SEHO ENGINEERING

PROJECT WORK REPORT

Design of Special Lifter for Ship's Propulsion

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Lifting and Moving Technology
SEHO ENGINEERING

Design of Special Lifter for Ship's Propulsion

We designed/manufactured POD Installation Equipment (Elevator) on Icebreaker ships and Propeller & Rudder I nstallation Equipment (Propeller ADD-ON & Rudder ADD-ON) for traditional ship propulsion and steering devices. ADD-ON equipment is configured to be placed in the elevator to install propellers and rudder on the vessel.

Project Period

2021. 08 ~ 2023. 09

Scope of Work

POD Lifting Elevator & Rudder, Propeller Installation Equipment (Design & Manufacture)

1) POD Lifting Equipment (Elevator) : Capacity = 450 ton
2) Propeller Installation Equipment (Propeller ADD-ON) : Capacity = 100 ton
3) Rudder installation Equipment (Rudder ADD-ON) : Capacity = 80 ton

Project Site

● Elevator 제작

● Propeller ADD-ON

● Rudder ADD-ON

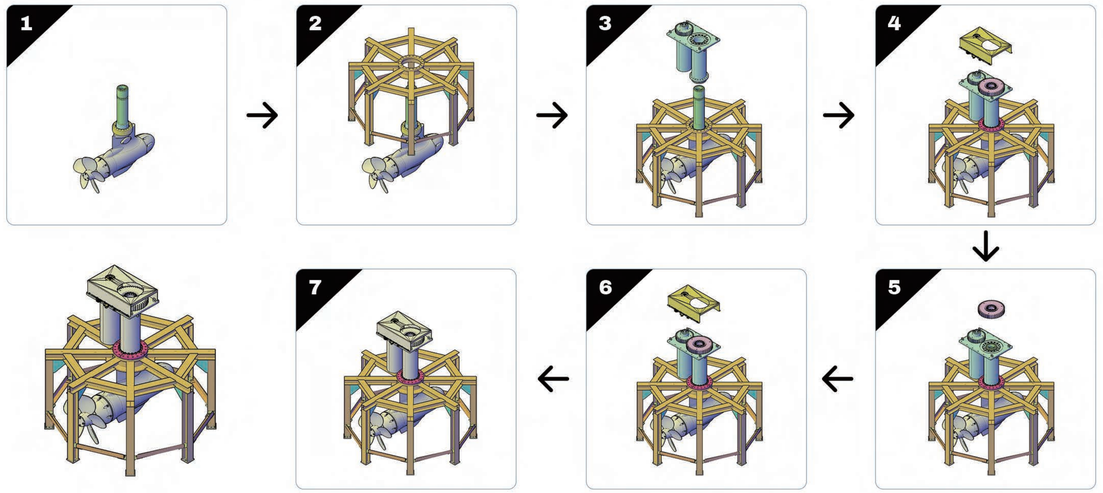
● POD Installation (Elevator) - ABB 252ton

● POD Installation (Elevator) - GE 309ton

● Propeller Installation (Elevator + Propeller ADD-ON)

● Rudder Installation (Elevator + Rudder ADD-ON)

● Assembly Procedure - Test Jig Structure for the small POD 1.5ton



Work Performance Records for the last 3-years

No.	Project Name	Company / Contractor	Duration	Remarks
14	ITER - VS - Coil in Situ Winding Work - Staging & Prototype Design	IO / Yujin MS	2022~2023	On-going
13	Vacuum Insulated Pipe Design & Analysis	DuckCheun	2022~2023	On-going
12	Artificial Structure for Display	Government / GSI	2023	On-going
11	HD-10,000 F/C Mooring Design & Analysis	SK Ocean Plant	2023	On-going
10	Consulting of Method Statement for FOWT	SK Ecoplant	2022	Finish
9	Design of Special Lifter for Ship's Propulsion	Zvezda / DH Ent	2021~2023	Finish
8	Barossa FPSO - Structural Analysis	BWO / FG Ind.	2021~2022	Finish
7	Mumbai Trans Harbour Link Project - Marine Work & Installation Analysis	Daewoo TATA / DWST	2021~2023	Finish
6	Cable Protection System(CPS) Design Analysis	DWNT / Panduite	2022	Finish
5	ITER - Bracing Tools Manufacturing Design	IO / Yujin MS	2022	Finish
4	Lifting Work Procedure for Floating Crane	Kumyong	2022	Finish
3	Vibration Analysis for SCR	WK Industry	2021	Finish
2	Power System Design of Air Boat	Government / KUMHA	2021~2022	Finish
1	Development of Mine Laying System Design	Government / KUMHA	2020~2022	Finish

Software & Tools

ANSYS
Structural Analysis

ENGYS
Applications by Industry
CFD & Optimisation

Orca3D
Orca3D
Marine Design for
Rhinoceros

OrcaFlex
Dynamic Analysis Software
for Offshore Marine Systems

SACS
Structure Analysis
Computer System for
Offshore Plant

PATRAN & FEA2007
Hull and General
Structural Analysis
Program

Rhino
Geometric
Modeling

MIDAS-NFX
Structural Analysis
& Civil Engineering

MOSES
Multi-Operational Structural
Engineering Simulator,
Motion & Stability Analysis

OPTI-MOOR
Mooring Analysis

NASTRAN
Analysis Solver

AUTO-CAD
2D & 3D Drawing

3D MAX
3D Drawing

IN-HOUSE SOFTWARE
Ballasting Calculation,
Towing Calculation,
Lug Calculation,
Welding Calculation and Etc.

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