



ROV system parts

Hellenic Centre for Marine Research - ROV team

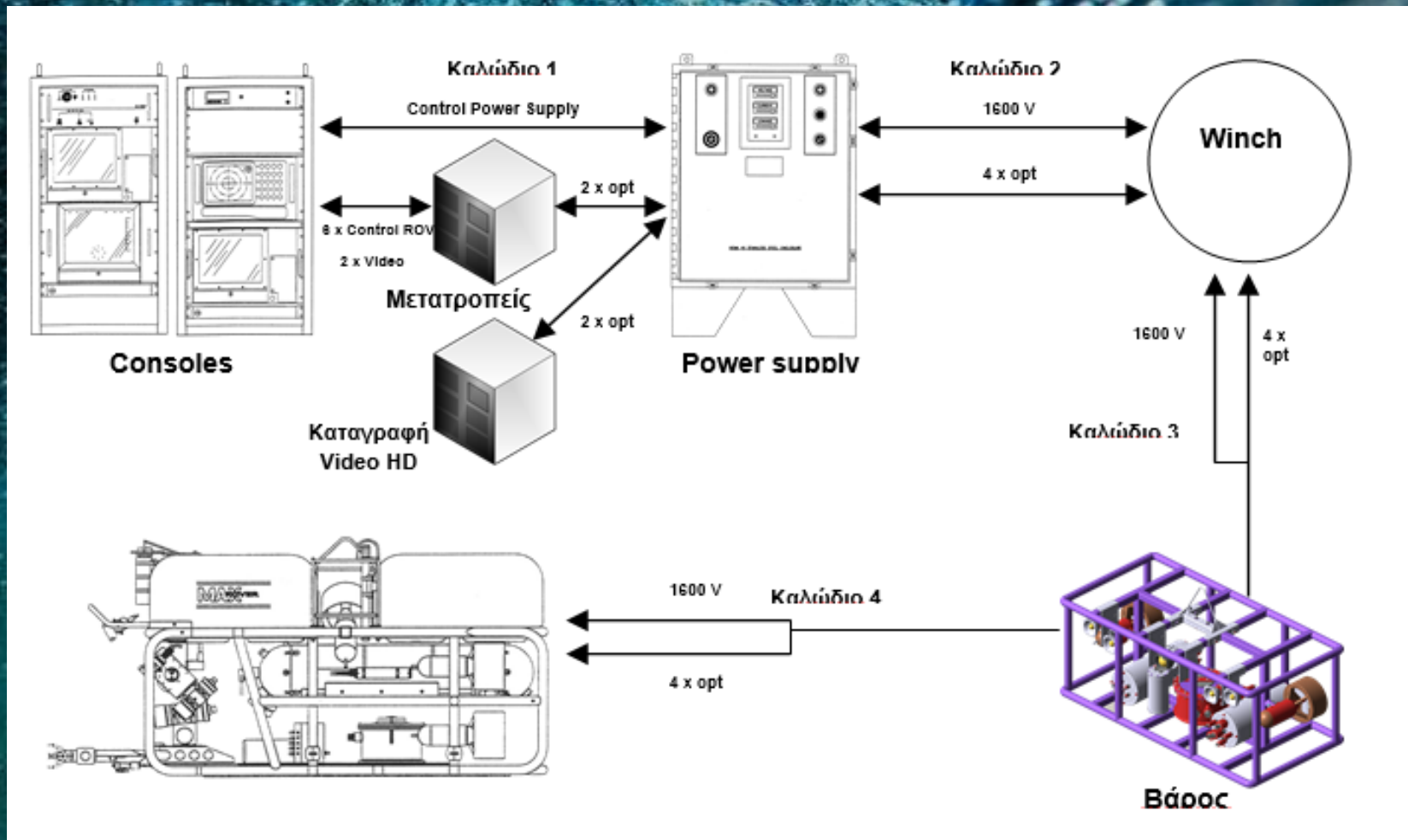
ROV system parts

Remotely **O**perated **V**ehicles are a family of underwater robotic vehicles that allow us to work in conditions and environments that are neither friendly nor easily accessible to humans.



ROV system parts schematic

The typical configuration of an integrated ROV system includes the parts given in the schematic



Photos ©HCMR

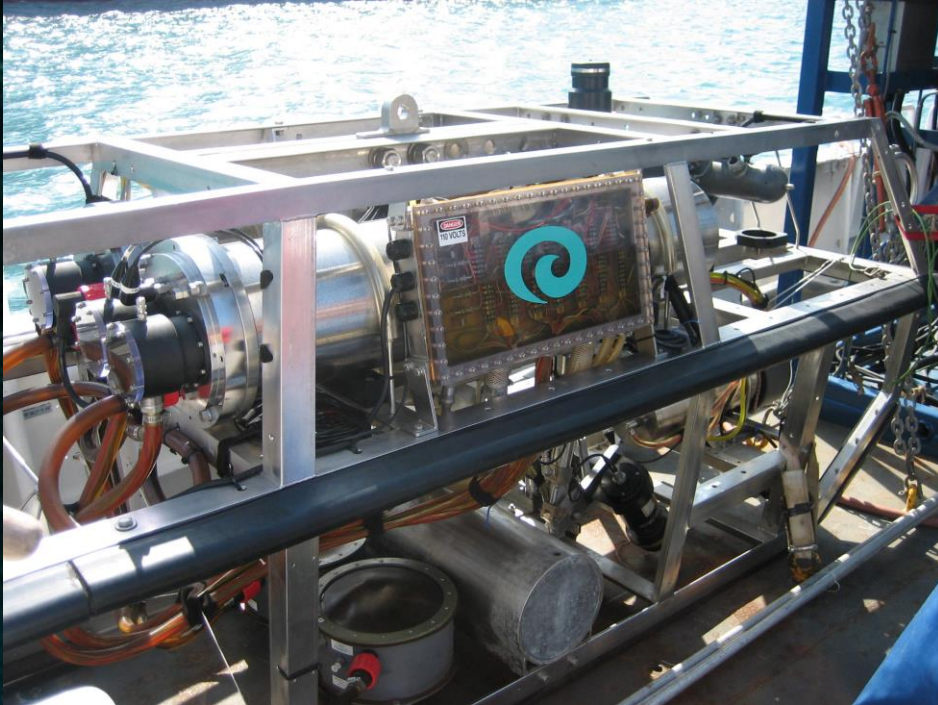
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The MaxRover Remotely Operated Vehicle



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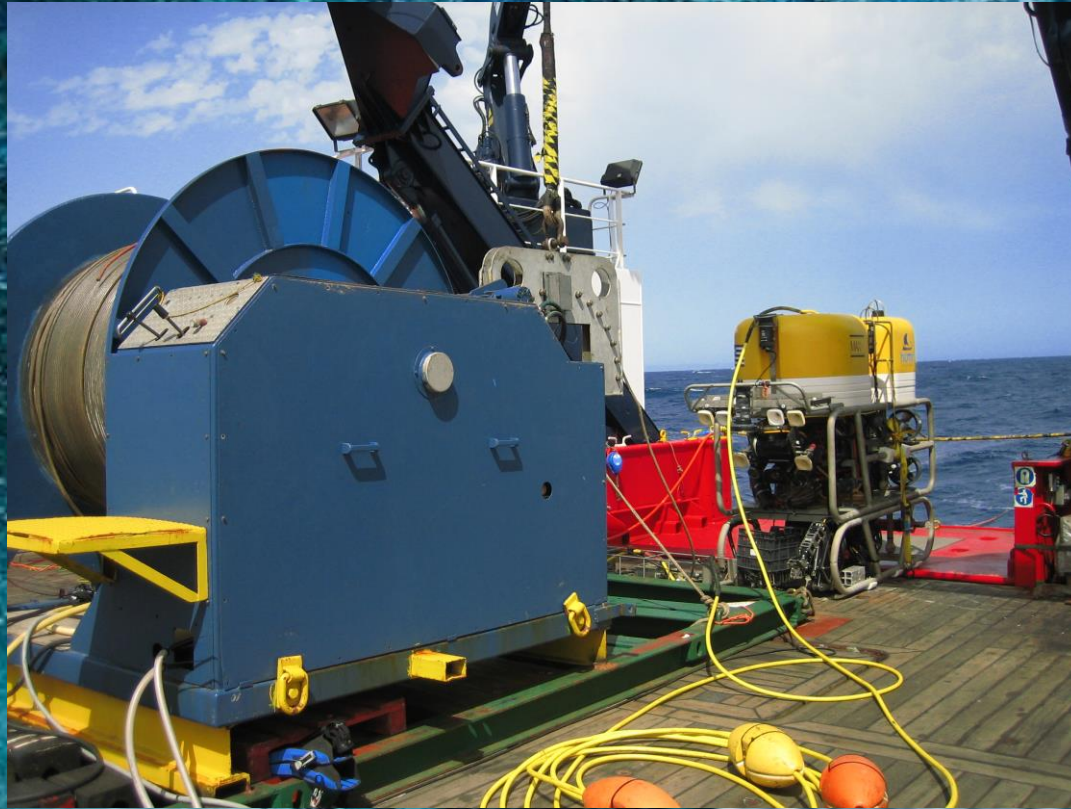
The interface system between the flexible cable and the rigid cable



In many cases this system is also a standalone submersible robotic vehicle, while in others it is simply a construction with weight and cable interface boxes.

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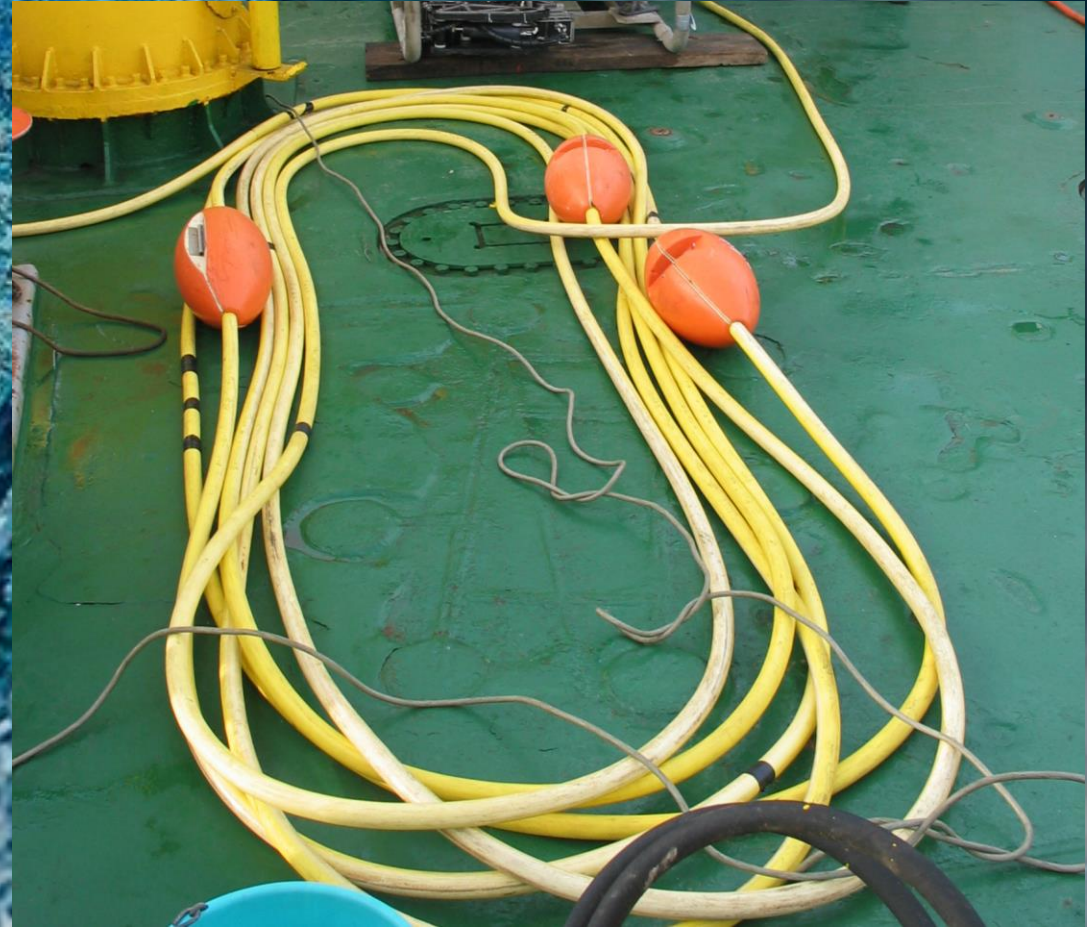
The winch



The winch is responsible for diving the rigid cable and submersible robotic vehicle in the water.

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The Interface cables



Interface cables, function essentially as an umbilical cord between the ROV and the surface ship. They carry the power, communication and data to and from the ROV

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System control



The system control consists from consoles needed for controlling the ROV, recording different types of scientific data and carrying out sampling and measurements.

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ROV support surface-ship



The surface ship supports the ROV operations. Alternatively these can also be carried out by fixed work platforms .

Photos @F.Pantazoglou/HCMR



THANK YOU

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