

技术规格书  
SPECIFICATION

7.5M 全封闭耐火型救生/救助艇  
7.5M TOTALLY ENCLOSED LIFEBOAT/RESCUE BOAT  
(FIRE-PROTECTED)

宁波新海业救生设备有限公司  
NINGBO NEW MARINE LIFESAVING EQUIPMENT CO., LTD.

## 1、范围 Confine

- 1.1 本技术规格书规定了 7.5M 全封闭耐火型救生/救助艇的使用范围、基本性能、建造和试验要求；  
This specification prescribe require for useful confines \ fundamental characteristics building and testing of 7.5m fire-protected lifeboat.
- 1.2 本规格书作为订货合同的附件，是设计和制造的指导性文件，并作为交货的技术依据。  
This specification to be used attachment for contract. It's also the devise and produce document. And to by way of the delivery technical base.

## 2、主要编写依据 The main rest on for compilation

- 2.1 1974 年国际海上人命安全公约 1996 年修正案； Amendments to the international convention for the safety of safety of life at sea,1974;
- 2.2 MSC.48(66) 国际救生设备 (LSA 规则) 及其修正案 MSC.218(82) 及 MSC.272(85) 及 MSC.320(89)； MSC.48(66) International life-saving appliance(LSA) code amended MSC.218(82) & MSC.272(85) & MSC.320(89)；
- 2.3 海安会决议 MSC.81(70) 及其修正案 MSC.226(82) 及 MSC.274(85) 及 MSC.321(89); The resolution for maritime safety committee MSC.81(70) & MSC.226(82) & MSC.274(85) & MSC.321(89);
- 2.4 玻璃钢原材料国家标准 Nation calibrate for F.R.P. material;
- 2.5 其它相关部件国家标准 Nation calibrate for the other parts.

## 3、功能和使用范围 Function and useful confines

- 3.1 功能：用于逃离失事母船、搜索、救助落水人员，集合救生筏； By mean of get away from ship and recovery for persons in water and collect life raft
- 3.2 使用范围 Useful confines: ≤3 级海况； Max. three class sea state;

## 4、特性 Peculiarity

### 4.1 主要技术参数 Main technical data

玻璃钢艇体长度 F.R.P length:	7.50m
玻璃钢艇体宽度 F.R.P breath:	2.78m
玻璃钢艇体型深 F.R.P depth:	1.15m
总高 total height:	3.24m
额定成员 capacity:	60P
空载重量 empty boat weight:	3076kg
满载总重 total weight:	8026kg
存放温度 loading temperature:	-30~65℃
工作温度（海水） working temperature(sea water):	-1~30℃
航速（满载） speed (full load):	≥6 knots
艇体表面颜色 outside colour:	国际橙色 international orange

### 4.2 推进装置 propulsion device

柴油机型号 Engine type:	380J-3
主机功率 Engine power:	20.6kW
主机转速(全负荷)rpm (full load):	2800rpm
冷却方式 cooling method:	强制水冷 water cooling
启动方式 starting method:	2 组电启动 two battery start

操舵方式 steering method:	方向器操舵 steering wheel
缸数 number of cylinder:	3
齿轮箱型号 gear box type:	SCG025-3
齿轮顺/倒车箱减速比 decelerate ratio:	2.74: 1/2.67:1
螺旋桨 propeller:	400x420
燃油 fuel oil:	0#或-35# (GB252-87)
油箱容量 capacity of fuel tank:	190L
滑油牌号 type of lube:	5W30

#### 4.3 吊钩 Hook

吊钩形式 hook type:	双点吊 two point
吊钩间距 hook distance:	7.0m
吊钩工作负荷 hook S.W.L:	50KN

#### 4.4 主要部件材料

艇体、内壳、操纵台、顶棚 hull, inner, control panel & canopy:	F.R.P (阻燃型)
空气箱 air compartment:	聚氨酯发泡 polyurethane foam
护舷 fender:	橡胶 rubber
扶手 handrail:	不锈钢 stainless steel
燃油箱 fuel tank:	镀锌件 galvanization
吊钩 hook:	不锈钢 stainless steel
紧固件 fastener:	不锈钢 stainless steel
舾装件 fittings:	不锈钢 stainless steel
机座 engine base:	镀锌件 galvanization
铭牌 nameplate:	不锈钢 stainless steel

#### 4.5 性能

- 满足国际海上人命安全公约及其 96 修正案, 国际救生设备(LSA)规则 MSC48(66)、海安会决议 MSC.81(70)的要求;  
Comply with the requirements and rules of SOLAS, and amendment 1996, MSC.48(66) MSC, 81(70).
- 受风浪翻覆时能够自行浮正;  
It can self-rightening by itself;
- 吊钩装置为带负荷脱钩装置。吊钩设有保险装置, 吊钩复位后, 应销上保险, 此时吊钩不能被脱开;  
Hook device is the with the load release. The hook has the insurance device. It must lock the insurance after the hook reposition. And at the same time the hook can be came away.
- 当艇释放至水面时, 脱开吊钩, 启动发动机, 然后脱开艀缆;  
When the boat is lowed to the surface to release the hook and start the engine and then to take off the painter;
- 备有两个可浮式划桨, 当机器不能启动时, 可以划桨前进;  
Stock two buoyant oars. When the engine can't be used the oars can be used;
- 根据 SOLAS 要求配备属具, 细小的属具存放在水密属具箱内, 桨系牢在救生艇内, 罗径、探照灯等属具固定在支架上;

Bases the SOLAS require to equip the equipment. The petty equipments will be fitted in the waterproof equipment box. The oars will be attached in the rescue boat. And the compass and searchlight etc. will be fixture on the brace.

- 乘员座位上装有 4 点式安全带;  
All seats are fitted with four point safe belt
- 救生艇两侧装有可浮救生索;  
It is installed the buoyant lifeline at the two side of rescue boat
- 供人员行走的表面均为防滑面;  
The tread surface is the antiskid;
- 装有手摇泵, 用于排除艇内积水;  
Equip a manual pump. It used to work off the seeper in the boat
- 满载全速航行时间不小于 24 小时;  
When the boat is full loaded the full-speed running time is not less than 24 hours;
- 救生艇能够以不小于 2Knots 的航速拖带一只满载的 25 人救生筏;  
It is at least 2 knots when towing a 25-person liferaft loaded with its full complement of person and equipment or its equivalent;
- 耐火型救生艇装有洒水系统, 它是由主机水泵带动从艇最低处抽取海水并确保没有易燃液体进入体系。洒水系统提供足够的水喷洒艇的表面;  
A water spray system is installed for fire protection. The spray system consists of an engine driven pump, which takes seawater from the lowest possible location under the boat ensuring that no flammable liquid is drawn into the system. The spray system provides water over the entire surface of the craft;
- 登乘位于救生艇尾部, 登乘门上装有通风菌, 在 0-180 度倾斜情况下, 通风菌将保持在水位之上, 当主机开动时, 通风菌同样可以防止低压给船舱带来的危险。  
Door was fitted at lifeboat stern, Natural ventilation is achieved via an automatic valve located on the front of superstructure. The valve will be above water in all heeling conditions (0-180 degrees).The valve also prevents the cabin from becoming dangerously under-pressured while the engine is running;
- 耐火型救生艇装有供气系统, 供气系统有足够的空气来满足全体乘员和柴油机全速运转最少 10 分钟, 能在艇内形成一个超压状态以阻止毒气或其它有害气体进入。  
The compressed air system installed has a sufficient capacity to provide air for the maximum number of personnel and engine combustion for a minimum of 10 minutes. Toxic fumes or gas prevention have been made to recharge the air system from the ship's compressed air system.

## 5、电气 Electrical system

5.1 随艇提供 2 个供照明和启动机器的可充电免维护的 90AH 蓄电池;

Provide 2 sets 90AH type accumulator for illume and start the engine. It is Maintenance free type and can charge

5.2 充电变压器由艇架提供, 安装在艇架电控箱内;

The charge transformer is provided by davit. It is installed in the electrical control box for davit.

5.3 随艇提供充电线缆, 长度不小于 15M, 插头和插座为水密型。

Provide the charge cable. The length is not less than 15m. The plug and socket is waterproof.

## **6、制造质量 produce quality**

救生艇质量符合图纸和技术文件的要求。

The quality for working boat coincidence drawings and technical document require.

## **7、质保期 Guarantee period**

交货之后 12 个月。12 months after the delivery.