

Directories of Selected Maritime Equipment Brands

2024

PREFACE

The high-quality development of the shipbuilding industry is inseparable from a robust industrial system and a stable supply chain. Since the 19th National Congress, Chinese shipbuilding industry enterprises have strengthened technological innovation and the commercialization of technological achievements. A number of excellent marine equipment, process equipment, industrial software, and other products have emerged at various stages of the Shipbuilding industrial chain, making significant contributions to the safety and stability of the shipbuilding industry's industrial chain and supply chain.

To further enhance the resilience of the shipbuilding industry's supply chain, and to promote deep integration of the industrial chain, China Association of Shipbuilding Industry has organized the selection of excellent brand products in the shipbuilding industry. The number of product brands has reached an initial scale, and is now compiled into a directory, for reference by maritime industrial enterprises. We hope that more enterprises will actively participate and jointly promote a positive situation where each link of the shipbuilding industry's chain supports and develops in coordination with each other.

China Association of Shipbuilding Industry

April 2024

Directories of Selected Maritime Equipment Brands in China

★ Marine Engine and Components

1	Zichai Power Co.,Ltd.	4-Stroke Marine LNG/Diesel Dual Fuel Engine	
2	Weichai Heavy Machinery Co, Ltd.	4-Stroke Marine Diesel Engine	
3		High-Pressure Fuel Injection System for Marine Diesel Engine	
4	Chongqing Hongjiang Machinery Co., Ltd	Electronic Control Injection System for Gas Engine and Dual-Fuel Engine	
5		Bearing Bush for Marine Medium/High Speed Diesel Engine	
6	COSCO Shipping Marine Equipment & Spares (Nanjing) Co, Ltd.	Exhaust Valve Stem of Marine Diesel Engine	
7	Chongqing Qingping Machinery Co., Ltd.	Turning Gear for 2-Stroke Diesel Engine	
8	Talent Bank Group	Fuel Oil Supply Unit	
9	Qingdao Sunrui Marine Environmental Engineering Co., Ltd.	LNG Fuel Gas Supply System Gaslink®	

★ Generator Set




10	Kungfu Sci-tech Co., Ltd.	Marine Generator	
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★ Propulsion System



11	Shanghai Changqiang Heavy Industry Machinery Co., Ltd.	Multi-Directional Forging Crankshaft For 2-Stroke Marine Diesel Engine	
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12	Shandong Baoding Heavy Industry Co., Ltd.	Transmission Shaft		
13	Nanjing High Accurate Marine Equipment Co., Ltd.	Azimuth Thruster		
14	Bel's Pride Marine&Offshore Equipment Co.,Ltd.	High-power Contra-rotating Azimuth Thruster	 P8
15	Zhejiang Fengshen Ocean Engineering Technology Co., Ltd.	Marine Straight-Wing Propeller		
16	Guangzhou Haigong Marine Equipment Co.	Counter Rotating Rim Driven Thruster		
17	Hangzhou Advance Gearbox Group Co., Ltd.	Marine Gearbox		




★ Deck Machinery

18		Windlass&Mooring Winch		
19	Jiangsu Masada Heavy Industries Co, Ltd.	Deck Crane		
20		Steering Gear		
21	Guangdong Shipyard International Elevator Co.,Ltd.	Elevator For Ships		
22	Rudong Hongxin Machinery Co.,Ltd.	Umbilical Winch		




★ Cabinet Machinery

23	Qingdao Sunrui Marine Environmental Engineering Co., Ltd.	Ballast Water Management System (Balclor®)		
24	Headway Technology Group (Qingdao) Co., Ltd.	Ballast Water Management System (Oceanguard®)	 P9





★ Electric Power Equipment

25	Dezhou Hengli Electrical Machinery Co., Ltd.	Marine Motor	
26	Tianshui 213 Electrical Apparatus Group Co., Ltd.	Marine Low-Voltage Electric Apparatus	
27	Shanghai Yunshen Ship Engineering Co., Ltd	Marine Potentiostat	

★ Automation Equipment

28	Qingdao Jari Industrial Control Technology Co., Ltd.	Integrated Equipment for Assisting Berthing and Unberthing	
29	Gsi Marine Research Center	Auxiliary Berthing System for Ro-Pax	
30	Xiao Tun Intelligence Technologies Co. Ltd	Cyberpilot	 <i>P11</i>

★ Communication and Navigation Equipment

31	Sino Satellite Communications Co.,Ltd.	Maritime Sat-Com Solutions (MarineTel)	 <i>P12</i>
32	Qingdao Jari Automation Co., Ltd.	Maritime Multimode Remote Communication Terminal	
33	Hangzhou Huayan Digital Electronics Co., Ltd.	Platform public address system	 <i>P13</i>
34	Liaoning Xing Zhi Huo Software Co., Ltd.	Display and Control Module for ECDIS	

★ Pump, Valve & Pipe

35 Shandong Zhuangfa Pumps Industry Co.,Ltd. Marine Pump



36 Suzhou Jiumei Fiberglass Co., Ltd. Marine Fiberglass Pipe



★ Marine Specific Equipment

37 Guangdong KEEN Offshore Engineering Co., Ltd. Jacking System & Fixation System for Jack-Up Platforms



38 Gearbox for Lifting Unit of Jack-Up Platforms

39 Chongqing Qingping Machinery Co., Ltd. Rotation/Hoist Reducer for Offshore Cranes



40 Pitch and Yaw Reducer for Wind Turbine

41 Lianyungang Jari Automation Co., Ltd. Marine LNG Transfer Equipment and System



★ Outfittings

42 Shanghai Hunter Marine Equipment Co., Ltd. Fin Stabilizer



43 Yantai North Sea Offshore Technology Co., Ltd. Aluminum Helideck



44 CSSC Shanghai Marine Energy Saving Technology Development Co., Ltd. CMES-HVAF®



45 CMES-PSV®

46 Marine Chains

Jiangsu Asian Star Anchor Chain Co., Ltd.

47 Offshore Mooring Chains



48	Qingdao Anchor Chain Co., Ltd.	Marine Chains & Offshore Mooring Chains	
49	Tianjin Huali Thermal Insulation Building Material Co., Ltd.	Health Unit	
50	Yantai North Sea Offshore Technology Co., Ltd.	Cabin Unit for Offshore Accommodation	
51	Hangzhou Huayan Digital Electronics Co., Ltd.	Fire Alarm Controller	
52	Tianjin Huali Thermal Insulation Building Material Co., Ltd.	Fire-Proof Door	

★ Ships-Shipbuilding Materials






53	Changshu Longteng Special Steel Co., Ltd.	Flat-Bulb Steel	
54	Zhejiang Zetastone Cable Co., Ltd.	Marine Low-Voltage Cable	
55	Jiangsu Hailu Technology Co., Ltd.	Composite Rock Wool Board	
56	Tianjin Huali Thermal Insulation Building Material Co., Ltd.	Composite Rock Wool Board	
57	Xiamen Sunrui Ship Coating Co., Ltd.	Marine Paint	
58	Zhejiang Utop New Materials Co., Ltd.	Marine Paint	
59	Zibo TAA Metal Technology Co., Ltd.	Steel Shot	

★ Manufacturing Facilities






60	Han's Laser Technology Industry Group Co., Ltd.	Linear Rail Large-Format Laser Cutting Machine	
61	Penta Laser (Zhejiang) Co., Ltd.	Laser Cutting Machines for Shipbuilding	

62	CSSC Digital Information Technology Co., Ltd.	Outer Plate Painting Workstation for Newbuilding Ship (JARI)	
63		Robot Workstation for Assembly of Hull Units (JARI)	
64		CNC Frame Cold Bender	
65	Shanghai Shipbuilding Technology Research Institute	Intelligent Processing Production Line for Shipbuilding Structural Section	 
66		Automatic Welding Equipment for Corrugated Plates of Mark III LNG Cargo Containment System	
67		Automatic Welding Equipment for Sub-Assembly	
68	IMC Shipyard (Zhoushan) Co., Ltd.	UHP Water Jetting Blasting Equipment	
69	Beijing TimeRiver Technology Co., Ltd.	Climbing Robot for Ship Rust Removal	
70	Shenzhen AKA Robotics Technology Co., LTD.	Climbing Robot for Ship Rust Removal	

★ Industrial Software

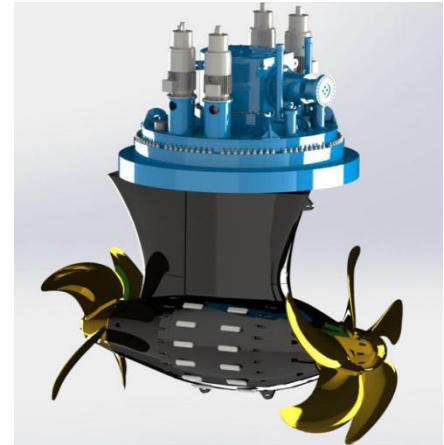
71	CSSC Digital Information Technology Co., Ltd.	Flexible Processing and Control System for Ship Pipes	
72	Jiangsu Modern Shipbuilding Technology Co., Ltd.	PIPE Manufacturing Execution System Software	
73	Shanghai Shipbuilding Technology Research Institute	Intelligent MES for Shipbuilding Workshop (iMES)	 
74		Robot Welding Process Planning And Multisim Software (iRobCAM)	
75	Guangzhou Hongfan Technology Co., Ltd.	CIMS for Shipbuilding	

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76	Jiangsu Modern Shipbuilding Technology Co.,Ltd.	Ship-Repairing Solution Software	 P17
77	CSSC Industrial Internet Co., Ltd.	Industrial Internet Platform		
78	Shanghai Waigaoqiao Shipbuilding & Offshore Engineering Co., Ltd.	Digital Shipbuilding Cloud Platform		
79	CSSC Digital Information Technology Co., Ltd.	Application Development Platform		
80	ZWSOFT CO., LTD.(Guangzhou)	CAD/CAE/CAM		

Product Advantages

- Contra-rotating Azimuth Thruster has the characteristics of high efficiency, low noise, suitability for high speed, and convenient operation. The advantages of counter rotating twin propellers: they can reduce the speed of each propeller and gear, improve efficiency, and the rear propeller can also absorb the energy in the front propeller vortex, reducing energy loss.
- Through actual testing, it has been found that under free navigation, there is a significant reduction in noise and vibration during operation without bubbles. Compared with ordinary single blade full rotation thrusters, the efficiency is improved by 20-25%.



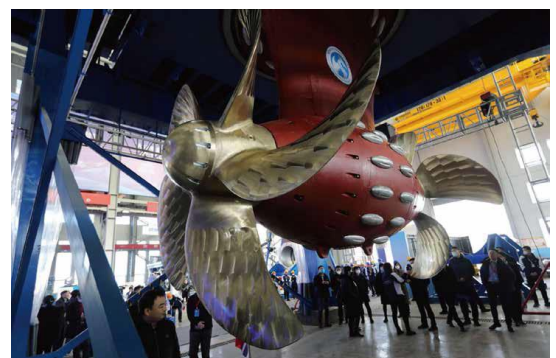
Product Specification

Specification	Power	Input revolving speed	Maximum propeller diameter	Weight
Bp-25C	2032KW	1800rpm	1900mm	~ 12000kg
Bp-35C	2400KW	1000/1200rpm	3200mm	~35000kg
Bp-45C	3400KW	1000/1200rpm	3500mm	~46000kg
Bp-50C	4500KW	750rpm	3600mm	~55000kg
Bp-60C	5100KW	750rpm	3800mm	~72000kg
Bp-70C	6200KW	750rpm	4000mm	~89000kg
Bp-80C	7000KW	560/750rpm	4400mm	~ 126000kg
Bp-90C	7700KW	750rpm	4400mm	~ 126000kg
Bp-150C	12000KW	600rpm	5500mm	~400000kg

Product Installations

Bel's Pride Marine&offshore Equipment Co.,Ltd. is a national high-tech enterprise dedicated to the research and development, design, production, and service of high-performance fully rotating propulsion equipment products, specializing in the manufacturing of high-end marine equipment.

The company has mastered key technologies in open, ducted, counter rotating, and ice breaking full rotation thrusters, formed a standardized series of products, and established a complete supply chain system for large-scale thruster equipment. It is currently the only enterprise in China with practical performance in high-power contra-rotating azimuth thruster .



Product Advantages

- Adopt the Technology of Advanced Electrocatalysis Oxidation Process (AEOP).
- Single treatment, small footprint, low power consumption, No generation of hydrogen gas.
- Stable operation in various water conditions world widely, not affected by salinity, temperature nor turbidity.
- Fully certified by over 20 major class societies and flags.
- Service network covers 56 Countries Across the World with 120+ Service Stations, 3 Overseas Spare Parts Warehouses, 10+ Overseas Branches and Subsidiaries and 300+ Global Service Engineers.

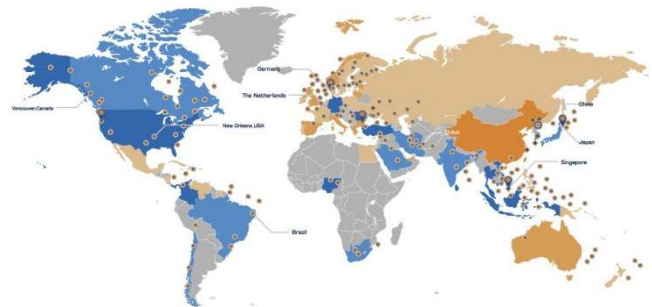


Product Specification

Type	Power (KW)	Dimension (mm)	Capacity Range (m ³ /h)
HMT-50E	0.8	426*411*1041	10-85
HMT-300E	4.5	426*555*1701	50-350
HMT-450E	6.8	456*601*1821	50-500
HMT-600E	9	505*631*1957	50-700
HMT-800E	13	505*781*1957	50-900
HMT-1000E	17	605*676*2123	100-1100
HMT-2000E	34	665*926*2208	100-2200
HMT-3000E	52	695*1054*2222	100-3500
HMT-4000E	69	695*1054*2222	100-4500

Product Installations

Headway is the 1st BWMS producer who exports to overseas market and has independent intellectual property rights of the entire production process. It has successively reached cooperation with many world-renowned shipping companies. As of the end of 2023, Headway OceanGuard® BWMS had received order of more than 3,500 shipsets, and nearly 3,000 ship sets had been delivered. Product sales and market share are among the top players in the world.

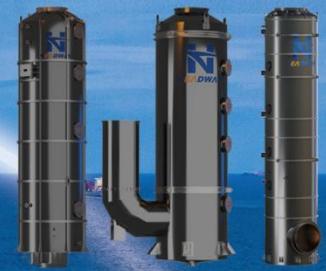




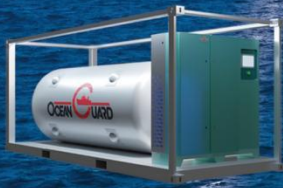
OceanGuard® FGSS



OceanGuard® LFSS



OceanGuard® EGCS



OceanGuard® CCUS



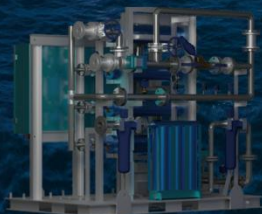
OceanGuard® BWMS



BILGE SEPARATOR



W/G HEATING SYSTEM



NITROGEN GENERATOR



VDR/S-VDR



Methanol Fuel Supply System



LNG Fuel Gas Supply System



Ballast Water Management System



Exhaust Gas Cleaning System



Carbon Capture Utilization and Storage System



Email: info@headwaytech.com

<http://en.headwaytech.com>

TEL: +86 532 8578 8888



Product Advantages

- CYBERPILOT is an expandable unmanned ship controller kit with high performance, which helps customers quickly build unmanned ship system;
- CYBERPILOT has the functions of motion control of unmanned ships, multi-unmanned ship coordination / formation control, can be used for the ships of different scales;
- It has the advantages of high integration, reliable performance and good scalability;
- It provides abundant IO interfaces and multiple bus interfaces, with good compatibility for third-party devices.



Product Specification

Product	CYBERPILOT XTPT-MCUV	Interfaces	CAN*2	Basic Function	Obstacle Avoidance	Customization	According to customer's requirement
			RS485*1		Path tracking		
Size	177mm*143mm*60mm	RS232*3	Heading control				
Material	Maritime Aluminum	RJ45*1	Speed control				
Weight	≤1.2kg	General-Purpose IO*7	Remote control				
Working Voltage	DC12-24V	Navigation System	GPS (RTK is available)	Operation Model	Autonomous control		

Product Installations

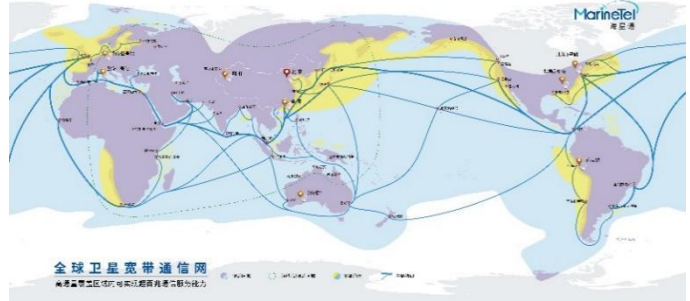
With the CYBERPILOT system, we has proposed application solutions in different industries, such hydrographic survey, shipping, environment protection, rubbish collecting, performing and advertising, safeguard and patrol, aquaculture.

This product can be used for both military and civilian purposes, and is widely applied in scenarios such as patrol and alert, water quality monitoring, water area cleaning, unmanned boats, unmanned transformation of ships, military engineering, and more. For instance, it has been successfully applied to a scientific research vessel developed by a research institute of CSSC. The vessel, with a total length of 55 meters and a displacement of approximately 1,500 tons, has been classified by China Classification Society and completed its first sea trial in a certain area of Shandong Province in September 2023.



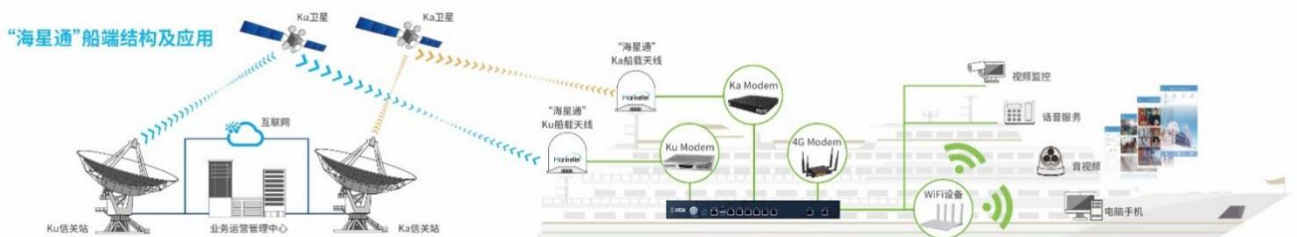
Product Advantages

- National team of satellite communication
- Merges various maritime sat-com capabilities such as Ka, Ku, BeiDou, and etc.
- Covers the Pacific Ocean, the Indian Ocean, the Atlantic Ocean
- Serves global ships, offshore oil and gas platforms and ports along the route
- Provides ship-to-shore management, crew management, ship management and other information services
- 24/7 service



Product Specification

- **MarineTel Global Satellite Broadband Communication Network**
Max rate: Uplink 8Mbps; Downlink 60Mbps
Main applications: Internet access, video surveillance, video conference, maritime livestream, voice call, message push, Safety production and emergency response
- **MarineTel Marine Internet Comprehensive Information Service Platform**
Internet comprehensive management platform: Ship position management, navigation tracking, alarm management, traffic query, data management
MarineTel APP: Self-service, one-click safety check, weather inquiry, streaming media, and infotainment
Vessel digital management platform: maintenance management, maritime affair management, ship-to-shore management, crew management, and intelligent cabin



Product Installations

MarineTel has provided services for more than 9,000 vessels of enterprises and institutions.



Product Advantages

- Enable platform public broadcast security verification to protect against unauthorized use
- Has over current protection, temperature protection and other safety protection measures to ensure the stable and reliable operation of the host
- Rich peripheral interface, simple and beautiful operation panel for the operator to provide great convenience and control enjoyment
- Embedded general alarm module, dual redundant circuit design, improve the stability and reliability of the overall system operation



Product Specification

Name	Type	Arguments	Name	Type	Arguments
Platform public address system host	CKY-1T/P	2*50W-2*1500W	Marine loudspeaker	YSQ	0.5W/1W/2W/3W/5W
Public address main remote control station	YKQ-1ZP		Marine loudspeaker	YSG	0.5W/1W/2W/3W/5W
Explosion-proof public address remote control station	YKG-1E	Ex ib IIC T6 Gb	Marine loudspeaker	YSP	0.5W/1W/2W/3W/5W
Alarm remote station	YKG-2		Marine horn loudspeaker	YHC	5W-200W
Weather proof alarm remote control station	YKG-2F	SUS316L	Marine alarm	SG-6B1Z	DC24V
Personnel warning system power box	DF-1P	100W/200W/300W	Marine alarm	SG-6B1J	AC220V
Visual indicator of platform status	SG-4C1	AC220V/ DC24V	Buzzer	SG-4B	AC220V/ DC24V
Explosion-proof tweeter	YHE-1	Ex db ib IIC T6 Gb	Electronic bell	SG-41B	AC220V/ DC24V
Marine loudspeaker	YSX	0.5W/1W/2W/3W/5W	Flash bell set	SG-3C	AC220V/ DC24V

Product Installations

The average annual production capacity of the products is about 20 million, supporting nearly a hundred ships every year, specialising in supporting intelligent offshore vessels, offshore oil platforms, research vessels, maritime vessels, border control vessels, military auxiliary vessels and petrochemical and mineral transport civilian ships. We focus on supporting Jiangnan Shipbuilding, Hudong-Zhonghua, SWS, DSIC, GSI, Guangzhou Huangpu Wenchong, Wuchang Shipbuilding Heavy Industry and other famous domestic shipbuilding enterprises.

The application of Haiyang Shiyou 981 deep water semi-submersible drilling platform marks the localization of this equipment in the field.



Product Advantages

- The advanced low-power ARM processor is used as the control center of the system with abundant internal resources and superior performance
- Communication interfaces adopt complete isolation technology to improve the anti-interference capability of communication interfaces and ensure the normal transmission of communication data
- EN54 standard is adopted to realize fire alarm data processing and alarm function by software
- FLASH chips store data, save more than 10 years, the host has Chinese and English display, one-click switch



Product Specification

Name	Type	Arguments	Name	Type	Arguments
Fire alarm controller	JB-QB-2000	1-4loop	Manual alarm button	HY-M900K	DC15V-33V
Fire indicator panel	HY-2000		Manual alarm button	HY-M500K	DC15V-30V
Heat detector	JTW-BD-ZM995	DC15V-28V	Hand encoder	HY-2012	
Smoke detector	JTY-GD-ZM992	DC15V-35V	Ultraviolet flame detector	JTG-ZW-601F-M	DC24V
Explosion-proof smoke detector	JTY-GD-2151EIS	Ex ib IIC T6 Gb	Interface module	HY-M902M	
Explosion-proof temperature detector	JTWB-BCD-5151EIS	Ex ib IIC T6 Gb	Input module	HY-M900M	
Detector isolation base	DZ-90Li		Output module	HY-M900C	
Acousto-optic alarm isolation base	HY-2010		Timer	TM520	
Explosion manual alarm button	HY-M900KEIS	Ex ia IIC T5 Ga	Power module	DF-3/HJ	DC24V

Product Installations

The average annual production capacity of the products is about 10 million, supporting nearly 300 ships every year, specialising in supporting intelligent offshore vessels, offshore oil platforms, research vessels, maritime vessels, border control vessels, military auxiliary vessels and petrochemical and mineral transport civilian ships. The company focuses on supporting Jiangnan Shipbuilding, Hudong-Zhonghua, DSIC, GSI, Guangzhou Huangpu Wencong, Wuchang Shipbuilding Heavy Industry and other famous domestic shipbuilding enterprises.

The application of Sansha No. 1 and No. 2 multi-purpose ships marks the localization of this equipment field.



Product Advantages

- Custom range, lengths 6 m and up, widths 2.5 m - 5.5 m
- Cutting table with modular assembly structure, separable from machine.
- Optional bevel cutting function for angles 0 - $\pm 45^\circ$.
- Linear guide large frame base for accuracy.
- Rigid extruded aluminum beam for long-term cutting stability.
- "Upper blowing and lower ventilating" dust removal structure for efficiency and environmental protection.



Product Specification

Model	Processing format	Max.speed (X/Y)	X/Y axis length	Dimension (L×W×H)	Weight (kg)*
G26035L	26000mm×3500m m	70m/min	X axis 0.05mm/10m Y axis 0.06mm (full stroke)	32m×5.4m×2.1m	10 ton

*Except auxiliary devices & platform

Product Installations

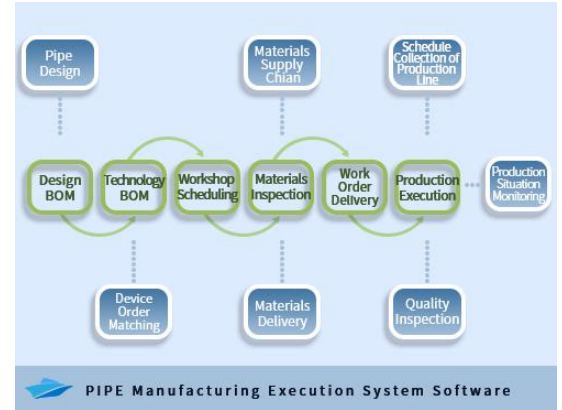
In ship offshore manufacturing, there are many typical enterprises using this line-rail laser cutting equipment, from Guangzhou Shipbuilding International and China Communications and Transportation Bureau, in South China, to Hudong-Zhonghua Shipyard, IMC Shipyard(Zhoushan), Longshan Shipyard and Zhenjiang Shipyard, in East China, and then to Bohai Shipyard and CIMC Raffles in North China, including ship offshore ancillary enterprises such as Sany Offshore Heavy Industry and Nantong Marine Machinery Group, etc., which have all procured this line-rail large format laser cutting machine.

At the end of 2023, Han's Laser Smart Equipment Group won the bid of Hudong-Zhonghua Shipbuilding , LNG carrier capacity enhancement project of high-power CNC laser cutting machine project, with a total project amount of more than ten million yuan, the models are Han's Laser Linear Rail Large Format Laser Cutting Machine, Hudong-Zhonghua Shipbuilding has become one of the typical shipbuilding manufacturers for the product.



Product Advantages

- Adopt the Technology of Advanced Electrocatalysis Oxidation Process (AEOP).
- With upgrading and rebuilding on intellectual production line of pipe manufacturing workshop, the system supports both the traditional production mode of assembly-welding for all and bending after welding, and the production line mode of batching-welding and welding after bending.
- Based on design model data, adopting processing data from production line, disassembling pipe manufacturing and groups, generating automatically work orders, checking materials.
- Support station computers, mobile equipment and production line feedback, ensuring the timeliness and accuracy of production situation.



Product Specification

Business Matching	Concurrent Processing	Expandability	Security	Reliability
The system has various functions like design data extraction, auto-calculation of process data, disassembling of work order, production scheduling of workshop, materials inspection and so on, meeting the requirements of workshop manufacturing more than 80000 pipes.	Support 10000 Concurrent online users and 500 concurrent requirements, ensuring system fluency during rush hour.	Based on low-code platform, the system supports secondary development and module-class and functional expanding, meeting the requirements of information technology application innovation.	Ensuring application security through authentication, access control, core data encryption and log audit.	With fault-tolerant mechanism, Backup and restore policies, adopting double hot standby and remote disaster recovery for ensuring reliability.

Product Installations

With rapid development, the product has been applied and implemented in several large-scaled shipbuilding enterprises, including New Time shipbuilding, Yantai CIMC Raffles, New Dayang Shipbuilding, COSCO Shipping Heavy Industry and so on. The product has been selected as First Prize in Ship Industry Software Competition Industry Software of Jiangsu Province in 2023.



Product Advantages

- Real-time Multi-user Collaboration: to build flexible management platform for cooperative project order, realizing effective records, dynamic update and sharing.
- Multi-order in One, Clear Account after Shipbuilding: itemized signing, account managing, E-price book making, settlement accelerating, realizing clear account after shipbuilding.
- Covering and Improving Business: based on project order data, covering management, quality, security, materials and logistics. e the features and advantages of the product.
- Digital Empowerment, Cost Decreasing and Benefit Increasing: based on business data, finding digital assets, improving efficiency index and allocating resources properly.



Product Specification

Business Matching	Concurrent Processing	Expandability	Security	Reliability
Project order collaboration platform realizes <i>one order for both making and accounting</i> . By E-price book, accounting efficiency has increased with 3 times, which shorten accounting period, meeting the requirements of more than 400 repairing shipyards.	Support 10000 Concurrent online users and 500 concurrent requirements, ensuring system fluency during rush hour.	Based on low-code platform, the system supports secondary development and module-class and functional expanding, meeting the requirements of information technology application innovation.	Ensuring application security through authentication, access control, core data encryption and log audit.	With fault-tolerant mechanism, Backup and restore policies, adopting double hot standby and remote disaster recovery for ensuring reliability.

Product Installations

With rapid development, the product has been applied and implemented in several large-scaled ship-repairing enterprises, including Zhoushan Xinya Shipyard, Yiulian Shipyard (Shekou), Nanyang Star Ship Industry, Zhoushan ZHongtian Heavy Industry, Hongkong Yiulian Shipyard, IMC Shipyard(Zhoushan) and so on. The cooperation in Phase II and III of those enterprises has been underway. The product has been selected as one of the Excellent Industry Software of Jiangsu Province in 2021.



To Strength Shipbuilding Supply Chain.



China Association of the National Shipbuilding Industry

ADD: No.5, YueTanBeiJie, XiCheng, Beijing

TEL: +8610 5951 8266

E-MAIL: cansi@cansi.org.cn