

**sonitus**  
engineering solutions



# Deep Waters Are Not That Deep Anymore

Innovative Tech Company  
[sonitus.com.tr](http://sonitus.com.tr)

## Welcome

With our advanced production and engineering experience, we continue to develop new industrial technologies required by the era.

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“SONITUS Engineering is a company that continues its design activities in Teknopark İstanbul and GOSB High tech which produces its products in the Factory in Dilovası İMES

SONITUS Engineering serves with superior technology, high brand quality and a dynamic and experienced staff in many fields, especially in the Defense, Maritime and Marine Construction Industries

SONITUS Engineering takes part in important projects by offering technology based solutions and products In this context, it continues its R&D activities intensively and produces new methods and solutions with its innovative structure.





## Narval 1006

Narval 1006 is an autonomous underwater vehicle that is developed for gathering long term data in changing depths from deep oceans to shallow waters with the ability to scan wide areas.

Narval which can operate in a fleet underwater, has been designed and produced with durability and robustness in mind.

Missions such as exploration, observation, mapping, intelligence, defence and research can be performed at the same time.

At the rear end of the Narval 1006, a system has been designed to enable dive and surface maneuvers in water. With this mechanism, diving and surfacing can be performed easily.

A bespoke battery pack is used for pitch motion of the vehicle.

By moving this specially designed battery pack back and forth, the vehicle can quickly switch from diving to surfacing or vice versa. The horizontal maneuvers are directed by the rudder.

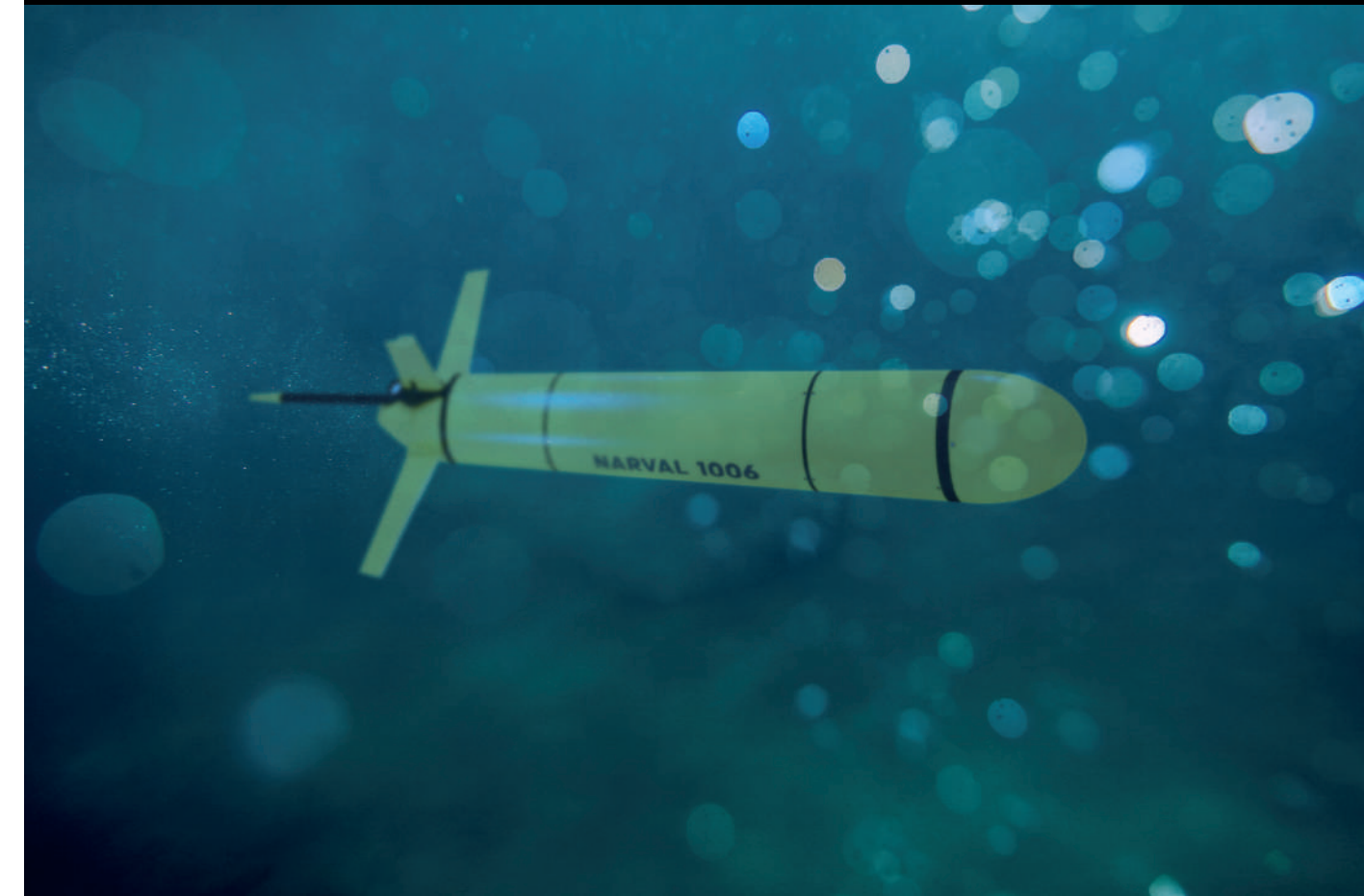
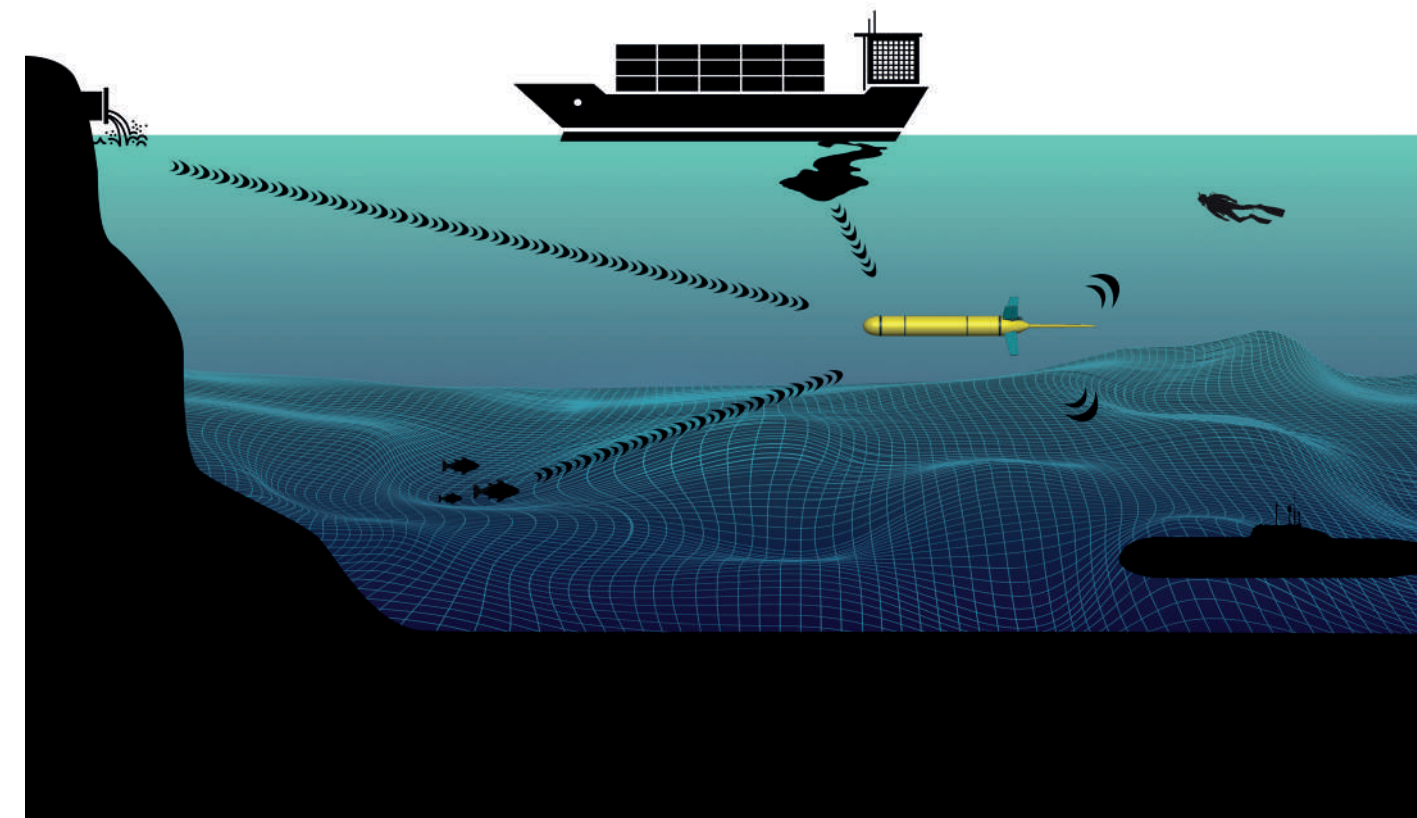
Dive and ascent movements can be optimized reproducibly in desired periods.

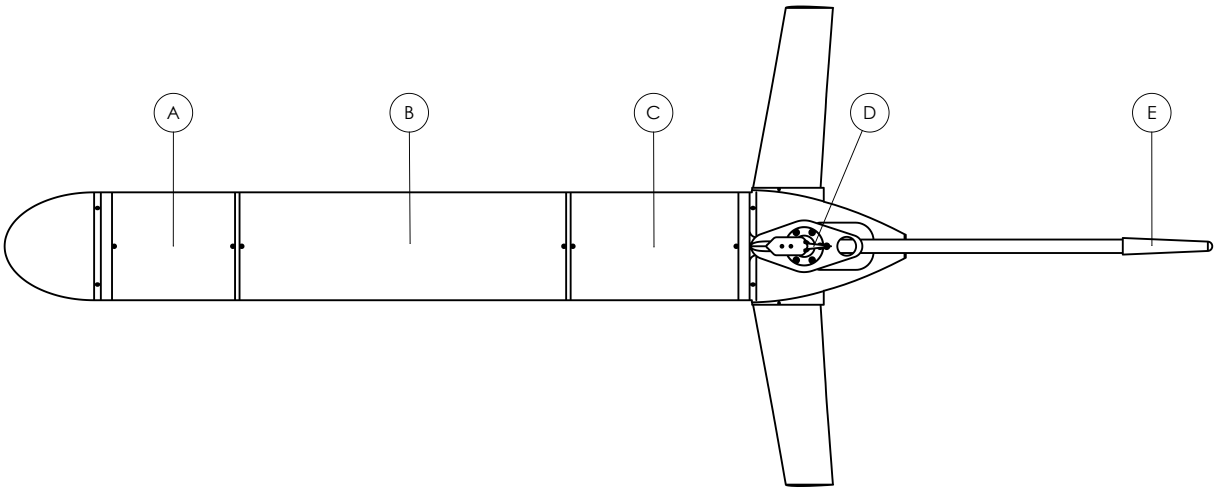
Narval 1006 cruises systematically through the water in its sawtooth motion. It is equipped with integrated sensors to measure the depth of the water. Desired sensors can be mounted on the payload section designed according to the purpose. Thus, all the data obtained can be transmitted to the control center and analyzed with the vehicle that comes to the surface at desired intervals.

**1000 M**  
**DEPTH**  
**RAITING**

**6**  
**MONTHS**  
**ENDURANCE**

## Technical Specifications





# Technical Specifications

- A - Sensor Payload Module
- B - Battery and Pitch Motion Module
- C - Buoyancy Control Module
- D - Rudder
- E - Antenna



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## COMMUNICATION / NAVIGATION

- Iridium Antenna
- RF
- Wi-Fi
- GPS
- Pressure Sensor
- Altimeter
- IMU
- Dead Reckoning

## MECHANICAL SPECIFICATIONS

- Length: 2.00 meters
- Length with antenna: 2.70 meters
- Wing Span: 1 meter
- Body Diameter: 240 mm
- Weight in air: 60-75 kg

## OPERATION

- Depth: 1000 meter
- Speed: 0.5 m/s
- Endurance: 6 Months



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Sonitus reserves the right to make changes to the models and specifications in this brochure without prior notice.