

CASE STUDY

ASI Marine Relies on the Defender System for Tough Underwater Civil Inspections



For more than 30 years, ASI Marine

has been providing specialized underwater services to industries including hydroelectric power, nuclear energy, oil & gas, government, construction and manufacturing. Headquartered in Stoney Creek, Ontario, the company has additional offices in Canada, the U.S. and Chile.



Summary

Dan Cousineau, professional engineer with ASI Marine, was in the market for a durable inspection-class ROV to support the Western Canada office. Based on the company's successful history with VideoRay, he wanted to add an additional Mission Specialist Defender underwater robotics system to the fleet.



Challenge

ASI Marine's Vancouver office provides marine services to Western Canada including commercial diving, ROV inspections and marine geophysical surveys and underwater mapping for industrial and municipal sectors. It also specializes in biomonitoring and fish surveys for preconstruction projects.

Personnel needed an underwater robotic system that could be deployed in areas that are difficult to access. Because they often operate in remote areas, the ROV system had to be small enough to travel by helicopter, utility terrain vehicle or even pickup truck.

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Solution

Cousineau purchased the Defender system because his team was already familiar with its ease of operation and reliability. The Defender ROV system replicates the performance of ASI's larger working-class vehicles, but pilots and technicians can use it to more easily adapt to changing circumstances. In addition, they found the Defender system to be unmatched in performing long hydraulic tunnel inspections.



Results

ASI Marine expanded its service area in Western Canada thanks to the Mission Specialist Defender underwater robotic system. The overall versatility of the Defender system and the ability to swap parts to modify and build customized ROVs for specific tunnel missions enhance the team's capabilities. The Defender system enables them to use four sonars at once, swap cameras, change tether length and use Greensea Systems software for tunnel profiling operations.



The Defender robotic system is easy to deploy and operate, and the ability to adapt the vehicle to specific missions makes it the best choice for underwater civil inspections.

— Dan Cousineau, Professional Engineer, ASI Marine

