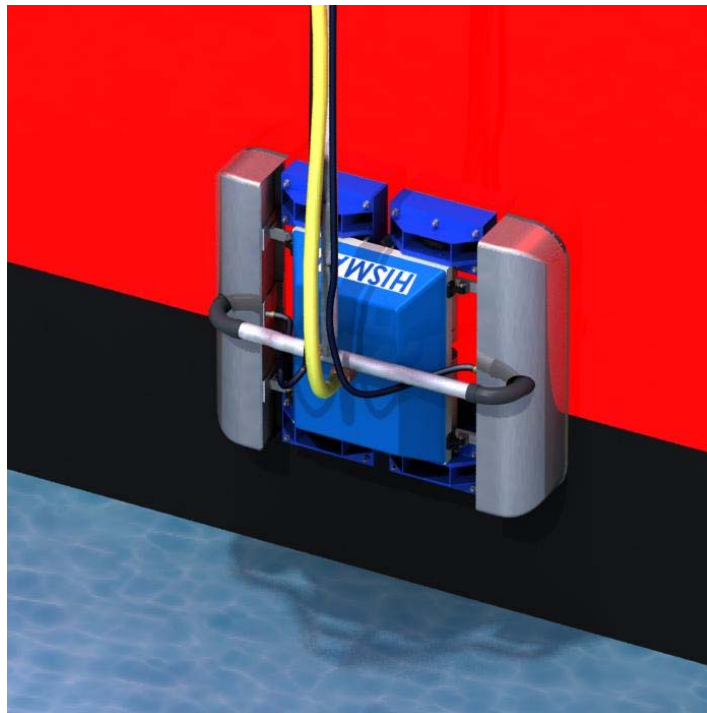


## Hull Identification System for Maritime Autonomous Robotics

HISMAR is a multifunctional robotic platform for inspection or specific maintenance tasks such as structural integrity monitoring of the ship's hull or cleaning operations. This system offers a means for effectively and efficiently undertaking hull inspection and maintenance thereby potentially extending the safe working life of the vessel, and reducing maintenance and fuel costs.

### Benefits

- Reduced drag
- Reduced fuel costs
- Reduced CO<sub>2</sub> & NOX emissions
- Reduced maintenance times
- Improves maintenance planning
- Reduces environmental impact of hull fouling



### General Specifications

- Travels at speeds of 0.48m/s
- Magnetic attachment system can hold up to 350kgf
- Provides hull cleaning above & below waterline
- Modular design for additional tool

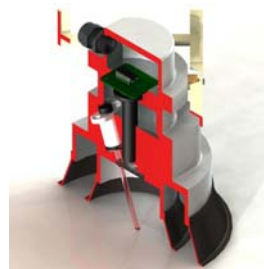
### Key Features:-



#### Cleaning Head

- Designed to remove very light to medium fouling
- Uses adjustable high pressure water jets
- Maximum pressure 200bar
- Removes all wastewater up to 150l/min

#### ODRS



#### Navigation

- Allows autonomous or manual control
- Uses magnetic landmark detection & optical dead reckoning systems to navigate
- Maps surface & subsurface hull features
- Monitors & updates condition of the ship's hull
- Unique trajectory planning software allows for partial cleaning of the hull

#### MLRS

