



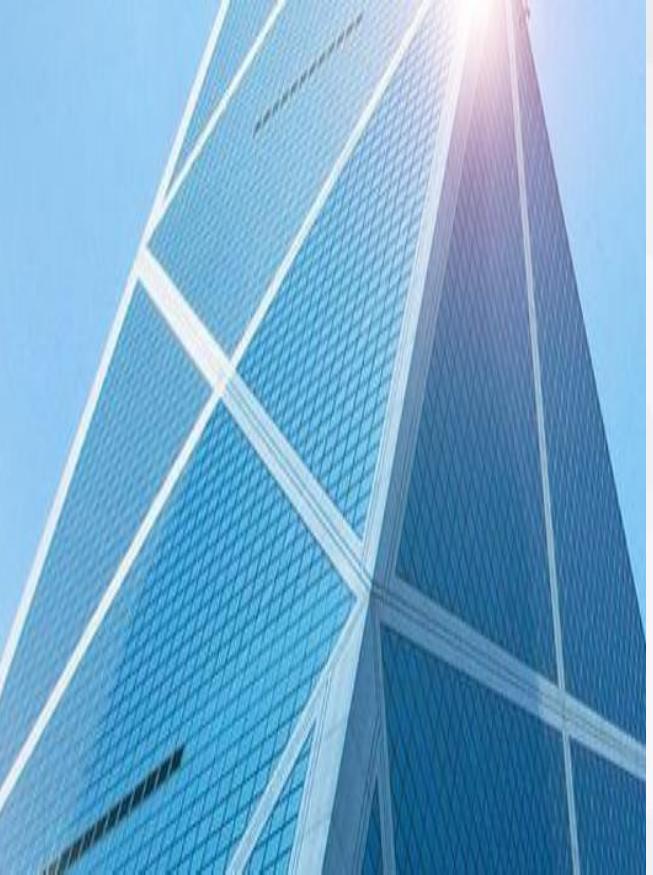
Vanguard Marine Technology Co., Ltd
南通威佳德船舶技术工程有限公司





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Vanguard Marine Technology Co., Ltd. was established in 2012 with headquarter in Nantong China. It is a beautiful city known as "Rivers and Seas Pearl" surrounded by the Yangtze river and the East China Sea. Connected with the Eurasian land bridge, Nantong is accessible from coastal China to ports all over the world. Based on shoreline resource endowment and relying on the cluster of Marine industries. Vanguard Marine now has become an internationally well-known enterprise focusing on marine industry, and integrating technical services and manufacturing solution for ships. Vanguard Marine has a modern management system and professional technical team, with advanced & perfect hardware and superb technology known in the counterparts. We have set up a branch in Zhoushan and service station with resident engineers in major coastal ports. Our business scope has certified by ISO 9001:2015 management system, as well as approved by primary classification society like NK, KR, BV, DNV, ABS, LR, IRS. We also approved by ship registered Flag country: Panama, Liberia and Bahamas. etc. Our technical engineers are always 24hrs available on call to provide quick response and precision services for all your needs. We always spare no effort to support customers to achieve their goals, that's why Vanguard Marine win the market reputation & most of users high trust. By now, We have established long-term partnerships with shipping companies or ship management. Such as Vships, BSM, Pacific Basin, MOL, Fleet, Wallem, Anglo-Eastern, etc. Building on past successes and sustained efforts, we can and must do better - together to continuously improve service level and product quality, and strive to provide the most satisfactory service for global shipowners!



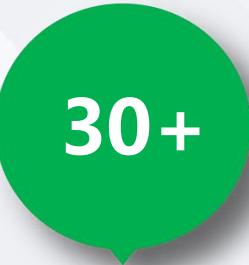
What We Do

Technical Service

- UTM
- Automatic control system
- FFE & LSA
- Ship docking broker

Product & Solution

- M/A air cooler
- Shell -tube heat exchanger
- Plate heat exchanger
- Finned Heat Exchanger

 20+ 30+ 100+ 1000+

Years Of
Industry Experience

Ports
Service Available

Engineers & Technicians

Ships Annually
Services



DMS-1000-01011212

THE REPUBLIC OF LIBERIA
LIBERIA MARITIME AUTHORITY

AUTHORIZATION OF SERVICE PROVIDER

Issued under the provisions of Regulation 11.1.3 of Chapter II of International Convention for the Safety of Life at Sea, 1974, as amended, and MSC. Resolution 482(V) by the Office of the Deputy Commissioner of Maritime Affairs of the Liberia Maritime Authority to

VANGUARD MARINE TECHNOLOGY CO., LTD.

2nd Floor, No. 689 of Chang Tai Rd
Ganghu District, Ningbo, Zhejiang
P.R. CHINA

The above listed service provider has been tested and authorized to perform maintenance, thorough examination, operational testing, overhaul and repair of lifeboats, rescue boats, launching appliances and on-load release gear in accordance with the requirements of the Convention.

1. The service provider shall maintain a valid Approval Service Supplier Certificate issued by a class society recognized by the Liberian Administration verifying that the provider meets the requirements of Resolution MSC.402(V)
2. Service engineer shall have valid Qualification Certificate issued by the competent manning authority of the class society whose classification certificate the engineer was issued. The Qualification Certificate must define the service engineer's level of qualification and the scope of the certification (e.g., makes and types of equipment).
3. The service provider must possess and shall maintain valid manufacturer's authorization certificates for all equipment.

A copy of this Document shall be attached to each report of maintenance, thorough examination, operational testing, overhaul and repair of lifeboats, rescue boats, launching appliances and on-load release gear carried out on Liberian flagged ships. A copy of the Qualification Certificate for the service engineer(s) who repaired and/or serviced the equipment that also meets the report.

A copy of this Document and the applicable manufacturer's authorization shall be provided to the shipowner and the vessel's class society prior to carrying out services on a Liberian flagged ship.

This Authorization Document is valid until: March 10, 2024
Issued at Dulles, Virginia, USA
on March 11, 2021

John L. Larson Jr.
John L. Larson Jr.
For the Deputy Commissioner of Maritime Affairs, R.L.

RM-006



Issued at: Max 10th, 2024
Issued in Panama, Republic of Panama on Max 10th, 2021.

Panama Maritime Authority

David Bernard
Panama Maritime Authority

Note: 1. The approval will be automatically suspended and the Approval document become invalid from the expiry date in the event that the licensee has not been granted a valid certificate for compliance of the acceptance.



Panama Maritime Authority | 100 Old Broad Street | London | EC2N 1AL | United Kingdom
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Our business scope has certified by ISO 9001:2015 management system certification, and apporoved by international primary classification society like NK,KR,BV, DNV,ABS,LR,IRS .We also approved by ship registered Flag:Panama,Liberia and Bahamas.





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Vanguard Culture



Core Values

Customer first, Ingenuity service,
Great virtuous, Striving for excellence!



Business Philosophy

Customer - centric,
Innovation to win the bright future!



Corporate Vision

To create value for customers, to help employees achieve their self-value, to be the industry benchmark!

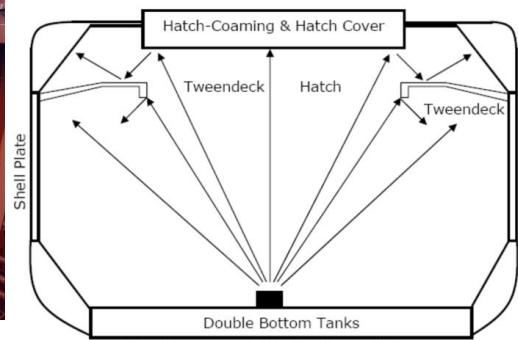
Technical Service



- UTM & Noise Measurement
- Automatic control system
- FFE & LSA
- Ship Docking Broker

Accurate and effective UTM of the hull structure and evaluation of the ship condition are most important way to ensure the ships safety. We provide one-stop ship inspection including:

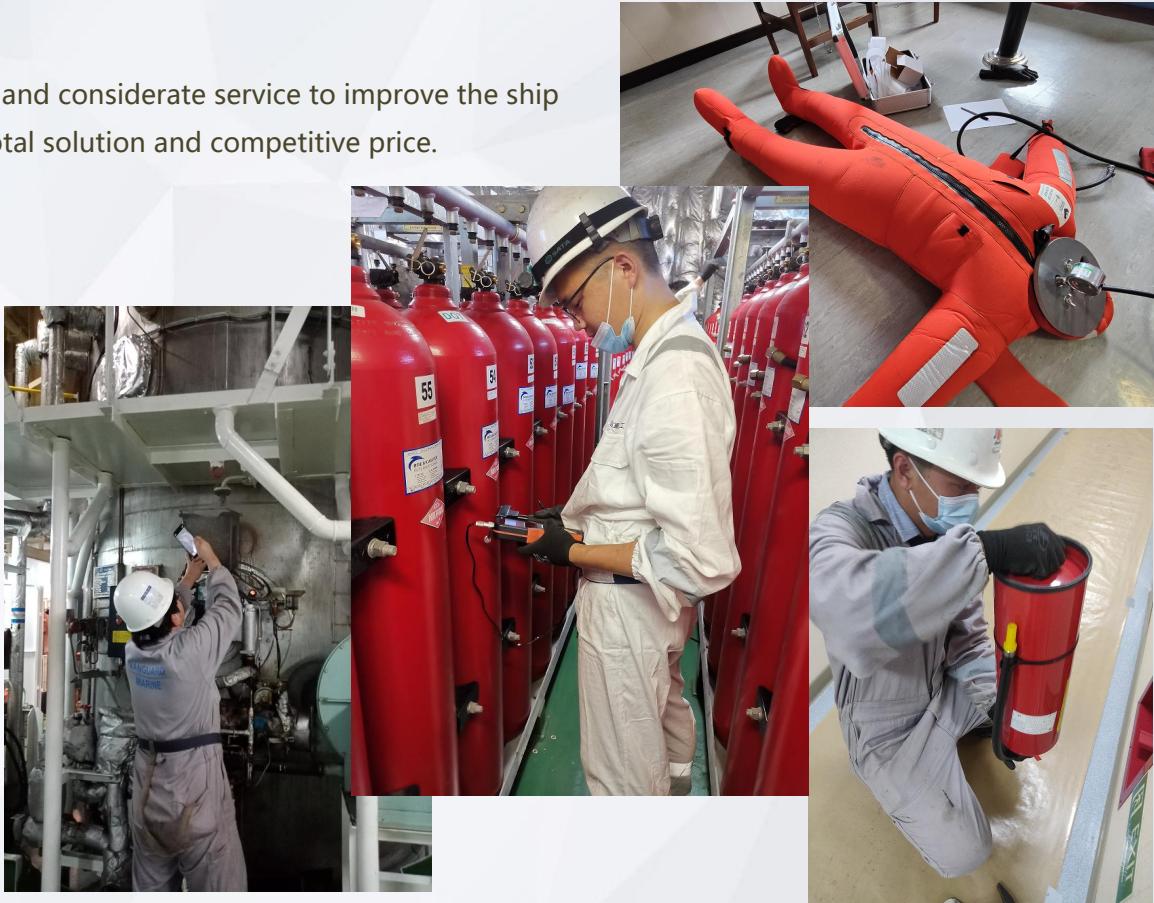
- ◆ UTM for intermediate & special survey
- ◆ UTM for Oil tanker Condition Assessment Programme(CAP) survey
- ◆ Rope-Access UTM
- ◆ UT for hatch cover
- ◆ Advice of steel renewal
- ◆ Quality Control for steel renewal
- ◆ Noise Measurement



We make your fleet sailing more Safe & Simple.

Whenever you need, we are ready to provide timely and considerate service to improve the ship safe efficiency and reduce operating costs by our total solution and competitive price.

- ◆ High/low pressure CO2 system inspection, Hydro-test and refilling.
- ◆ Foam fire system inspection.
- ◆ Smoke detection system inspection.
- ◆ EEBD、SCBA inspection, Hydro-test and refilling.
- ◆ Portable and wheel type fire extinguishers inspection, Hydro-test and refilling.
- ◆ Smoke detection system inspection.
- ◆ Water spray/mist system.
- ◆ Medical oxygen resuscitator and oxygen cylinder inspection, Hydro-test and refilling.
- ◆ Lifeboat air cylinder inspection, Hydro-test and refilling.
- ◆ Fireman's Outfit/Chemical suits/Immersion suits inspection



We make your fleet sailing more Safe & Simple.

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- ◆ Lifeboat inspection and repair.
- ◆ Davits inspection and repair.
- ◆ Package service for life raft



We make your fleet sailing more Safe & Simple.

Whenever you need, we are ready to provide timely and considerate service to improve the ship safe efficiency and reduce operating costs by our total solution and competitive price.

- ◆ Gas detector Calibration and repair.
- ◆ Pressure and Temperature Calibrator repair.
- ◆ UTI Calibration and repair.



Vanguard has the technical team with professional knowledge and rich experience to provide marine automation installation, commissioning, maintenance. We won many of shipyards and shipowners kind praise as the high efficiency, quality service for customers all over the world.



- 光纤熔接与测试
Jointing and Testing of Fiber Optical Cables
- 网线接头制作与耐压测试
(Cat5, Cat5e, Cat6, Cat6a)
LAN Cable Testing
- 高压电缆接头制作与耐压测试
High Voltage Endurance Testing

- ◆ M/A Engine safety protection system
- ◆ Main engine remote control system
- ◆ Main engine oil mist detector
- ◆ Generator control system
- ◆ Cargo oil pump control system



- ◆ Alarm monitoring system
- ◆ Boiler burning control system
- ◆ Telecommunication and navigation system
- ◆ Radar, satellite phone, black box
- ◆ Aut.pilot control system

Vanguard have the bountiful resources of cooperate shipyards and senior Superintendents. Through our optimized management, efficient arrangement, we promise to shorten the dock period and reduce the cost as far as possible base on the premise of ensuring the quality level. We have established long-term cooperation with shipyards as following:



- ◆ COSCOSHIPPING (Nantong/Shanghai/Zhoushan/Guangzhou and Dalian)Shipyards Group Co.,LTD
- ◆ Nantong RuiTai Shipyard Co.,LTD
- ◆ Zhoushan HuaFeng Shipyard Co.,LTD
- ◆ Fujian Huadong Shipyard Co.,LTD
- ◆ Zhoushan Paxocean Shipyard Co.,LTD
- ◆ Huarn Dadong Dockyard (HRDD) Shipyard Co.,LTD
- ◆ Chengxi Shipyard Co.,LTD
- ◆ Zhoushan Xinya Shipyard Co.,LTD





Product & Solution

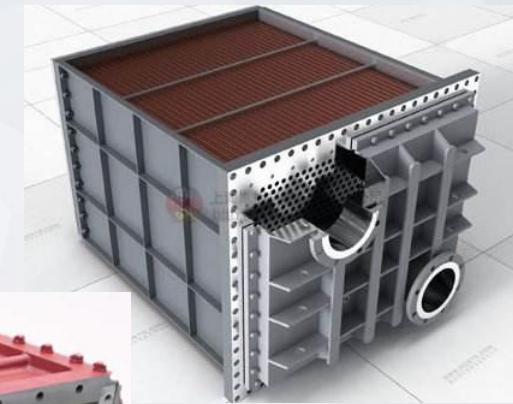


- M/A air cooler
- Shell-tube Heat Exchanger
- Plate Heat Exchanger
- Finned-tube Heat Exchanger
(A/C evaporator, Crane oil cooler, Diesel radiator.)

The air cooler with perfect quality is the key to ensure the efficient and energy-saving work of the engine and offer the ship great power.

Uphold the concept of "efficient, reliable and green", we constantly innovate the core technology by strengthen the superb process, and always choose high-quality & reliable materials. When the engine is working, our cooler can maximize the heat exchange completely. Use our air cooler, we can help you solve:

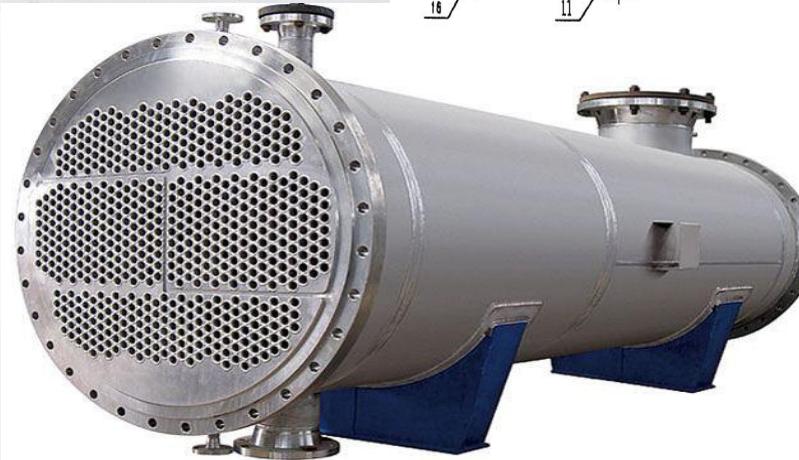
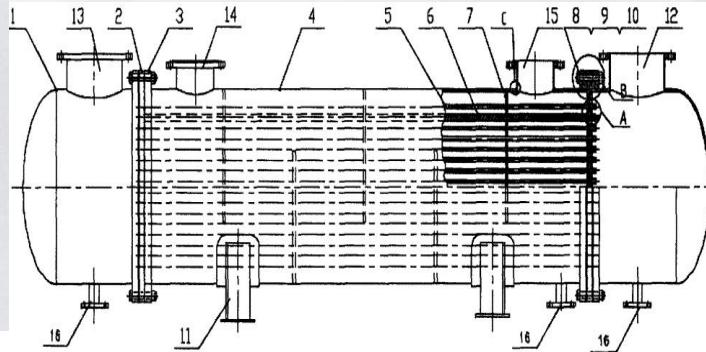
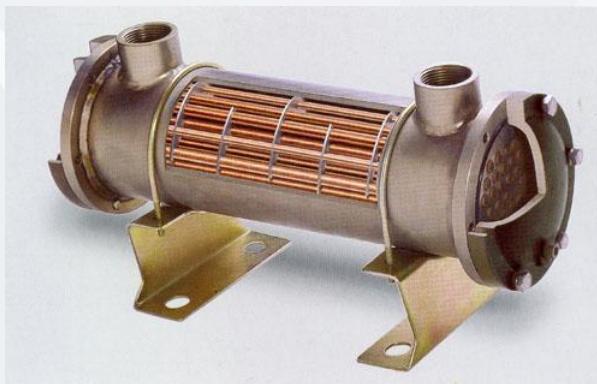
- ◆ Improve engine efficiency, increase shipping revenue, minimize waste;
- ◆ Dispatch technician attend on board to collect the necessary technical parameters, so that the cooler's size & performance combine with engine perfectly;
- ◆ Long warranty with 2 years, so that users have no worries anymore.
- ◆ Contact our technical team full support freely.



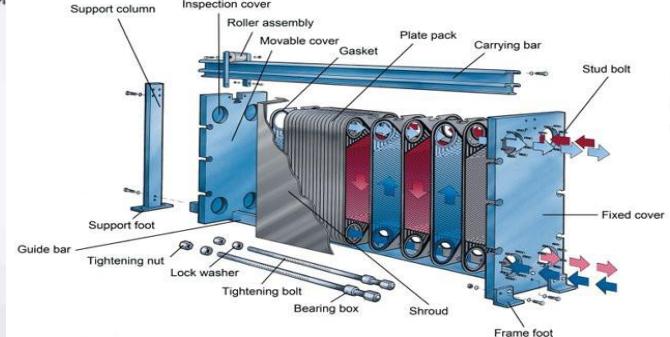
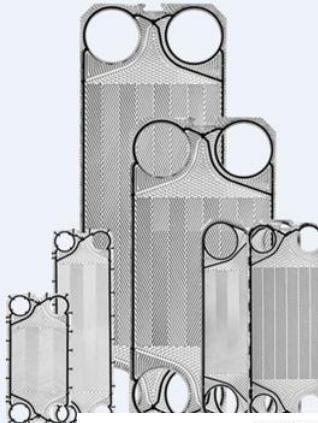
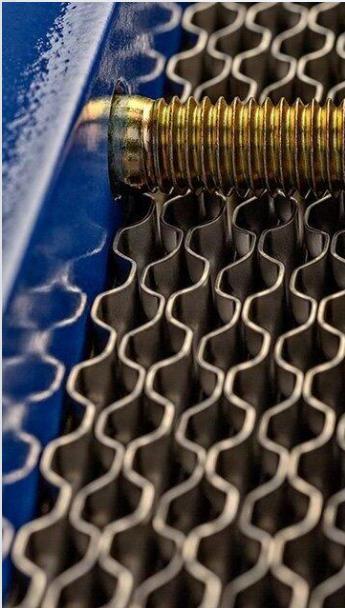
Our productions appear to be in the lead with features :high performing, strong anti-corrosion, long service life. We are experienced in providing equipment and solutions on over 100 vessels by using follow marine heat transfer systems:

- ◆ Lubricating oil cooling
- ◆ Engine water cooling
- ◆ Central cooling system
- ◆ Steam recycle system

(Atmosphere Condenser)



Vanguard value technical team building highly by recruiting & training top talents, to ensure our R&D,mold development to always take the leading of the plate type heat exchanger.In addition, large-scale precision pressure machine、automatic testing equipment and other hardware have undoubtedly made our products unrivaled.We aspire to provide our customers with challenging solutions to improve the performance and life of their ships. Cooperate with us,Vanguard enhance the value of your ship by increasing efficiency and reliability.



The advantage of our plate heat exchanger are:

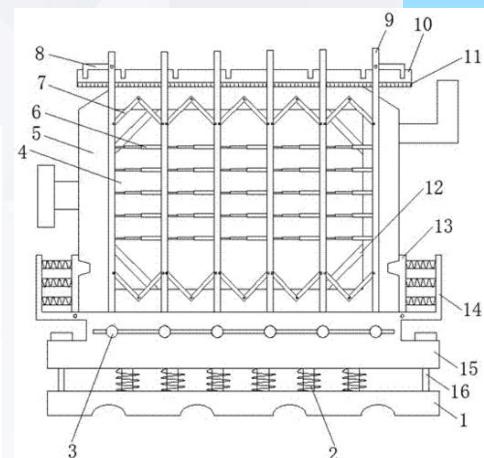
- ◆ 3D design for plate sheet, large pressure machine make one-time mould shape.
- ◆ Depending on customer needs, we provide stainless steel, titanium alloy and other materials to your choose;
- ◆ Comprehensive series product,cover most of the ship application of heat system;
- ◆ High performing of heat transfer , long service life, simple maintenance;



- ◆ Design and manufacture according to user requirement, to provide special solution;
- ◆ Dispatch technician attend on board to collect the necessary technical parameters, to ensure the production's size & performance match with main equipment.
- ◆ Meet the requirements of the classification society and other third party specifications;
- ◆ Contact our experts for free technical support..



Diesel radiator



Crane oil cooler



A/C evaporator



A/C Heater



Fleet Management Limited
A Caravel Group Company

CAPITAL

SHIP MANAGEMENT CORP



STAR BULK



P
Pacific Basin

TSAKOS Group

PETROBRAS



MEDITERRANEAN SHIPPING CRUISES



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Thank You Very Much !