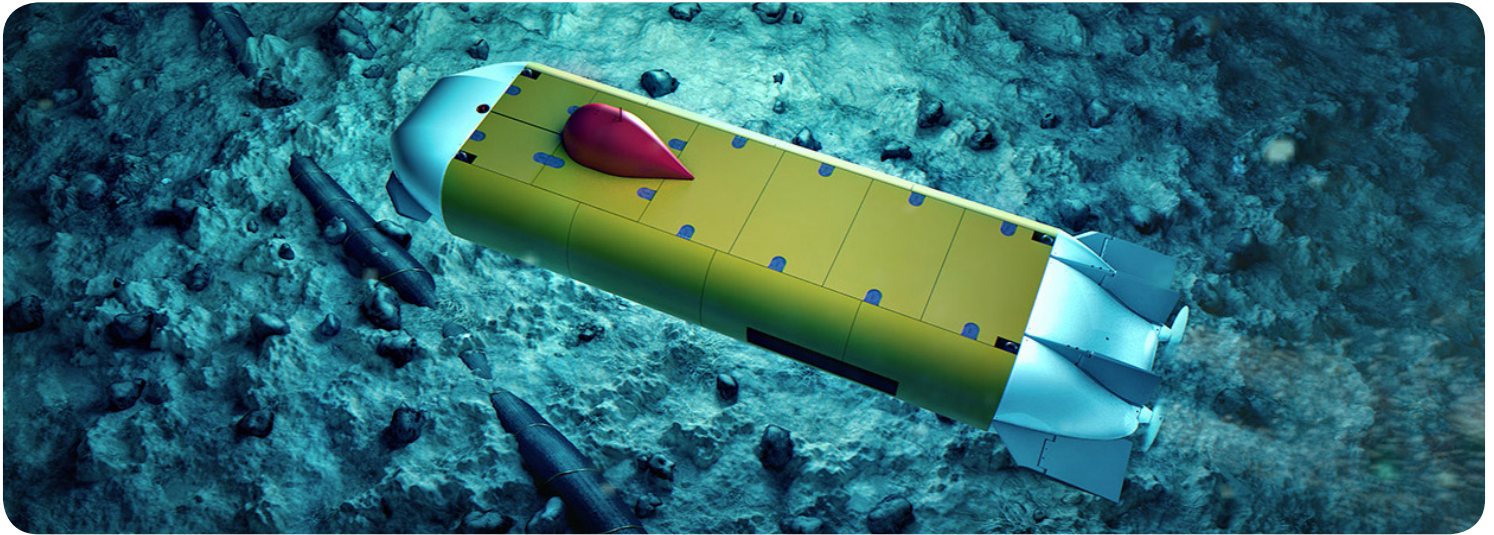
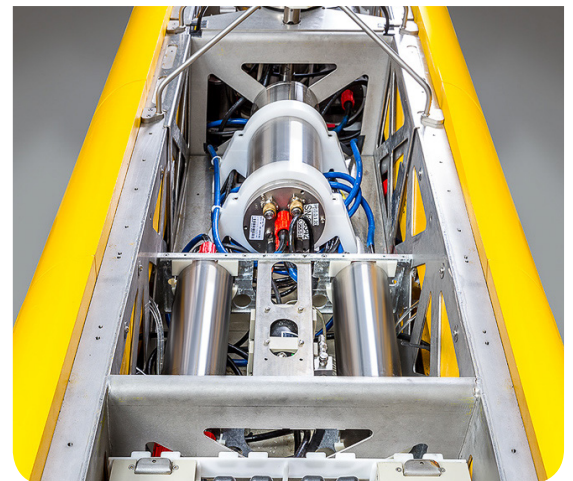
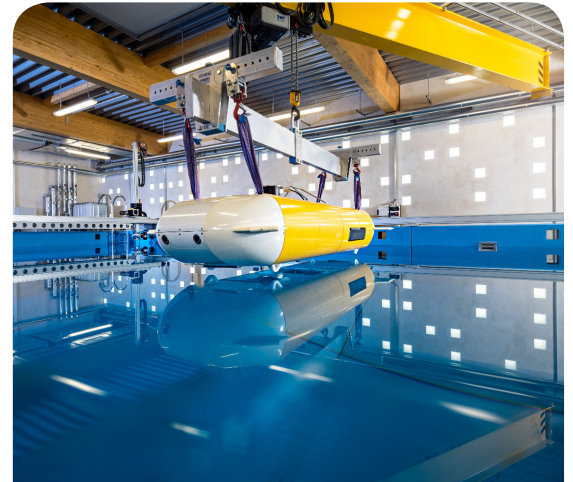


AUTONOMOUS UNDERWATER VEHICLE



FACT SHEET

- DEDAVE 6000 is a very flexible AUV that can carry multiple sensors and other equipment (payload) in order to record underwater maps of the seabed, investigate the nature of marine sediments and perform any related inspection and measurement tasks. Its name has been derived from the description „Deep Diving AUV for exploration“.
- The vessel can be simultaneously equipped with several commonly used sensor systems for mapping and studying the seabed, e.g. synthetic aperture sonar, side scan sonar, multi-beam echo sounder, conductivity-temperature-depth sensor systems.
- Thanks to the flexibility in terms of the payload, fewer missions are needed, which in turn reduces the costs. Competitors' AUVs with similar payload options are longer and heavier.
- The rigorously applied pressure neutral (free flooded) concept of the vehicle and its components reduces the weight of the vessel and saves space that would otherwise be taken up by a thick-walled hull.
- The hull of the vessel and the buoyancy materials are divided into fixed-length modules, so that the AUV can be adapted in accordance with the grid dimension. This means that customers' investments are safe, even for future applications that are not yet foreseeable.



TECHNICAL DATA

Length	3,50 m
Width	0,95 m (body) 1,25 m (with rudders)
Height	0,55 (body) 0,75 m (with antenna dome)
Weight (Dry)	~750 kg with Sensors
Buoyancy	~ 5 kg net positive
Depth Rating	6,000 m
Endurance	18 hours @ 2 knots with standard payload
Speed	Up to 4 knots
Energy	Max. 10 kWh of total energy (up to four easily changeable 2.5 kWh pressure-tolerant Lithium-polymer battery packs, each consisting of two batteries with 15 kg weight on air)
Propulsion	Two propellers at stern
Control	Two rudders Bow and stern dive planes with support for zero pitch dive control
Navigation	INS with integrated DVL (accuracy $\leq 0.1\%$ of D.T.) GPS, SVS USBL tracking with position updates
Antenna	Antenna dome with GPS, WiFi, Iridium and acoustic modem
Communications	WiFi, Iridium and acoustic Ethernet via shore cable
Safety Systems	Two dropweights Independently powered emergency and communication system
Software	GUI-based Operator Tool Suite
Data Management	128 GB vehicle data storage plus individual payload data storage Optional central data storage with up to 4 TB SSD storage for vehicle and payload data
Standard Payloads	Kraken AquaPix MINSAS 60 Interferometric Synthetic Aperture Sonar (300 kHz) Reson T20-S 200/400 kHz multibeam echosounder
Optional Payloads	Instead of Kraken AquaPix MINSAS 60: EdgeTech 2200-M side scan sonar and DW-216 sub-bottom profiler Instead of Reson T20-S AUV: Reson 7125 200/400 kHz multibeam echosounder Other payloads available on request.