

# R/V SIKULIAQ

RVOC April 24th, 2014



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# Tentative R/V SIKULIAQ Schedule

Tentative Date	Schedule
November/December, 2013	Propulsion Trials Builders Sea Trials I and II Completed
February, 2014	Acceptance Trial
April to early May	Drydock Bay Shipbuilding Sturgeon Bay (Z-drive Repair/Modification)
May	Acceptance Trial part II
Late May , 2014	Accept the SIKULIAQ
June, 2014	Dockside MMC (Outfit and Crew Training)
Late June, 2014	Depart Great Lakes via St Lawrence Sea Way
July,2014	WHOI (PCO2, Gravimeter, Geo Cam install)
July, 2014	Puerto Rico Winch Trials
August, 2014	Transit to the Pacific via Panama Canal
September, 2014	Begin Science Operations

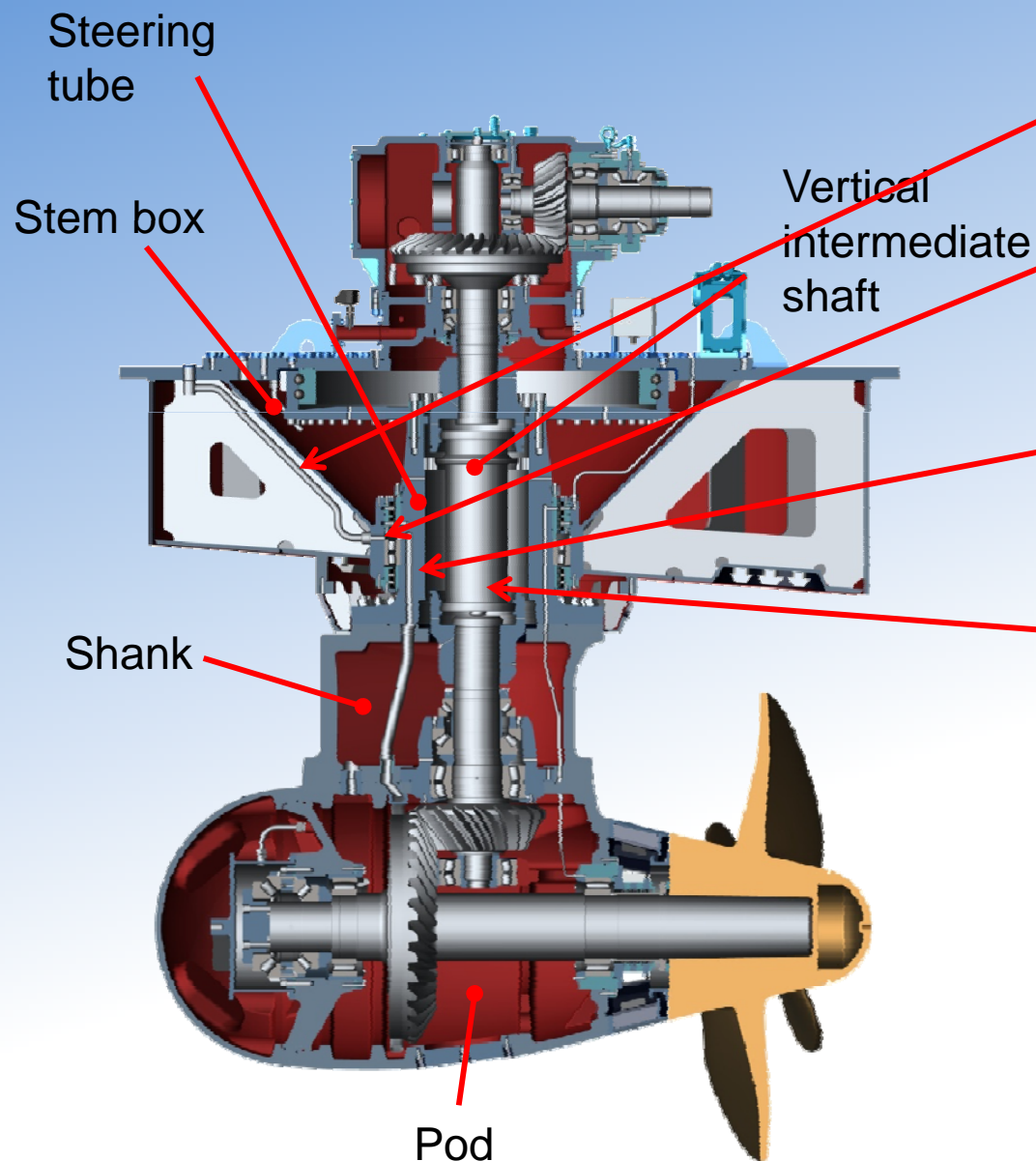


# Stern Looking Forward



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- Lube oil suction line passes through the stem box and into the housing for the seals and bearing at the bottom of the stem box. The housing is stationary.
- The lube oil passes through a port in the housing and mates up with an oil groove in a lining that rides on the steering tube. The steering tube connects to the shank and the pod and rotates to turn the Z-drive.
- There is a port in the groove of the lining that allows the oil to pass from the groove through a passage machined within the steering tube and down into the pod for the suction pickups.
- The vertical shaft rotates within the steering tube to transmit the power down to the lower gear box.
- The lining on the steering tube with the oil groove is pinned in place to rotate with the steering tube using three pins. Wartsila believes the three pins have failed which allowed the lining to shift rotationally relative to the steering tube so the port in the groove of the lining no longer lines up with the internal oil passage in the steering tube.









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# CTD Load Handling System



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The background of the slide features a detailed, sepia-toned illustration. In the foreground, the large, complex machinery of a steam engine is visible, with various gears, pistons, and a large flywheel. In the background, the hull and masts of a multi-masted sailing ship are visible, suggesting a historical or industrial context. The overall tone is professional and technical.

# Multi-Tool Interface Pack & Tooling Development

## April Status Slides

Prepared for : The Glosten Associates

18 April 2014

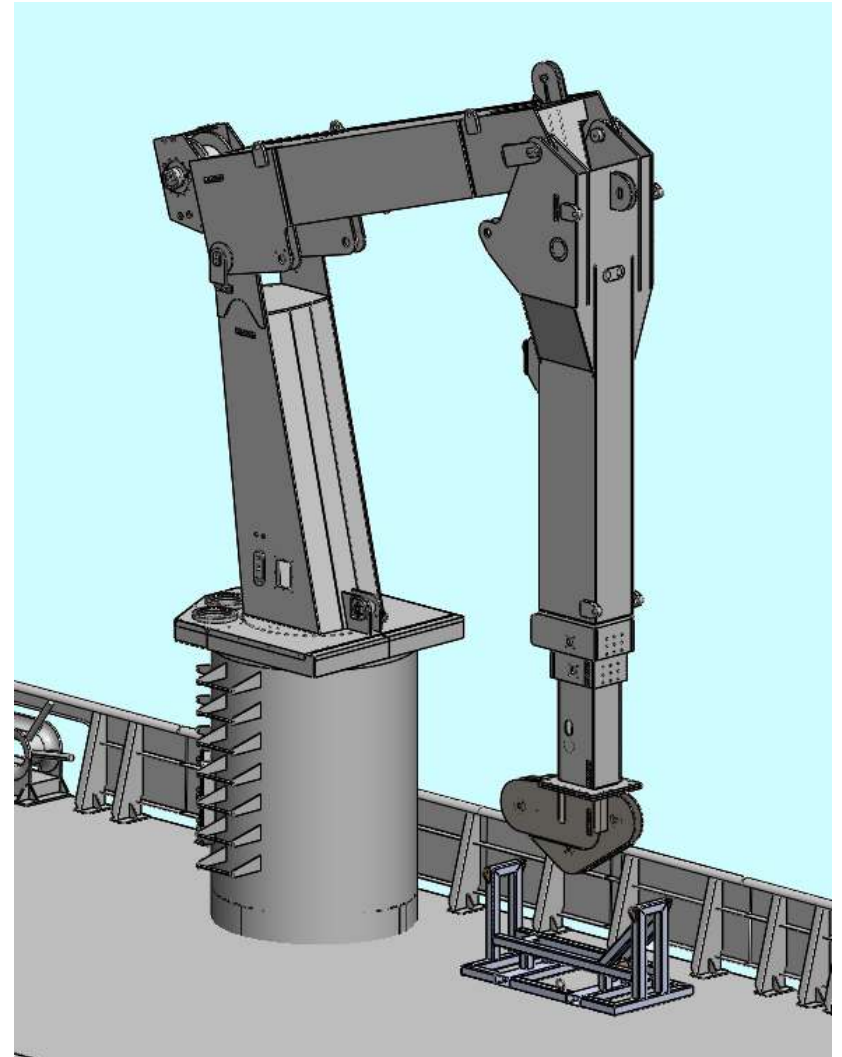
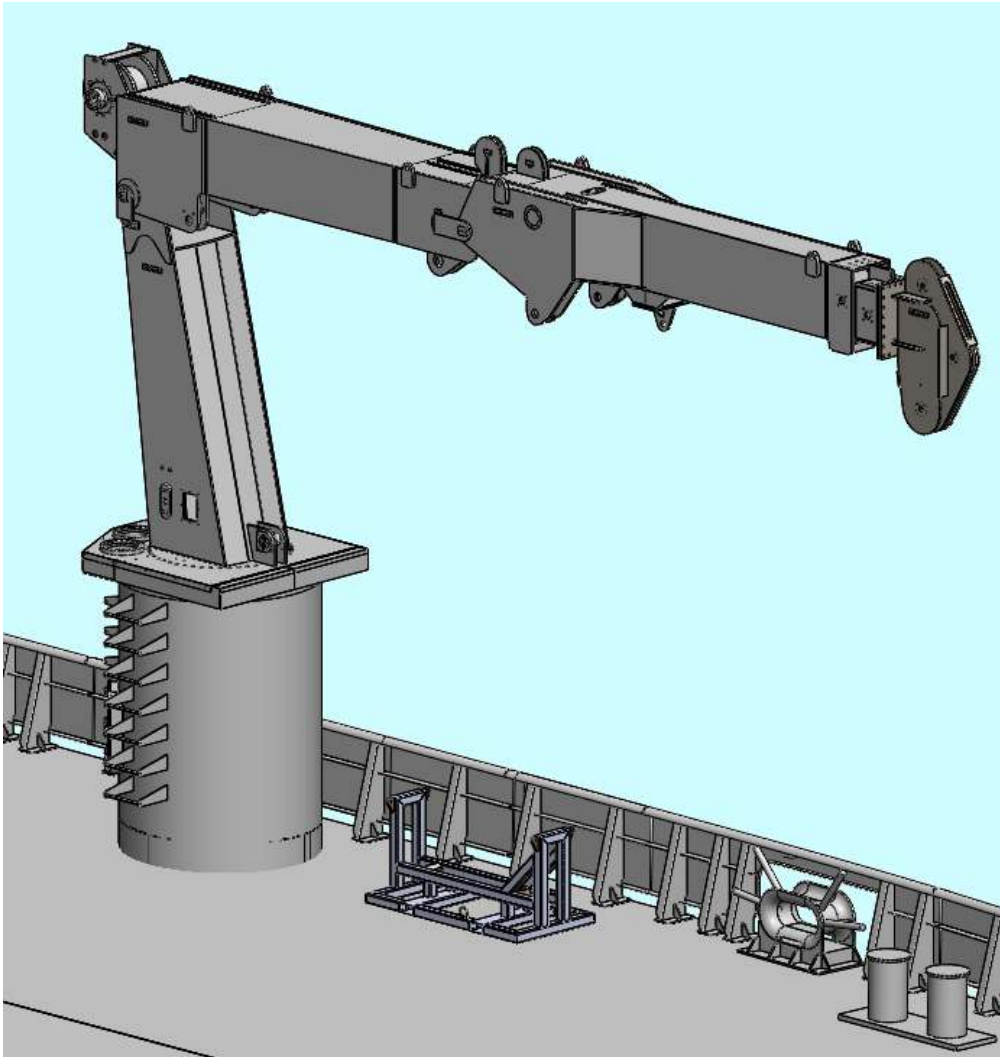
By: Michael T. Einhorn P.E.

Einhorn Engineering, PLLC

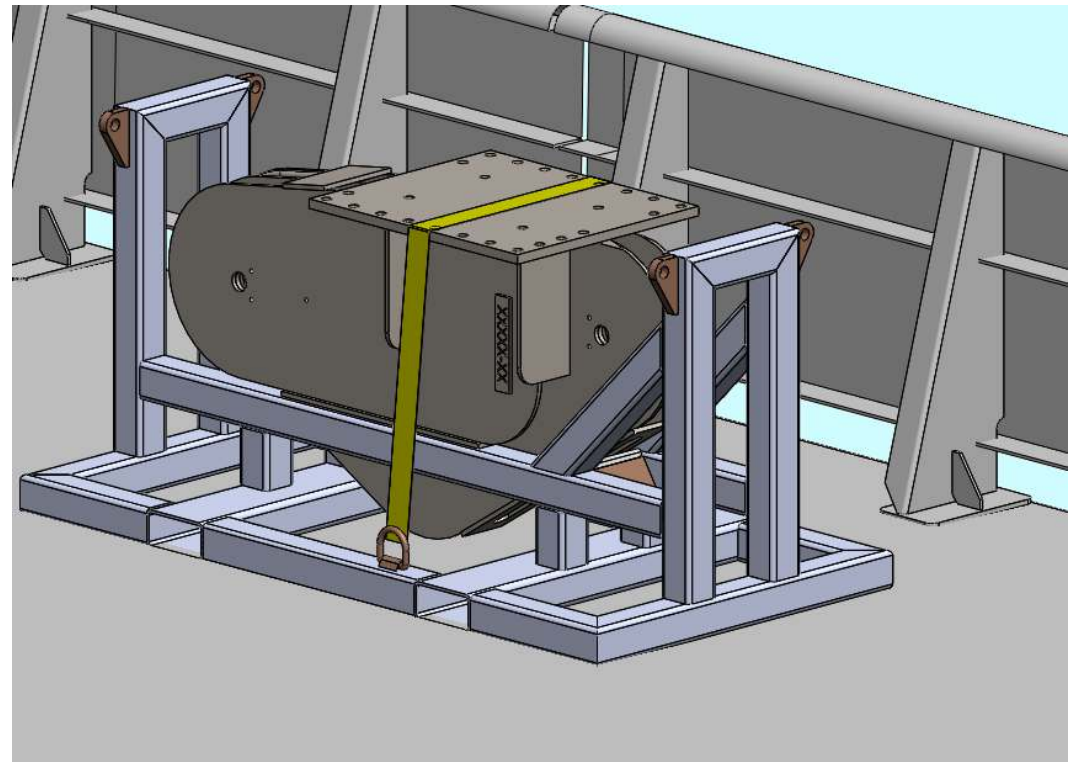
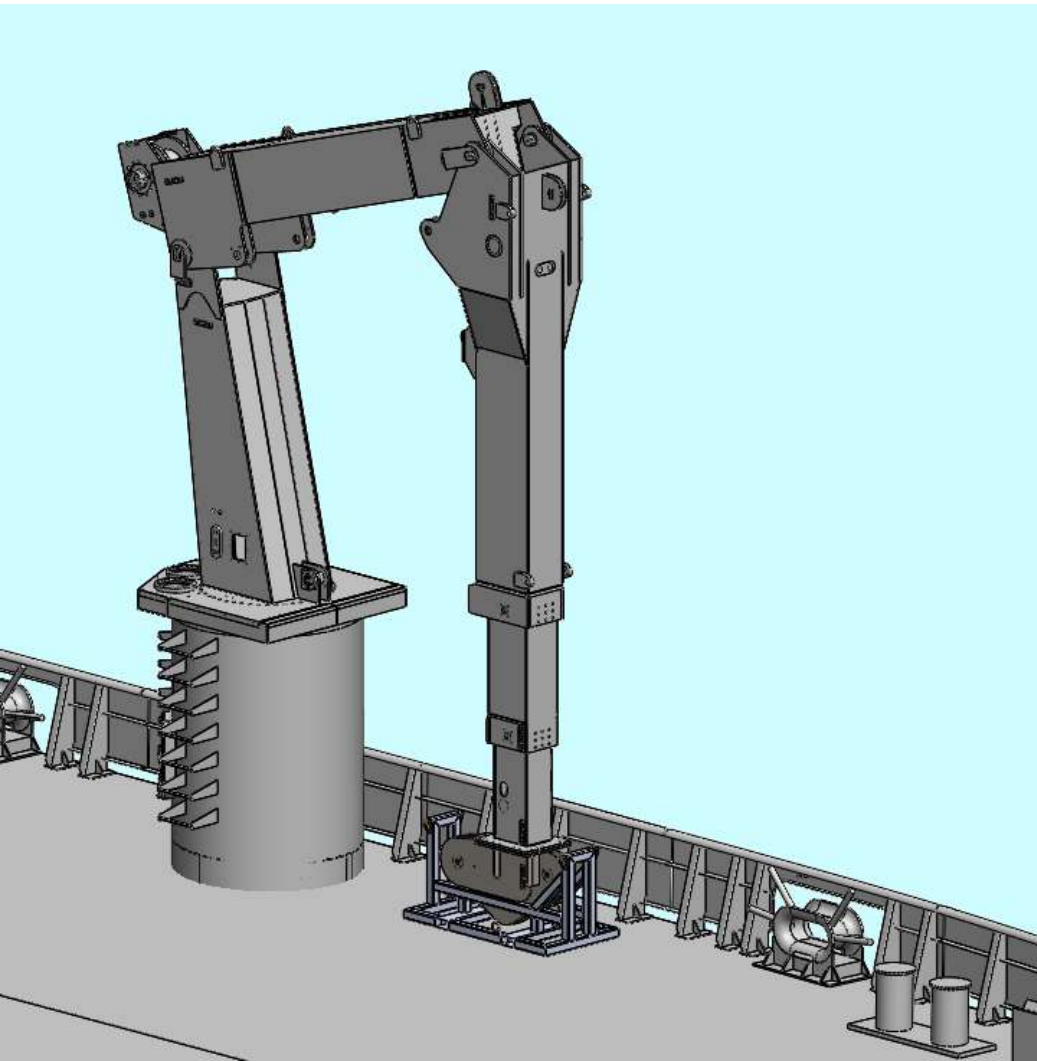
**EINHORN**  
ENGINEERING PLLC



# Headbox Detachment



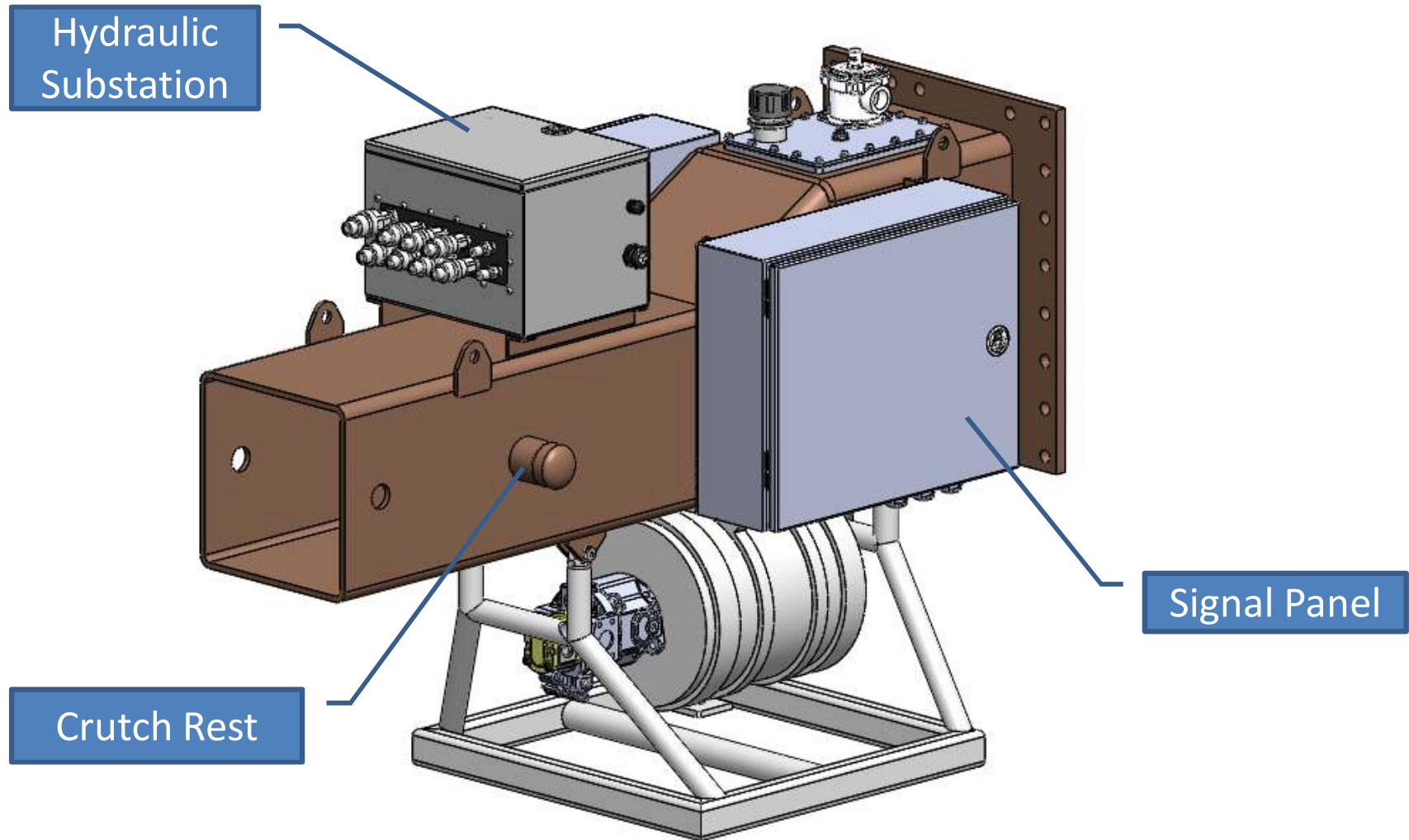
# Headbox Detachment



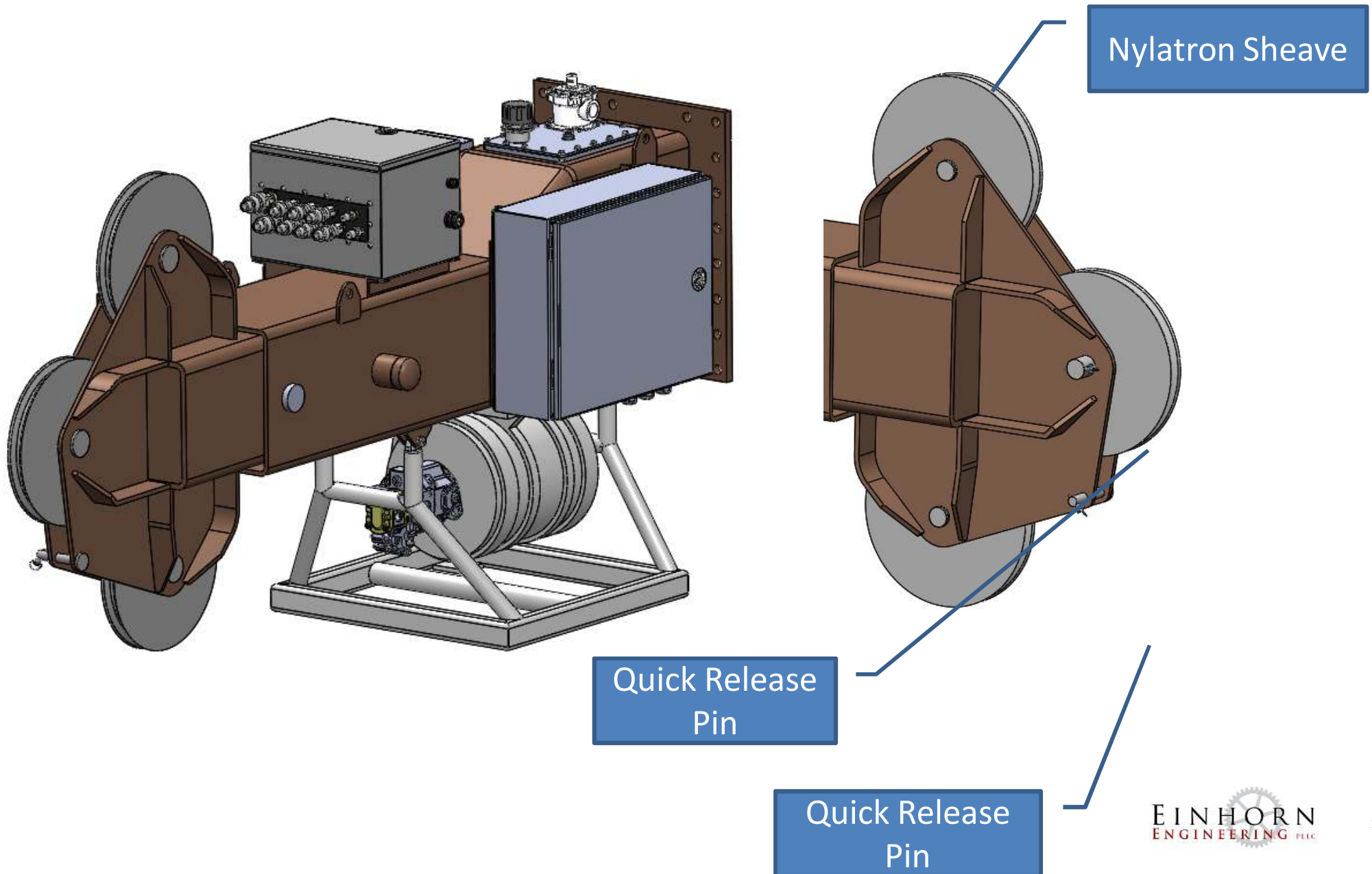
Strap and stow



# MTIP Isometric View

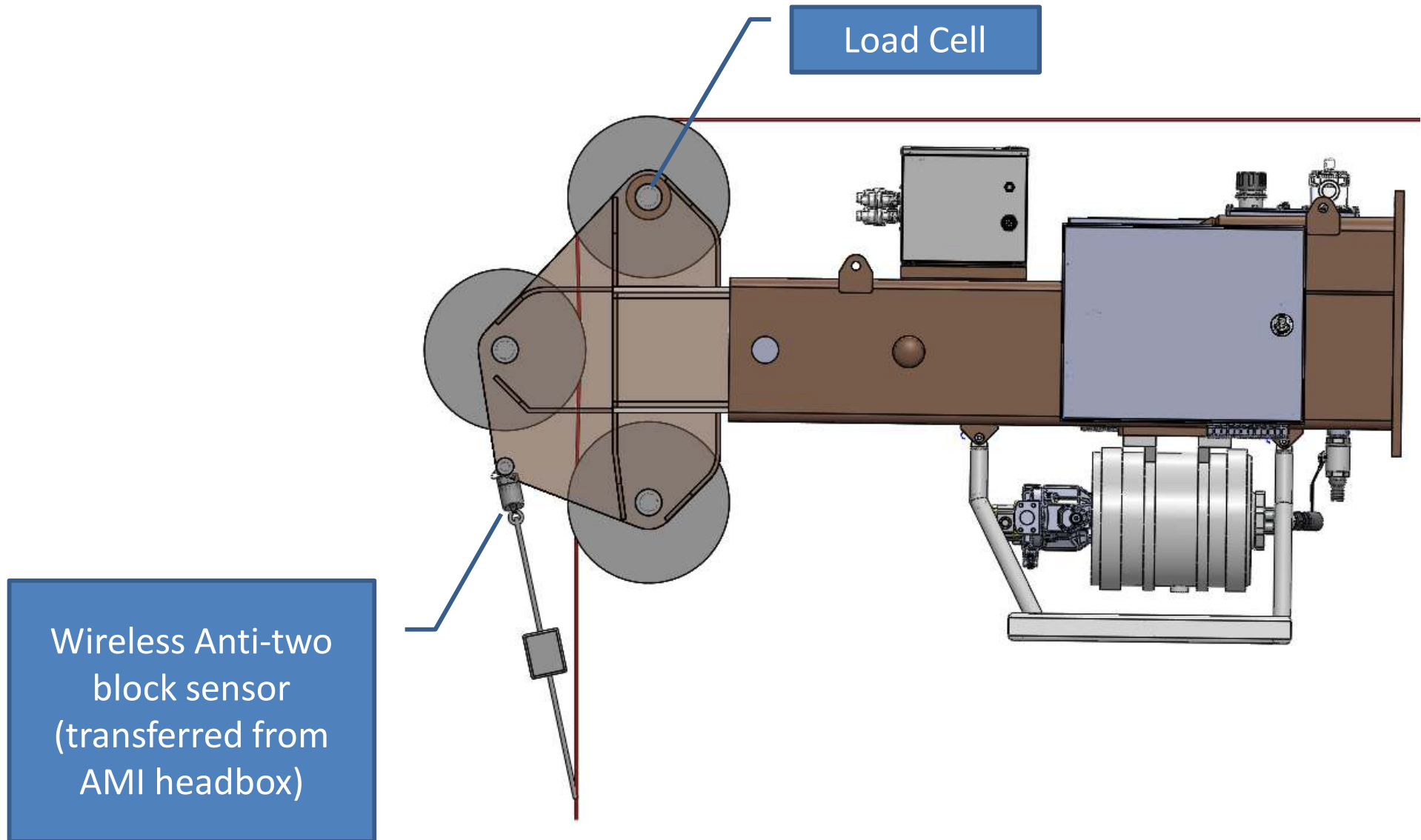


# Jib Attachment

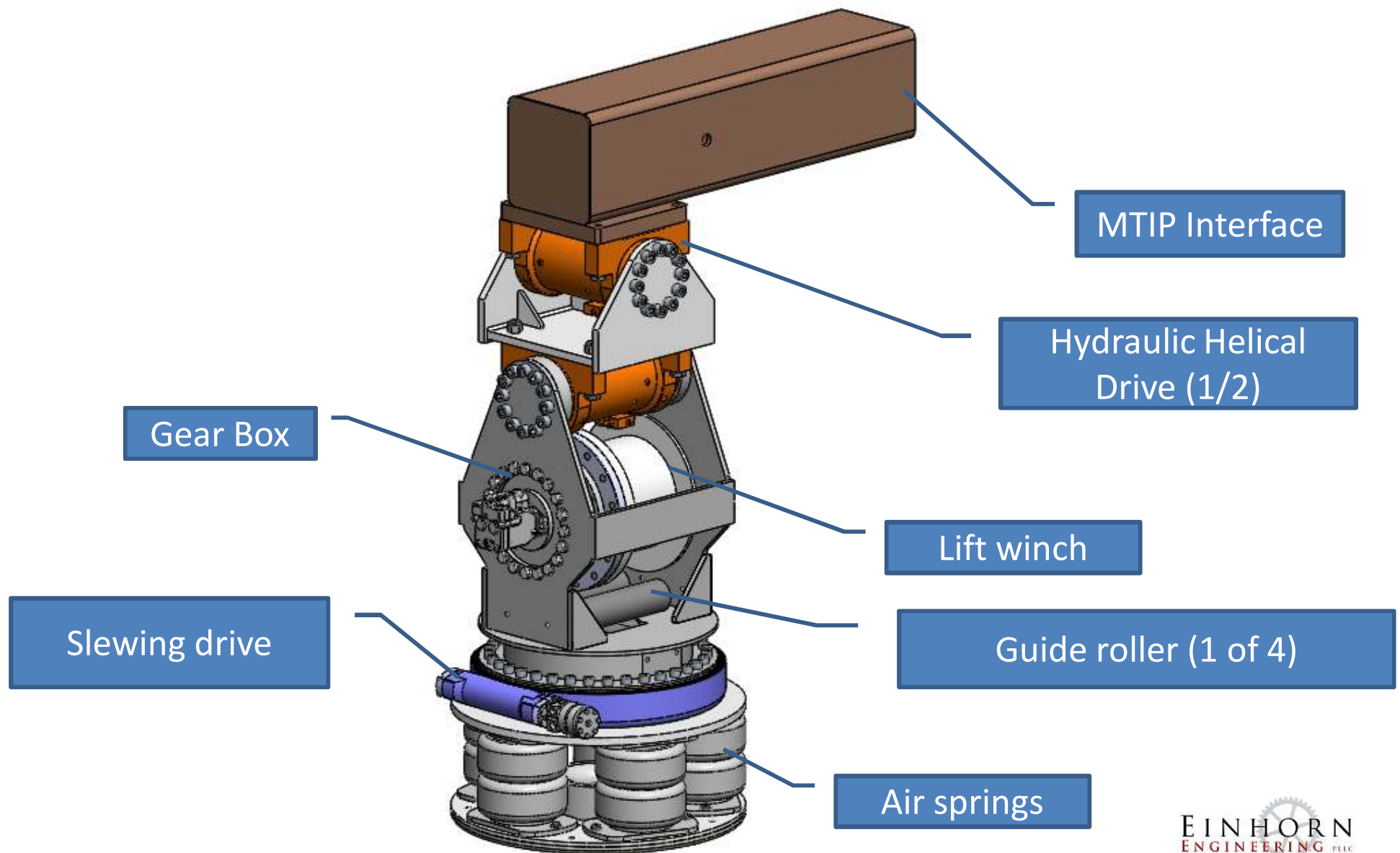




# Jib Attachment Wire Routing

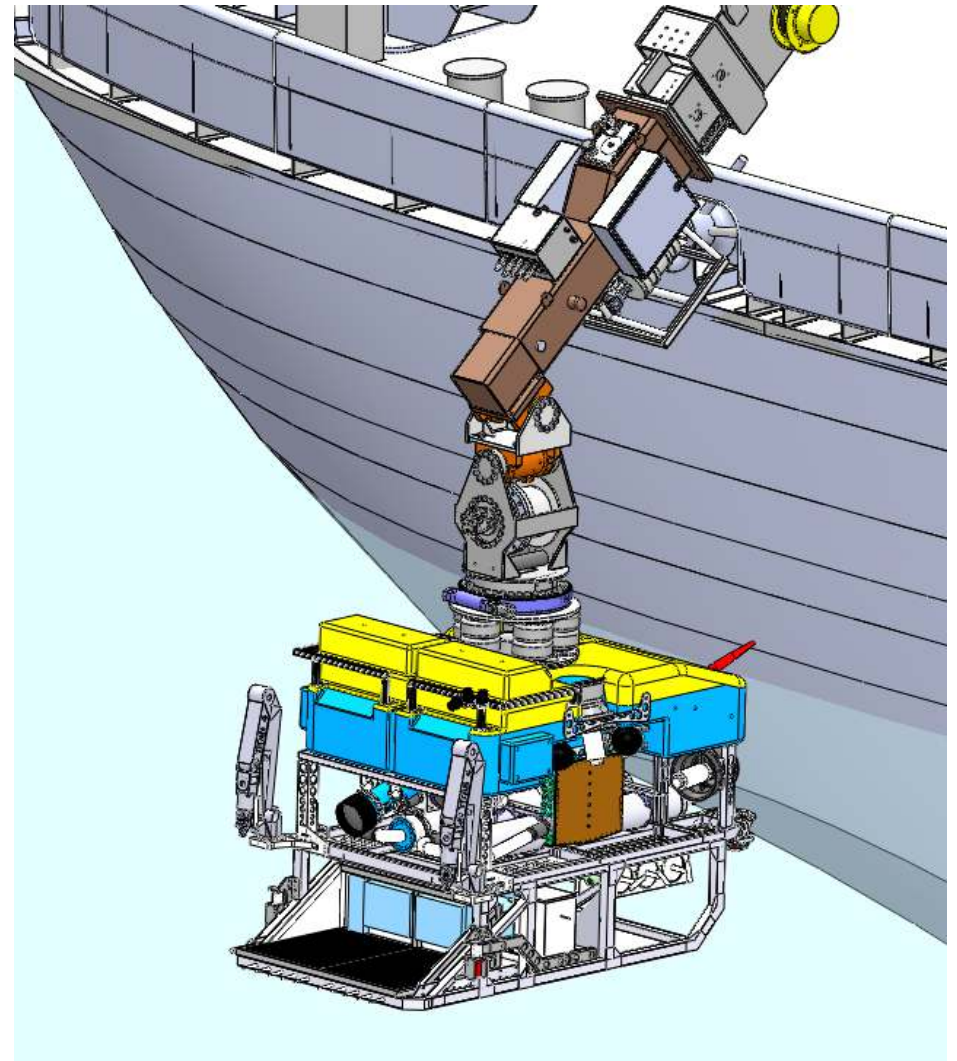
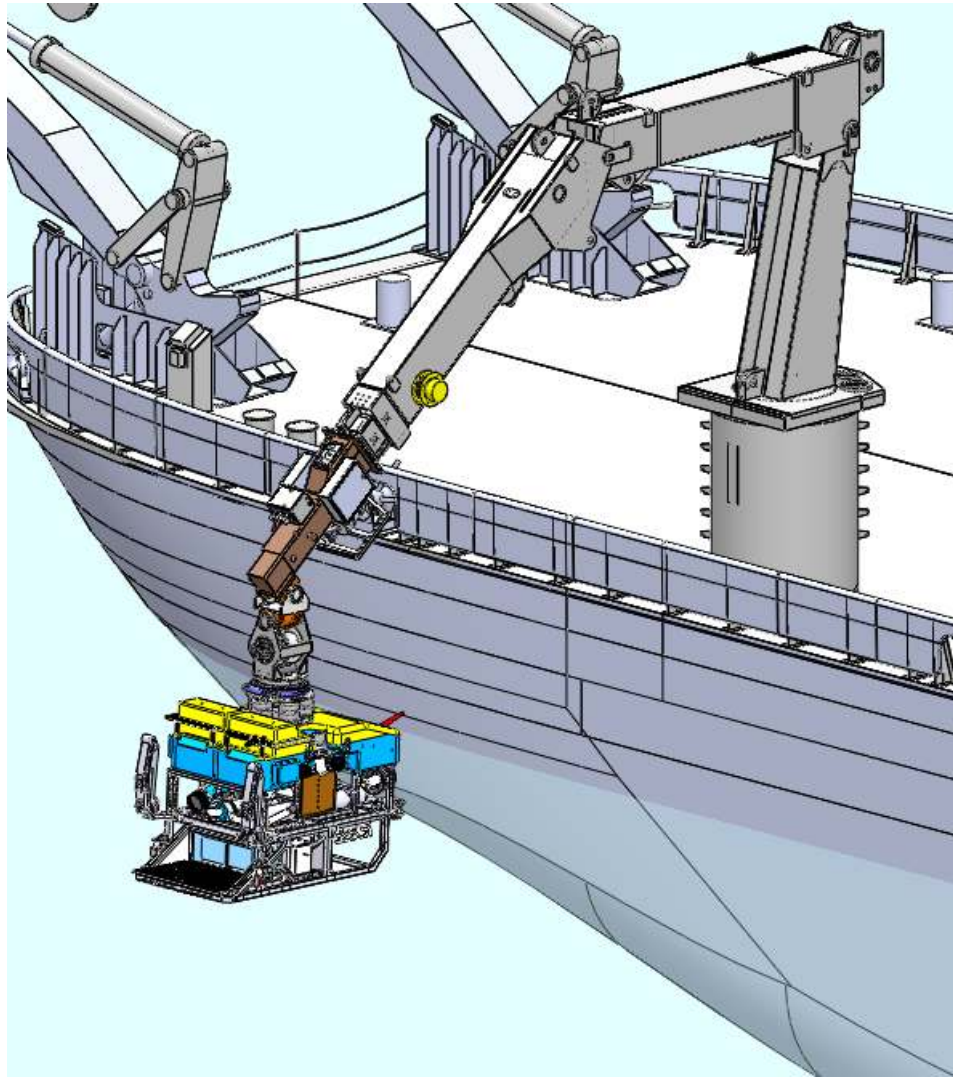


# Docking Head Concept-Jason configuration

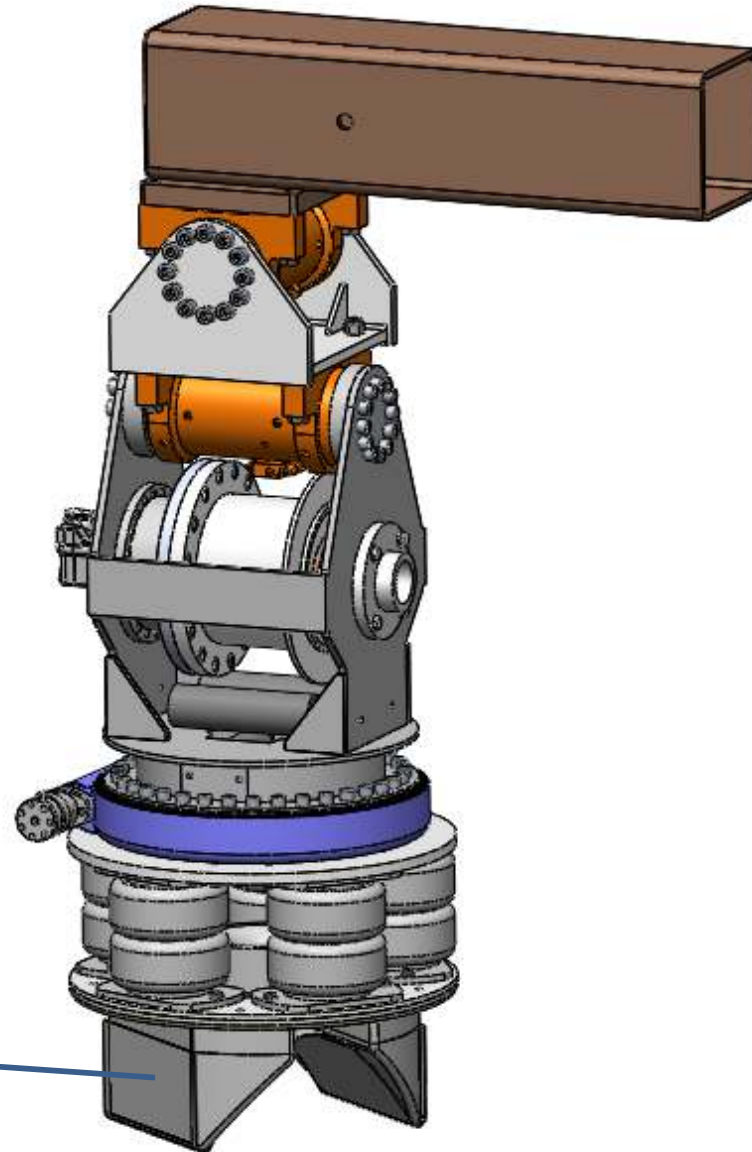




# Docking Head with Jason ROV



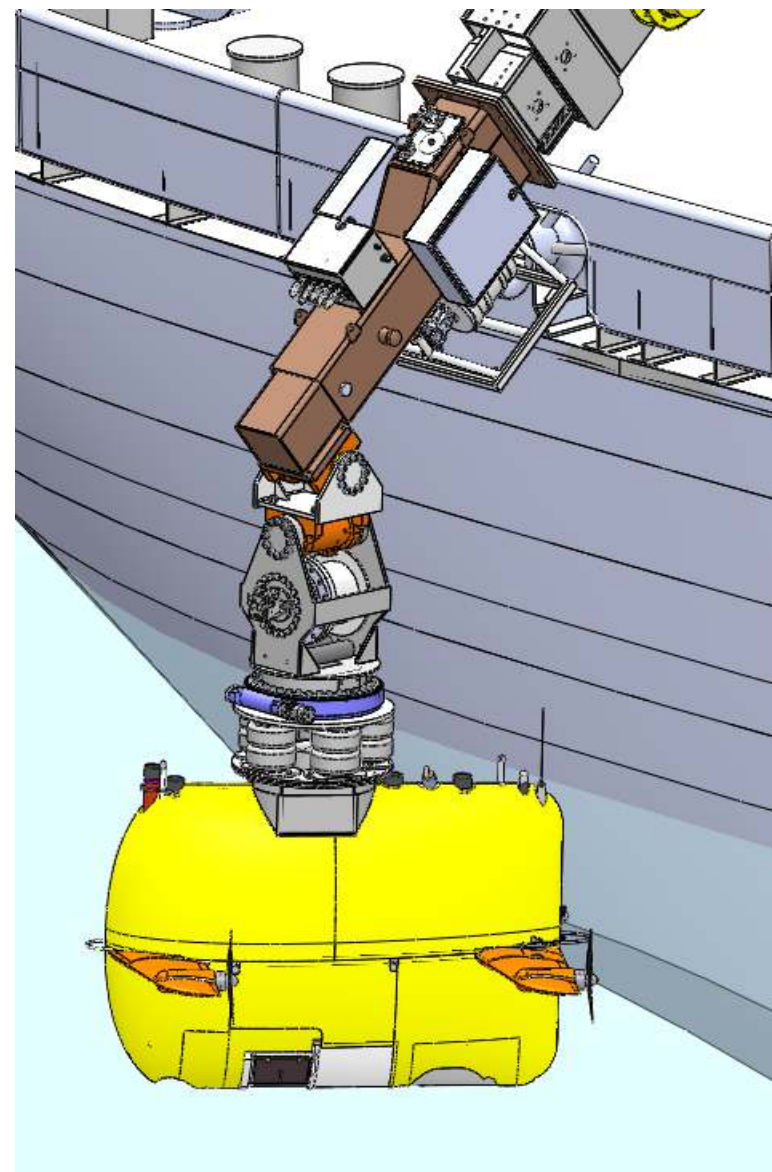
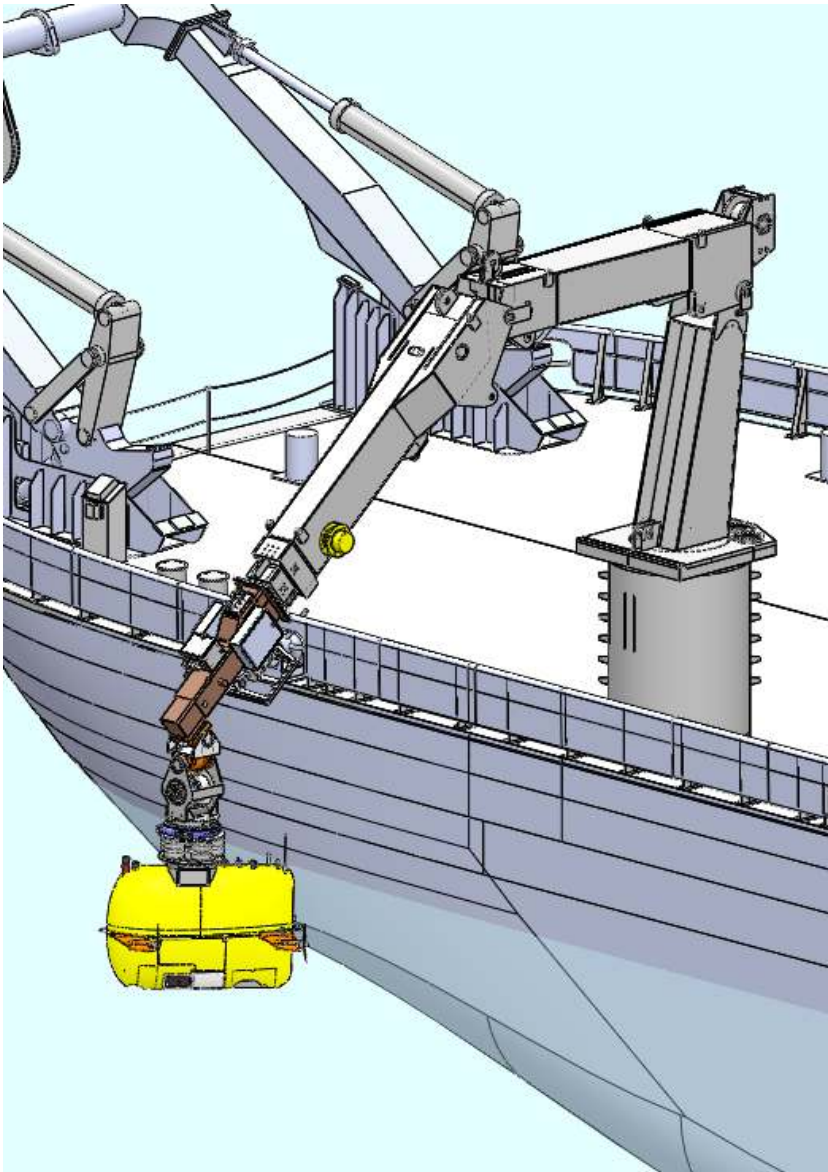
# Docking Head Concept-Sentry Configuration



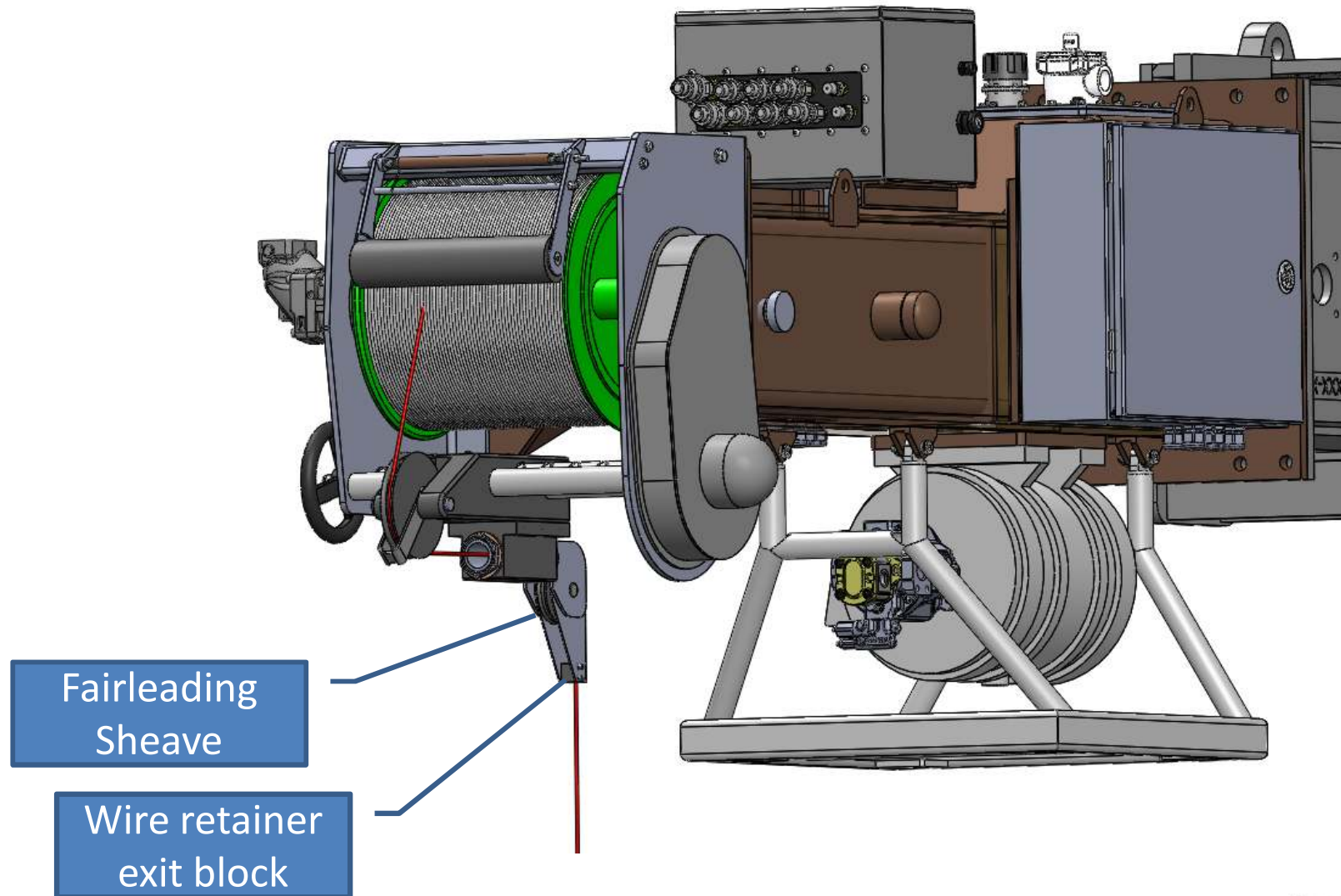
Sentry Mating  
Module



# Docking Head with Sentry ROV



# Science Winch Tool





# Integrated Bridge (Marine Technologies)



**ARRV (0650) MV SIKULIAQ  
PROGRESS PHOTO**

VIEW: 015  
DATE: 10-13-13  
CONTRACT NO.: UAF-10-0040  
DESCRIPTION: Bridge 04-24-0



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# AFT Winch Room (Traction Winch)



**ARRV (0650) MV SIKULIAQ  
PROGRESS PHOTO**

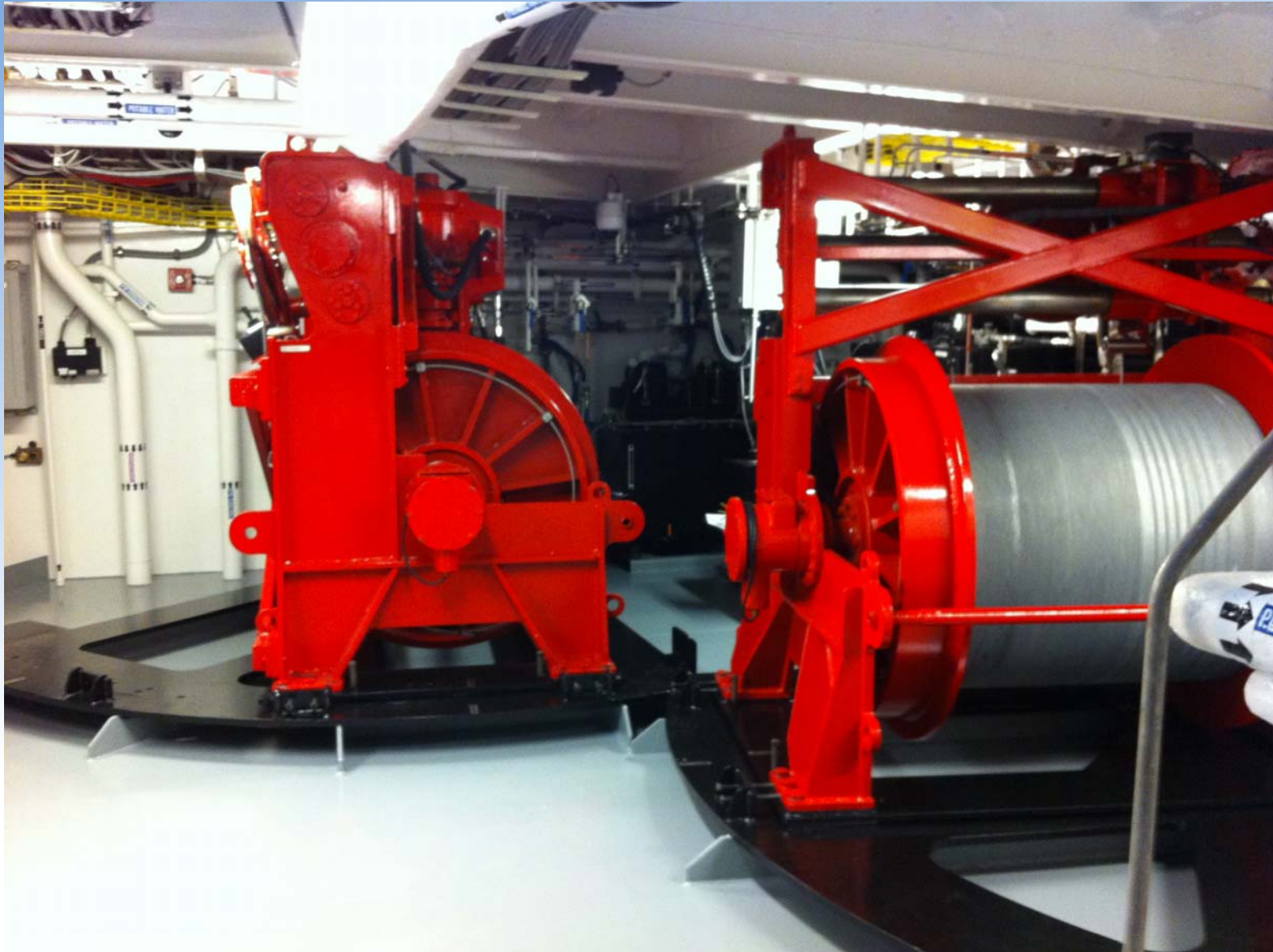
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CONTRACT NO.: UAF-10-0040  
DESCRIPTION: Aft Winch Room 2-85-0



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# Forward Winch Room



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# Acceptance Trials February, 2014







Questions?

