



NAVNAUTIK

SINGAPORE – INDIA

NAVAL ARCHITECTS | MARINE ENGINEERS | MARINE SURVEYORS | RECYCLING CONSULTANTS



ABOUT US



- NAVNAUTIK started business in the year 1990 and has since then been an active participant in the design and development of advanced marine structures and marine vessels as per the marine and offshore industry's demands.
- We are a marine consultant company particularly catering for special application vessels. We specialize in the whole spectrum of varied market on specific customized application. Such customized designs have taken place in many of our projects. As a result NAVNAUTIK works with a number of other companies, individuals, government agencies, computerized technical data bases in various countries to put together a project designed specifically for the purpose.
- With a modest beginning in design of conventional marine vessels (such as patrol boats and pontoon barges), NAVNAUTIK has now expanded its horizon to include high end specialized vessels such as Ultra Deep-sea Pipelaying and Heavy Lift Vessel, Lift-boats, etc.
- What started off as a two member office in Singapore has now expanded to cover 3 countries and more than 30 team members from the fields of Ship Recycling, Ship Design, Ship Conversion & Offshore Technology.
- Our team members are conversant in English, Hindi, Chinese & Indonesian languages.
- We also recruit consultants during multiple overseas project management services to ensure industry standards are maintained by the site monitoring team.

SOME OF OUR MILESTONE PROJECTS IN LAST 2 DECADES



2023 – CONVERSION OF AHT TO ATB

2022 – 37M 70T BP ASD FIFI-1 TUG

2021 – ‘BATTERY ENERGY STORAGE SYSTEMS’ BARGE

2019 – LIGHT UTILITY VESSEL

2018 - 50m MULTI-PURPOSE OFFSHORE TERMINAL TUG

2016 – SHALLOW WATER MAINTENANCE VESSEL

2015 – 80T BP DIESEL ELECTRIC HYBRID ESCORT TUG

2009-13 – ULTRA DEEPWATER PIPELAYING VESSEL (OCV)

2010 – WATER INJECTION DREDGER

2000-2022: 50, 60, 65, 70, 75 & 80 TON BP ASD TUGS (~ 100 TUGS BUILT)

2008 - 320' LIFTBOAT

2007 - SHALLOW DRAFT OIL TANKER

2007 - ICE CLASS TUG

2005 – 50T BP VOITH TUG

2004 – LCDT / BITUMEN CARRIER

2003 – 57M DIVING SUPPORT VESSEL

2002 – 250 MEN DP2 ACCO BARGE

2000 – CONVERSION PROJECTS (TANKER TO FPSO, WORKBOAT TO OSV, ETC)



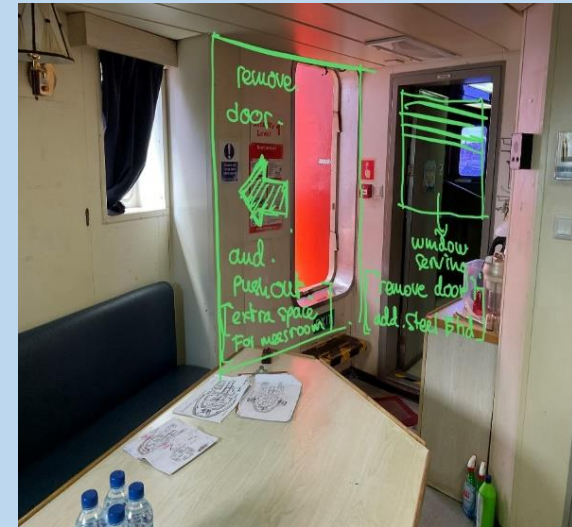
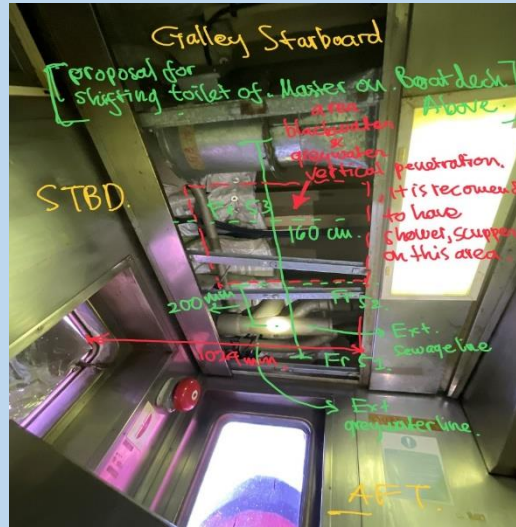
OWNERS WE COLLABORATED WITH	COUNTRY
A/S EM. Z. SVITZER	DENMARK
AL JABER ESTABLISHMENT	ABU DHABI
DOLPHIN OFFSHORE ENTERPRISES (MAURITIUS) PVT LTD	MAURITIUS
EZRA HOLDINGS	SINGAPORE
INTERNATIONAL SEAPORT DREDGING LTD	INDIA
MAGSAYSAY LOGISTICS	PHILIPPINES
PACIFIC OCEAN ENGG. & TRADING	SINGAPORE
PT. HUMPUSS TRANSPORTASI KIMIA	INDONESIA
PT. PERTANIMA TRANSKO KONTINENTAL	INDONESIA
PT. FREEPORT INDONESIA , JAKARTA	INDONESIA
PT. RIG TENDERS	INDONESIA
ADICO	VIETNAM
RINKAI CONSTRUCTION LTD	SINGAPORE / JAPAN
SARKU ENGINEERING SERVICES SDN BHD	EAST MALAYSIA
SVITZER A/S	DENMARK
TOPNICHE MARINE PTE LTD	SINGAPORE
PACC Offshore Services Holdings Ltd (POSH)	SINGAPORE

SHIPYARDS WE COLLABORATED WITH	COUNTRY
ASL SHIPYARD PTE LTD, SINGAPORE	SINGAPORE
BHARATI SHIPYARD LTD, MUMBAI	INDIA
FUJIAN MAWEI SHIPBUILDING	CHINA
JIANGSU ZHENJIANG SHIPYARD CO LTD	CHINA
JIANGSU WUXI SHIPYARD CO LTD	CHINA
SAMUDRA MARINE INDONESIA	INDONESIA
KEPPEL SINGMARINE PTE LTD	SINGAPORE
KEPPEL BATANGAS SHIPYARD	PHILIPPINES
QINGDAO QIANJIN SHIPYARD	CHINA
RMK MARINE, TUZLA	TURKEY
SHOFT ENGINEERS PVT LTD	INDIA
SAIGON SHIPYARD	VIETNAM
SOFEL	VIETNAM
UNITHAI SHIPYARD LTD	THAILAND



Our site team has worked in China, Vietnam, Thailand & Singapore providing project management services towards all the aspects of ship building right up to sea trials.





- Our site team has experience in digital survey, 3D scanning and monitoring the onsite works.
- We have experience of designing & monitoring 50+ small and big retrofit / conversion projects throughout the world.



NAVNAUTIK offers technical assistance and advisory services to ship owners in choosing the suitable recycling yard for their ships - yards that meet expected standards of safety for their work force, practice environmentally sound recycling processes and are geographically best suited for the ship being recycled to reach.

After a vessel is released from service and considered for decommissioning, she must not trigger risks to human health, safety, and the environment.

Sustainable ship recycling substantially reduces the amount of waste and also keeps the waste materials from shipbreaking away from the beaches in order to guard the environment and avoid any harmful impact.

We offer on-site monitoring on behalf of the ship owner regarding the progress of recycling, from arrival of the ship until completion of recycling, to ensure safety, environmental and health procedures as required by regulations and as laid down in the Ship Recycling Plan are closely followed at site.

A ship recycling plan should include a Safety & Health Plan, an Environmental Compliance Plan and an Operational Plan.

NAVNAUTIK can ably manage the whole procedure of the recycling of the ship, from the port exportation until the deliverance of the "Statement of Completion" in full compliance with applicable regulations.

OUR TECHNICAL SERVICES FOR GREEN SHIP RECYCLING:

PRE-CONTRACT STAGE:

- Yard shortlisting & SWOT analysis
- Yard auditing as per client requirement

THE STEPS TOWARDS SUSTAINABLE SHIP RECYCLING:

Step 1 – Contract for ship recycling.

Step 2 – Inventory of Hazardous Materials (IHM) preparation and verification.

Step 3 – Ship Specific Recycling Plan (SRP) validation.

Step 4 – Compliance Monitoring.

Step 5 – Capturing and Documenting everyday activities at SRF.

Step 6 – Monitoring of Hazardous waste from identification, marking to disposal.

Step 7 – Periodic Reports to the client.

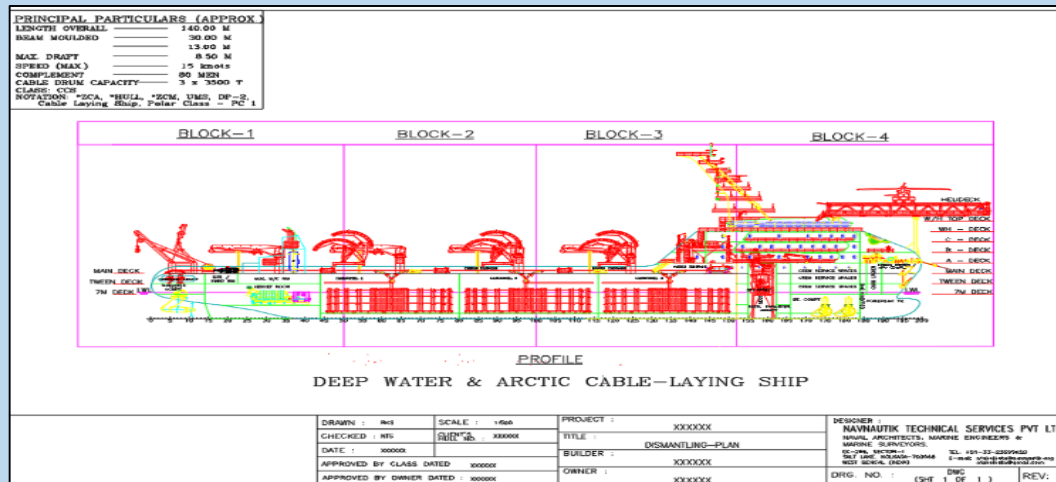
Step 8 –Completion.

WHY NAVNAUTIK:

- Ground presence in all national and international SRFs such as India, Bangladesh, Indonesia & Turkey.
- Strong technical team of Naval Architects & Marine Engineers with hands-on experience in all pillars of marine industry i.e., Ship Designing, Ship Building, Ship Conversion & Retrofit, Ship Operational Survey & Monitoring and Ship Recycling.
- Individual team assigned to individual projects.
- CLASS authorized service providers for IHM solutions.
- Qualified Internal and External Auditors of ISO: 9001:2015/ ISO: 14001:2015/ ISO 45001:2018/ ISO 30000:2009.
- Technical team has 25+ Yrs. of experience in Ship Survey / Monitoring / Ship Building & Ship Recycling.
- Industry knowledge and requisite training in all the rules and regulations applicable for ship recycling.
- Offer customized IT solution / application to ship owners via end-user interface with site team for real time monitoring & online documentation of the entire ship recycling process.



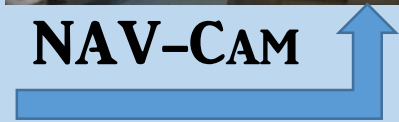
- We upgraded our team capacity for ship recycling monitoring services.
- We have Qualified Internal and Lead Auditors of ISO: 9001:2015/ ISO: 14001:2015/ ISO 45001:2018/ ISO 30000:2009.
- CLASS authorized service providers for IHM solutions.
- Naval Architects, Master mariners and Marine engineers with experience in ship recycling.





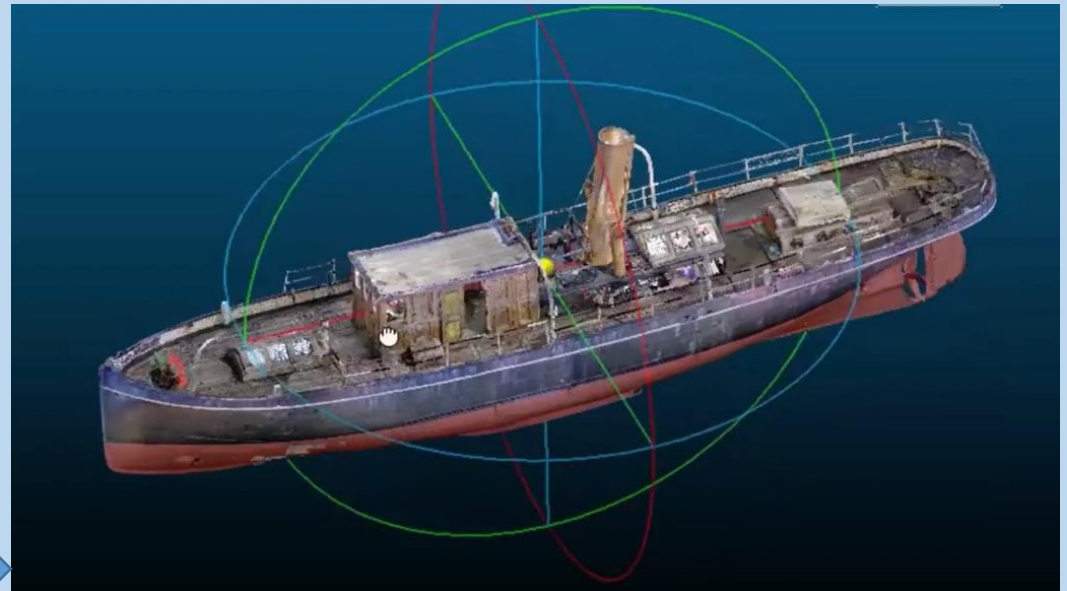
New-age technology
for
Reverse engineering
&
Virtual tour
of marine vessels and
offshore structures

NAV-CAM



Two useful applications for
ship owners and shipyards
(cloud-based hence paperless)

NAV-SCAN



NAV-CAM

NAV-CAM allows you to virtually access your vessel anytime from anywhere in the world with 360° 3D walk-through as per your interest area (engine room, mooring deck, wheelhouse, cabins, etc.) of the vessel.

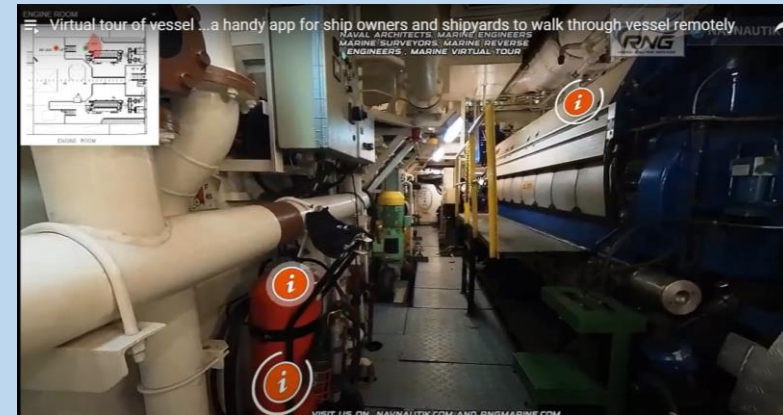
What is the advantage using NAV-CAM?

For New Building & Retrofit / Conversion of existing ships

- Can be kept as an As Built documentation before ship delivery as an evidence and justification whenever any claim / incident / accident happens after delivery
- Can be used for engineering review (ship design evaluation / modification for future) without physically visiting the vessel
- As a digital documentation can be used for ship familiarization & ready reference for trainee crew member before going on-board
- Equipment description and its manual can be incorporated using point tag feature for future upgradation / replacement.
- Can be used as a marketing presentation for potential client during charter / resale before physically visiting the ship (which is a cost element)

Click below for NAV-CAM tour

<https://youtu.be/3Fdftw29pSE?si=OmyN6XR7KOMs7hB>



NAV-SCAN

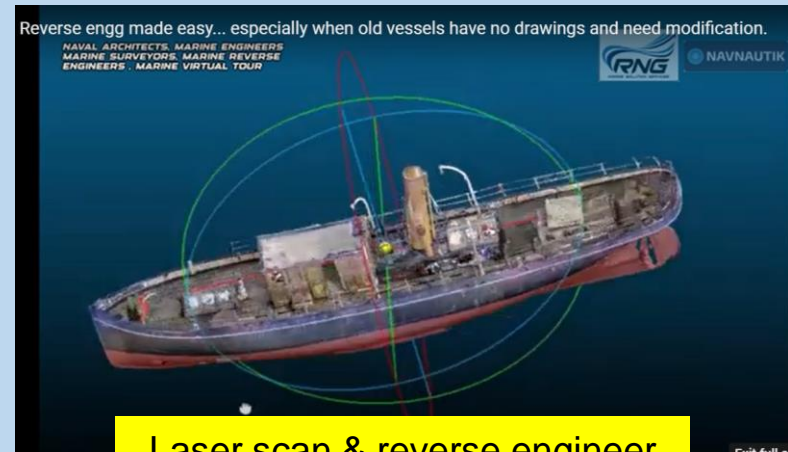
NAV-SCAN is a cost saving application of reverse engineering suitable for hull structure and outfitting modification, piping system retrofit, conversions and creation of database for vessels having limited or no data available on-board.

What is the advantage using **NAV-SCAN**?

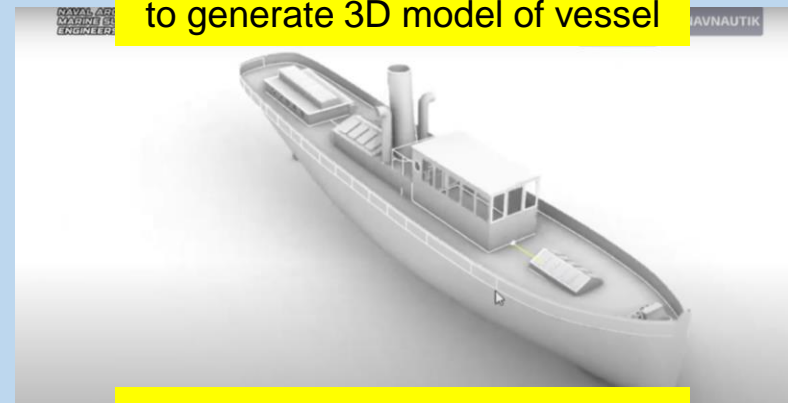
- Vessel modification, conversion, retrofit and upgrade jobs involve tight timeline and limited space at yard and on-board the vessel.
- Hence is typically expensive & time consuming with inaccurate measurement & possibility of on-board interference between equipment / structure.
- To solve we use laser scan as one tool of reverse engineering. It provides higher level of accuracy and can be done while the ship is in operation.
- Simultaneous prefabrication onshore provides a reduction in cost and time since the vessel is still in operation.
- The early availability of engineering data empowers shipyards and ship-owners to plan projects and procure materials for immediate implementation upon the vessel's arrival at dock, thus significantly reducing the vessel's downtime.
- Old vessels with no or little data on-board can use NAV-Scan to generate a digital database as needed.

Click below for **NAV-SCAN** tour

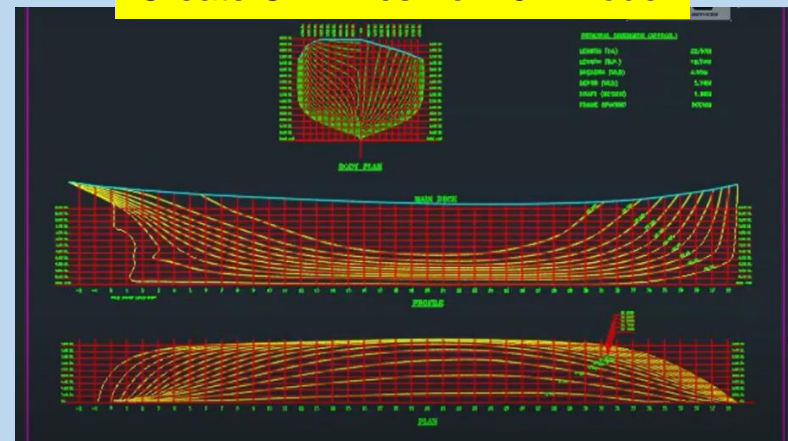
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Laser scan & reverse engineer to generate 3D model of vessel



Create CAD files from 3D model



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