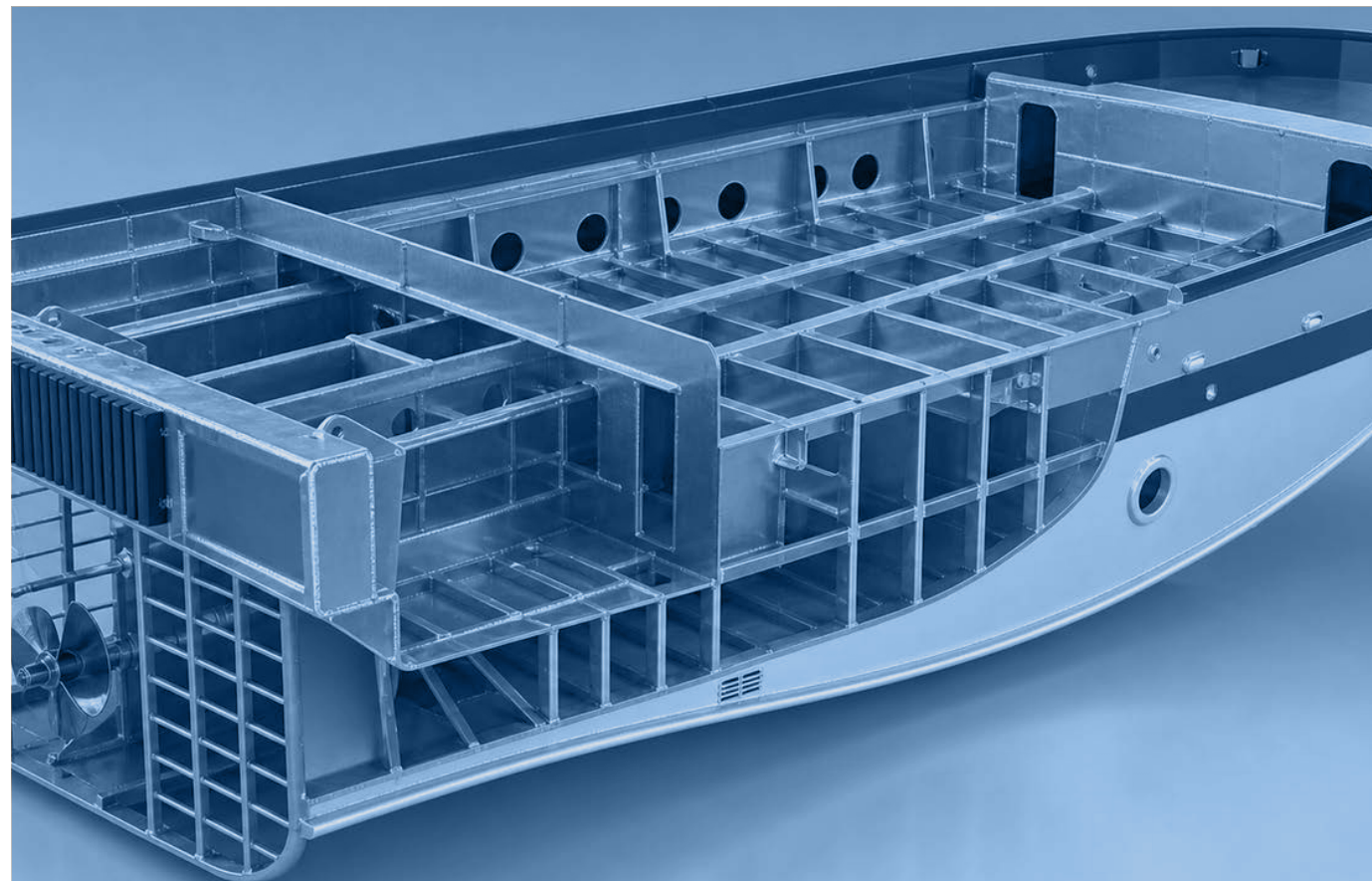
- ✓ Practical shape based on an aluminum hull
- ✓ Application of rubber fenders and protective structures
- ✓ Ensuring work deck accessibility and visibility
- ✓ Proportionality considering operation in conjunction with the main vessel



Hull structure

The hull structure incorporates both internal reinforcements and deck support structures to withstand towing loads, impact from contact, and repetitive operational stresses encountered during fishing operations.

- ✓ Frame- and rib-based internal reinforcement
- ✓ Protection of the stern work section and propulsion section
- ✓ Securing the under-deck support structure
- ✓ Structural representation suitable for inspection during the production stage



Hull material

The skiff boat hull is designed using AL5083/6061 series aluminum alloys, taking into account the marine environment and repetitive towing loads.

- ✓ High corrosion resistance in seawater environments
- ✓ Balance of lightness and strength
- ✓ Plate structure with high weldability and machinability
- ✓ Reinforcement considering repetitive impact and working load





- Bridle: Load distribution
- Fairlead: Rope path alignment
- Winches & Bollards: Support for towing operations
- Verification of reinforcement structure for the connection part

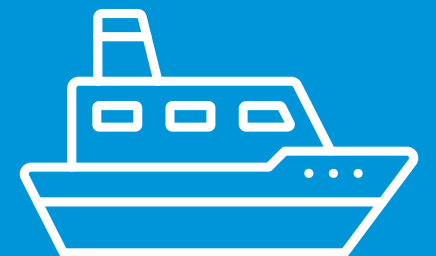


Towing system

The towing system is a key component designed to stably withstand the loads generated during purse seine operations and maintain net tension.



- Bow Towing Fitting
- Central Control Area
- Stern Work Section
- Engine Inspection Access Point



Deck Configuration

It is important to configure the deck so that the paths for towing lines, worker movement, control positions, and engine inspection routes do not overlap.



- Ensuring forward and lateral visibility
- Control Accessibility
- Deployment of communication and signaling equipment
- Efficient inspection and maintenance access



- Stability during low-speed towing
- Direction-changing responsiveness
- Power transmission efficiency
- Consider maintenance accessibility



Cockpit

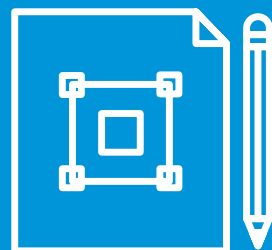
The wheelhouse is designed with a focus on visibility and ease of operation, enabling quick monitoring of the vessel, the net, and the towing lines. It must allow for easy checking and operation of key equipment, even during repetitive fishing operations.

Propulsion System

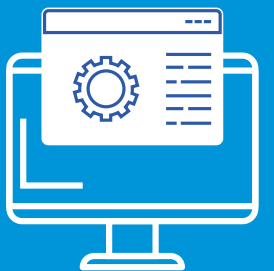
Skiff boats require stable propulsion responsiveness, as they need to maintain their position and return quickly while casting nets.



- Towing Route and Operational Clearance
- Protection of fenders and outer plating
- Non-slip deck
- Check recovery and lifting points



- Net end towing and station keeping
- Maintain a safe distance from the main vessel
- Buoy line and net tension aid
- Support for the retrieval path during the net hauling phase



Safety Design

To mitigate risks that may arise during towing line handling, alongside-vessel operations, loading the skiff onto and retrieving it from the main vessel, both the workspace and protective structures are evaluated.

Work Process

In purse seine fishing, the skiff holds the end of the net and maintains a distance from the main vessel, assisting to ensure the net-casting, encircling, and retrieval processes proceed without interruption.

Product Strengths

Drawing on HAEDONG’s experience in manufacturing aluminum vessels, we can propose structural designs and equipment layouts tailored to specific operational environments.

Aluminum shipbuilding capabilities

Custom Design and Manufacturing

Consideration of on-site workability

Production based on quality control

Product Options

Options vary depending on the fleet operation method, vessel loading method, fishing grounds, and towing equipment configuration.

Towing Equipment Package

Selection of Propulsion System

Deck and Fender Configuration

Safety Equipment and Custom Fabrication

Key Specifications

Texture	AL5083/6061	Implementation Method	Fixed-pitch propeller TYPE
Ceiling	11.97 m	Main engine	YANMAR 6HYP-WET
Width	6.44 m	Engine output	총 1,200HP (600HP × 2)
Depth	1.62 m	Crew complement	5 people
Gross Tonnage	15 tons		

Detailed Specifications

Division	Item	Specification	Note
Hull	Material	AL5083/6061	Application of aluminum hull
Hull	LOA	11.97 m	Length overall
Hull	Breadth	6.44 m	Breadth
Hull	Depth	1.62 m	Depth
Scale	Displacement	15 tons	Gross tonnage
Propulsion	Propulsion Type	Fixed-pitch propeller TYPE	Fixed propeller
engine	Main engine	YANMAR 6HYP-WET 27l	2 engines
engine	Engine output	총 1,200HP	600HP × 2
Operation	Crew	5 people	Crew capacity

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.

»» Scope of Certification: Construction and repair of aluminum vessels; design and manufacture of vessel components.



ISO 9001:2015
Quality Management System



ISO 14001:2015
Environmental Management System

Key Achievements

PRODUCT	YEAR	CUSTOMER
Jang Bogo	2023-07	Dongwon Industries
Sprinter's Creed	2023-07	Silla Trading
Ocean Acer Performance Improvement	2023-08	Dongwon Industries
40-Ton Bada Gaon Commercial Unit Repair	2023-08	Masan Regional Office of Oceans and Fisheries
Global Performance Upgrade	2023-09	Dongwon Industries
Ocean Master Performance Improvement	2023-11	Dongwon Industries
GBK No. 3 Hull Repair	2023-11	Busan Shipbuilding
WATER JET INTAKE	2023-10	MJP
AL LADDER	2024-05	Selpa-ENC
STP CONTAINER	2024-08	Locadi
NET BOAT(7M) creed	2024-10	TPJ(Philippines)
NET BOAT(7M) repair	2024-10	Dongwon Industries
NET BOAT(6M) creed	2024-12	Dongwon Industries
DECK HOUSE(Ungjin County Fisheries Patrol Boat)	2024-10	Kumgang Heavy Industries
DECK HOUSE(Ungjin County Fireboat)	2024-10	Asia Shipbuilding