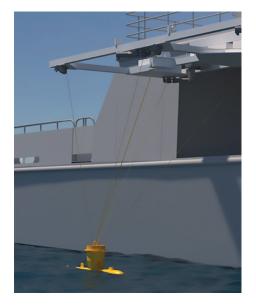


ZERO HUMAN INTERVENTION VIA AUTOMATIC GRASPING OPERATIONS (ZHIVAGO)

Launch and Recovery System (LARS) for marine vehicles from a ship or platform. The innovative robotic system can handle autonomously manned and unmanned, surface and underwater vehicles.

MAIN CHARACTERISTICS

- Fully-automatic launch and recovery with cable driven parallel robot technology
- > Autonomous grasp with target vehicle lift-point detection and tracking
- Stabilization of vehicle swinging during deploy and lifting with compensation of the ship induced motions
- > One or two lifting points
- > Painter line option for launch and recovery of surface vehicles at speed
- > Step maneuver and manual override



BENEFITS

- > Safe launch and recovery of marine vehicles in all weather conditions
- > One LARS of all marine vehicles
- > Rapid and effective launch and recovery
- > Reduced manning for operation (1 person for surveillance)
- > Compact installation for unmanned boat recovery
- > Applicable for mission bays with a wide range of loads





TECHNICAL SPECIFICATIONS (STANDARD DESIGN)

- > Electrical handling motors
- > Lifting capacity up to 12 t
- > Vehicle length up to 12 m

INSTALLATION AND ENVIRONMENT SPECIFICATIONS

- > On the vehicle: simple connection ring
- > On the ship: frame handler in two basic options
- > Sliding frame: upper deck installation
- > Tilting frame: over deck installation
- > Automation cabinet

LIFTING VERSIONS

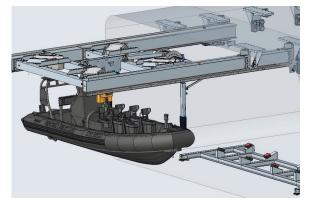
- > One station, lifting point
- > Two stations: one or two lifting points
- > Painter line option

PATENT PENDING

- > EP 3988440
- > South Korea 10-2021-0139332
- > USA 17/500,283







L3Harrissellsht_ZHIVAGO

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