

Mariscope Meerestechnik started the development of ROVs in the early 90s and the initial sales of industrial quality ROVS started in 1994. Nowadays, Mariscope is one of the very few remaining companies that is still owned by its founder, Christian Haag.

Over the years Mariscope has specialized in the manufacturing of customized ROVs, towed systems, deep sea cameras and oceanographic equipments.

The product range of ROVs goes from compact systems to work-class units.

Moreover, Mariscope is the only manufacturer worldwide to give a life time warranty on its systems, without a limitation of working hours.

Stainless steel and aluminum housings, rugged stainless steel frames and complete modular components are some of the main features of the entire systems.

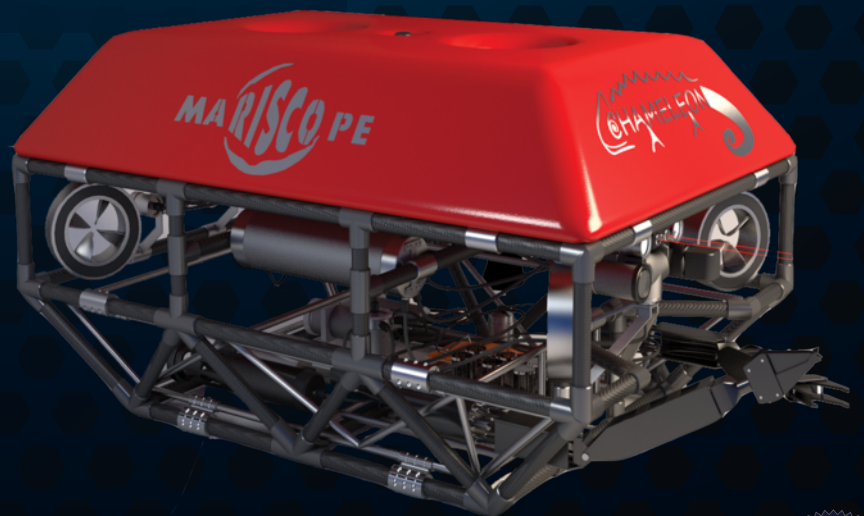
As for all the Mariscope ROVs, these thrusters are equipped with three phased asynchronous electric motors. This very reliable technology allows Mariscope to give a limited life time warranty on the propulsion units of its ROVs.

As for all Mariscope ROVs, the Chameleon is manufactured with AISI 316 L stainless steel, TIG hand-welded and electro polished.

The complete modular design allows the individual customization, starting from the flotation devices up to the individually adapted sensors skids. Payload may

vary up to 100 % if necessary. The flotation tubes can be incremented or diminished on the job site. Therefore, sensors can be integrated according to the local environment and measurements.

Mariscope has put a special effort in the system integration of the offered sensors. Special software has been designed that enables the display and data storage of each sensor in a synchronized way with the navigation parameters of the ROV and the video images from the cameras.



Highly Reliable Technology

Some basic features are:

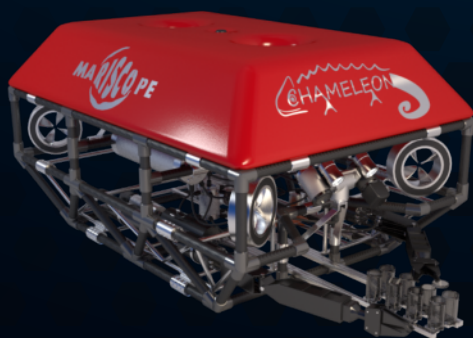
- Limited life time warranty
- Electrical thrusters for permanent (24/7) use
- Auto heading and auto depth functions
- Cable with more than 500 kg tensile force and neutral buoyancy.
- Variable payload
- Manipulators from 1 up to 5 functions (electric and hydraulic).
- Special sensors for CO₂, H₂S, CTDO, oil in water measurements.
- Special sediment corers.
- Special multi-color lighting based on Cluster LED technology.

Technical specifications

Frame:	Stainless steel frame
Thrusters:	5 Thrusters with 300 or 600W power each. 4 horizontal, 1-2 vertical, 15-30Kg pull capacity of each thruster.
Depth rating:	Operation depth up to 600m as standard. Deeper going vehicles on demand.
Power supply:	3.500-4.000 W

Two standard color cameras, both swivel mounted. On the tilt unit both cameras have 2 high output Luxeon type LEDs of 5 - 20 W power each. One camera is on the front and the other one on the rear part of the vehicle. Tilting angle for both cameras and lights is 270°.

Special Cameras:	On demand
Special Sonars:	High definition and imaging sonars for underwater detection on demand.
Umbilical:	Umbilical of 16mm diameter, neutrally buoyant, 500 Kg of tensile force. Standard lengths from 100 – 600 m. Longer cable lengths on demand.
Cable reel:	Standard cable reel of AISI 316 L stainless steel, with Gold plated slip rings
Console:	Surface console in Pelicase with 15"– 19" professional LED monitor. Recording on HDD or with video converter on PC .
Automatic functions:	Auto depth, auto dive and auto heading functions as standard.
Display:	Thruster temperature and thruster speed on display, alarm for blocked thruster and joystick position control. Tilt angle indication for the camera .
Security:	The thrusters disconnect automatically if blocked in order to prevent thruster damage. The ROV does not disconnect if one thruster is blocked, in order to allow the pilot to disentangle the vehicle
Payload:	Payload can be defined by the customer. Sufficient flotation devices will be installed on the ROV.
Manipulator:	Single or multi-function manipulators available. Electric or Hydraulic driven.
Sensors:	Every available sensor on the market can be integrated.



designed,
engineered &
made in Germany

