



**SEAMAGINE**  
HYDROSPACE CORPORATION

## **SEAmagine Hydrospace Corporation**

*Leading Submersible Technology  
for Over 20 Years*



*Personal  
Submarines  
& Submersibles  
for Professionals  
& Luxury Yachts*



[www.seamagine.com](http://www.seamagine.com)

California, USA

196  
204



## SEAMAGINE'S AURORA SUBMERSIBLES



SEAmagine's innovative Aurora technology is a revolutionary approach to submersible design, maximizing the field of view of the spherical cabin and providing an unparalleled vista. The occupants have a view, unobstructed by top hatches and side pontoons, that provide the sensation of entering the underwater world, as opposed to simply observing it.

When floating at surface the submersible has a high freeboard with a stable platform for people to walk on. Telescopic handrails come up from the top deck to provide a safe environment for people to board in a variety of sea states. The Aurora offers a solid and straight back stern designed to securely dock to the support ship at surface, further improving safety and logistics.

## TAILORED SOLUTIONS FOR EACH SHIP

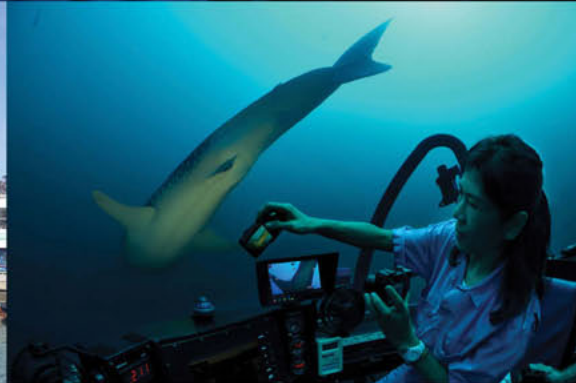


SEAmagine understands well that each ship is unique and incorporation of a submersible requires special attention. In most cases, a rigid, generic, off-the-shelf submarine configuration will not meet all the requirements sought after.

SEAmagine engineers look at each client ship individually and study the best optimal solutions to integrate its submersibles, ensuring at the same time that the owners main visions and goals are met. This semi-customized approach offers clients the optimal submarine configuration for their ship based on SEAmagine's 20 year design history, well proven subsea technologies, and solid track record in the field.

The best first step for any ship interested in incorporating a submarine is to discuss with SEAmagine's experts the goals and parameters sought after. From the prime parameters our team can then provide the optimal submarine configuration specific for the given ship, and ensure that goals are met and all aspects are well thought out.





## SEAmagine's Long History of Professional Excellence

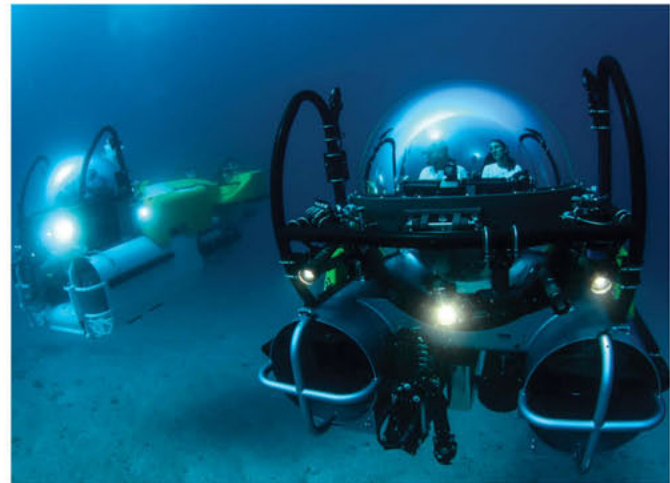
### PROVEN TRACK RECORD

SEAmagine is a California based company established in 1995, and a leading manufacturer of small personal submarines and professional submersibles with over 12,000 dives accumulated by its existing fleet. The company produces submersibles for depths from 150 meters to 1500 meters deep. All of the company's submersibles are classed by the American Bureau of Shipping (ABS) and approved by the Cayman Islands Shipping Registry (CISR).

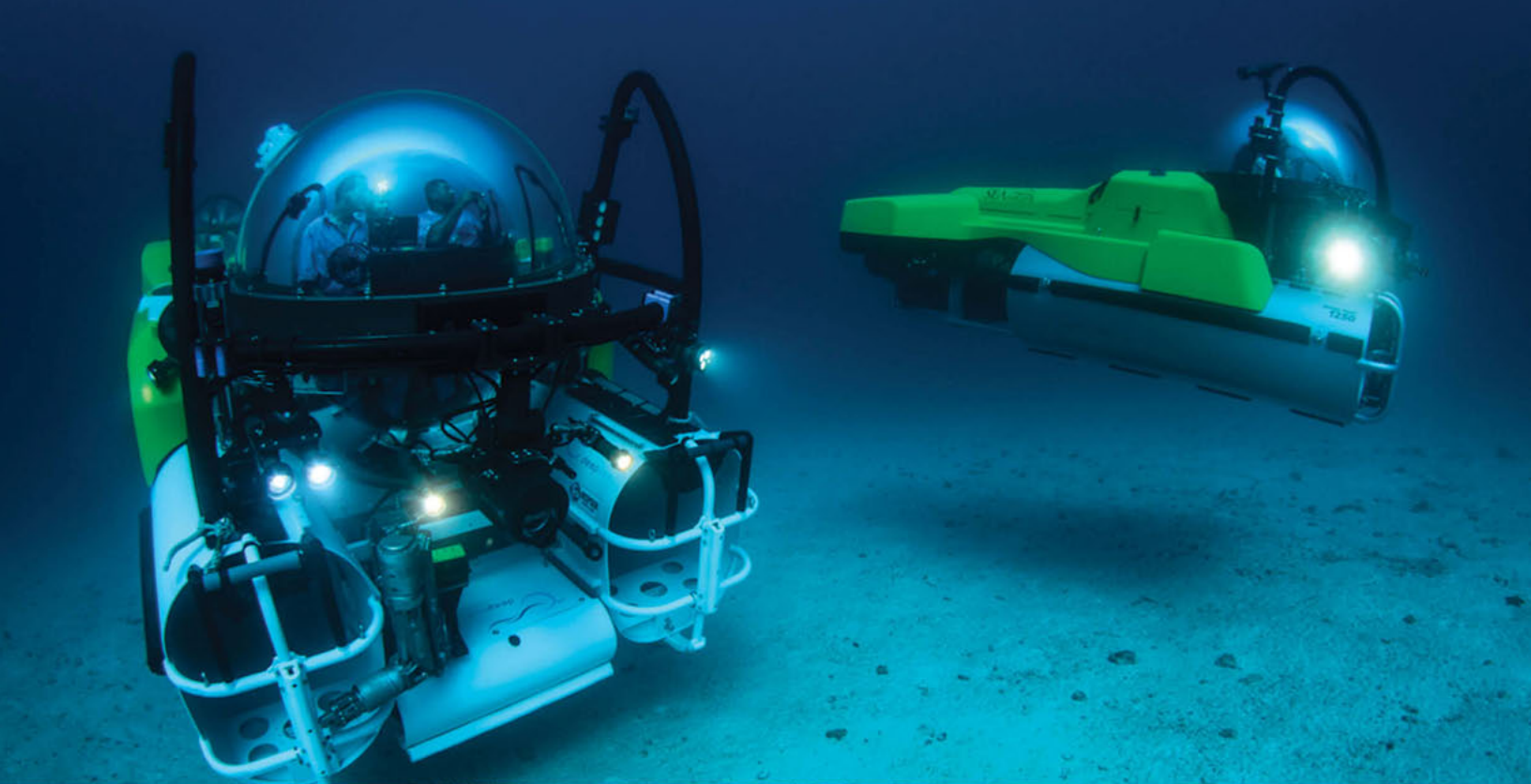
SEAmagine's submersibles have been used on many scientific, commercial, and superyacht projects and have also been used in National Geographic, BBC, and other numerous film expeditions. SEAmagine has a perfect safety record and a solid track record in reliability and practicality in both the superyacht and professional markets.

### UNIQUE PROFESSIONAL EXPERTISE

The company's long history and innovative designs have demonstrated time and again the safety, utility, and dependability of its submarines. This is achieved through a total commitment to safety, high quality standards, and elegant engineering. SEAmagine has extensive operational heritage gained over the past 21 years with thousands of dives on its submarines in a wide range of adverse conditions and remote locations. All these factors have continuously honed the quality and reliability of SEAmagine's submersibles, now carried over into the company's Aurora designs.







## **SEAmagine has strong dedication to all its clients and a proven track record in service quality & dependable support**

### **WELL STRUCTURED PILOT & CREW TRAINING PROGRAM**

The company developed its initial personal submersible pilot training program in conjunction with the US Coast Guard in 1999. From this base, the program has expanded over the years, and is today an extremely well-structured and proven training process. The objective of the training program is not only to have trained pilots of the submersibles, but to also ensure that the full crew of the ship is familiar with the overall operation and its contingencies. The training is typically performed on the client's ship, with the delivered submersible, to ensure that the setup and all operational aspects specific for the given ship are covered and well-rehearsed.



### **RELIABLE LONG TERM CLIENT SUPPORT**

SEAmagine has a long standing and effective Annual Technical Support Program that it offers to all of its clients, providing unlimited technical support from its head office as well as onsite field support. This technical support program covers SEAmagine's annual preventive maintenance program for its submersibles, which involves performing a full servicing once a year, coordinated with the vessel's required Classing Society and Flag State annual surveys.



# SEAMAGINE MAIN MODELS

## OCEAN PEARL

Highly Practical & Professional

OCCUPANTS: 2 Person  
DEPTH RATING: 150 m - 1000 m  
DIMENSIONS: L4.53 m x H2.25 m x W2.44 m  
DRY WEIGHT: 3250 kg - 5000 kg

*Size weight can be customized*



## AURORA-3C

Compact Size & Light Weight with Comfort

OCCUPANTS: 3 Person  
DEPTH RATING: 470 m  
DIMENSIONS: L3.35 m x H1.85 m x W2.50 m  
HOIST HEIGHT: 1.65 m  
DRY WEIGHT: 3800 kg

*Size weight can be customized*



## AURORA-3

Deep Diving Capacity & Exceptional View

OCCUPANTS: 3 Person  
DEPTH RATING: 300 m - 1500 m  
DIMENSIONS: L3.71 m x H2.40 m x W2.79 m  
DRY WEIGHT: 5556 kg - 6690 kg

*Size weight can be customized*



## AURORA-5

High Comfort & Exceptional View

OCCUPANTS: 5 Person  
DEPTH RATING: 300 m - 1000 m  
DIMENSIONS: L4.37 m x H2.40 m x W2.79 m  
DRY WEIGHT: 7484 kg

*Size weight can be customized*



## AURORA-6

Ultra-High Comfort with Lounge Seating

OCCUPANTS: 6 Person  
DEPTH RATING: 300 m - 1000 m  
DIMENSIONS: L5.93 m x H2.31 m x W2.90 m  
DRY WEIGHT: 14,500 kg

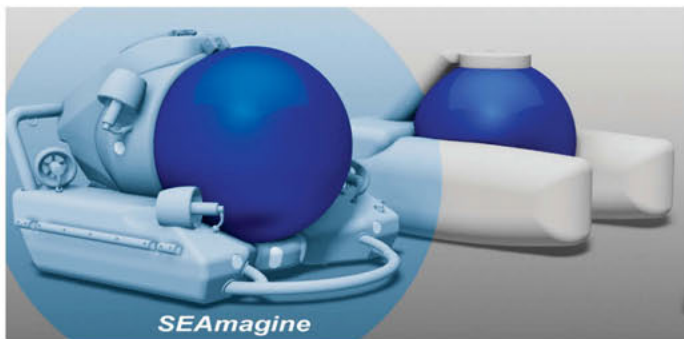
*Size weight can be customized*







## SEAmagine Submersibles Cover The Important Points That Need To Be Considered For Any Operation



### WHY SUBMERSIBLE GEOMETRY MATTERS

The Aurora's field of view is greatly enhanced by moving the access hatch away from the top of the window into a separate compartment behind the main cabin. Its unique ability to tilt at surface provides an extremely stable platform for boarding, which does not require obtrusive forward pontoons that severely restrict peripheral viewing. A specifically designed aft section provides an ideal docking configuration that can be firmly secured as opposed to some awkward geometry. This well thought out approach, derived from experience and ingenuity, is important in ensuring safety and comfort for boarding, even in rough sea conditions.



### ESSENTIALS FOR PASSENGER COMFORT

Passenger comfort is not simply defined by how large the cabin size is but, as the Aurora model offers, it begins with the ease and safety of the boarding process. A large access hatch, comfortable and spacious seating configuration, reliable environmental controls with air conditioning, and a panoramic field of view unobstructed by any top hatch or side pontoons, all add up to deliver a truly exceptional underwater experience.



### SPACIOUS CABIN & ADJUSTABLE SEATS

The Aurora cabin is accessed through the top hatch, and down the staircase and stairs built into to the cabin floor, leading to the seats. The seats are adjustable such that they are always comfortable as the submersible changes attitude from its surface docking position to its underwater diving position. The center pilot seat folds away during boarding of passengers.





## WHY SURFACE LOGISTICS ARE PARAMOUNT

The ease and safety of submersible operations is primarily defined by surface logistics. SEAmagine's remote external controls allow the submersible to be maneuvered at surface without the need to even open the cabin, drastically simplifying surface logistics. The ability to tow a submersible effectively expands the possibilities of operating at remote dive sites away from the mother ship. The Aurora is designed to be towed backwards, thus protecting the acrylic cabin, and the angled orientation helps to lift the submersible out and on top of the water as opposed to digging into it, increasing the efficiency of the operation.



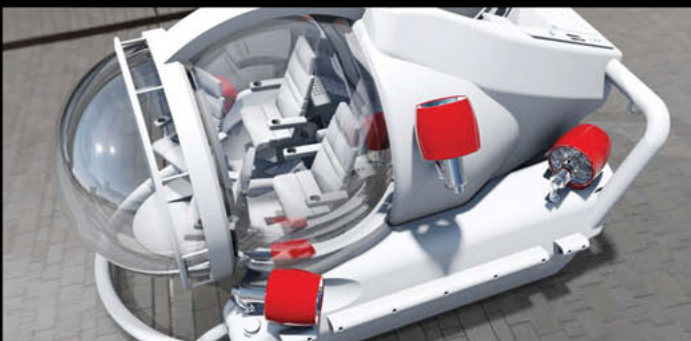
## SAFE BOARDING

When floating at surface, the Aurora offers a solid and stable platform with a high freeboard and a horizontal walking deck, assisted with telescoping hand rails, to guide the boarding process to the large top hatch. The purposely designed stern provides a secure docking arrangement to enhance the convenience of the boarding process, critical for rough weather operation.



## IMPORTANCE OF OPERATIONAL ROBUSTNESS

Sea conditions can be unpredictable and although a dive may begin in ideal conditions, it may end in inclement weather. Besides the need for the safe transfer of passengers, the vessel needs to be securely docked and recovered on the mother ship. In high winds and seas the submersible needs to be robust enough to survive without damage. SEAmagine submersibles have a long successful history of operating in a range of adverse conditions and remote locations, and that heritage is carried over into the Aurora design.



## IMPORTANT PROPULSION CONSIDERATIONS

In addition to having high power thrusters, it is important to have excellent maneuvering capability in all directions and not simply top forward speed. The Aurora, with a speed of over 3.5 knots, has 6 vectored thrusters that allow the craft movement in all directions on the horizontal plane, including directly sideways and rotation around the center axis. Furthermore, the vectored vertical thrusters allow vertical maneuvering up and down, as well as sideways descent and ascent giving the ultimate handling configuration.



## A CRUCIAL INGREDIENT - PROVEN LONG TERM TECHNICAL SUPPORT

SEAmagine has been supporting its clients for the past 20 years and established a solid training program for submersible pilots, support crew, and ship engineers. The need and requirements of clients around the world vary continuously and the owners, captains, and crew need reliable support from their submersible manufacturer. SEAmagine has pioneered this necessity from its inception, and has a documented track record established over many years.





# SEAmagine

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