

# HLB

YOUR PARTNER IN SAFETY AND  
LEISURE SINCE 1975



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## CEO MESSAGE

**A dream dreamt by one is only a dream,  
but a dream dreamt by many comes true.**

Having dreamt our company to be the world first-class, our officers and employees now believe that the dream, based on their young passion and long history of the company, will brightly come true soon. We, HLB Co., Ltd, have grown up to be the sole global company in Korea in lifeboat business through incessant development of technology since its establishment in 1975. In addition to the lifeboat business, our company also has accumulated experiences in producing a lot of special boats and yachts for past 38 years.

Now, gathering the dream, experiences and passion, all of our officers and employees intend to proceed to a bigger and broader world. We are sure that our shareholders, customers and many other people interested in our company will see our company grow. You will be able to find our lifeboats loaded on big ships made in Korea proudly going around all five great oceans and to also notice our emblem on yacht sails peacefully flapping above waves somewhere in the Pacific.

A lifeboat business taking responsibility for human life and a yacht business taking responsibility for wealthy living of human being! You are cordially requested to render warm encouragement and love to our officers and employees who move forward the world-best bearing pride of made-in-Korea in their mind.  
Thank you for your kind attention.

HLB Co., Ltd.



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## INTRODUCTION

As one of the world leading manufacturers of life-saving equipment, HLB Co., Ltd, are the only manufacturer and supplier of lifeboats in Korea and are very much proud of achievements accumulated for past 38 years. We have the experience and expertise it takes to guarantee maximum quality in all phases of design, engineering and production.

Acknowledging the importance of meeting customers' requirements and satisfaction to the maximum extent, we are making our best efforts to get improvement of safety, quality and service as well as to maintain competitive prices.

In addition, our global service network provides maintenance, spare parts, repairs, refurbishments and training.

All our products meet and exceed SOLAS, LSA Code and all required government standards. Often they lead those standards, and we work closely with governments to bring improvements to safety into regulation, so that all mariners benefit, not just those employed by our clients. We plan to go into maritime leisure industry to cater the demand of world market. Please be assured that we will do our utmost to overcome our limitations and to satisfy customer's needs.





## HISTORY

- Mar. 1975 Established "Kyungil Ind. Ltd.", a subsidiary of Hyundai Group and commenced to produce GRP sailing yachts and open-type lifeboats.
- Jul. 1982 Commenced production of fishing boats and patrol boats
- Feb. 1983 Commenced to produce GRP totally enclosed lifeboats under the technical license of Mulder & Rijke B. V. in the Netherlands.
- Jul. 1999 Commenced to produce GRP free fall lifeboats
- Nov. 2000 Established "Hyundai Lifeboats Co., Ltd" to specialize in production of lifeboats and succeeded to Hyundai Precision.
- Jul. 2001 Moved to Onsan National Industrial Complex
- Sep. 2001 Obtained LR certificate for manufacturing process
- Dec. 2001 Obtained LRQA ISO 9001:2000 certificates
- Feb. 2002 Obtained KR certificate for manufacturing process
- Mar. 2002 Obtained MED certificate for Module "D"
- May 2005 Developed lifeboat engine approved by LR MED
- Sep. 2005 Obtained KSA ISO 14001 certificates
- May 2008 Established "Hyundai Yachts Co., Ltd"
- Aug. 2008 Established "Bada Heavy Industry"
- Mar. 2009 Built the 2nd factory
- Jun. 2009 Established "HLB Networks Co., Ltd"
- Mar. 2012 Launched 70 persons conventional type lifeboat
- Jan. 2013 Merged "HLB Co., Ltd, as listed company on the stock market

## PRODUCTION FACILITY

### FACTORY AND PRODUCTION FACILITIES

- GRP laminating shop | 1,600 m³
- GRE shop | 1,610 m³
- Construction shop | 2,569 m³
- Development shop | 532 m³
- Others | 5,619 m³

**Our lifeboats and rescue boats are designed and certified in accordance with**

- SOLAS LSA Code
- IMO Res. MSC 272 (85)
- Res.MSC.317 (89), Res.MSC.320 (89), MSC.1/Circ.1392, MSC.1/Circ.1393
- Class & National Regulation to be applied
- Gulf of Mexico
- USCG REQUIREMENTS
- NR-30 (Brazilian Authority)

**Approved by following world famous administrative institutions and classification societies**

- CE (MED), AMSA KG and etc
- ABS, BV, GL, LR, NK, RS and etc



# MAJOR CLIENTS

## OUR CLIENTS

The products of HLB are the first choice of domestic famous companies. The company makes worldwide service system perfection and provides more safe, reliable and economic relevant service to customers.

## FOLLOWINGS ARE OUR MAJOR CLIENTS

- All the Korean shipbuilding companies including Hyundai, Daewoo and Samsung etc.
- Mitsubishi Heavy Industries Co., Ltd. in Japan
- Maersk Sealand in Denmark
- Worldwide governmental and public offices
- Other private companies



# CERTIFICATES

## UPGRADE YOUR VALUE

We promise that you got valuable satisfaction and highest value by our accumulated know-how and project experiences.





# GRP GRAVITY LIFEBOAT & DAVIT

- GRP gravity lifeboats launched by wire falls are most commonly used for evacuation purpose in all kinds of ships.
- Lifeboats are suitable for use on board the oceangoing vessels under worse sea condition.
- The tanker versions have good fire protection performance.
- Davits are installed on both side of ship and is the lifesaving and salvaging equipment installed universally in various ships. Launching and pulling up lifeboat, and rescues ship safely from the water through the fall and winch.



## FEATURES

- Certified according to the latest regulations of all major authorities
- High-quality according to ISO 9001:2000 regulations and Maritime Equipment Directive (MED)
- Totally enclosed with GRP
- Fire-protected
- Fully equipped with air-support system
- Provided with davit and winches
- Capacity for 3 to 100 persons

### OFFSHORE LIFEBOAT SPECIFICATION

SPECIFICATION			WEIGHT (kg)	FULL WEIGHT(kg)	RELEASE MECHANISM
MODEL	L X B X D (m)	CAPACITY (PERSONS)			
HLB105T	10.5x2.85x1.226	SOLAS-84P	5,579.0	12,509.0	TALON 9.0
		GOM-70P	5,529.0	12,529.0	
HLB105F	10.5x2.85x1.226	SOLAS-84P	6,000.0	12,930.0	TALON 9.0
		GOM-70P	5,950.0	12,950.0	
HLB102T	10.213x3.260x1.355	100	5,865.0	14,115.0	TALON 9.0
HLB102F	10.213x3.260x1.355	100	6,250.0	14,500.0	TALON 9.0

### LIFEBOAT SPECIFICATION

SPECIFICATION			WEIGHT (kg)	FULL WEIGHT(kg)	RELEASE MECHANISM
MODEL	L X B X D (m)	CAPACITY (PERSONS)			
HDL 65CT	6.5x2.4x1.05	25	2,062.5	4,477.5	TALON 4.0 II
HDL 65CF	6.5x2.4x1.05	25	2,062.5	4,868.5	TALON 4.0 II
HDL71CTA	7.1x2.4x1.125	32	2,640.0	5,270.0	TALON 4.0 II
HDL71CTR	7.10x2.40x1.13	32	2,640.0	5,262.0	TALON 4.0 II
HDL71CFA	7.1x2.4x1.125	32	2,640.0	5,519.0	TALON 4.0 II
HDL71CFR	7.10x2.40x1.13	32	2,640.0	5,542.0	TALON 4.0 II
HDL75CT	7.5x2.8x1.25	40	3,300.0	6,279.0	TALON 4.0 II
HDL75CTR	7.5x2.8x1.25	41	3,382.5	6,679.5	TALON 4.0 II
HDL75CF	7.5x2.8x1.25	40	3,300.0	6,899.0	TALON 4.0 II
HDL75CFR	7.5x2.8x1.25	41	3,382.5	6,979.5	TALON 4.0 II
HDL85CT	8.5x3.0x1.35	47	3,877.5	7,271.5	TALON 6.0 II
HDL85CF	8.5x3.0x1.35	47	3,877.5	7,731.5	TALON 6.0 II
HDL85CNT	8.5x3x1.35	61	4,950.0	9,375.0	TALON 6.0 II
HDL85CNF	8.5x3x1.35	61	4,950.0	8,975.0	TALON 6.0 II
HD60T	7.5x2.850x1.226	54	4,455.0	7,971.0	TALON 6.0 II



### DAVIT SPECIFICATION

MODEL	CAPACITY (PERSONS)	M. W. L.(kg)	REMARKS
BDM70S	Max. 25P	7,000	1. Gravity lowering 2. Stepless type 3. SOLAS as amended 4. Elec. Winch driven 5. Type Approved by M.E.D.
BDM130S	Max. 35P	13,000	
BDM170S	Max. 80P	17,000	
BDH58S	Max. 32	5,800	
BDH70S	Max. 40	7,000	
BDH90S	Max. 54	9,000	1. Gravity lowering 2. SOLAS as amended 3. Elec. Winch driven 4. Type Approved by M.E.D.
BDH125S	Max. 90	12,500	
BDH200S	Max. 150	20,000	



# GRP FREE-FALL LIFEBOAT & DAVIT

Free-fall system is for fast and safe escape from a vessel.

Our design uses deck space to the minimum and makes it possible for lifeboat to launch even from 25.7 meters height.

Free fall lifeboat davit is designed to ensure fast and safe rescue of human life.

It is the most excellent launching equipment with high reliability and stability from mechanical and structural perspective.



## FEATURES

- Hydraulic davit and winch for easy operation during restoration
- Capacity for 35 persons
- Restoration of lifeboat after freefall
- Types of lifeboats as approved by all the major authorities according to regulations of SOLAS and MED



- Easy control of steering, engine start/stop, air support and all electronic devices
- Sufficient seating space with 2 separate safety belts and easy lock buckle
- Hydraulic release mechanism
- Release lever for spray system
- Sliding rail for safe launching



## LIFEBOAT SPECIFICATION

MODEL	SPECIFICATION		WEIGHT (kg)	FULL WEIGHT(kg)	DROP HEIGHT(m)
	L X B X D (m)	CAPACITY (PERSONS)			
HDFN35T	7.95x3.07x3.190m	35	4,814	7,702	25.7
HDFN35F	7.95x3.07x3.190m	35	5,114	8,002	25.7
HDFN25T	7.95x3.07x3.190m	25	4,514	6,576	25.7
HDFN25F	7.95x3.07x3.190m	25	4,814	6,876	25.7

## DAVIT SPECIFICATION

MODEL	CAPACITY (PERSONS)	S. W. L.(kg)	REMARKS
BDF28S	Max. 25P	6,624	1. Free fall launching 2. SOLAS Rule as amended 3. Hyd. Winch operation 4. Type Approved by M.E.D.
BDF35S	Max. 35P	8,001.5	
BDF90S	Max. 43P	9,748	
BDF120S	Max. 60P	15,750	
BDF150S	Max. 80P	21,600	



# GRP RIGID RESCUE BOAT & DAVIT

We have the greatest market share in rescue boat, offshore facilities, coast guard service, patrol and other rescue services.

The handrails are arranged for each side of the rescue boat for passenger.

We offers a brand new range of rescue boat systems for offshore applications, merchant & passenger vessels.



## FEATURES

- Fully complying with SOLAS and MED regulations
- Customized davit and multi-purpose crane
- Capacity for 1 to 15 persons
- Supplied with diesel outboard motor propulsion system

### FAST RESCUE BOAT SPECIFICATION

MODEL	L X B X D (m)	CAPACITY (PERSONS)	SPEED (KNOTS)	FULL WEIGHT(kg)
HDFR600	6.0x2.3x1.03	SOLAS-6 GOM-6	28	2,195 (solas) 2,300(gom)
HDFR680	6.8x2.5x2.353	15	30	2,965

### RESCUE BOAT SPECIFICATION

MODEL	L X B X D (m)	CAPACITY (PERSONS)	SPEED (KNOTS)	FULL WEIGHT(kg)
HDR420	4.2x1.75x1.0	6	6	1,065
HDR475	4.75x2.0x0.82	6	6	1,545
HDR570	5.7x2.03x1.03	SOLAS-6 GOM-6	7	SOLAS-1,795 GOM-1,900

### DAVIT SPECIFICATION

MODEL	MAX. WORKING LOAD		REMARKS
	RESCUE BOAT (kg)	LIFE RAFT	
BHI-RLD25	1,100	2,150	Hyd. Slewing single arm type
BDR25S	1,100	2,350	
BDR35S	1,100	3,300	
MODEL	HOISTING	LOWERING SPEED	MAX. WORKING LOAD
BDP065	Min. 18m/min	Min. S=0.4+0.02(H)	1200 Kg





# HGP® GRE/GRP PIPING SYSTEM

HGP® GRE/GRP pipes and fittings are made of FiberGlass and high property Polyester Resin / Epoxy Resin. These materials provide the high physical properties. HGP® GRP pipes are manufactured according to International standards. The wide range of fittings provided by HGP® ensures that pipe design according to AWWA MANUAL M45 / C950. (HGP : Hyundai Glass fiber reinforced Pipe)



## GRE / GRP PIPE ADVANTAGES

### GRE / GRP PIPE OF APPLICATION

- Ballast Lines
- Firewater systems
- Salt water supply lines
- Cooling water
- Waste lines
- Process lines
- Cargo Lines
- Bilge Piping
- Sprinkler systems
- Fresh water lines
- Sanitary lines
- Scuppers
- Vent lines
- Chemical processes
- Desalination
- Down-hole tubing and casing
- Ducting and vent pipe
- Geothermay
- Industrial Effluents
- Irrigation
- Oil fields
- Potable water
- Power plant cooling and raw water
- Sanitary sweres
- Slurry piping
- Storm sewers
- Water distribution
- Water transmission

### • LOW MAINTENANCE COST

HGP® GRE / GRP PIPE is easy to maintain because it dose not rust, is easily cleaned, and requires minimal protection from the natural environment.

### • DIMENSIONAL STABILITY

HGP® GRE / GRP PIPE can maintain the critical tolerances required of the most demanding structural and piping applications. The material meets the most stringent material stiffness, dimensional tolerance, weight, and cost criteria.

### • CORROSION RESISTANCE

HGP® GRE / GRP PIPE is resistant to corrosion, both inside and out, in a wide range of fluid-handling applications. As a result, additional linings and exterior coatings are not required.

### • STRENGTH-TO-WEIGHT RATIO

HGP® GRE / GRP PIPE has excellent strength-to-weight properties. The strength -to-weight ratio of it is stronger than that of carbon, and stainless steels.

### • ELECTRICAL PROPERTIES

HGP® GRE / GRP PIPE manufacturers offer conductive fiberglass piping systems for applications that require dissipation of static electricity buildup when transporting certain fluids, such as fuel.

### • LIGHTWEIGHT

HGP® GRE / GRP PIPE is lightweight. it is approximately one-sixth the weight of similar steel products and one-tenth the weight of similar concrete products.





## GRE / GRP PRODUCTION PROCESSES

### CERTIFICATES



### HGP GRE / GRP PIPE SPEC

### ENGINEERING / CONSTRUCTION SUPPORT



### HYUNDAI GLASS FIBER REINFORCED PIPE

The concept of high-speed, precise laydown of continuous reinforcement in pre-scribed patterns is the basis of filament winding method. It is a process by which continuous resin-impregnated reinforcements in the form of rovings or tows are wound over a rotating male mandrel. The mandrel can be cylindrical, spherical, or any other shape as long as it does not have re-entrant curvature.

Large or thick walled structures, particularly structures of revolution such as cylinders or pressure vessels are most easily wound. The reinforcement may be wrapped in adjacent bands or in repeating bands that are stepped the width of the band to eventually cover the mandrel surface. The technique can vary winding tension, wind angle, or resin content in each layer or reinforcement until the desired thickness and resin content of composite is achieved with the required orientation. Multiple composite components can be fabricated simultaneously in the same equipment with accurate fiber angles and good resins.

	GRE	GRP
Design	0 ~ 64 Bar / Under Ø200 – 180 Bar	0 ~ 20 Bar
Pipe Size	Ø15 ~ Ø1000	Ø15 ~ Ø3000
Pipe Type	Conductive / Non Conductive Type	Non Conductive Type
Fittings	Elbow, Tee, Flange, Reducer, Saddle, Expansion Coupling, Socket	Elbow, Tee, Flange, Reducer, Saddle
Installation Method	Spigot/Taper Joint, Flange Joint, Coupling Joint, Threaded Joint	Butt & Wrap Joint, Flange Joint
Max. Temperature	110°C	60°C
Fire Endurance Level	Level 3.	

### ENGINEERING SUPPORT

- 3D Design by CATIA
- Drawing analysis & Submit Spool Drawing
- Stress Analysis / FEM Analysis (Option)
- Installation & Repair Procedure
- Quick reply for Owner Comments

### CONSTRUCTION SUPPORT

- Dispatch Supervisors
- Installation Training
- Quick A/S & Quick reply for Owner Claim.





## GLOBAL NETWORK SERVICE

### HLB NETWORKS CO., LTD.

Contact point  
772, Daejeong-ri, Osan-eup, Ulju-gun, Ulsan, Korea

#### FULLY COMPLYING WITH NEW IMO-MSC/CIR. 1093

As you know, the new IMO regulation [MSC Circ.1206, R152 (78)] came into force since July 1st,2006. It stipulates that only service personnel who are trained and authorized can carry out lifeboats maintenance, repair and inspection. Having believed that lifeboats to save human lives ironically used to cause various accidents due to service by uncertified engineers, IMO arranged new regulations mentioned above in order to prevent marine accidents arising from improper inspection or repair.

During past 3 years we have made every effort to minimize customer's inconvenience caused by the regulations and to offer best service with respect to inspection and repair. As the result, we have built up service network of 94 stations in 40 countries, with more than 250 service engineers trained and certified over the world as of January 2010.

For the purpose of specialization of lifeboat business, we took over BADA Heavy Industries (former Dae Ryuck) as one of our subsidiary companies in 2008 and incorporated BADA's training and certification system into ours, and we provide following services through our own qualified engineers to suffice customers' satisfaction.

#### TRAINING COURSE

HLB Networks Co., Ltd. offers a complete training & authorization program on our brands as follows according to new IMO-MSC/Circ.1093. Training at the HLB Networks Training Center for operation and maintenance of system. Authorization programs for any kind of purpose. HLB Networks service engineer and nominated service partners.

#### SERVICE

Worldwide service from your nearest HLB Service Facilities. SOLAS mandatory service for 1~5 years by your Original Equipment Manufacturer [OEM].

#### SALES

HLB Networks is the leading provider for marine engine and lifeboat genuine spare parts according to SOLAS regulations and manufacturer's specifications.

### HYUNDAI Lifeboats Singapore Pte. Ltd.

Under SOLAS regulation for operational readiness, each lifesaving appliance must be in good working order and ready for immediate use at all times when the unit is in operation.

#### Our company provides following services to help achievement above

- Fiberglass hull repair to the Class requirements.
- Repair, renewal or overhauling of lifting hooks and quick release systems.
- Servicing of hydrostatic release units.
- Water spray system – Overhauling, servicing and testing.
- Maintenance of davit fails.
- Sales of new and/or second-hand lifeboats

