

Fast Oil Recovery System Protection Against Oil Spills

**快速回收油系统
是防护油泄漏的有效措施**



Fast Oil Recovery System is the world's first onboard solution for recovering pollutants from the ship's tanks

快速回收油系统，是世界上首个适用于因船舶油舱内油泄漏而引起的海洋污染的解决方案

In case of an incident at sea, the FOR System speeds up the operation process to recover oil from a ship by ensuring **permanent, easy accessibility to the ship's tanks** and pre-defining pollutant recovery procedures that are simple and safe.

在海上船舶事故中，快速回收油系统可以通过铺设的简易通道、预先准备的操作流程，来加速处理油舱里油的回收工作

The Risk of major oil spills are growing.

Most modern ships equipped with safety systems are not properly prepared to quickly and safely evacuate the pollutants contained in the tanks. Pollution is a constant threat for ship owners and managers.

重大油泄露的风险正在上升

目前大部分现有船只所装备的安全装置并不能妥善快速疏导出油舱里的油料，因漏油所带来的环境污染问题对船东和管理者来说是一种长期风险



FOR System in Action

快速回收油系统已经在船舶上使用

In case of accident, it is a challenge to identify how to access each tank, then deploy the adequate procedure to lighten the ship.

目前事故中，最大的挑战是怎么成功的到达每个油舱，制定合理的程序回收油。

Time is an aggravating factor: Oil viscosity, stress on the ship's structure, salvors' safety, leaking pollutants, financial and reputational damages, etc.

在救援过程中时间是个重要因素：关联到油的粘度、船体结构的强度，救生员的安全，泄露的程度，经济损失，公司声誉和形象等。

FOR System provides immediate action, speeding up the recovery plan and overall operations.

1. Recovery circuits are already installed.
2. Recovery connectors are clearly positioned and visible on the deck.
3. Data is readily-accessible regarding every tank, including the length from the connector to the tank, pump insertion facilities, and top or bottom tank access indication.

快速回收油系统可立即行动，加快回收计划和整体救援

1. 安装好的回收管系
2. 甲板上回收接头的位置已明确标示
3. 容易获得每个油舱的参数，包括从接头到油舱的长度，泵的潜入设施，油舱顶部或底部的通道标示

The FOR System is the ultimate technology for making your ship salvage-friendly.

快速回收油系统是当今船舶安全救援最先进的系统



Chemical Tanker/ Oil Tanker



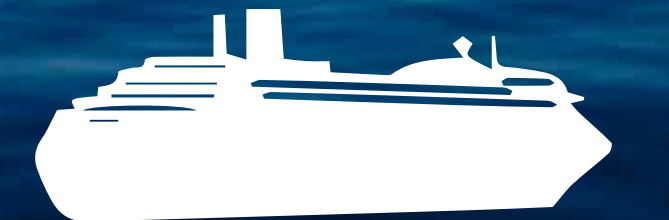
Container Ship



Bulk Carrier



Roro - Ropax



Cruise Passenger Vessel



风险= 事故频率 X 严重程度(生态安全)

Supported
by maritime
key players

快速回收油系统得到海事重要部门强有力的支持

JLMD Ecologic Group has signed an agreement with the Green Award of Rotterdam to provide a particular incentive scheme.

JLMD集团与鹿特丹绿色航运组织签订了一份协议，以提供特殊的激励机制

Approved by all major classification societies.

已经通过所有主要船级社认证





FOR System benefits

快速回收油系统优势

Certified technology that is easy for shipyards to install.

Low-cost investment.

No pumps, no valves, no maintenance for crewmembers.

No loss of cargo space.

No additional weight for ships.

Facilitates ships' cleaning & dismantling operations.

技术权威认证，安装简易

低成本投入

无需额外泵组、阀门，无需人员维护

不占用载货空间

不增加船只负重

方便船只清洁、拆装

FOR System, an innovative solution for new builds as well as retrofits of all kinds of ships : bulk carriers, chemical and crude oil tankers, container ships, cruise ships, and navy vessels.

快速回收油系统，不仅仅是在新造船上的一个重大技术革新，也适用于所有类型的改造船，包括散货船、化学品船、油船、集装箱船、游船以及军舰上



Raise your company's green profile

有助于提升贵司环保形象

1. Lead the way: support the development of safer and more sustainable navigation.
2. Target green excellence: integrate an upcoming safety standard now.
3. Muscle your green credentials.
4. Innovate: adopt the most cutting-edge technologies.
5. Enhance your eco-responsibility.
6. Reduce your corporate eco and civil liability exposure.

1. 引领方向: 更安全和更加稳定的航海发展
2. 环保目标: 即将成为环保安全规范
3. 有助于提升公司环保形象
4. 技术革新: 采用最前沿的技术
5. 增强生态环保责任和意识
6. 降低企业因污染可能引发负面影响

Raise your eco-safety level protection

提高贵司生态保护等级

The FOR System is a pro-active tool that helps mitigate the environmental consequences of an incident at sea. It is a unique asset that reduces ship-owner's liability.

快速回收油属于预安装的系统, 有助于减轻海上事故对海洋所带来的环境污染, 独特的优点是把船东的责任降到最低

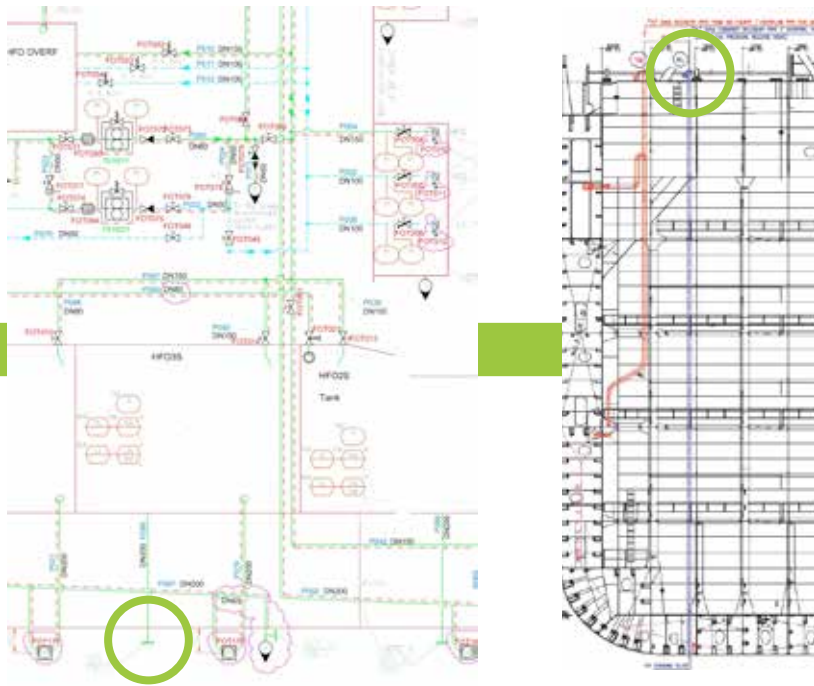
Zero risk doesn't exist
零风险是不存在的。

One environmental oil spill can seriously impact company results

一次溢油事故可给公司带来严重的负面影响。

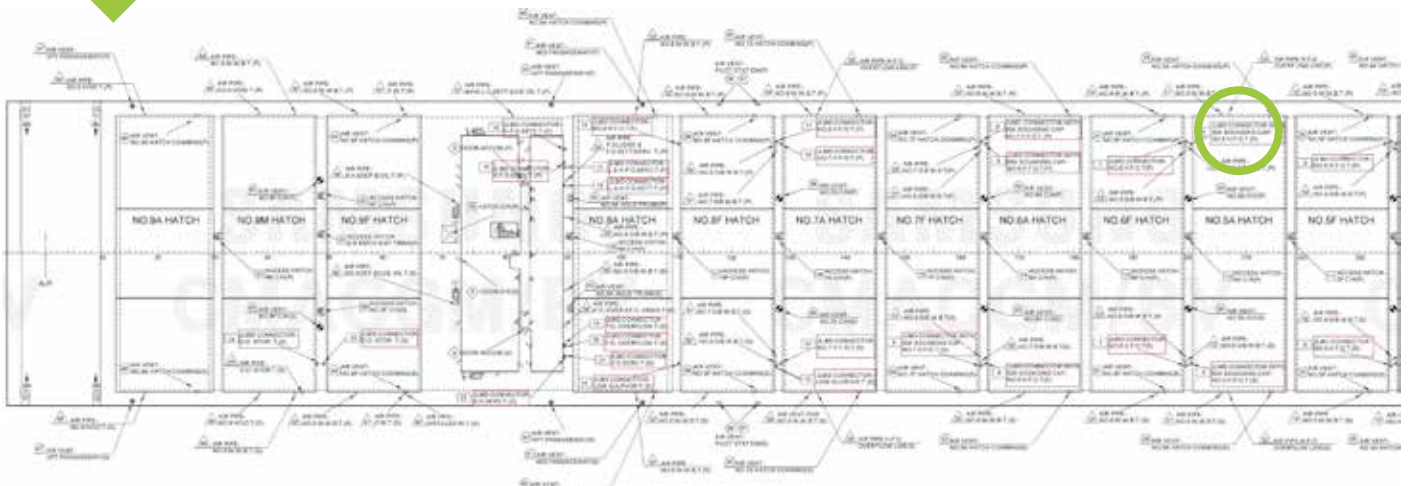


Damage Control Plan



JLMD LIST ()

NO.	SANGKAPAN	LOKASI		DECK	SCHEMATIC	Tipe
		FR-400 INCH	OFF-CELL INCH			
1	NO. 3 H.F.O.T. (P&S)	FR.307H-400	415.257	HYDAMING TOP	255A	JLMD CONNECTOR
2	NO. 3 H.F.O.T. (P&S)	FR.275-E-515	415.457	HYDAMING TOP	255A	JLMD CONNECTOR
3	NO. 4 H.F.O.T. (P&S)	FR.274-E-515	415.757	HYDAMING TOP	255A	JLMD CONNECTOR
4	NO. 4 H.F.O.T. (P&S)	FR.207-E-515	415.457	HYDAMING TOP	255A	JLMD CONNECTOR WITH SEA SOUNDING GAP
5	NO. 3 H.F.O.T. (P&S)	FR.225-E-515	415.757	HYDAMING TOP	255A	JLMD CONNECTOR
6	NO. 3 H.F.O.T. (P&S)	FR.207-E-515	415.457	HYDAMING TOP	255A	JLMD CONNECTOR WITH SEA SOUNDING GAP
7	NO. 4 H.F.O.T. (P&S)	FR.185-E-515	415.757	HYDAMING TOP	255A	JLMD CONNECTOR
8	NO. 4 H.F.O.T. (P&S)	FR.145-E-515	415.457	HYDAMING TOP	255A	JLMD CONNECTOR WITH SEA SOUNDING GAP
9	NO. 4 H.F.O.T. (P&S)	FR.145-E-515	415.757	HYDAMING TOP	255A	JLMD CONNECTOR WITH SEA SOUNDING GAP
10	NO. 7 H.F.O.T. (P&S)	FR.129-E-515	415.457	HYDAMING TOP	255A	JLMD CONNECTOR
11	NO. 4 H.F.O.T. (P&S)	FR.127H-E-515	415.757	HYDAMING TOP	255A	JLMD CONNECTOR
12	LOW SULPHUR T. (S)	FR.127H-E-515	-15.757	HYDAMING TOP	255A	JLMD CONNECTOR
13	NO. 4 H.F.O.T. (P&S)	FR.111-E-515	415.457	HYDAMING TOP	255A	JLMD CONNECTOR
14	LOW SULPHUR T. (S)	FR.111-E-515	-15.757	HYDAMING TOP	255A	JLMD CONNECTOR
15	H.F.O. SERV. T. (S)	FR.85H-140	14.757	UPPER	155A	JLMD CONNECTOR
16	H.F.O. SERV. T. (S)	FR.85H-140	12.822	UPPER	155A	JLMD CONNECTOR
17	L.S. H.F.O. SERV. T. (S)	FR.85H-140	12.117	UPPER	155A	JLMD CONNECTOR
18	L.S. H.F.O. SERV. T. (S)	FR.85H-140	9.600	UPPER	155A	JLMD CONNECTOR
19	F.O. OVERFLOW T. (S)	FR.85H-140	-15.000	UPPER	155A	JLMD CONNECTOR
20	F.O. OVERFLOW T. (S)	FR.85H-140	-15.000	UPPER	155A	JLMD CONNECTOR
21	D.O. SERV. T. (S)	FR.85H-140	-14.800	UPPER	155A	JLMD CONNECTOR
22	D.O. SERV. T. (S)	FR.85H-140	-14.600	UPPER	155A	JLMD CONNECTOR
23	D.O. STOK. T. (S)	FR.40-E-130	-15.000	HYDAMING TOP	155A	JLMD CONNECTOR
24	D.O. STOK. T. (S)	FR.40-E-130	-15.000	HYDAMING TOP	155A	JLMD CONNECTOR



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