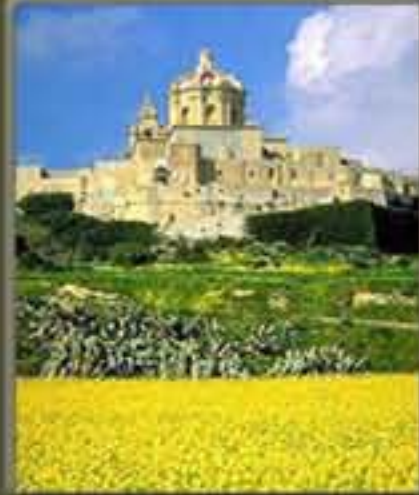


REMOTE OPERATING VEHICLE



< The R/V Hercules is stationed in the scenic island of Malta, which serves as a convenient logistical base for deployment in Mediterranean projects.

THE VESSEL

R/V *Hercules* has been designed and built to advance the state of the art in nautical archaeology. The vessel is designed as a self-sufficient base for a wide range of project functions in shallow to moderate waters. These functions include the deployment of ROV's, manned submersibles, and remote sensing equipment (multibeam and sidescan sonar systems), as well as diving operations. *Hercules* is equipped with a dynamic positioning system and advanced data processing capabilities that include a four-station data processing center. It is equipped with adequate deck space and lifting systems to transport and deploy a variety of submersibles and auxiliary vessels. The *Hercules* also features an integrated Nitrox system that can support diver operations.

LENGTH:	37.3 m / 122 ft	CRUISING SPEED:	12 - 16 knots
BEAM:	6.7 m / 22 ft	RANGE:	1000 nautical miles
CONFIGURATION:	Monohull	ENGINES:	Two Catepillar 900 Horsepower 3412 Diesel Engines
DRAFT:	1.5 m / 5 ft with deployed thrusters: 2.1 m / 7 ft	POWER SUPPLY:	Two 65 kw and one 30 kw Northern Lights generators
FUEL CAPACITY:	7000 gallons		

NAVIGATION SYSTEMS:



- Two Simrad RA54 (12 kw) 72-mile range radars
- KVH Fleet 77 SATCOM
- Simrad CP44 GPS WAAS chart plotter
- Trimble DSM 132 DGPS (Ominstar ready)
- Kongsberg / Simrad DP10 System Dynamic Positioning Computer
- Fugro demodulator interfaced with Seatex 2000 DGPS system
- Kongsberg / Simrad HIPAP System Acoustic Positioning
- Simrad EQ60 and EQ42 depth sounders

BERTHING: Crew of 4 - 6; accommodations for 6 - 8 scientists, staff, divers, or students

AFT DECK: 10.7 x 5.5 m / 35 x 18 ft deck

EQUIPMENT:



- Pivoting hydraulic ram A-Frame
- ROV cage deployment system
- Lifting crane: 5 - ton capacity with 6.7 m / 22 ft reach
- Simrad Kongsberg EM Dual Head Multibeam 3002D (effective operations depth 120 meters for archaeological survey) and the 1002S that has an operational depth of 650 meters for bathymetric maps
- Benthos SIS-1500 chirp pulse sidescan unit (200 kHz) with fully integrated workstation, operating depth to 500 meters
- Nitrox Technologies scuba compressor system