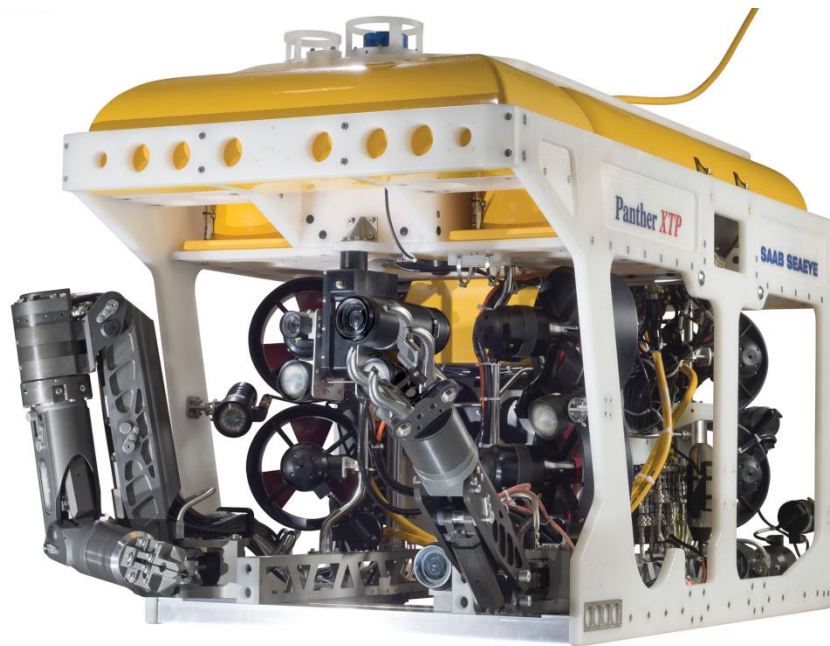


## The high current shallow water survey and light work vehicle

The Panther-XT Plus is a 1000m rated vehicle fitted with ten 500 Volt DC thrusters - eight horizontal and two vertical - with the option of a third vertical thruster, providing the Panther-XT Plus with exceptional handling and speeds of up to four knots.

The high-powered Panther-XT Plus accommodates two Schilling Orion manipulators plus a wide range of sensors and heavy duty tooling skids, making it ideal for tasks that include drill support, pipeline survey, IRM, and salvage.

The system is available as a free swimmer or in conjunction with a Tether Management System (TMS) and an A Frame Launch and Recovery system (LARS). Surface equipment is available as either free-standing units or integrated into a control cabin.



### Performance

With ten powerful thrusters and a high payload, the Panther-XT Plus has exceptional handling and a speed of four knots while still maintaining a small footprint.

### Versatile

Designed to carry a range of survey and heavy duty tooling options, which are fitted within the vehicle.

### Industry Proven

Renowned for an excellent record as a light work and survey vehicle working in shallow water high current conditions.

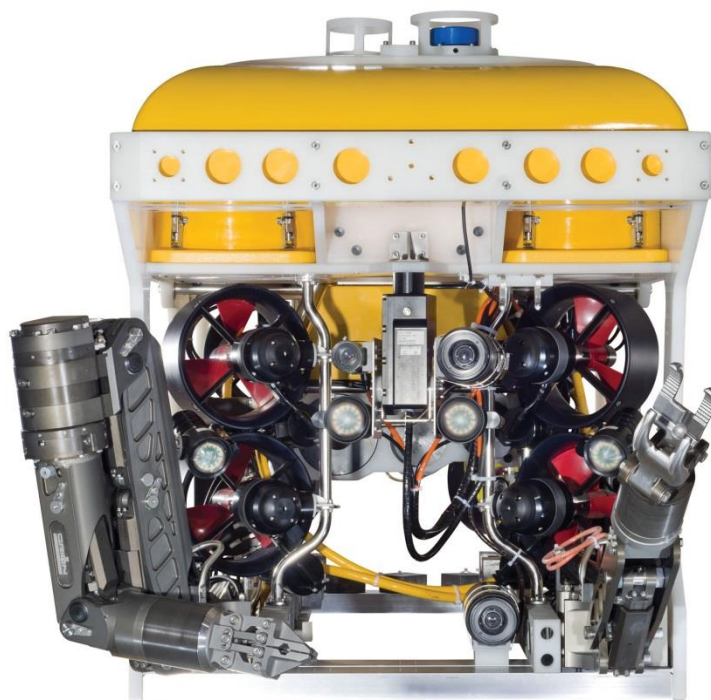
## System Overview

- Two Surface Power Supply Units and a Surface Control Unit supplied as free standing units or fitted inside an air conditioned control container.
- Surface Equipment includes Hand Control Unit, keyboard and two colour monitors. An additional hand control unit is available for systems fitted with a manipulator skid.
- Cabin Junction Box for connections between the surface and subsea. Includes Fibre Optic MUX with video and data connections. Additional MUX options available.
- Available as a free swimming ROV or in conjunction with a Type 8 Tether Management System (TMS) for depths up to 1000 m.
- ROV rated to 1000m fitted with eight horizontal thrusters and two vertical thrusters supplied with 500 Volts DC. ROV is fitted with two electronics pods; a main and an auxiliary. The main pod provides interfaces for four LED lights, up to four cameras, a depth sensor and a solid state compass (located inside the main electronics pod) for vehicle auto heading and auto depth. Auto altitude is available as an option when an altimeter is fitted. Several versions of the auxiliary pod are available to meet specific customer's requirements.



## Technical Specifications

Specifications	Panther XTP
System Power Requirements	3-phase, 380-480 VAC at 50/60Hz
Depth Rating	1000m
Length	2140 mm
Height	1217 mm
Width	1060 mm
Launch Weight	Approximately 800 kg
Forward Speed	> 4 knots
Thrust Forward	353 kgf
Thrust Lateral	248 kgf
Thrust Vertical	105 kgf
Payload	150 kg



## Options, Tools and Accessories



High resolution colour or monochrome cameras fitted to vehicle and on optional TMS.



High Definition (HD) cameras for vehicle.



Altimeter used to measure the altitude of the vehicle above the sea floor. Auto Altitude option available.



Bathymetric system with depth sensor and altimeter fitted.



Scanning Sonar options with an integration kit and surface equipment.



Multibeam Sonar options with an integration kit and surface equipment.



Additional three phase power supply unit used to power tooling options.



Hydro-Lek Manipulator - five and six-function heavy duty manipulator system available with Manipulator camera options.



Schilling Manipulator - Orion 7P and 4R manipulator arms fitted with manipulator camera options.



Additional 4kW HPU and control valve used for hydraulic tooling options.



Pipeline survey wheeled skid with either three or four function camera boom arms. Also camera and LED light options available.



Dual Multibeam Echosounder (MBES) fitted to a forward frame.



Dedicated sled for inertial navigation systems including doppler velocity log, fibre optic gyro, sound velocity profiler and depth sensor.



Compact cutter capable of cutting 38 mm diameter steel wire rope. Includes an intensifier and requires a 4kW HPU.



Rotary Cutter used for cutting through hoses and cables up to 4 inches thick.



Cleaning brush incorporating a heavy duty brush and SM7 thruster motor fitted.



Water Jet System using a high power water pump.



Flooded Member Detector (FMD) skid for mounting an FMD tool. The skid is fixed below the vehicle and is used for subsea inspections.



Cathode Potential Probe with either contact or proximity probe options available.



Ultrasonic thickness system available to determine the level of corrosion present in a structure.



Laser options for video survey.



Battery-operated Xenon emergency strobe used to locate the ROV.



Acoustic tracking system to calculate the position of vehicle fitted with an acoustic beacon.



Control cabin options include video recording units, video matrix switcher, communications systems, and high-back pilot seat.

## Deployment Systems and Control Cabins



Electric Winch with variable speed and directional control for free swimming configuration.



Running Lock Latch system used for launch and recovery to reduce the strain on the umbilical. Includes a latch release line to free the ROV from the lock latch.



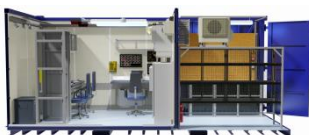
Tether Management System (TMS) Type 8 allowing for the deployment of the vehicle at working depth and also providing protection.



A-Frame Safe Area Launch and Recovery System (LARS) with Lock Latch or Snubber options. A Zone II upgrade option is available.



Safe Area Control Cabin (16 ft) fitted with electric power distribution panels, lighting, air conditioning, and 19 inch racks. A Zone II upgrade option is available.



Safe Area 20ft split Control Cabin with a Pilot Control section and a separate high voltage PSU section. Fitted with electric power distribution panels, lighting, air conditioning, heating and 19 inch racks. An optional installed escape hatch is available as is a Zone II upgrade.

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