

# Perseo GT (V)

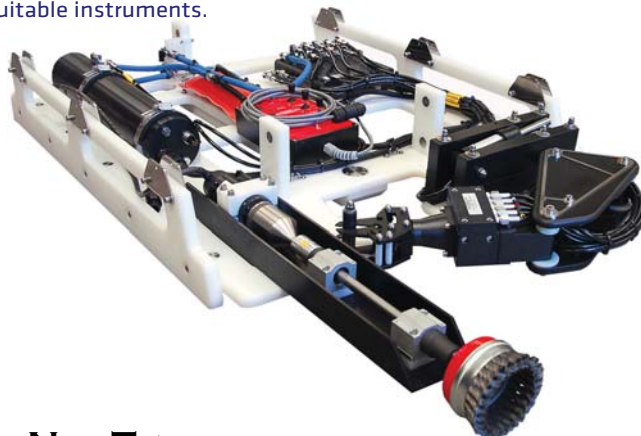
## Class 2 Multipurpose ROV



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.



## System Dimension

|                    | Vehicle GT | Vehicle GTV | SURFACE PSU CONSOLLE*** |
|--------------------|------------|-------------|-------------------------|
|                    |            |             | w. cover                |
| Length (mm)        | 980        | 1000        | 550                     |
| Width (mm)         | 800        | 800         | 770                     |
| Depth (mm)         | 600*       | 800         | 730                     |
| Weight in Air (kg) | 140.0**    | 160.0**     | 65.0                    |

\* Sonar protection excluded, W/O auxiliary skid

\*\* W/O auxiliary instrumentation

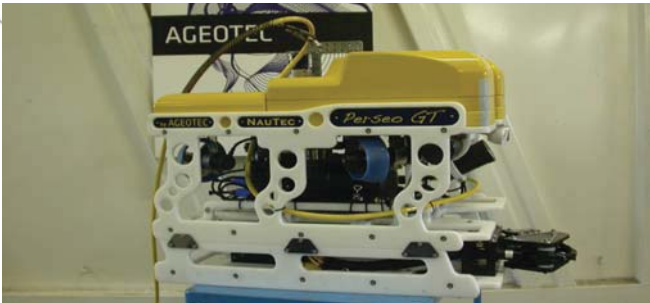
\*\*\* Indicative with PSU for 800m of umbilical cable

## Operating depth

Vehicle standard configuration for 1500mt

Optional 600mt depth floating for Perseo GT

Deeper Perseo GTV available



## 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.

## Propulsion

2 vertical and 4 vectored

All DC brushless thrusters 1500mt depth, Magnetic propeller coupling (no particular maintenance required):

|                 | Perseo GT | Perseo GTV |
|-----------------|-----------|------------|
| Downward thrust | 40Kg      | 48Kg       |
| Forward thrust  | 64Kg      | 70Kg       |
| Lateral Thrust  | 44Kg      | 50Kg       |

## Buoyancy and ballast

Modular floating with apertures provided for sonar and acoustic positioning transponder.

## Payload

From 18Kg, W/O additional buoyancy module, to 40Kg

## Umbilical Cable

Ø 22mm, power conductors and n.4 fibre optic

## Vehicle power requirements

400VAC 3-phase 50÷60Hz

from 8 KW (Perseo GT), from 10KW (Perseo GTV)

Note: power requirement for free flight operation W/O Lars and TMS

## Deployment system

Optional LARS and TMS

## Video and Data lines

Standard: FO MUX with 2 video channel and 4 Data channel. Multimode Fibre Optic

Upgrade: Additional FO MUX, Ethernet FO Converter, Singlemode Fibre optic on Perseo GTV

## Cameras / video

2x real time high resolution video-channels, main cameras.

1x switched video channel, manipulator or rear camera

Basic configuration:

1x High Resolution Monochrome Camera, 570TVL, 0,001LUX, 1/3ccd and

1x High Resolution Colour Camera, 480LTV, 0.1lux, 1/3CCD.

## Cameras Platform

Tilt (180°) with feedback position displayed on pilot monitor.

## Lighting

2x150W Halogen Lamps lighting with control intensify regulator. Are available as standard on two individual controlled channels. 300W is the max load available for each line.

Upgrade: LED Lighting

## 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.

Available on request only on Perseo GTV, Auto-alti function, if fitted altimeter sensor

## Surface Console



## Perseo Surface Unit

Standard 19" rack flight case (12 U or 15 U), containing switching power supply modules and 6U rack for electronics of controls and interface.

## Video and Recording Unit

Standard 19" rack flight case (12U), containing: 17" LCD monitor and videorecorder

## Optional instrumentation

Scanning sonar system

Additional Colour or BW cameras

Acoustic positioning system

CP Probe (contact or proximity)

Ultrasonic thickness probe

Bathymetric system

Pipe and Cable tracker

Custom tooling skid

Multifunctional manipulator (skid mounted)

Water jet system – 2.5kw 440 VAC 3-phase outlet (on request, only on Perseo GTV)

OEM configuration to satisfy client's requirements