



GO THROUGH THE CURRENT, SPREAD

Revival of The 3D Printing Industry  
3DPROCEAN Is With You.





# PROCEAN

## 3DPROCEAN

It means that it is possible to perform all tasks for modeling and 3D printing in various fields like a wide ocean.

## Process Automation Model Ship That Combines 3D Printing And Shipbuilding Design Technology

It protects the core original technology of domestic shipbuilders and realizes zero technology leakage by safely producing ship models.

By securing cost competitiveness of shipyards and shortening delivery times, great synergy is expected when competing for orders with peers.

It is a key item that will be an opportunity for the domestic shipbuilding industry to leap forward in technological competitiveness.

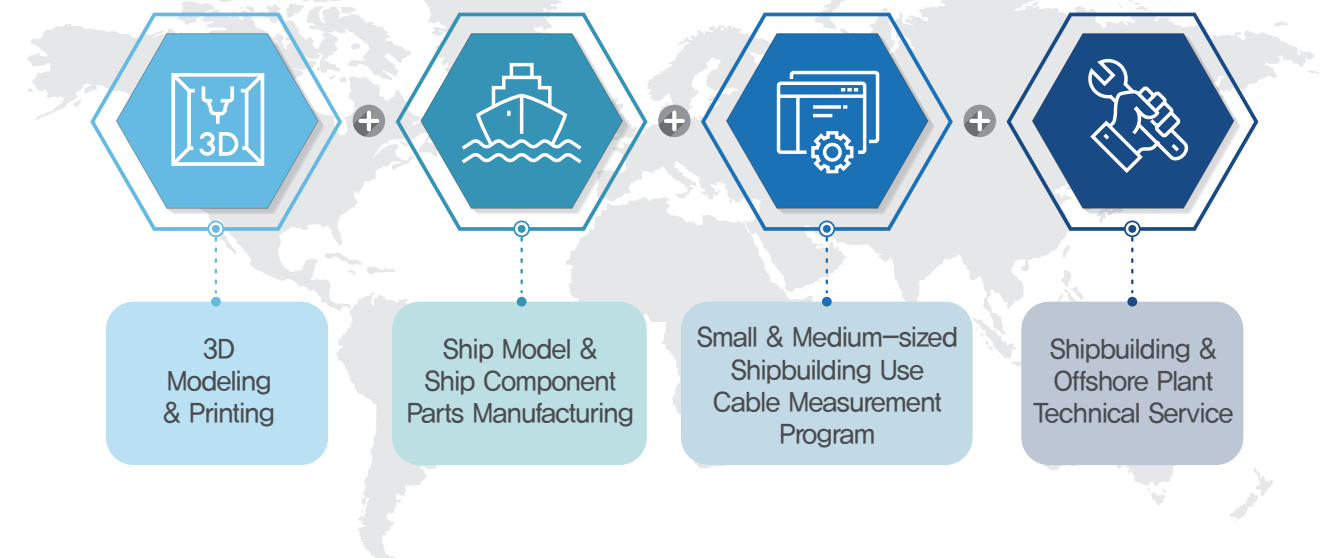


## About Company

Company Name JUN ENGINEERING  
Date of Establishment 2017.06.05  
CEO Hyeon Jin Jeon



## FIELD OF BUSINESS



## Certificates



Certificate of Inno-Biz



Venture Business Confirmation



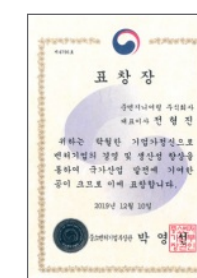
Defense Venture Agreement Company Confirmation



Human Resource Development Designation



Company-Affiliated Research Institute Certificate



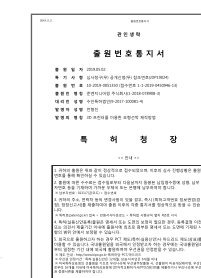
Small and Medium Venture Business Department Ministerial Award



ISO 9001



ISO 14001



Model Ship Manufacturing Method Using 3D Printer




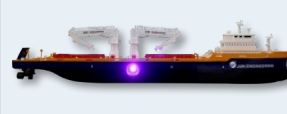


Registration of Ship's Cable Length Measurement Method









About 3D Printing

3D printing refers to printing three-dimensional figures rather than printing flat characters or pictures using a printer. 3D technology, which prints real objects in a three-dimensional space like printing paper, has endless uses that can be used as examples of 3D printing in most fields of manufacturing products.

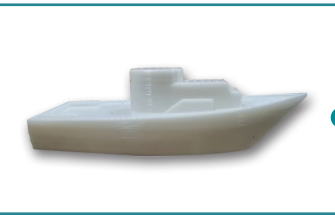

Field of Application

Shipbuilding & Offshore Field		Aircraft & Automobile Field	
Modeling	Output	Modeling	Output
			

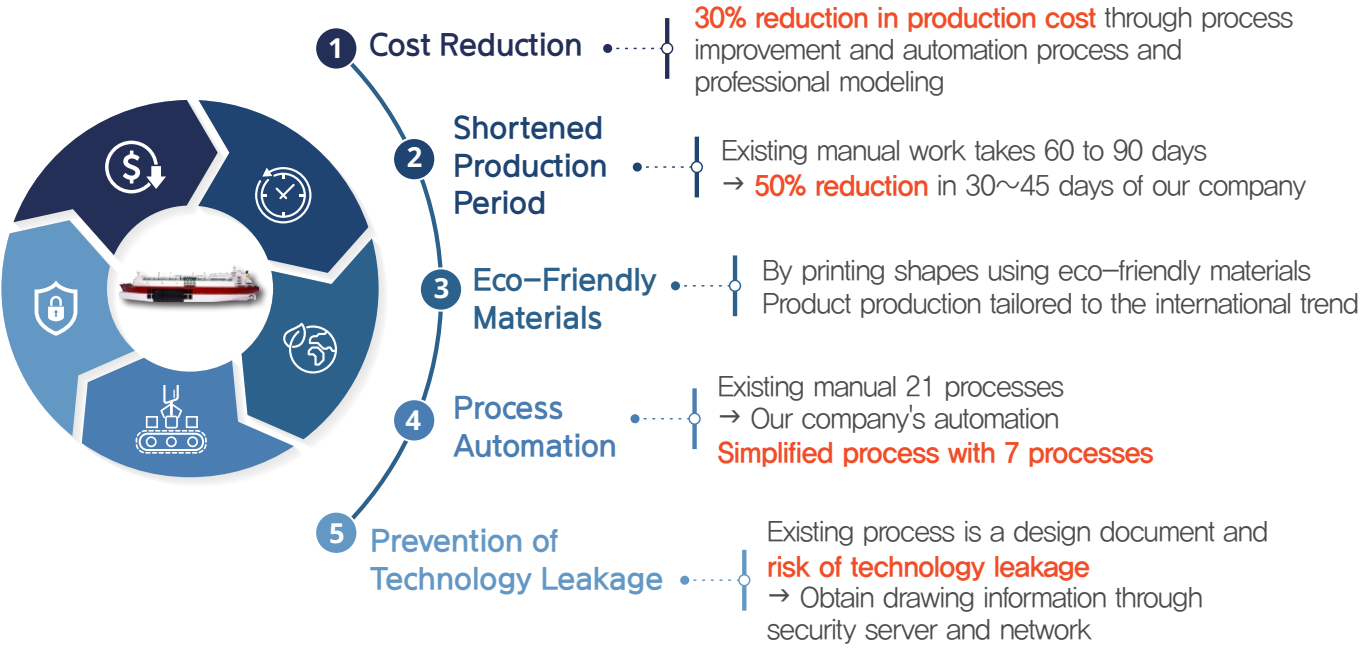
Enterprise Field		Medical Field		Architecture Field	
Modeling	Output	Modeling	Output	Modeling	Output
					

Printable Material

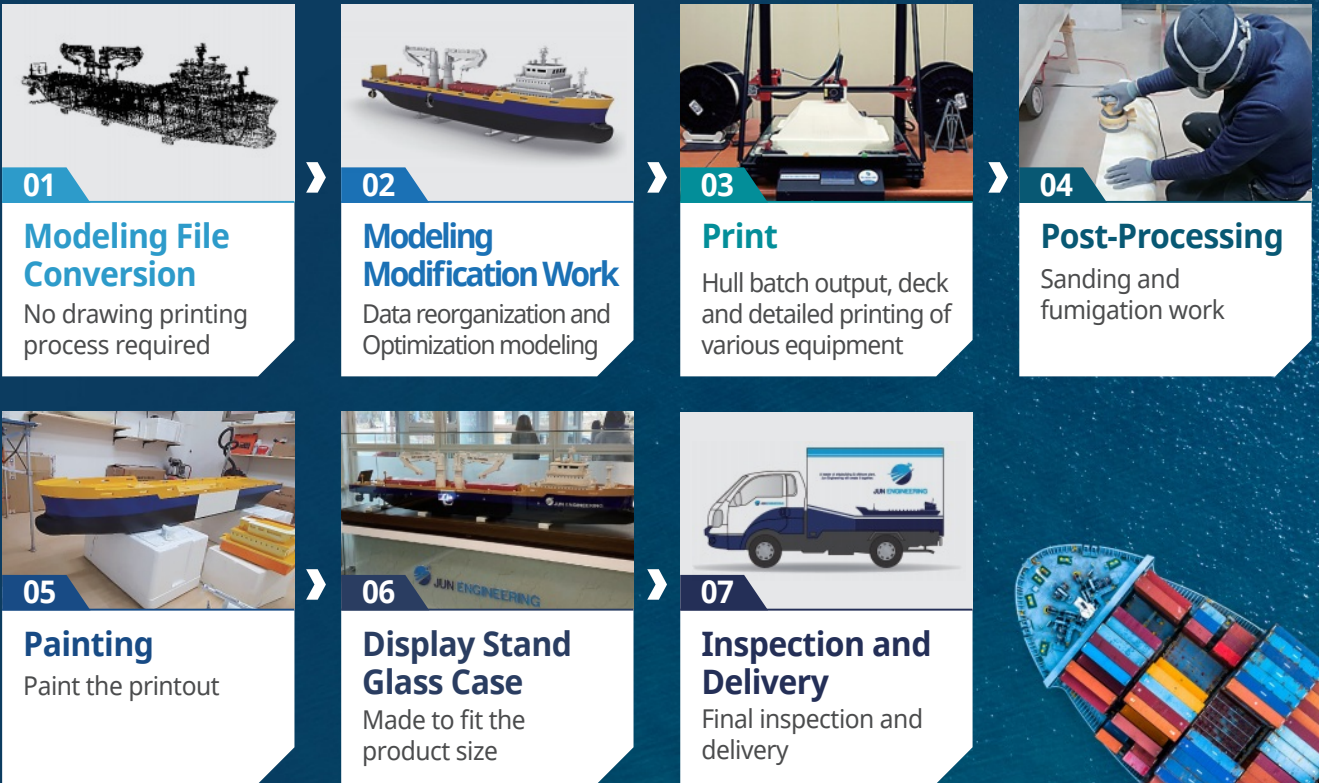
• PLA • ABS • TPU • PETG • RESIN • WOOD • COPPER • CARBON FIBER • GRADIENT COLOR

Printable Method	 FDM (FFF)	<ul style="list-style-type: none"><li>Filaments are melted and laminated in the melting head</li><li>Complex design can be implemented, easy for bonding test</li><li>Reasonable price, strong wear resistance</li><li>Stacking Thickness : 0.5 ~ 0.127mm</li></ul> <p>Fused Deposition Modeling (Fused Filament Fabrication)</p>
	 MSLA	<ul style="list-style-type: none"><li>A photocurable liquid resin is cured and laminated with a laser</li><li>Smooth surface and can be used as a master prototype</li><li>Can produce delicate shapes, freely transformable</li><li>Stacking Thickness : 0.05 ~ 0.015mm</li></ul> <p>Masked Stereolithography Apparatus</p>

Features of Ship Model



Manufacturing Process





➤ Ship Model With Beam Projector

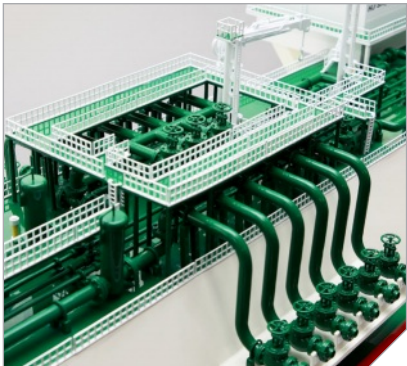
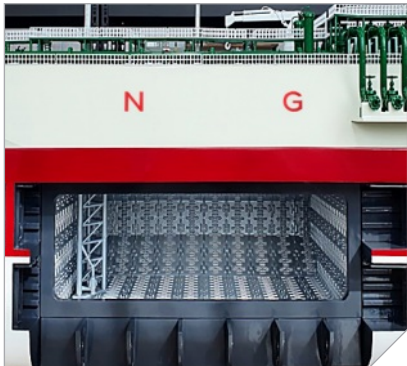
- » When a beam projector is mounted on the ship model of a cargo ship, it is used in internal conference rooms, domestic and overseas exhibitions, company lobby, and related company meetings. Maximizes the effect of public relations with a model of a ship built directly by the company by transmitting a corporate promotional video.
- » Shipowners / Shipbuilders, Shipyard, Shipping Companies, Shipbuilding / Offshore plant equipment companies are expected to increase their business efficiency by enhancing their corporate image and emphasizing visual elements.



Ship Type	Scale	Size (mm)	Total Weight (Kg)	Material	Production Period
Cargo Ship	125:1	2010x300x500	22	PLA / RESIN	70 days

➤ LNG Cutway Ship

- » Part of the exterior of the LNG ship is cut and reproduced in detail so that the internal structure can be understood.
- » A ship that has a special structure to transport LNG (Liquefied Natural Gas) in a liquid state without a phase change from the production site to the consumer site, and is capable of long-distance mass transportation by ship.
- » It can be used as a teaching aid and can be exhibited in exhibitions and museums.



Ship Type	Scale	Size (mm)	Total Weight (Kg)	Material	Production Period
LNG Ship	200:1	2010x354x520	45	PLA / RESIN	80 days



Tug Boat



Ship Type	Tug Boat
Scale	35:1
» A ship to tow another ship, also known as tug or tug boat, and is a multipurpose work ship used in port construction	
Size(mm)	600x158x260
Weight(Kg)	1.8
Material	PLA / RESIN
Period	25 days



Cleanup Vessel



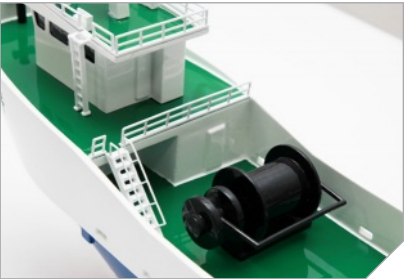
Ship Type	Cleanup Vessel
Scale	40:1
» Ships operated by the state and local governments to clean ports for the purpose of safe entry and departure of ships	
Size(mm)	750x229x300
Weight(Kg)	4.1
Material	PLA / RESIN
Period	25 days



Fishing Boat



Ship Type	Fishing Boat
Scale	35:1
» Vessels used for fishing and other fishing activities (transport of catches and test, survey, and instruction, etc.)	
Size(mm)	700x121x282
Weight(Kg)	2.1
Material	PLA / RESIN
Period	30 days



Cruise Ship



Ship Type	Cruise Ship
Scale	55:1
» Ships carrying people for tourism and operating on the water for sightseeing and other recreation	
Size(mm)	800x172x260
Weight(Kg)	4.0
Material	PLA / RESIN
Period	35 days





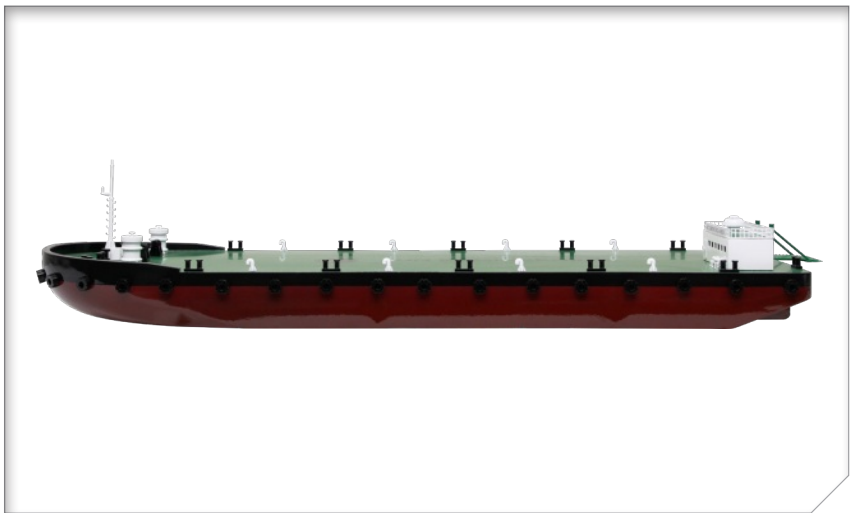
Bulk Carrier



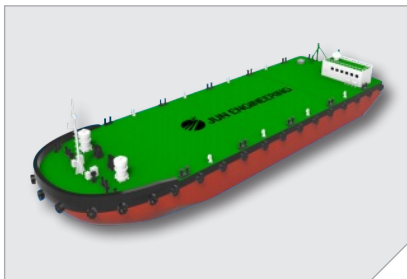
Ship Type	Bulk Carrier
Scale	230:1
» A cargo-only ship that can load unpacked cargo. Coal-only lines, ore-only lines, cement-only lines, and grain-only lines	
Size(mm)	1008x176x260
Weight(Kg)	4.4
Material	PLA / RESIN
Period	35 days



Barge



Ship Type	Barge
Scale	70:1
» Ships without a power system that transports cargo over a relatively short distance, such as inside a port or an estuary	
Size(mm)	972x295x187
Weight(Kg)	3.8
Material	PLA / RESIN
Period	30 days



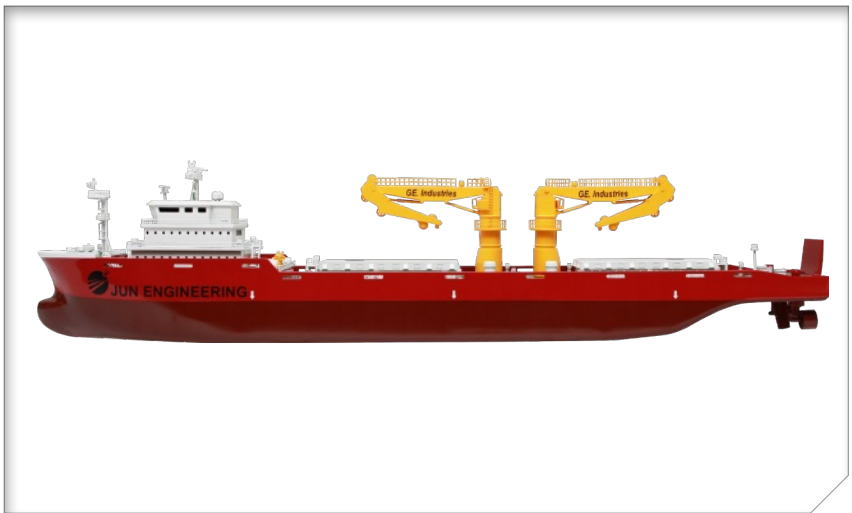
Fisheries Science Research Vessel



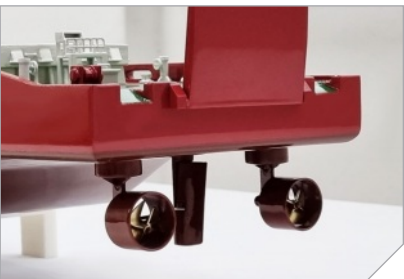
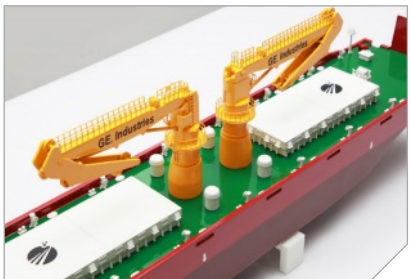
Ship Type	Fisheries Science Research Vessel
Scale	77:1
» National Fisheries Research Institute's Inquiry No. 22 Ship to support domestic fishery development policy by in charge of fishery resource research in Korea's EEZ	
Size(mm)	918x176x338
Weight(Kg)	5.6
Material	PLA / RESIN
Period	35 days



Cargo Ship



Ship Type	Cargo Ship
Scale	250:1
» Transport cargo and can be divided into general cargo ships, special cargo ships, and exclusive cargo ships	
Size(mm)	1005x150x223
Weight(Kg)	3.9
Material	PLA / RESIN
Period	35 days







Model Ship



Design Technique



3D Printing

## Leading Shipbuilding Offshore Plant JUN ENGINEERING



**JUN ENGINEERING**



**PROCEAN**

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**kmong**

준엔지니어링



**TWOJOB**

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