

# Perseo

## Class 2 visual and instrumental



On the basis of real needs of those people working with the ROVs,

AGEOTEC conceived a wide range of vehicles characterized by fundamental features, unique in the world scenery thanks to:

- Compactness and easy handling, due to a properly conceived control software, more powerful thrusters but smaller in dimensions, so as to allow an easy use even in adverse environment.
- "Wide band" concept, applied as a rule to connection via cable, by means of the Fibre Optic use on vehicles, guarantees data transmission and communication of any kind of information between ROVS and the surface.
- Easy management and maintenance of vehicles, due to the supply of a complete kit of spare parts and to the use of very high quality components, easy to find all over the world, allowing to reduce the general costs of work, but increasing at the same time the value of initial investment at the highest levels.
- High customization in the attempt to meet the customer's request due to the particular modularity of the vehicles.

All this meets with passion and notable skill of technicians and engineers, as well as with the Company's availability to study together with the customer the features of the project to be carried out, so as to find most efficient solutions by using the most suitable instruments.



**NAUTEC** Underwater Technologies Division

production and technical assistance



### Structure / Frame and Fitting

Modular Chassis manufactured in high impact resistant Polypropylene. This material is totally maintenance free and non-corroding. Any chassis member can be easily replaced and all the additional equipment may be bolted directly onto. Stainless steel load frame and lift points, all pressure housing are manufactured in Aluminium Anticorodal 6060.

**Operation depth** 600mt (deeper available)

### Hp and propulsion

2 vertical and 4 vectored Tecnydyne mod.521 DC brushless thrusters (no particular maintenance required):

Downward thrust	22Kg
Forward thrust	35Kg
Lateral thrust	25Kg



### Camera/video/lighting

2 video-channels. High resolution cameras Colour 86 is standard as well black&white camera BW42. 2x150W halogen lamps with control intensify regulator. Tilt with feedback position displayed on pilot monitor is standard a joystick potentiometer provides an accurate tilt angle.

### Instrumentation

Optional CP Probe or underwater metal detector with value displayed on pilot monitor. Navigation/tracking Flux-gate compass unit with solid state rate gyro sensor provides high azimuth stability; electronic depth sensor; Auto-heading and Auto-depth functions are standard

### Deployment system

Optional LARS and TMS

### Control Unit and SCU-CPU

Pilot monitor and video-recorder are fitted in 15U Flight-case with the surface electronic control and power supply. NauTec video overlay as standard provides digital compass data, date time, tilt icon position depth, CP Probe or Metal detector value. Vehicle equipment data may be exported to clients's survey and navigation computer.

### Vehicle power requirements

220VAC single phase 50÷60Hz 6 KW  
400VAC 3-phase 50÷60Hz 6 KW on request

**Operating/ Maintenance crew** 2

\*subject to change without notice

### System Dimensions

	ROV	15 U CONSOLLE		WINCH
		w. cover	w/o cover	
Length	980	550	540	1590
Width	710	770	570	800
Depth	510	730	720	1110
Weight in Air	80.0	-	65.0	270/400*
F.O. Umbilical mt	-	-	-	350

\*winch chassis only / winch & umbilical

**Operating Depth** 600mt (deeper available)



### Payload

Adjustable between Kg 8 and Kg 15

### Umbilical

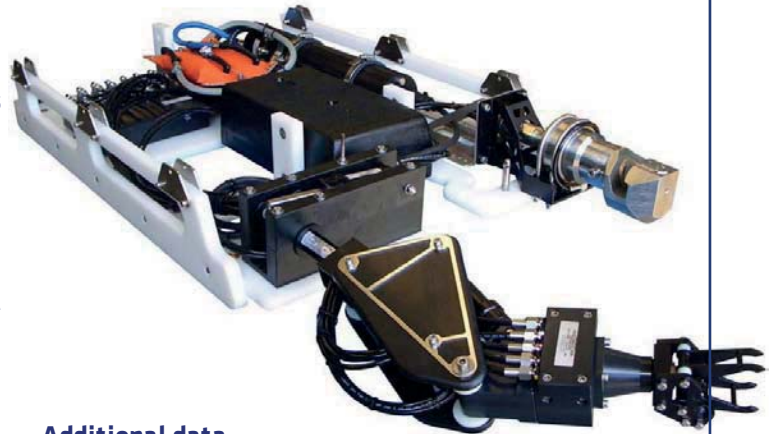
350mt, Ø16.5mm, n.7 Power conductors, n.4 Fibre Optic lines

### Buoyancy and ballast

N°1 floating of Synthetic foam with apertures provided for sonar and acoustic positioning transponder.

### Underwater tools / manipulator

Optional multifunctional mini-manipulator skid



### Additional data

Options include: LARS (launch and recovery system)  
TMS (tether management system)  
ROV control cabin  
SIT camera  
Extra Colour or BW cameras  
Scanning sonar system  
Dual head profiler  
Bathymetric system  
CP Probe  
Underwater metal detector  
Acoustic positioning system  
Multifunction mini-manipulator  
Spare kit  
Technical training program  
Special configuration to satisfy clients's requirements.