

MERMAC eA

Robust and efficient all-electric LARS solutions



Incorporating trusted MacArtney technology, the all-electric MERMAC eA-frame addresses the growing market demand for more eco-friendly solutions.

This cost-efficient and environmentally conscious MERMAC system features MacArtney's proven technology, delivering over 30% improved energy efficiency compared to hydraulic systems. With zero pressurised oil over water, the risk of oil spillage is significantly reduced.

A forward-thinking technology solution, the MERMAC eA-frame is designed and manufactured in Denmark, drawing on MacArtney's experience since 1978. It can be delivered as part of a complete Launch and Recovery System (LARS) or as a stand-alone A-frame, offering excellent versatility. The all-electric system is fully customisable to meet specific customer requirements and technical specifications.

The robust design includes an optional Emergency Recovery Mode, ensuring safe recovery even in the event of a drive malfunction.

The MERMAC eA-frame offers a low cost of ownership, with a design focused on ease of maintenance. Spare parts are lightweight, readily available, and easy to replace. Maintenance requirements are significantly reduced by eliminating hydraulics, and the electronic control system ensures smooth operation, reducing wear and tear.

Plug-and-Play installation simplifies mobilisation and enhances operational efficiency by eliminating the need for hydraulic setup.

Integration with MacArtney electric winches enables the conversion of a complete LARS to one-person handling. The intelligent control system supports future upgrades, ensuring long-term versatility and value.

With a high degree of integrity and built-in redundancy, the MERMAC eA-frame minimises downtime and delivers a cost-effective, future-ready solution.

Features and benefits

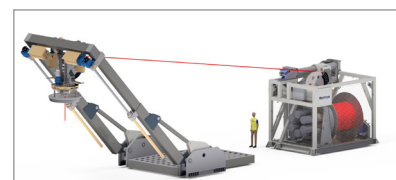
- Improved energy efficiency
- Zero pressurised oil over water
- Significantly reduced risk of oil spillage
- Plug-and-Play mobilisation
- Maintenance work reduced by up to 50%
- Cost-efficient spares with minimum lead times
- Actuation based on tried and tested technology
- Built-in actuation system redundancy
- Highly versatile and future proof
- Surpasses existing LARS key performance criteria
- Compact design increases workspace on skid
- Fully scalable design supports any payload
- ILO 152 lift certified

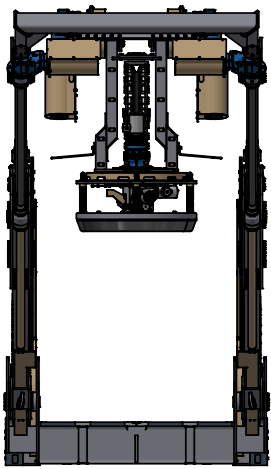
Applications

- Work, inspection and observation-class ROV systems
- Towed vehicle and instrumentation platforms
- Oceanographic systems, sensors and equipment
- Seabed drilling and sampling systems
- Handling and support for subsea completion
- General marine instrumentation

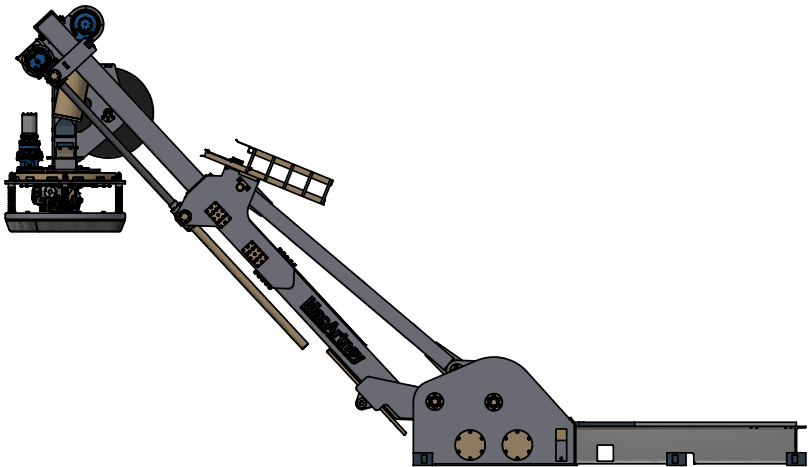
System options

- Latch and docking bullet feedback
- Integrated winch and A-frame control
- Automated launch and recovery
- Intelligent extension/retraction for hanger use
- Data logging for maintenance use
- Emergency Recovery Mode
- Universal remote access
- 690 VAC power supply
- Energy harvesting
- System certification to DNV-ST-0378
- Lifting certification to DNV-ST-E2.7-3 R30
- Sheave for towing





Width



Frame outreach

Length

Specifications

	SWL	Docking head	Max gross	Base width	Base length	Max stack height	Distance betw. legs	Frame outreach
model	kg	-	kg	mm	mm	mm	mm	mm
MERMAC eA35	3,500	yes	TBD	2,440	3,660	2,400*	1,850	3,250
MERMAC eA75	7,500	yes	TBD	TBD	TBD	TBD	TBD	TBD
MERMAC eA150	15,000	yes	TBD	3,600	6,000	6,200*	3,600	6,100

Others available upon request, SWL range unlimited

* With 400 mm clearance underneath

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