



浙江华益船舶设备制造有限公司
ZHEJIANG HUAYI SHIP EQUIPMENT MANUFACTURE CO.,LTD.

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创新是我们的传统
Innovation is our tradition



华益船舶设备
HUAYI SHIP EQUIPMENT

COMPANY HISTORY

公司历程

2005

开始P型系列比重环形式分离机的研发与生产，产品经工厂的重油(180cSt/50℃)耐久试验后逐步配套国内沿海船舶使用。

Huayi started the R&D and production of P-Type Separator Series with gravity discs. Following factory endurance tests with heavy fuel oil (180 cSt at 50°C), these units were progressively fitted to coastal vessels in domestic service.

2004

公司成立，主要产品为分油机、燃油供油单元，涉及船舶轮机、海洋平台及陆用电站领域的油品净化与燃油供油系统。

Established in 2004, Huayi specializes in the manufacturing and servicing of separators and fuel supply units, providing oil purification and fuel treatment solutions for marine engine systems, offshore drilling platforms, and land-based fuel power plants.

2007

设计开发船用系列燃油供油单元，零部件配套选用国际知名品牌如:奥地利KRAL、美国IMO的油泵，荷兰VAF、瑞士Aquametro的粘度计和流量计，德国BOLLFILTER滤器，德国KRACHT调压阀等性能可靠的部件作为华益的合格供应商。

Huayi designed and developed marine fuel supply units,incorporating premium international components including: KRAL (Austria) and IMO (USA) oil pumps, VAF (Netherlands) and Aquametro (Switzerland) viscometers and flow meters, BOLLFILTER (Germany) filters, KRACHT (Germany) pressure regulating valves, and other high-performance components from Huayi's long-term suppliers.

2010

公司开发出S型系列无比重环分离机，分离油品密度提高到1100kg/m³，分离量达到13300 L/H（380cSt/50℃）并经工厂耐久试验后已配套国际航行船舶。

Huayi developed the S-Type Separator Series without gravity discs, achieving increased oil separation density up to 1100 kg/m³ and separation capacity reaching 13,300 L/H (380 cSt at 50°C). Following factory endurance tests, the units were progressively fitted to international navigation vessels.

2018

公司开始布局海外市场，并建立以新加坡、迪拜为服务中心的全球服务网络。同时在各网点存有分离机及燃油供油单元备件，以方便备件供应。

Huayi began expanding into overseas markets and established a global service network with service centers in Singapore and Dubai. Spare parts for separators and fuel supply units are stored at each point to facilitate parts supply.

2024

经20年发展华益已形成年销售1000多台分离机，300多台燃油供油单元的规模。展望未来，华益将以科技创新为驱动，不断突破技术瓶颈，打造更智能、更高效、更可靠的分离机、燃油供油单元，引领行业未来发展。

After 20 years of development, Huayi achieves an annual sales volume of 1,000+ separators and 300+ fuel supply units. Looking ahead, Huayi will drive innovation through technological breakthroughs to develop smarter, more efficient, and more reliable products, pioneering the future of the industry.

GLOBAL SERVICE NETWORK
全球服务网络



CERTIFICATIONS
公司资质证书



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土耳其服务中心
Turkish Service Center
YAF DIESEL SHIP SPARE PARTS LTD
[Head office] Evliya felebi Mah, Rauf orbay cad.No:
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0090 216 494 4902
yusuf@tmmarineparts.com

希腊、塞浦路斯、阿姆斯特丹
等其他服务网点正在筹建中...
Service points in Greece, Cyprus,
Amsterdam and other regions are
currently under development.



FACTORY SHOWCASE

工厂实景

公司占地面积16000多平方米，科学规划为机械加工区、焊接区、装配区及质检区等多个功能区域。

在生产设备方面，我们配备了先进的数控加工中心、高精度检测仪器、专业的焊接与成型设备，以及自动化焊接机器人，确保卓越的生产效率与产品质量。

Our facility spans over 16,000m², scientifically partitioned into functional areas including machining, welding, assembly, quality inspection zones, etc.

For production equipment, we are equipped with advanced CNC machining centers, high-precision measuring instruments, specialized welding and forming systems, and automated welding robots, ensuring exceptional production efficiency and product quality.



20多年

船用油品处理技术沉淀

ADVANCING MARINE FUELS
& LUBRICANTS:

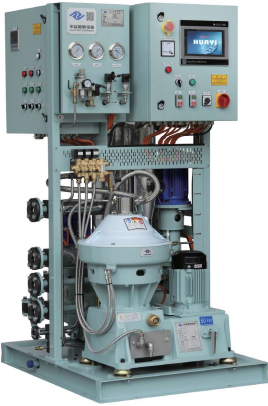
20+ Years

Expertise in Oil Processing



P-Type Separator

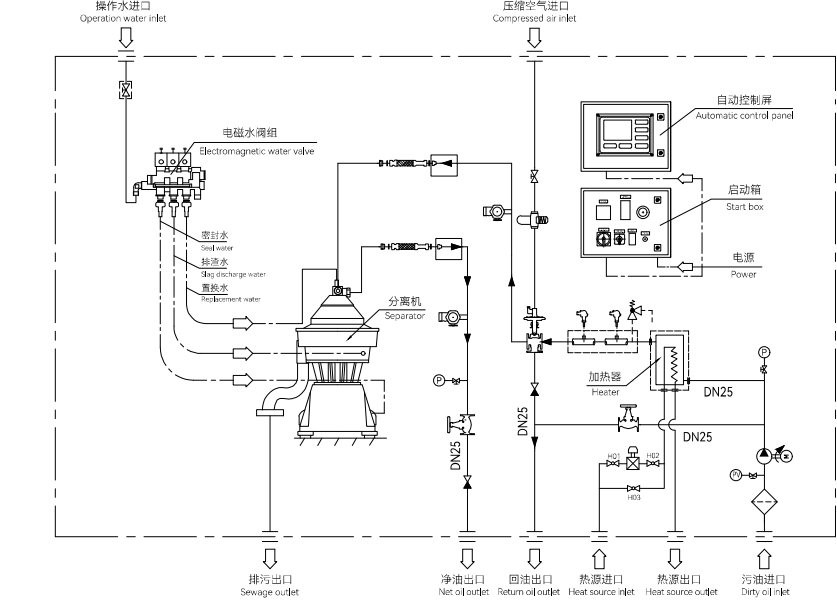
P型分离机



P系列分离机是一款通过调节比重环来设定油水分界面进行油品的净化。适用于船用润滑油、柴油、重油等油品净化处理。

The P-Series separator operates by adjusting the gravity disc to establish the oil-water interface for oil purification, specifically designed to process oils such as marine lubricating oils, marine diesel oil (MDO), and heavy fuel oil (HFO).

- 最大分离密度：991kg/m³
- 最大处理粘度：600cSt/50℃
- Max. separation density: 991 kg/m³
- Max. processing viscosity: 600 cSt at 50℃



油品类型 Oil Type	SAE40	MGO	MDO	IF		HFO		
	CST/40℃	CST/40℃	CST/40℃	CST/50℃	80cst	CST/50℃		
分离粘度 Separating Viscosity	100cst	1.5~6cst	13cst	30cst	80cst	180cst	380cst	500cst
分离温度 Separating temperature	90℃	20~40℃	40℃	70℃	90℃	98℃	98℃	98℃
型号 Model	P605	P615	P626	P636				
	860	1450	2650	4000	1650	2800	3450	5050
	2100	3300	4400	6750	1400	2400	2450	5700
	2000	3000	4000	7100	1300	2000	3650	3000
	720	1250	2150	3000	950	1600	3650	

P-Type Separator Module

P型分离机模块

P型分离机模块是通过各部件集成在一个单元上，采用PLC控制实现分离机的自动控制、自动报警。控制屏采用触摸屏方式、显示运行动态、故障分析及记忆功能，同时可延伸至集控室进行远程监控。

The P-Type separator module integrates all components into a single unit, utilizing PLC control to achieve automated operation and alarm functions. The touchscreen control panel provides real-time operational monitoring, fault diagnostics, and data logging, with remote monitoring access from the Central Control Room (CCR).



S-Type Separator

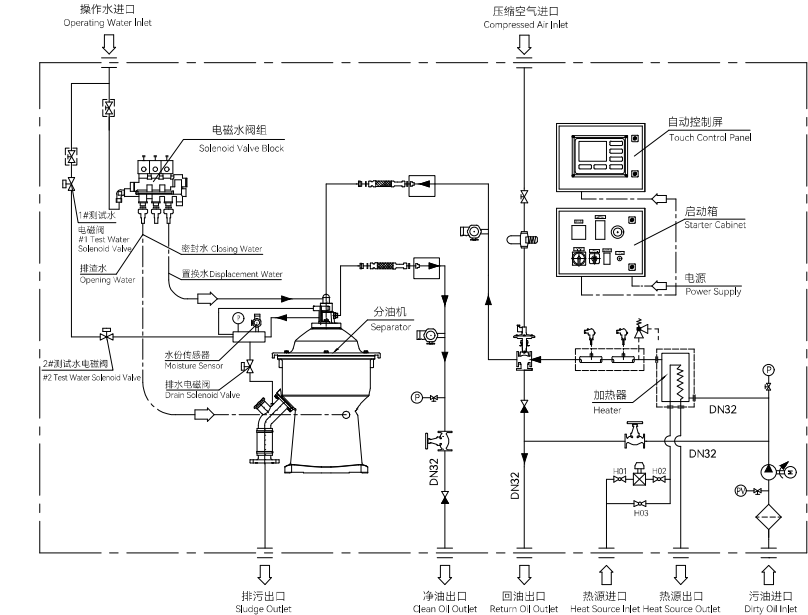
S型分离机



S系列分离机是一款无比重环分离机， 在高速运行时密封转鼓中油水分界面的混合液体通过分流管进行循环， 同时通过水份传感器实时检测混合液中的水份含量来控制排水。

The S-Series separator operates without a gravity disc. During high-speed rotation, the liquid mixture at the oil-water interface within the sealed bowl is recirculated through a distributor, while a water content sensor continuously monitors moisture levels in real-time to control water discharge during the separation process.

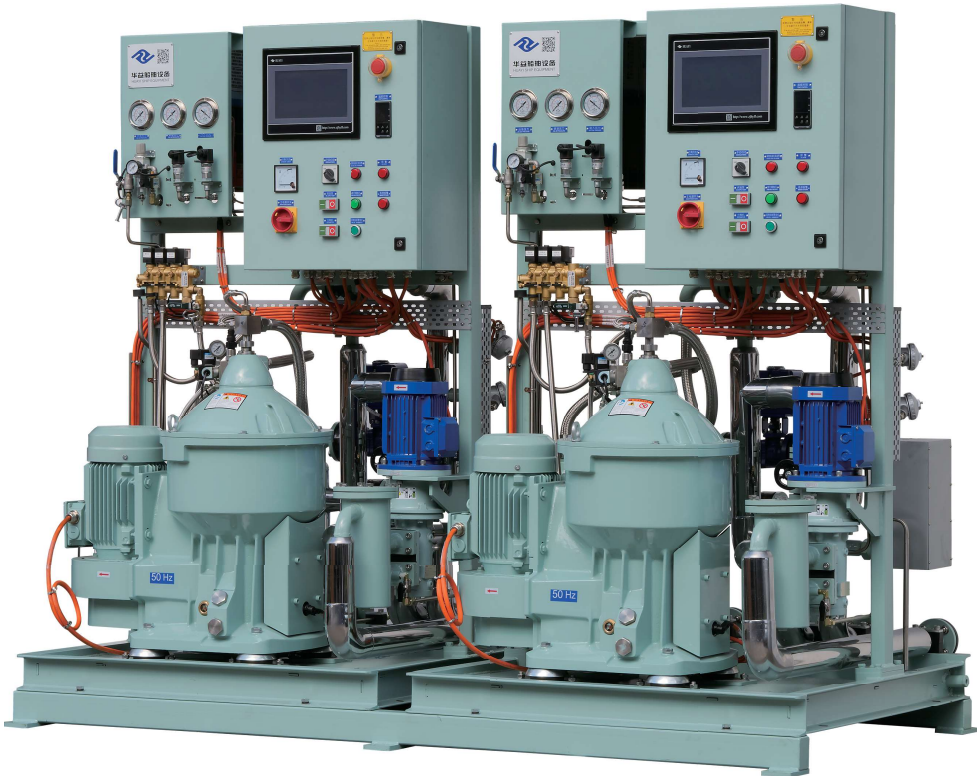
- 最大分离密度： 1100 kg/m³
- 最大处理粘度： 700 cSt/50°C
- Max. separation density: 1,100 kg/m³
- Max. processing viscosity: 700 cSt at 50°C



油品类型 Oil Type	MGO	MDO	IF		HFO		
	CST/40°C	CST/40°C	CST/50°C		CST/50°C		
分离粘度 Separating Viscosity	1.5~6cst	13cst	30cst	80cst	180cst	380cst	500cst
分离温度 Separating Temperature	20~40°C	40°C	70°C	90°C	98°C	98°C	98°C
型号 Model	S805	S815	S926	S927	S936	S9410	S9610
	2100	3300	4400	5000	6750	11100	21000
	2000	3000	4000	4800	6500	11100	21000
	1650	2800	3850	4500	6050	11100	21000
	1400	2400	3650	4300	5700	11100	20110
	1300	2200	3450	4100	5050	11100	19200
	950	1600	2450	2950	3650	7900	13300
	720	1250	2150	2450	3000	6750	10400

S型分离机模块是通过各部件集成在单元上，采用PLC控制实现分离机的自动控制、自动报警。分离机配有转速与润滑油液位监控，利用触摸屏显示运行数据、故障分析与数据储存，同时延伸至集控室进行远程监控。

The S-Type separator module integrates all components into a single unit, utilizing PLC control to achieve automated operation and alarm functions, equipped with bearing speed and lube oil level monitoring, the touchscreen control panel provides real-time operational monitoring, fault diagnostics, and data logging, with remote monitoring access from the Central Control Room (CCR).



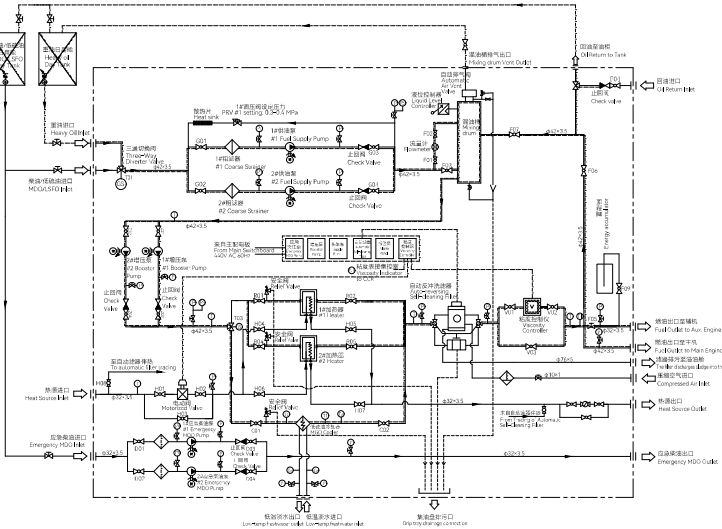
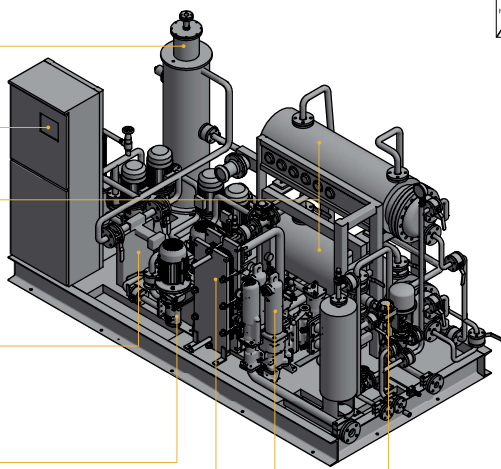
S-Type Separator Module

S型分离机模块

FUEL SUPPLY UNIT

燃油供油单元

- 加注筒：配有自动排气阀、液位开关、安全阀，能自动将系统中的空气排出。
Filling Drum equipped with Automatic vent valve, Liquid level switch, Safety relief valve for automatic air evacuation from the system.
- 控制柜：PLC自动控制，MDO/LSFO自动切换，燃料过程的带量数据记录及远程传输，模块化自动控制。
Control Panel: PLC Automated operation with automatic MDO/LSFO switching, comprehensive data logging of the fuel conditioning process, remote data transmission, and modular automation system.
- 壳管式加热器：2台蒸汽/电油加热器并联，互为备用，也可以选择电加热器，加热器旁式布置，维护清洗方便。
Shell and tube heaters: Two steam or thermal oil heated units operating in parallel with mutual standby, also an optional electric heater. Horizontally mounted to ensure accessible maintenance and cleaning.
- 流量计：容积式、质量式（可选），精度0.1%，带本地瞬时流量、累计流量、流速、流速和进口截止阀，带RS-485信号输出。
供货商：瑞士Aquametro，德国KROH HVE，荷兰VAF，奥地利KRAL。
Flow Meter: Positive Displacement or Mass Flow (optional). Accuracy: 0.1% with local display of instantaneous and cumulative flow, equipped with bypass valve, shut-off valve and RS-485 signal output.
Suppliers: Aquametro Switzerland, KROH Germany, VAF Netherlands, KRAL Austria.
- 泵：三瓣叶片，内置安全阀，机械密封，泵能自动切换及允许运行的最低粘度1.5cSt。
供货厂家：奥地利KRAL，美国MO Pump，Tribol-cone pump with integral relief valve and mechanical seals, featuring auto-changeover capability and minimum operating viscosity of 1.5 cSt.
Suppliers: KRAL Austria, MO Pumps United States.
- 低粘度冷却器：适用于粘度≤0.1%的MGO。
MGO Cooler: Suitable for MGO with ≤0.1% sulfur content.
- 全自动滤油：过滤精度10μm，采用2个滤芯自动切换/互为备用，带有压缩空气辅助冲洗。
供货厂家：德国SOLIFILTER油滤。
Automatic Self-cleaning Filter: Filtration grade 10 μm, with dual-chamber automatic switching mutual standby, featuring compressed air assisted backwashing.
Supplier: SOLIFILTER Oil Filters Germany.
- 粘度传感器：采用振流式。
供货厂家：瑞士Aquametro，荷兰VAF。
Viscosity Sensor: Oscillating-type.
Supplier: Aquametro Switzerland, VAF Netherlands.



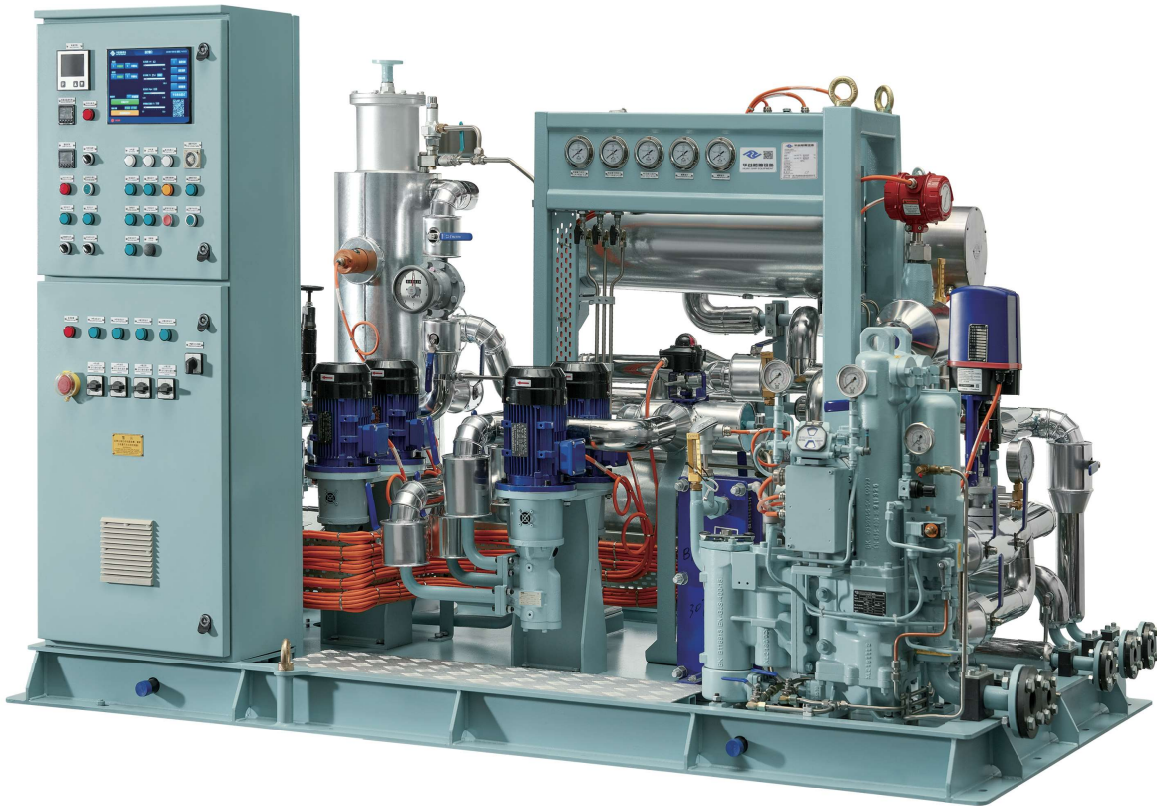
燃油供油单元选型表 Fuel Supply Unit Selection Table					
型号 Model	设计压力 Design Pressure	工作压力 Operating Pressure	设计温度 Design Temperature	供油量 Fuel Supply Capacity	适配柴油机功率范围 Suitable for diesel engine power range
HG01SS	1.1MPa	0.4~1.0MPa	145℃	0.3~1m³/h	1000~ 4500KW
HG02SS	1.1MPa	0.4~1.0MPa	145℃	1.0~1.8m³/h	4500~ 8000KW
HG03SS	1.1MPa	0.4~1.0MPa	145℃	1.8~2.6m³/h	8000~ 12000KW
HG04SS	1.1MPa	0.4~1.0MPa	145℃	2.6~5.0m³/h	12000~ 20000KW

HG全自动智能燃油供油单元具备：

- 油品一键切换，实现MDO、MGO、LSFO、HFO相互转换。
- 实现加热与冷却自动转换，同时升温、温降每分钟1~5℃的平稳过渡（参数可设置）。
- 实现远程显示与控制，同时显示运行数据、报警信息、油耗及碳排放量。
- 可利用通讯传输实现岸基的系统管理。

HG Fully Automatic Intelligent Fuel Supply Unit Features:

- One-touch oil switching achieves mutual conversion between MDO, MGO, LSFO, and HFO.
- Automatic Heating and Cooling: Achieves smooth temperature transition at 1~5°C/min for both rising and falling temperatures (configurable).
- Enables remote monitoring and control with display of operational data, alarms, fuel consumption, and carbon emissions.
- Shore-based system management can be achieved via satellite communication transmission.



APPLICATION CASES

部分案例



恒力造船（大连）有限公司
61000DWT散货船
(配华益 分离机、供油单元)

Hengli Shipbuilding (Dalian) Co., Ltd.
61000DWT Bulk Carrier
(Equipped with Huayi separator,fuel supply unit)



浙江富华船舶进出口有限公司
50,000载重吨成品油/化学品船
(配华益 分离机、供油单元)

Zhejiang Fuhua Ship Import & Export Co., Ltd.
50,000DWT Product oil & Chemical Tanker
(Equipped with Huayi separator,fuel supply unit)



浙江天时船业有限公司
58000DWT散货船
(配华益 分离机、供油单元)

Zhejiang Tianshi Shipbuilding Co., Ltd.
58000DWT Bulk Carrier
(Equipped with Huayi separator,fuel supply unit)



广东亚庆海运有限公司
172.8m 甲板运输船（无限航区）
(配华益 分离机、供油单元)

Guangdong Yaqing Marine Co., Ltd.
172.8m Deck Carrier (Unlimited navigation area)
(Equipped with Huayi separator,fuel supply unit)



扬州龙和造船有限公司
86000DWT散货船
(配华益 分离机、供油单元)

Yangzhou Longhe Shipbuilding Co., Ltd.
86000DWT Bulk Carrier
(Equipped with Huayi separator,fuel supply unit)



台州枫叶造船有限公司
30000DWT油船
(配华益 分离机、供油单元)

Taizhou Maple Leaf Shipbuilding Co., Ltd.
30000DWT Tanker
(Equipped with Huayi separator,fuel supply unit)



江西华东船业有限公司
1759TEU集装箱船
(配华益 分离机、供油单元)

Jiangxi Huadong Shipbuilding Co., Ltd.
1759TEU Container Ship
(Equipped with Huayi separator,fuel supply unit)



青岛海西重机有限责任公司
75米水深海上自升式勘测试验平台
(配华益 分离机)

Qingdao Haixi Heavy Machinery Co., Ltd.
75m Depth Self-elevating Survey Platform
(Equipped with Huayi separator)