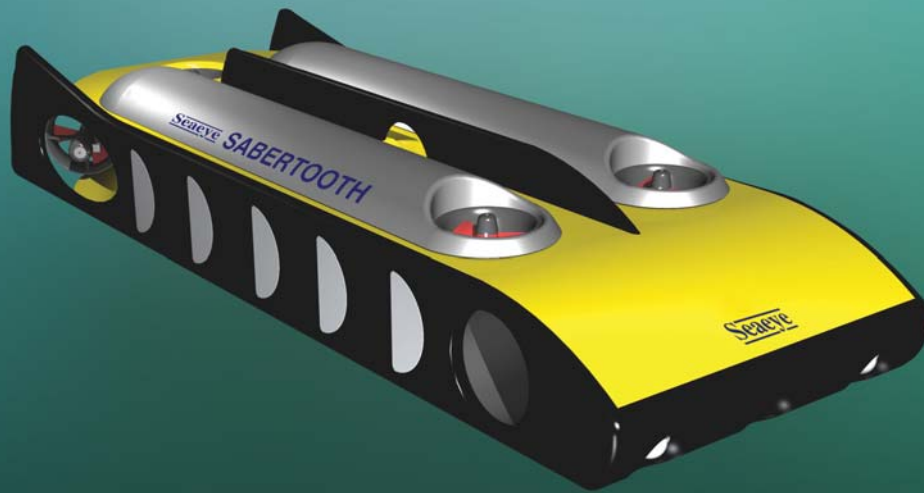




SAAB

SEAEYE SABERTOOTH



THE DEEP WATER HYBRID AUV/ROV

THE SEAEYE SABERTOOTH is a merger of the Double Eagle SAROV™ (Saab Autonomous Remotely Operated Vehicles) and Saab Seaeeye technologies, resulting in a hovering hybrid AUV/ROV with deep water capability, long excursion range and 360° manoeuvrability with 6 degrees of freedom.

Sabertooth is ideal for autonomous inspection and maintenance of subsea installations, and offshore survey work.

- Operational depth of 3000 msw
- Battery power allowing long range operations, with either full operator control via a thin fibre optic tether or autonomous operation (with operator control in proximity of targets)
- Full AUV functionality with obstacle avoidance, behaviour based control and underwater docking capability
- Redundant fault tolerant control system
- Non-invasive self-diagnostics
- Advanced autopilots: heading, depth, pitch, roll, stabilisation, altitude, station keeping, vector transition, obstacle avoidance and sonar target tracking
- Remote internet interface for base and Seaeeye technical support



DISTRIBUTED INTELLIGENCE
CONTROL SYSTEM



SEAEYE SABERTOOTH

The Seaeeye Sabertooth has all the advanced features of the SAAB military hybrid AUV/ROVs, combined with the rugged and proven Saab Seaeeye technology.

This deep water hovering hybrid AUV/ROV benefits from 360° manoeuvrability with 6 degrees of freedom, interfaces for sensors/auxiliary equipment and an extremely long excursion range.

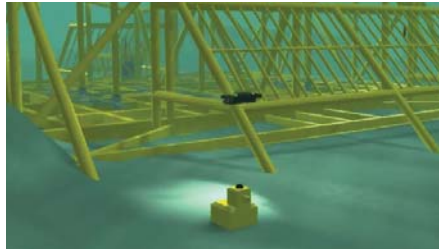
This versatile hybrid AUV/ROV is powered by long-range batteries which can be recharged thanks to a subsea docking node (which also allows data exchange) and can be operated in two different configurations:

- With full operator control, using a thin fibre optic tether
- As a fully autonomous vehicle, carrying out programmed missions, with the possibility of operator control around set targets.

NAVIGATION

A combination of IMU/Doppler and terrain navigation allows the Sabertooth to accurately navigate to its destination at over 10 knots.

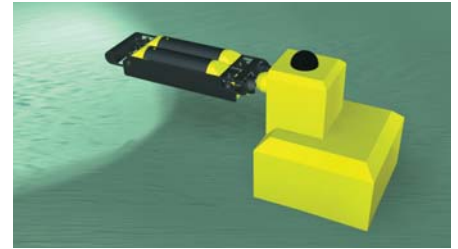
During the final approach, long wave radio communication (50m range) between the Sabertooth and the docking node allows an onshore operator to guide and monitor the operation.



DOCKING / RECHARGING

The docking node allows for sensor data and video to be downloaded from the surface,

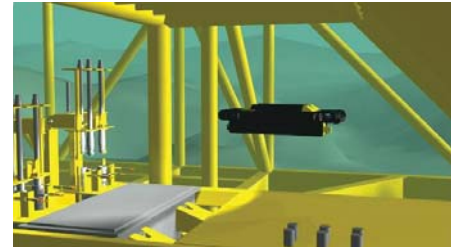
new instructions to be uploaded to the Sabertooth and the batteries to be recharged. Tooling packages can also be stored in the vicinity and used as required.



INTERVENTION / OPERATION

The Sabertooth can carry out programmed inspection and intervention missions. A set of triggers (objects, sensor data) activate new actions such as survey, transit, etc.

Once on the work site, intervention and tooling control is assisted and monitored by the operator.



SEAEYE SABERTOOTH SPECIFICATIONS

SPECIFICATIONS	SINGLE HULL	DOUBLE HULL
Depth rating	3000 msw	3000 msw
Length	3000 mm	3000 mm
Height	450 mm	450 mm
Width	400 mm	900 mm
Launch weight	250 kg	650 kg
Forward speed	4 knots	5 knots
Thrust forward	30 kgf	100 kgf
Thrust lateral	25 kgf	30 kgf
Thrust vertical	50 kgf	50 kgf
Battery capacity	8 kWh (2-4 hours)	14 kWh (3-10 hours)
Range	20-40 km	20-40 km

SYSTEM POWER REQUIREMENTS	SINGLE HULL	DOUBLE HULL
Input power	380-440 VAC or 220 VAC	380-440 VAC
Battery charger	5 kW or 1.5 kW	5 kW
Control equipment	2 kW	2kW

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SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE