

2024, Company Profile of GMSI





Summary

GMSI is engaged in Engineering, Fabrication, Installation, Commissioning necessary for Cranes, Industrial Machineries, and Big doors. And also do MRO works on these things.

(**GMSI**: Global Machinery Scientific Industry, **MRO**: Maintenance, Repair, Operating)



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1. General Cranes

☞ **Goliath crane** (For shipbuilding)



☞ **G.C & SGC** (Semi Gantry Crane)



☞ **LLC** (Level Luffing Crane), **Jib Crane**



☞ **OHC** (Over Head Crane)

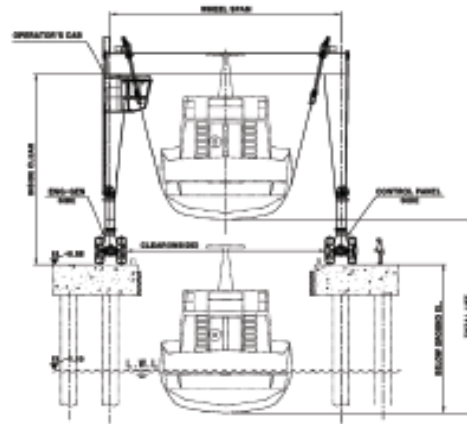
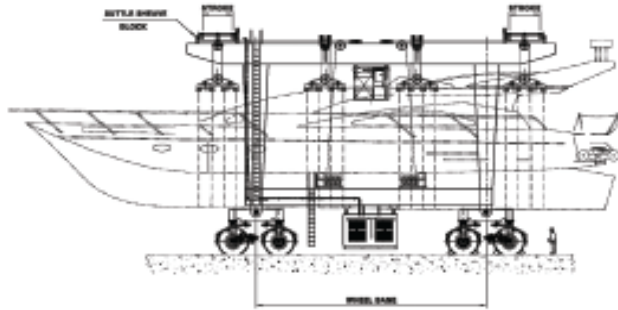




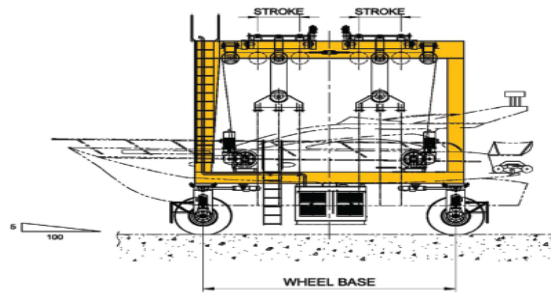
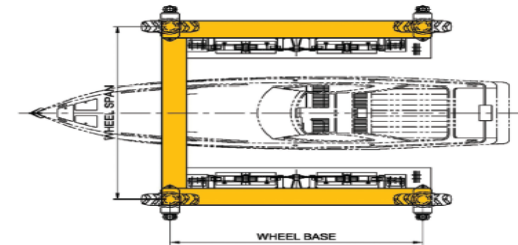
2. Special Cranes

2-1-1. Yacht Handling Cranes (Lifting Capacity 40 tons)

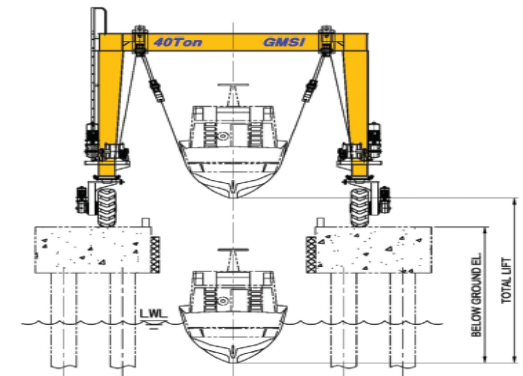
- It is structured to prevent damage to the yacht to be raised and move safely to land by applying several sling belts. The use of tires allows easy movement.
- A driving adjustment device and remote control were applied to facilitate lifting.



40ton YATCH CRANE



TECHNICAL SPECIFICATION	
RATED LOAD	40 TON - YACHT
WHEEL SPAN	6 M
NO. OF GANTRY WHEEL	4 - RUBBER TYRE
LIFTING HEIGHT	8.0(1.5+6.5) M



주요특징

- 초대형 선박 및 요트 인양 가능
- 여러가닥의 슬링벨트를 적용하여 요트의 손상을 방지하고 안전하게 육상으로 이동 가능한 구조
- 조선소에서 쓰이는 안정형 Gantry Crane 구조
- 필요시 상부 보조크레인 설치로 요트 정비 작업 용이
- 요트 인양시 마스트 간섭 없음
- 쉽게 인양 가능하도록 주행 동조장치 및 리모콘 채용
- 타이어 사용으로 쉬운 이동 가능함.

M형 요트 및 선박인양 크레인 제원

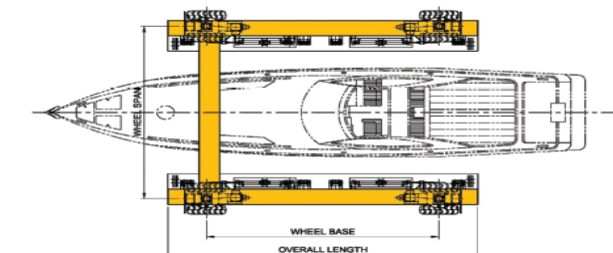
모델명	인양톤수	인양높이 및 길이
M-40	40ton	현의 후 제작
M-100	100ton	현의 후 제작
M-400	400ton	현의 후 제작



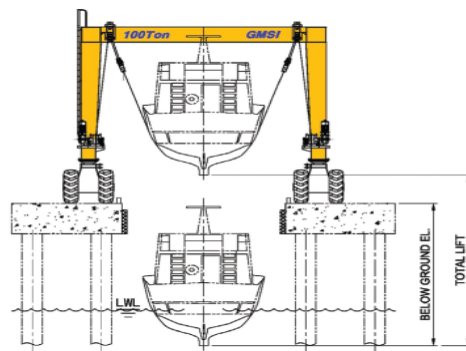
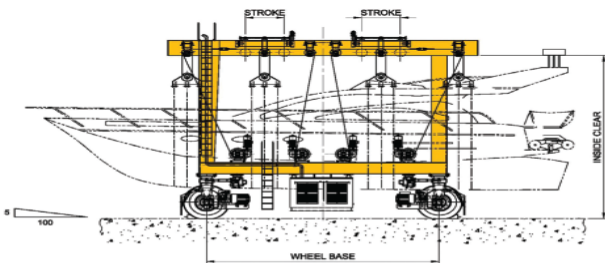
2. Special Cranes

2-1-2. Yacht Handling Crane (Lifting Capacity 100 tons, 400 tons)

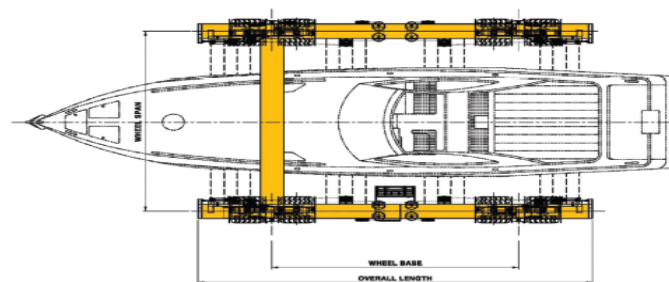
100ton YATCH CRANE



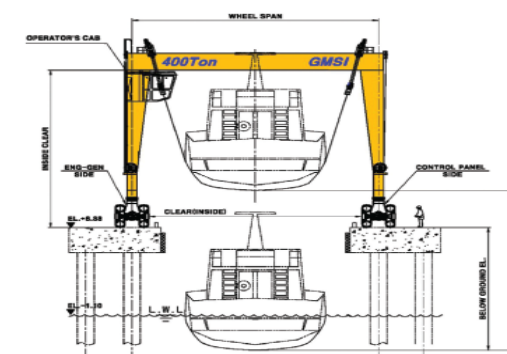
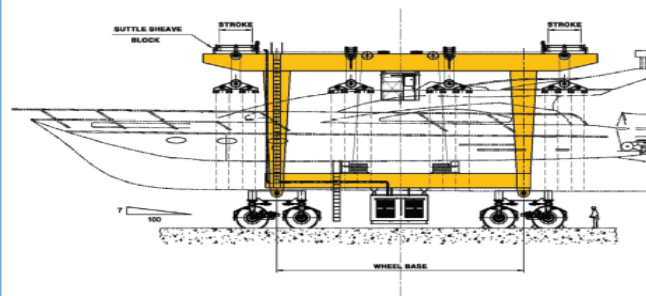
TECHNICAL SPECIFICATION	
RATED LOAD	100 TON - YACHT
WHEEL SPAN	9 M
NO. OF GANTRY WHEEL	8 - RUBBER TYRE
LIFTING HEIGHT	9.0(1.5+7.5) M



400ton YATCH CRANE



TECHNICAL SPECIFICATION	
RATED LOAD	400 TON - BOAT
WHEEL SPAN	16.5 M
NO. OF GANTRY WHEEL	16 - RUBBER TYRE
LIFTING HEIGHT	13(3+10) M



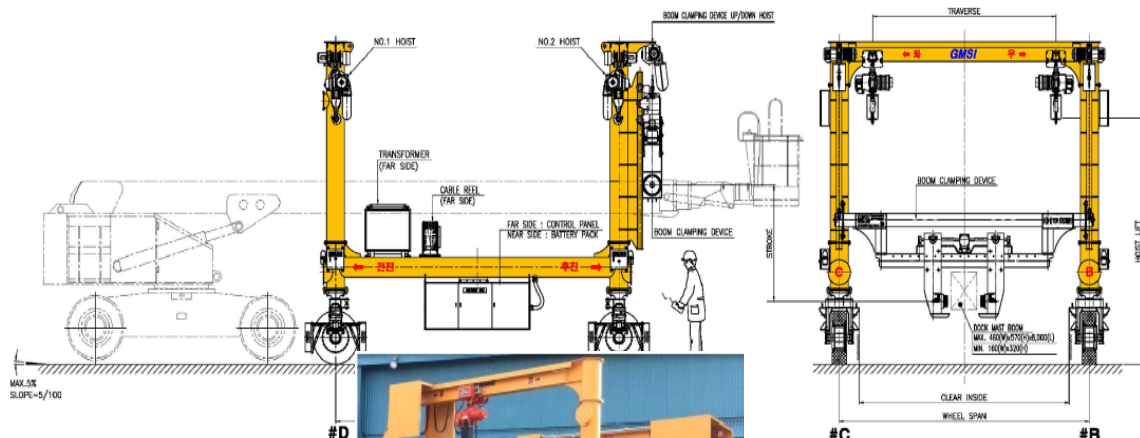


2. Special Cranes

2-2. Smart Tired Gantry Crane

- ☞ The main power supply is a battery and hybrid system.
- ☞ The steering mode consists of Gantry Travel, Cross Travel, Pivot turn.

Smart Tire Crane 고소차 붐 정비용



개요

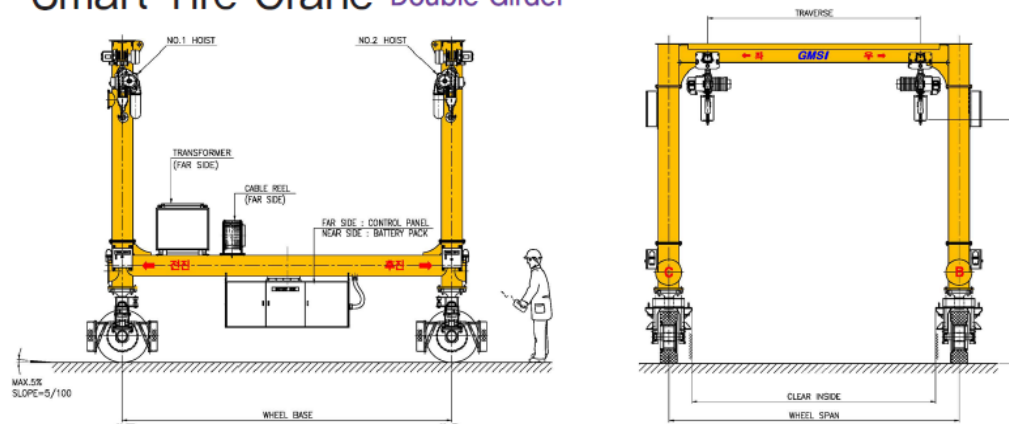
- 용도는 고소차 Boom 정비용이며, 고소차 BOOM을 Clamping Device로 분해/조립하는 설비임.
- 크레인 구성은 Hoist 2sets, Clamping Device 1set로 구성됨.
- 사용조건에 따라 추가적인 장치를 부착 할 수 있다.

특징

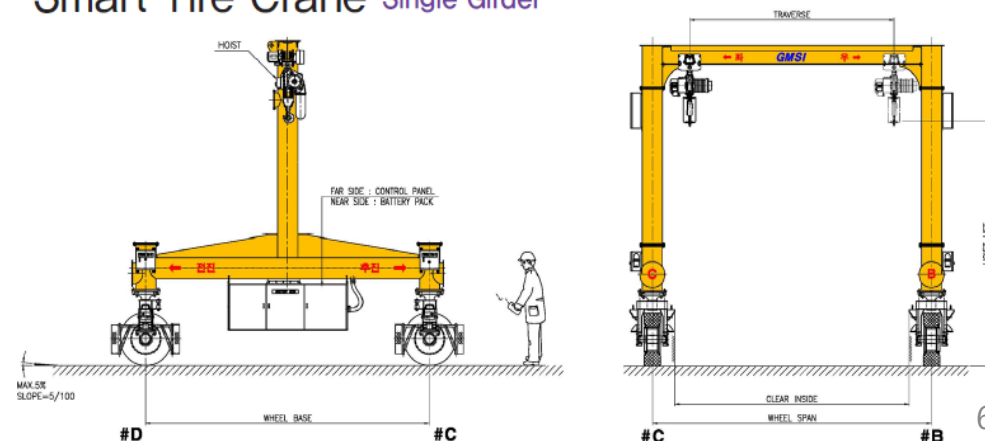
- Main 전원 급전방식은 Battery 방식이며, 하이브리드 방식을 비상전원 공급장치 부착되어 있음.
- 조향 모드는 Gantry Travel, Cross Travel, Pivot Turn으로 구성되어 있고, 주행 중 일정 요구범위로 조향기능 있음.



Smart Tire Crane Double Girder



Smart Tire Crane Single Girder





2. Special Cranes

2-3. Entry System Crane(ESC)

- ☞ Entry System Crane for lifting equipment in a factory **(Lifting Capacity 80tons]**
 - ESC supported by factory structure
 - Used in newly constructed buildings such as semiconductor factories





3. Industrial Machineries

3-1. Industrial Cranes

- ☞ **Port cargo handling facility installation**
(**RMQC, RMGC, CSU**)
(**Rail Mounted Quay(Gantry) Crane, Continuous Ship Unloader**)



3-2. Special Items

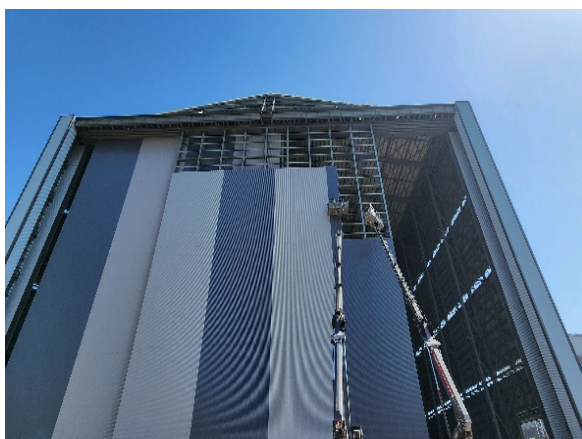
- ☞ **Tank Shell & Structure, Rotary Kiln**





4. Big Doors & Shelter

👉 Sliding Doors



👉 Curtain Doors



👉 Shelter





5. Performance Records (MRO etc.)

👉 **GMSI successfully implemented 258 projects over 11 years from 2013 to 2023 year.**

On average, 24 projects were implemented every year

Year (Q'ty)	Project Name	Purchaser
2013	Electrical components replacement for a 20 tons LMEOC	SHI
	Electrical components replacement for a 15 tons 2 LMEOC	SHI
2014 (Total 12 Project)	Replace the traveling inverter on a 10tons gantry crane	Yasena Korea
	Improvement of the hoist motor performance on a 20tons tower crane	Yasena Korea
	Improvement of the hoist & boom performance on a 200tons floating crane	SHI
	Electrical components replacement for a 30tons EOC	SHI
	Replacement of EOC hangers and cables	SHI
2015 (Total 20 Project)	Relocation of a 2.8-tons OHH crane	SHI
	Engineering services for a 251tons hook	SHI
	Replacement of the crane inverter system	Yasena Korea
	Replacement of the hoisting wire rope on a 25tons tower crane	SHI
	Manufacture and installation of a 12-tons LS hoist for Sejong Substation	KEPCO
	Manufacture and installation of a 7.5-tons hoist at Gubok Port	ChangWon City Hall





5. Performance Records (MRO etc.)

(2016 year: 26 Projects, 2017 year: 30 Projects)

Year (Q'ty)	Project Name	Purchaser
2016 (Total 26 Project)	Fabrication and installation of 6 curtain doors for a painting factory	Sung Dong
	Fabrication and installation of hand-operated rail clamps	SHI
	Replacement of the running gear on a 750-tons ship unloader	TaeYoung
	Replacement of the DU-Bush on a 750-tons ship unloader	ditto
	Maintenance and repair of a 10-tons small vessel lifter	GoSeong County Office
	Replacement of the 200-tons LLC zabara hose	SHI
	Reinforcement of the girder on a 450-tons Goliath crane	SHI
2017 (Total 30 Project)	Tower crane dismantling and re-erection	SPP
	Fabrication and installation of emergency brake	SHI
	Crane removal and reinstallation	SHI
	Reinforcement of a 250-tons SGC traveling rail in a steel stock area.	Sung Dong
	Level adjustment and relocation of a 12-tons tower crane at dock 3	SHI
	Replacement of the cable hanger on a 700-tons Goliath crane	Sung Dong
	Dismantling of a 12-tons tower crane	SHI

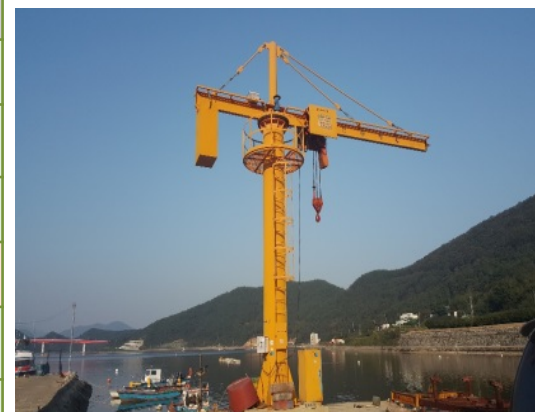
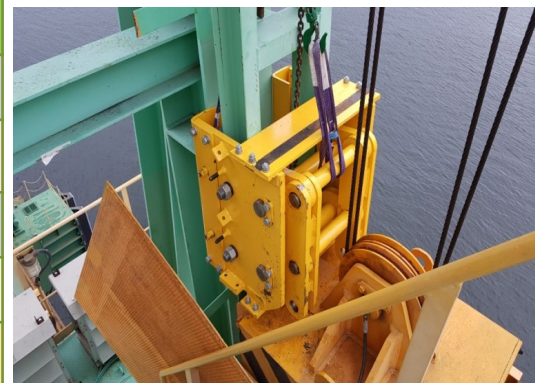




5. Performance Records (MRO etc.)

(2018 year: 32 Projects, 2019 year: 28 Projects)

Year (Q'ty)	Project Name	Purchaser
2018 (Total 32 Project)	Remote control system installation for cranes 61-63	SHI
	Upgrading of the fail-safe mechanism for a 47/5-tons LLC cable reel	SHI
	Repair of the traveling panel on a 120-ton LLC.	Yanase Korea
	Dismantling and reinstallation of a tower crane at 8 quay.	SHI
	Relocation of a 7.5-tons fishing boat lifter at Nampo Harbor.	Goseong county office
	Maintenance of a 25-tons tower crane and a 120-tons LLC.	SHI
	Inspection and repair of 10 fishing boat hoists in Goseong.	Goseong county office
2019 (Total 28 Project)	Replacement of the control system for an indoor cranes.	SHI
	Fabrication and installation of a 5-tons monorail hoist crane for COP maintenance.	Central Power
	Fabrication and installation of a 2.8-tons post crane	Hanhwa Ocean
	Fabrication and installation of a smart tired crane.	HanHwa Ocean
	Fabrication and installation of a 10-tons gantry crane in the 3J area	SHI
	Design and installation of a 10-tons monorail system	Western Power
	Installation of 14 anti-fall devices for cable reels	SHI





5. Performance Records (MRO etc.)

(2020 year: 28 Projects, 2021 year: 32 Projects)

Year (Q'ty)	Project Name	Purchaser
2020 (Total 28 Project)	Dismantling and reinstallation of a 5-tons crane(3A-Area)	SHI
	Installation of fall prevention devices for cable reels on 24 cranes	SHI
	Installation of Hoist double brake(UC-2 area)	HanHwa Ocean
	Dismantling and reinstallation of a 10-ton SGH(C-862 area)	HanHwa Ocean
	Safety device installation for dock master.	HanHwa Ocean
	Overhead crane installation in a maintenance workshop. (30/10tons, 50/10tons Over Head Crane)	Western Power
	Fabrication and installation of a 2.8-tons suspension hoist crane.	HanHwa Ocean
2021 (Total 32 Project)	Replacement of control systems for two indoor cranes.	SHI
	Replacement of the wire drum on an LM crane	SHI
	Replacement of the slewing ring gear on an outdoor tower crane	SHI
	Replacement of rail clamps on a 2-dock goliath crane.	SHI
	Repair of curtain doors in a painting shop.	Sung Dong
	Repair of the main hoisting mechanism in bay 9 of the assembly shop.	Sung Dong
	Safety inspection of the main EOT crane	HanHwa Ocean

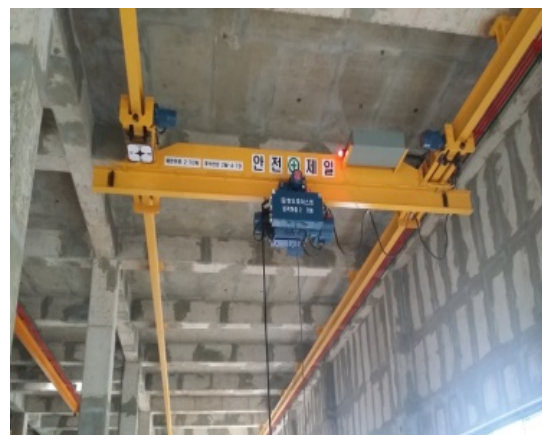




5. Performance Records (MRO etc.)

(2022 year: 22 Projects, 2023 year: 26 Projects)

Year (Q'ty)	Project Name	Purchaser
2022 (Total 22 Project)	Replacement of control systems for 9 indoor crane	SHI
	Dismantling, fabrication, and installation of a fixed crane (7tons, Height 50m)	SHI
	Retrofit of a dual emergency brake system for a tower crane	HanHwa Ocean
	Installation of an overload safety device on a table lifter	HanHwa Ocean
	Vertical extension of GH equipment (2.8tons, Span 13.5m)	HanHwa Ocean
	Overhaul of a 14-tons tower crane hoisting reducer	HanHwa Ocean
2023 (Total 26 Project)	Fabrication and Installation of a 5-tons HHC	SHI
	Removal of equipment from Panel 2 Factory	HS Yard
	Replacement of the traveling wheels on a 25-tons LMEOC	HS Yard
	Replacement of the big door in Factory 2-4	HS Yard
	Replacement of the worn-out magnetic beam on the crane	HanHwa Ocean
	Installation of a storm brake system for a Goliath crane	HanHwa Ocean
	Fabrication and installation of a big door in a painting shop.	BuHeung





5. Performance Records (Component supply)

☞ For the past 9 years from 2015 to 2023,
GMSI have consistently supplied top-tier components to 339 machines or cranes in domestic.

Year	Key supply item (Vendor)	Total Supply Machines & Cranes	Remarks
2015	Supplied of 80+40 tons EOC brakes (TaeKwang EMC)	Supplied parts to 55 machines or cranes	<p>For the past 9 years, (2015~2023)</p> <p>Supplied top-tier components to 339 machines or cranes in in domestic.</p>
2016	Supplied of electrical components for 50tons LLC (SHI)	Supplied parts to 57 machines or cranes	
2017	Supplied of 450-tons G/C hoisting brakes (SHI)	Supplied parts to 52 machines or cranes	
2018	Supplied of 31 cranes hoisting brakes (SHI)	Supplied parts to 38 machines or cranes	
2019	Supplied of 200-tons EOC brakes to the large assembly shop (SHI)	Supplied parts to 26 machines or cranes	
2020	Supplied of Hook Sheave bolt & coupling assembly (HanHwa Ocean)	Supplied parts to 40 machines or cranes	
2021	Supplied of Thruster Motor Assembly (I-Maket Korea)	Supplied parts to 40 machines or cranes	
2022	Supplied of Brake controller(TCB2-250) (I-Maket Korea)	Supplied parts to 22 machines or cranes	
2023	Supplied of Rope guiding device unit (HanHwa Ocean)	Supplied parts to 9 machines or cranes	



Thank You