



# aquanaut

The future of underwater robotics.

[NAUTICUSROBOTICS.COM](http://NAUTICUSROBOTICS.COM)

**nauticus**  
robotics

# Specifications

## AQUANAUT SPECIFICATIONS

### Versatility meets sustainability

#### ✔ MORE CAPABLE

With Aquanaut, you don't have to choose between an AUV and an ROV — you can have both. Start with autonomous seabed scanning, then seamlessly move to remote operation and object manipulation on the same exact robot.

#### ✔ MORE EFFICIENT

Aquanaut functions without any tethers, meaning you don't need to have power cables or data lines attached to it. This eliminates the need for a topside structure, enabling you to take on projects in a more efficient and cost-effective way. In fact, we estimate that oil and gas customers will save between 30 and 40 percent by utilizing Aquanaut versus competing alternatives.

#### ✔ MORE SAFE

Mitigate risk like never before by assigning Aquanaut to your most challenging projects. Aquanaut can perform many of the same subsea functions often tasked to human divers. This allows you to keep your crew out of harm's way while still meeting your work requirements. In addition, numerous onboard sensors — in conjunction with our Azimov safety system — ensure Aquanaut operates safely and predictably while in its autonomous mode.

#### ✔ MORE GREEN

As a fully electric robot, Aquanaut is completely emissions-free.

### GENERAL SPECIFICATIONS

Dimensions:	Length: 4.82 m Width: 2.03 m Height: 1.71 m
Weight (In Air):	4200 kg
Depth Rating:	3000 m
Speed (Cruising):	3 knots
Speed (Maximum):	6 knots
Range (Maximum):	250 km
Range (Typical):	140 km
Battery Capacity:	101.1 kWh
Environmental Performance:	Station Keeping in 1.5 knot Lateral Current
Payload Capacity:	90 kg
Runtime:	30 hours - 70 hours

### MANIPULATORS

Degrees of Freedom:	6 + Gripper
Dimensions:	Length: 584.2 mm Width: 266.7 mm Height: 977.9 mm (Stowed)
Weight:	109 kilograms (In Air) 73 kilograms (In Water)
Reach:	1.85 m
Lift Capacity:	60 kg at Full Extension
Gripper Force:	454 kg
Gripper Rotation:	360 deg Continuous

### SENSING PACKAGES

Navigation:	iXblue Phins 6000 Nortek DVL500 AML6 SV+CT+P Imagenex 837 AXi
Positioning:	Sonardyne Avtrak-6 ISE GNSS + RF Module
Acoustic Communications:	Subnero M25M Series Modem Dolphin Comms
Optical Communications:	Hydromea Luma X
Perception (3D):	Voyis Discovery3D Stereo Camera and NOVA Mini Nauticus 3D Structured Light System
Perception (2D):	Voyis Observer and NOVA Micro Blueprint Oculus M1200d
Survey and Mapping:	Voyis Insight Pro CODA Octopus Echoscope C500 Marine Sonics Sea Scan ARC Scout MKII
Subsea Integrity:	CP Probe Wall Thickness Measurement Cleaning Brush

### SOFTWARE

Software Suite:	Web-based User Interface With a Server Backend Operate Vehicle From Any Site That Can Access the Server Plan, Simulate and Execute Missions With Confidence
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