

35

*Premium Cruiser*  
PONAM-35

TOYOTA







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*Exterior*

### Flush-surface windows

Designed with beautiful curves, the flush-surface windows and side windows have a graceful form, providing a clear distinction from other boats. In addition, the front windshield is installed with UV-filtering green glass, protecting your eyes and skin from ultraviolet rays.



### Flybridge

The uniquely curved flybridge can seat five. While two can sit on the comfortable forward-facing front bench, the one-person watch seat provides a view of the surroundings.



### Helm station

The helm station is designed with gentle curves. The driver's seat and navigator's seat are laid out to allow easy maneuvering as well as good communication with the aft deck.



### Cabin door

With careful attention to easy accessibility between the cabin and deck, the UV-filtering door utilizes a design that allows the focus to be directed on the beautiful rear view. In addition, the large eaves are designed to provide protection from the sun and rain.



### Aft deck

With plenty of deck space and a considerable bulwark height, the many pleasures of the sea can be enjoyed in comfort and safety.

### Aft deck storage

A total of three storage spaces, one in front of the stepladder and one on each side, ensure even greater use of the aft deck.



### Washbowl/sprayer

A washbowl and sprayer are standard features. The pull-out spout can be used for a variety of applications.



### Swimming platform/stepladder

The spacious platform is designed to allow convenient access to the sea.



\*The photos may contain objects for display or optional parts.





### Cabin

Upon taking one step into the cabin, its stylish space imparts a feeling of extraordinary luxury. With an overall black tone, silver is used effectively to stage an adult space. This open space allows you to enjoy quality time in your own way.



### Sofa

The L-shaped sofa has a sophisticated design with silver piping on a black background. It has plenty of space for five people to relax, or four can enjoy a good time gathered around the table.



### Owner's room

A private space for the owner is maintained in the bow berth. Its spacious bed and storage space as well as convenient side tables allow you to spend personal time in comfort.



### Galley & refrigerator/freezer

Arranged at the back of the cabin, the galley is laid out to include a sink, storage compartments, shelves and a microwave oven as well as cooking space in order to make cabin life enjoyable. In addition, a pull-out, large-capacity refrigerator/freezer is provided below the sink.



### Lower helm

The lower helm is situated in the cabin. Unaffected by seasonal or weather conditions, it allows comfortable maneuvering.



### Storage

In addition to the storage under the sofa and the bow berth hanging locker, efficient use of space ensures plenty of storage areas.



Storage under sofa



Bow berth hanging locker

### Head

The electric marine toilet, sink with mirror and shower are efficiently laid out. The storage spaces ensure that the area remains uncluttered.





35

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WOOD SERIES







*Premium Cruiser*  
**PONAM-35**  
*WOOD SERIES*



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Marinizing the Land Cruiser engine—  
delivering the reliability refined for automobiles  
so you can enjoy the sea

### ■ Marine engine

The V8 4.5 l direct-injection turbo diesel engine, which provides a high output and low fuel consumption, brings comfortable cruising to a higher level.

### New TOYOTA M1VD-VH D-4D\*

\*D-4D: Direct Injection 4 Stroke Common Rail Diesel Engine

Newly developed V8 common rail engine—  
the first such engine for domestically manufactured pleasure crafts

#### ► High output and low fuel consumption

By utilizing common rail and DOHC 4-valve systems in addition to optimizing the compression ratio, a greater balance between higher power and lower fuel consumption is achieved.

#### ► Improved noise reduction

By utilizing 8 cylinders in a V arrangement and high-precision fuel injection control, low vibration as well as low noise are achieved.

#### ► Lightweight and compact

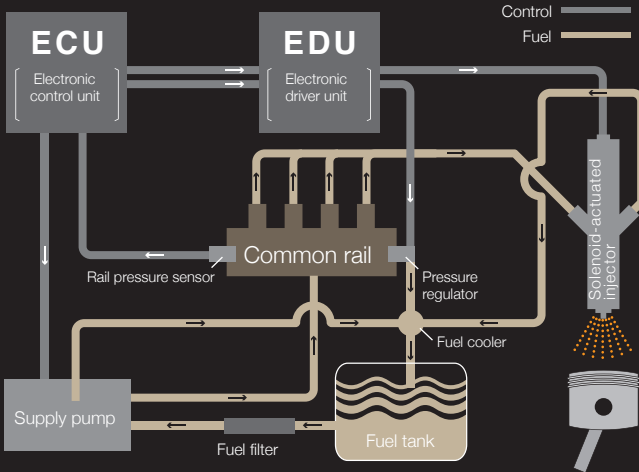
By utilizing DOHC 4-valve-compatible aluminum heads and optimizing the installation positions of the heat exchanger and intercooler, a drastically lighter weight and greater compactness are achieved.



- Cylinder arrangement/number: V / 8
- Cylinder stroke x bore: 86 x 96 mm
- Displacement: 4,461 cc
- Maximum power: 272 kW (370 PS) at 3,800 rpm
- Maximum common rail pressure: 180 MPa
- Valve train: DOHC 4-valve chain & gear drive
- Supercharging method: Turbocharger (twin)

#### ► Common rail system

The common rail system stores high-pressure fuel in the common rail via the supply pump, which supplies fuel, then injects the fuel through the solenoid-actuated injectors. Sensors detect the engine condition and a computer controls the fuel injection timing and quantity in order for the engine to operate under ideal conditions, greatly reducing the production of black or white smoke at engine startup or during acceleration.

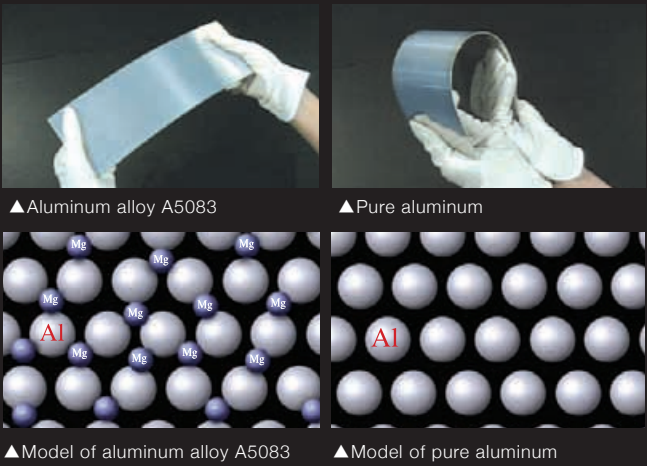


An aluminum hull that provides a safe and  
comfortable ride—  
delivering an unprecedented sense of security

### ■ Aluminum hull

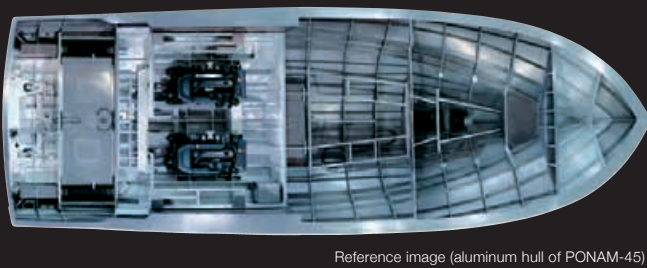
High-strength aluminum alloy A5083—also used in  
aircraft

A5083 (JIS H-4000), which is used by Toyota Marine for their aluminum hulls, boasts a particularly high strength among the many types of aluminum. This aluminum contains approximately 4.5% magnesium. The surface of aluminum has a strong intrinsic rust-resistant property since it is protected with an oxidized film; however, by adding alloy components, starting with magnesium, the corrosion resistance and strength of the aluminum have been dramatically increased. This alloy is highly regarded in the construction of welded structures, such as aircraft, “Nozomi” bullet train cars and, of course, ships. By using aluminum alloy A5083, Toyota Marine’s aluminum hulls quickly absorb the impact, vibrations and noise of waves, providing comfortable cruising.



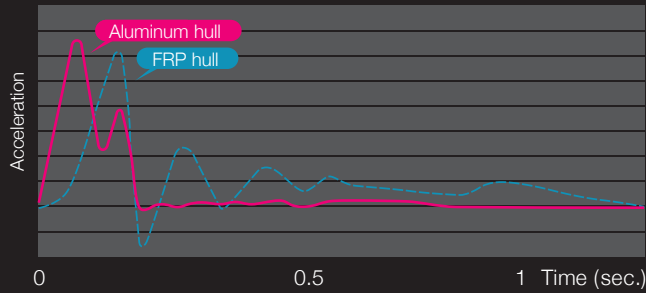
Highly rigid aluminum frame construction absorbs  
even the fear of waves

The aluminum frame construction adopted by Toyota Marine for the hull, while absorbing as much as possible of the impact load from waves, effectively disperses it to the entire hull frame to minimize warping and bending of the entire hull. In order to achieve this, every component had to be optimally positioned for each area, i.e., keel, chines and beam. Furthermore, with feedback from data obtained through impact simulation analyses and numerous tests, impacts are better dispersed, compared with FRP, and vibrations are quickly reduced to create a comfortable ride, bringing a sense of security not experienced with FRP.



Damping characteristics of vibration acceleration due  
to waves

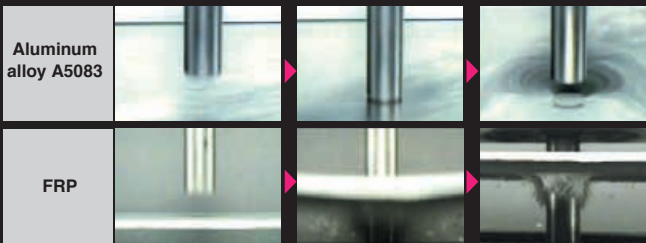
An aluminum hull with excellent seaworthiness absorbs the impact of waves throughout the entire hull. In this way, the impact value of the wave is reduced in a very short time, decreasing the vibrations and impact transferred to passengers, thereby providing a comfortable ride.



Another secret of high strength— rolled aluminum

In order for the aluminum hull to be imparted with the optimum strength and impact resistance, Toyota Marine uses rolled aluminum alloy sheets. Since rolled aluminum not only has excellent strength but also is resistant to external stresses as well as fractures, compared with other materials such as fiber-reinforced plastic (FRP), it is safer and the optimum material for vehicles traveling at high speeds.

[Impact comparison testing]



High-precision machining utilizing water-jet cutting

The aluminum hull of the PONAM-35 is created utilizing water-jet cutting. Since this cutting method enables machining with an accuracy of 0.1 mm, strain can be reduced more than ever, even when welding aluminum cut with a water jet, providing greater functionality, compared with conventional aluminum hulls.



Delivering stability and optimum balance while  
maintaining the impression of the high center of  
gravity of a flybridge boat

### ■ Righting moment

Minimizing rolling for an optimal ride

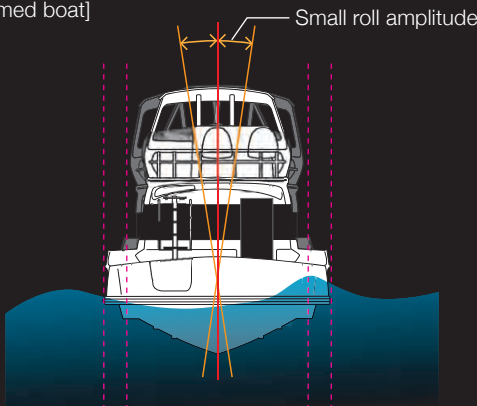
One criterion in the stabilization of the hull is the righting moment, which is closely related to the roll period. The righting moment is the force that returns a tilted hull to its original stable position. The roll period is the interval of rolling and returning to the original position.

Righting moment and roll period

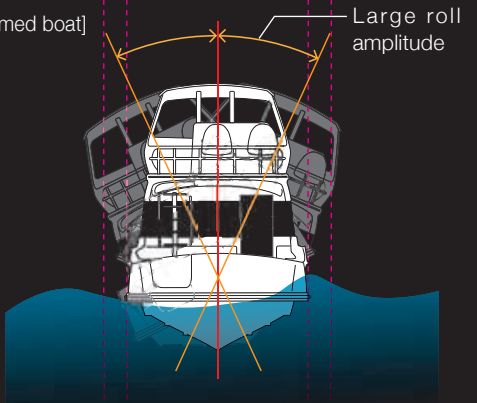
Basically, as far as the righting moment is concerned, a broader beamed boat will have a shorter roll period. This means that a small roll will seem stronger. Therefore, if the righting moment becomes too strong, the roll period will become shorter and even a small wave will induce rolling, causing a large amount of stress, including on the ride. In contrast, if the righting moment is too weak, the roll period will become longer, resulting in the boat taking a longer time to return to its original position, which causes feelings of instability and that the boat will capsize. In addition, there is a strong possibility that the boat will capsize if it is hit by a crosswind causing it to tilt a great deal or if it is hit by a large broadside wave.

Toyota Marine has determined and achieved the optimum roll period and righting moment to spare passengers of PONAM-35 any feelings of discomfort. Having minimized rolling as much as possible, we can promise a stable ride.

[Broad-beamed boat]



[Narrow-beamed boat]





World-class Toyota control technology—ensuring new joys of the sea

■Auto flaps

This is Toyota’s proprietary hull control system that automatically operates the flaps, which is difficult even for experienced operators. The boat attitude is detected by various sensors and kept optimal through appropriate operation of the flaps while the impact from waves is reduced.



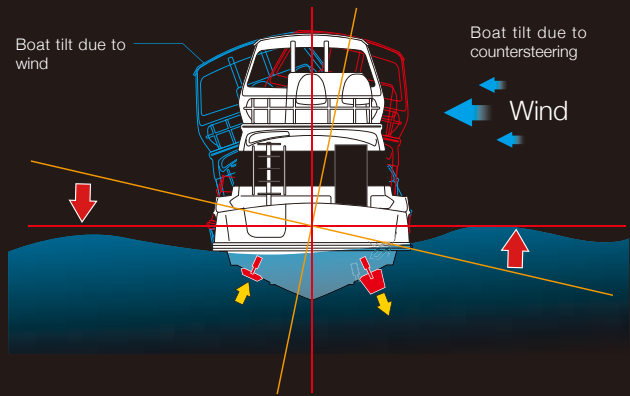
Automatically adjusts the trim angle to maintain the optimum planing attitude.

When the boat takes off, the flaps activate to prevent the bow from rising. In addition, the optimum planing attitude is maintained while underway.



Automatically adjusts the heel angle to maintain the optimal boat position.

The hull tilt that occurs as a result of crosswinds or countersteering is automatically detected by the auto flap system, which operates the left and right flaps to adjust the boat to its optimal traveling attitude.



■Toyota Drive Assist

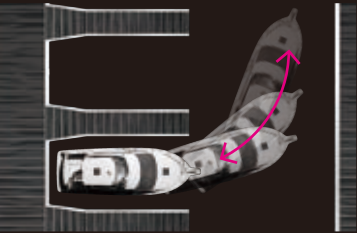
The flybridge is equipped with a joystick and bow thruster switch. By using an innovative system that allows you to move this inboard boat forward and backward as well as in all other directions with a single joystick, you can safely and smoothly perform difficult docking and undocking operations while observing the current and wind direction in a marina. The electronic control perfectly balances the bow thruster and two propellers, providing unprecedented freedom of movement. In addition to providing full command of movement in all directions as well as 360° turning, you can turn the boat on its bow or stern. Furthermore, you can make subtle speed adjustments depending on how much you move or rotate the joystick. The bow thruster can also be operated independently.



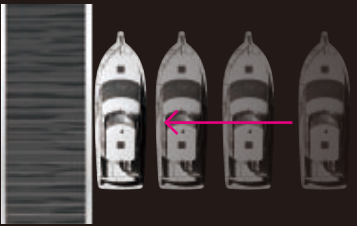
Joystick

Bow thruster

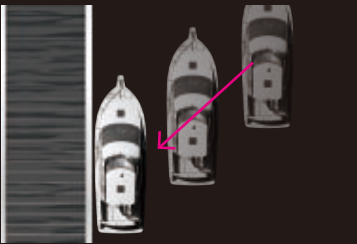
Moving the joystick forward moves the boat forward; moving the joystick backward moves the boat backward. Since you have full command of backward movement, you can dock as though you were parking a car.



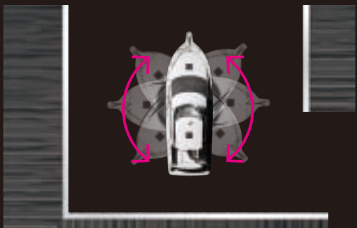
Moving the joystick directly to a side moves the boat laterally.



Moving the joystick diagonally moves the boat in the joystick direction without changing the orientation of the bow. Since the boat can be moved in any direction, docking operations can be performed smoothly.



Turn the boat by rotating the joystick knob in the direction that you wish to turn. The propellers on both sides rotate in opposite directions turning the boat 360° on its center.



Toyota Marine technology—focusing on creating a cozy space

■Joyful Talk

The high-performance microphone and speakers allow for safe and easy conversation between the cabin and flybridge. While you are talking, the volume of the audio system is automatically lowered, providing higher quality communication.



■AM/FM radio with CD player

Enjoy a pleasant musical environment provided by various music sources, not only from the radio and CD player, but also from an iPod or MP3 player connected via USB.

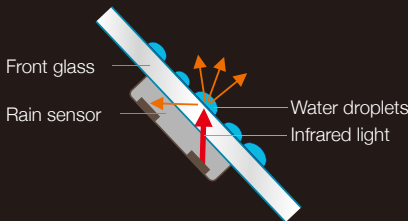


■Rain-sensing semi-automatic wipers

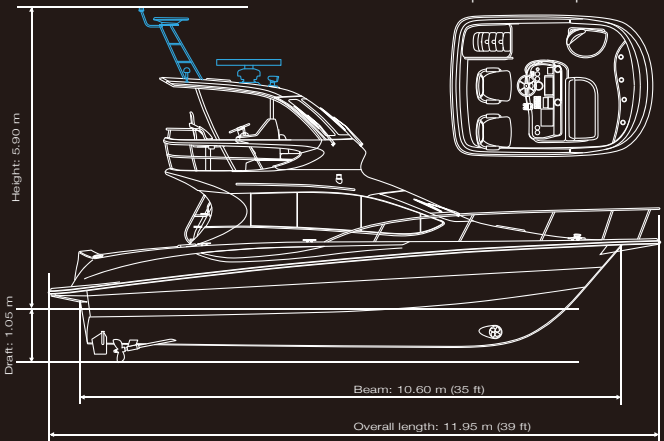
The rain sensor positioned on the front glass detects the amount of water droplets from spray or rain, and then wiper operation is automatically controlled to ensure a clear view. They can also be operated manually.



(Only on the flybridge)



When water droplets form on the surface of the glass, the reflection of the infrared light, which normally is totally reflected, disperses, and the reduction in the received light is detected, causing the wipers to be operated.

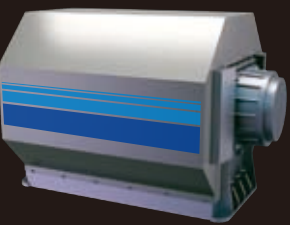


■Options

LED TV



Anti-rolling gyro



Without a lower helm

