





**ANADOLU  
ROBOTİK**





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ROBOTIK**

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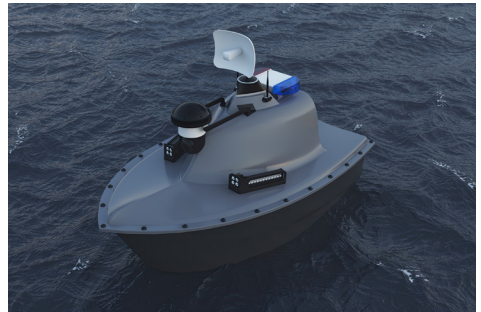
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## 30 CONTACT



# ABOUT US

As Anadolu Robotik company, we are a firm that is experted on aquaculture production and robotic activities. In this field, we provide services with our unmanned underwater vehicle(ARGON) and unmanned mission&patrol boat (ARIDA). Argon is a high performance tool used for underwater exploration and exploration activities. We have an experienced team in multidisciplinary engineering fields such as finite element methods used in the design and manufacture of Argon's mechanical, electronic and software components, robotic software, communication systems, electronic board design. Also, Arida is a tool used in the aquaculture industry and is used for the inspection and control of farms. By having an advanced telemetry system, ARIDA provides farm owners with fast and accurate data. We facilitate your user experience thanks to auxiliary equipment such as control station (ARYON) and pulley system( ARMAS) equipped with our own interface.



# OUR PRODUCTS



## ARGON - Unmanned Underwater Vehicle

As Anadolu Robotik, with the unmanned underwater vehicles(ROV) that we have developed; we aim to reduce the complexity, cost and risk of underwater operations significantly. These ROV's are designed for minimizing the struggles faced and the elements that can endanger human life.

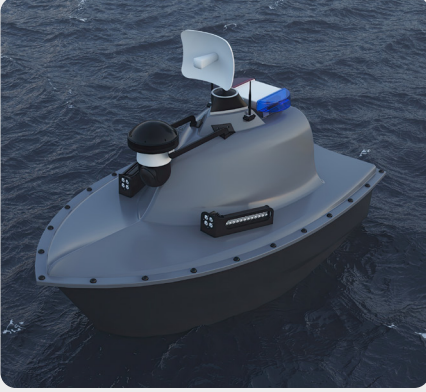
These vehicles, which can take an active role in the wide and complex spectrum of underwater operations, are valuable assistants in underwater pipe and cable laying, inspection operations, underwater construction, maintenance & repair activities. In addition, autonomous or manual operations can be carried out in areas such as underwater sample collection, environmental research and documentary filming.

With these tools, you can make periodic inspections of critical infrastructures such as hydroelectric and nuclear power plants, dam covers and levees more safely, effectively and economically. You can also get a detailed and accurate view of the seafloor with our underwater mapping and verification services. The impressive functionality and variety of our unmanned underwater vehicles help you to reduce operational costs and save time, while making underwater operations faster and more efficient. In this way, Anadolu Robotik's technological innovations offer impressive performance even in the harsh conditions of the underwater world.

# ARGON



# OUR PRODUCTS

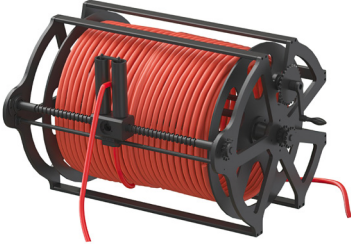


## ARIDA – Underwater vessel

The unmanned mission and patrol boat, designed to eliminate the difficulties and potential risks encountered in sea surface activities, offers both time and cost efficiency, and most importantly, it minimizes the elements that put human life at risk. With its versatile usage capacity: it successfully performs manual or autonomous operations in a number of sectors such as search and rescue, surface safety, cargo transportation, scientific activities, feeding and surveillance activities in aquaculture and underwater mapping. Featuring a high-torque dual electric motor and a choice of composite or aluminum body, this vehicle offers a durable response to operations even in the toughest conditions. Its rugged construction provides protection against obstacles in shallow areas and coastal areas. Its unique design, which prevents it from capsizing even in choppy waters, allows safe movement. Thanks to its modular structure that allows various equipment and sensor connections, it provides the opportunity to customize according to your priorities. In addition, you can carry out all your activities with the dual communication system within an area of 40 kilometers. Thanks to its user- friendly interface and modular structure that allows, it allows you to customize according to your priorities. Its user-friendly interface provides high control capability in surface operations and provides quick responses to your demands. This gives you a pioneering, powerful and efficient performance in above-water areas. Anadolu Robotik sets new standards in the surface world.

# ARIDA

# OUR PRODUCTS



## ARMAS – Spool System

The systematic and disciplined use of ROV cable in underwater operations is vital to the efficiency and success of operations. Considering this situation, Anadolu Robotik offers reel systems to transform your underwater activities into a more organized, safe and effective process. We optimize cable management using a methodical winding procedure. This avoids potential irregularities, simplifies storage and gives you greater control over your underwater projects. ARMAS is an innovative solution that combines these advantages and offers it to you.

# ARMAS



## ARYON – Control Station

In underwater activities, ROV management and data tracking is a critical function of control stations. ARYON Control Stations is a specially configured system for the management of land-based underwater vehicles. These stations allow operators to efficiently conduct underwater missions. Thanks to its compatible design with field operations, you can easily install it in any location, visualize camera and sensor data in detail, and steer your ROV precisely.

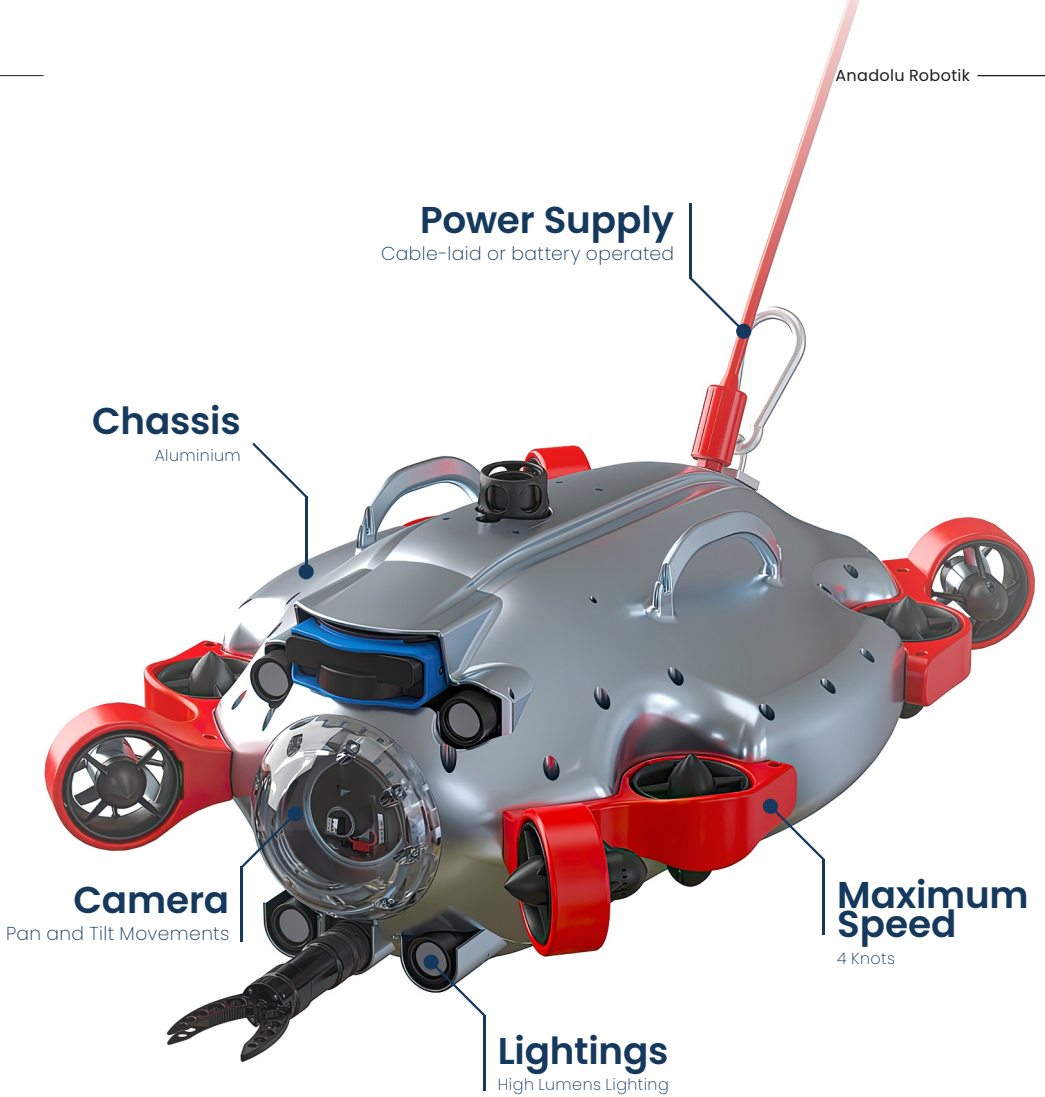
# ARYON



# ARGON

Unmanned Underwater Vehicle





ARGON 600 provides high quality images with dual camera true color technology, allowing you to get detailed and vivid images underwater. With the Sonar feature, it can map the underwater environment and detect objects in muddy waters where the camera image cannot be taken. With its USBL feature, it can travel towards targets and monitor its location by providing precise location determination underwater. The DVL feature ensures stable movement and positioning of the ROV. It can grasp, carry and manipulate objects with its multi-axis manipulator with a changeable mouth.





## Stance Guard Lock

The stance guard lock helps you maintain your position in any direction you move and it allows you to perform your tasks in a more efficient way.



## Wide Angle Vision

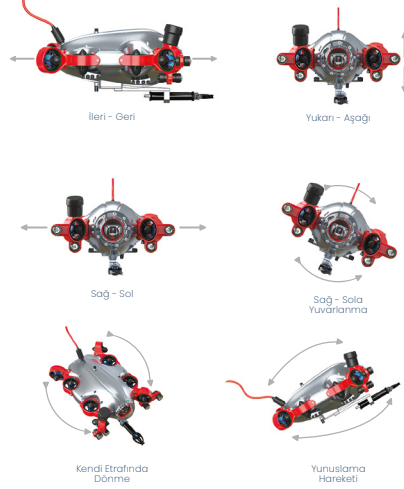
Thanks to the 180-degree wide-angle lens on the camera, you can record everything going on around you with high-quality images.





## Multidirectional Movement

Thanks to its 8 propulsion systems, the device has the freedom to move 360 degrees in all directions and axially. These systems can independently control the speed and direction of the device.



## Multi-Tool Integration

It increases the efficiency of underwater operations by providing the ability to add and operate different tools at the same time with its advanced structure and eight different ports that can be customized for various industry-specific applications.

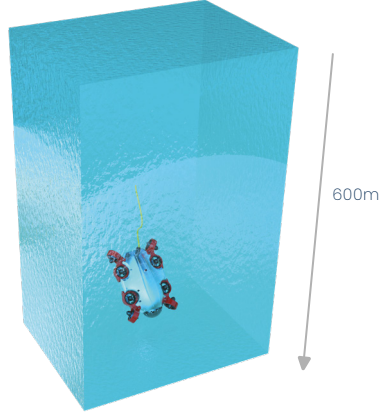






## 600 Meters Diving Depth

It refers to the ability of our vehicle to go down to a depth of 600 meters, and it is very important considering that most of the operations performed in the underwater world are carried out at these depths.



## Underwater Vehicle Lighting

Our unmanned underwater vehicle is equipped with customizable lighting options. These lightings are designed to provide clear vision even in the darkest spots of the underwater world.





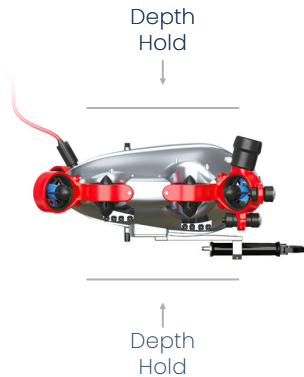
## Ultra HD Camera

The UHD camera of our unmanned underwater vehicle is very important for accurate analysis in underwater operations, thanks to its ability to capture high quality and sharp images.



## Load-Carrying

With its ability to carry a load of up to 10 kilogram, it provides you to interact with underwater for the tasks such as; cleaning in underwater, carrying, specimen handling.

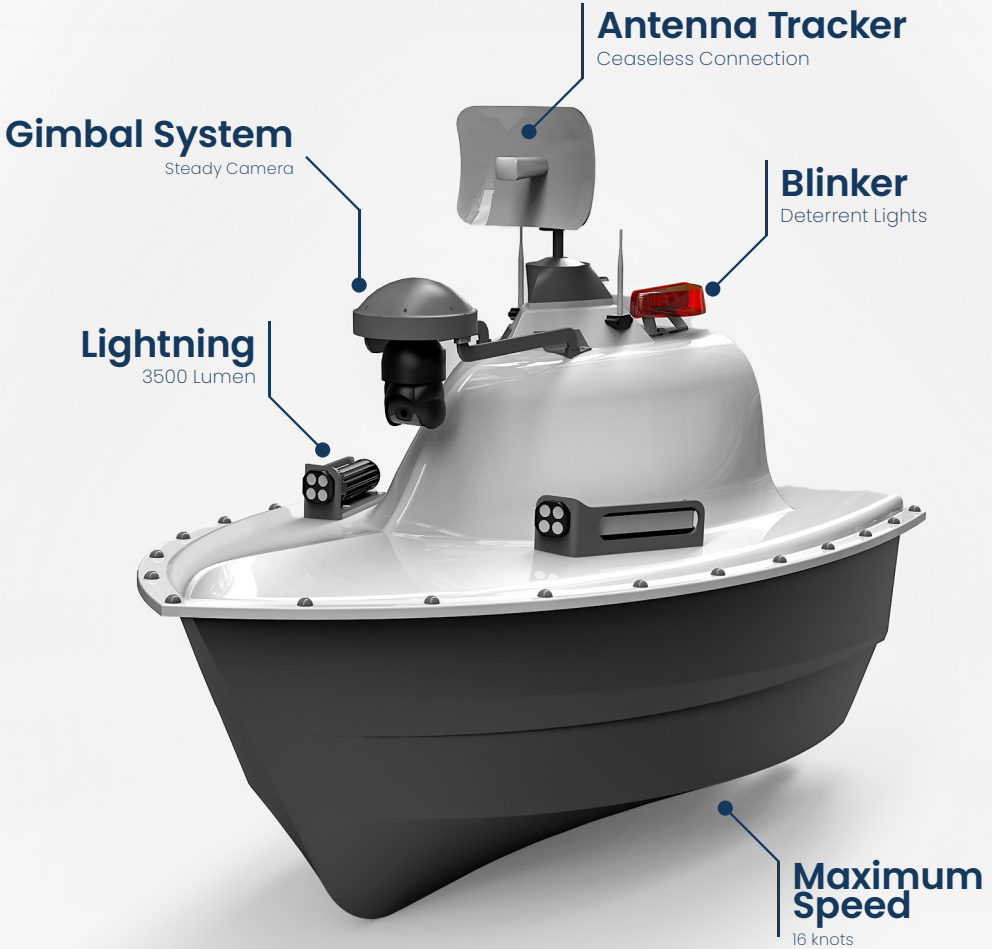


# ARIDA

— Unmanned Vessel —







The developed unmanned patrol boat provides autonomous/manual operations in various areas and solves cost and security problems. Its high-torque engines perform even in harsh conditions with its composite or aluminum body options. The two communication systems cover a 40 km operational area; Its flexible structure makes customization possible. User interface provides fast and efficient control of surface operations.



## Communication up to 40 km

It provides a flexible working area in the operation area with its wireless communication range reaching 40 kilometers. In addition, you can perform your tasks uninterrupted with two different communication systems for security and backup control.



## Carrying 670 kg of Cargo

With a load carrying capacity of up to 670 kilograms, you can collect water samples by mounting equipment specific to your needs on the vehicle, carry loads to desired points or increase your productivity by performing your more specific tasks.





## Stance Positioning Lock

Our vehicles, designed in the “Weeble” model by calculating their volume and weight ratios, will always keep their first stance in case of possible capsizing. Thanks to this feature, they respond to your needs even in difficult conditions such as stormy weather.



## Wide View & Night Vision

270-degree pan and 120-degree tilt capabilities provide ample control. High quality images are achieved with 25x zoom and image customization options; night vision feature provides continuous operation.







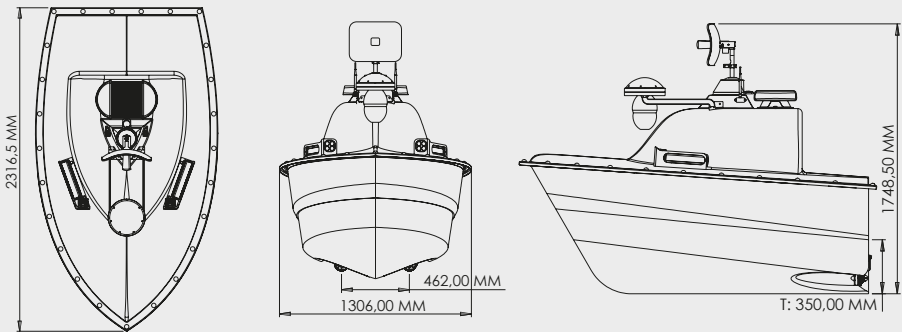
## Object Detection and Tracking

You can use the autonomous navigation feature by defining the desired route from the user interface in the operation area, and you can also make plans by assigning various tasks such as scanning with sensors and sample collection at the points determined on the route.

With the artificial intelligence supported system that enables the detection of various objects and living things through the cameras and sensors on the vehicle, features such as detecting objects and people that pose a security threat, avoiding obstacles in the autonomous cruise route or detecting and tracking different object types are provided to the vehicle.



## Boat Outer Dimensions





# ARYON

Control Station





## Display Options

9, 21 ve 23 inch Screen

## Bright Screen

1000 Nits Screen Brightness

## Customizable

Controller and Buttons

## Internal Storage

1TB Video Storage Capacity

## Durable

P67 Certified Hard Case



ARYON Control Stations is a specially configured system for land-based underwater vehicles management. These stations provide operators with the ability to efficiently conduct underwater missions. Thanks to its design compatible with field operations, it allows easy installation in any location, visualizes camera and sensor data in detail, and steers your ROV precisely.



## Ease of Use

The ground control station has a design that can be easily transported in the field and is simple to use. It allows you to manage tasks more efficiently thanks to the possibility of performing quick installation in the desired area and its easy-to-use interface.



## Durable Case

The body of the control station provides resistance against impact, water, dust and sudden shock damage and vibration (IP67 Protection Class) during transportation and storage.





## Bright and Clear Screen

During field use of the ground control station, high screen brightness is of great importance. A bright and clear display allows operators to comfortably manage underwater missions even in difficult lighting conditions, so you can make the right decisions quickly.



## Customizable Control

All control units ensure the successful execution of underwater missions. With the ability to add and customize these controls specifically for the task, operators can perform sensitive operations more easily and complete tasks more effectively and efficiently.

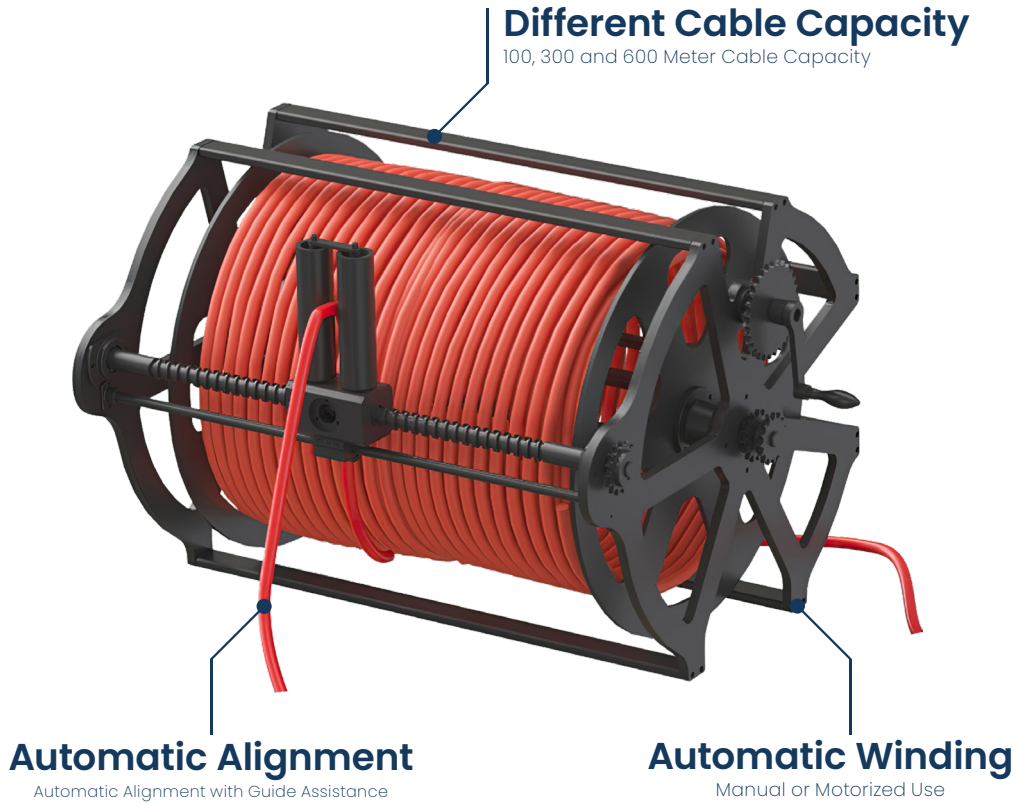




# ARMAS

Spool System





Regular use of the ROV cable is essential for underwater work. At this point, reel systems are a solution that makes your underwater work more organized, safe and efficient. It wraps the cable neatly, avoiding clutter, streamlining the storage process and giving you more control over your underwater projects.



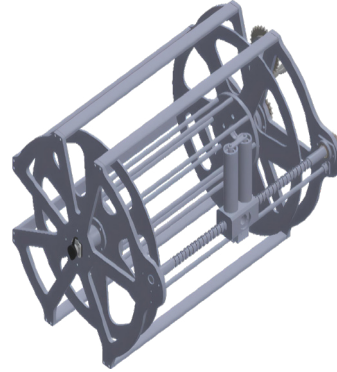
## Cable Management

ARMAS has automatic cable alignment and cable storage features that provide great convenience in cable management. Automatic cable alignment ensures that cables are properly wound through mechanisms and guides within the pulley system. In this way, problems such as tangling or damaging the cables are prevented. The cable alignment process eliminates the manual hassle of operators and increases the efficiency of the job.



## Portability and Protection

ARMAS spool system makes your work easier by offering advantages in the transportation and protection of cables. It protects the cable against external factors during transportation, storage and use and prevents physical damage. This extends cable life. In addition, it provides portability, making it possible to carry your cables to the desired point quickly and easily.







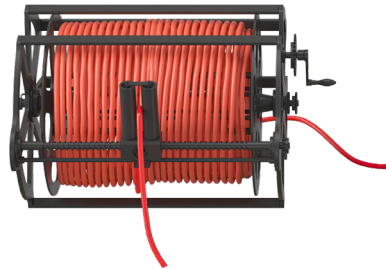
## Manual or Auto Winding

ARMAS offers both manual and motorized automatic options for unwinding or collecting the cable. These systems provide ease of use according to your business and preference. The manual system allows the operator to manage the cable using a manual mechanism. In the automatic pulley system, the cable unwinding and collecting operations are carried out by the motors and the automatic control system. The system unwinds or collects the cable quickly and precisely, thus providing convenience to the operator.



## Rotation Locking System

ARMAS, with its automatic lock system feature that prevents the cable from opening by itself, prevents the cable from being unintentionally opened when the cable is wrapped or not in use, thus providing a safe and orderly cable management.





# OUR PROJECTS

Anadolu Robotik has undertaken a series of major projects on a comprehensive study of deep-sea life. These projects are critical to understanding and protecting the underwater ecosystem. With our latest sensor technology and autonomous underwater vehicles, we have been able to reach previously inaccessible deep-sea regions and document biodiversity. Using high-definition photography and video techniques, we capture unique images of the seabed and underwater life.

We are also working on projects specifically designed to support military underwater reconnaissance and surveillance operations. Designed to meet the specific needs of the military and defense industry, our ROVs are equipped with advanced sonar technology and autonomous navigation capabilities. These technologies have been instrumental in detecting enemy activity and guarding borders.

We are also involved in a number of projects focusing on search and rescue operations. Equipped with high-definition sonar and video equipment, our ROVs can perform search and rescue missions in harsh underwater conditions. In these projects, we are trying to prevent loss of life and property by scanning the operation area quickly and effectively and transferring the relevant information to the rescue teams.

Submarine construction and maintenance projects are also one of Anadolu Robotik's main fields of activity. Our ROVs are used in the construction and maintenance of underwater structures and ensure that structures are built and maintained safely and effectively.

On the other hand, we offer customized services to meet the specific requirements of our customers. Whether it's the design of a custom ROV or technical support for a submarine operation, as a team we aim to provide the most appropriate solutions in every situation, and we recognize and solve the unique challenges of each project.

# OUR ABILITIES

## **Innovative Design:**

Anadolu Robotik is a pioneer in designing and manufacturing advanced autonomous underwater vehicles (ROV). These vehicles are equipped with high resolution cameras, sensitive sensors and special software. Ideal for wide-ranging applications such as scientific research, industrial missions and exploratory missions, these instruments help to better understand deep-sea ecosystems.

## **Customizable Solutions:**

Anadolu Robotik offers tailor-made solutions to its customers. The dimensions, equipment and functions of the vehicle can be adapted to the specific requirements specified by the customer. This flexibility enables our customers to obtain unique and effective solutions to fulfill their specific tasks.

## **Ease of use:**

Our underwater vehicles are equipped with user-friendly autonomous navigation systems and interfaces. This allows users to easily control the tool without complicated commands. We also have simple control and command systems that speed up the learning process and allow users to spend less time and effort using our products.

## **Minimal Maintenance:**

Our products are equipped with durable housing and equipment, making them resistant to wear and tear and requiring minimal maintenance. This allows users to use the products for years without the need for major repairs.

# OUR SERVICES

01

## **Military and Defense Applications:**

We offer the military and defense industries ROVs for precision underwater reconnaissance and anti-submarine operations.

02

## **Search and Rescue Operations:**

We offer underwater robots used in search and rescue operations to find and recover the missing.

03

## **Customized Rov Options/Manufacturing:**

We design and manufacture customized, high- performance ROVs to customers' specific requirements.

04

## **Underwater Research and Exploration:**

We provide advanced autonomous underwater vehicles (ROVs) to explore and explore vast seafloor and underwater structures.

05

## **Marine Research and Construction:**

We design ROVs for seafloor mapping, marine biology and ecology research, subsea construction and maintenance.

06

## **Technical Support and Training:**

We offer our customers technical support and training on the use, maintenance and repair of their ROVs.

# CONTACT

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