

QINGDAO BEIHAI LIFBOAT WITH DAVIT

BY MA HENG/CSTC

DATE: DECEMBER 2010



青島北海船舶重工有限公司游艇分厂

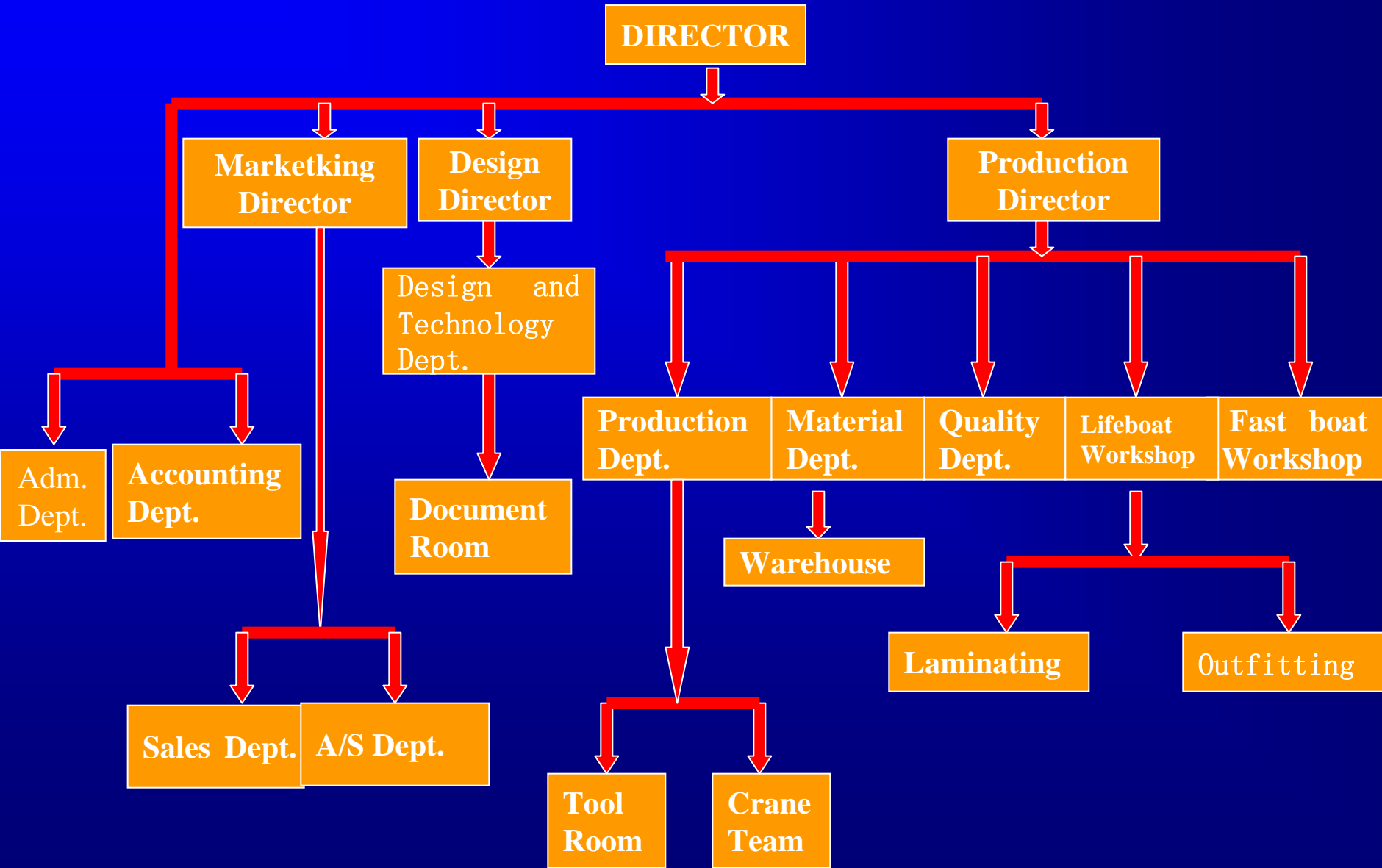


2012.5

Brief Introduction of the Factory

- LOCATION : QINGDAO CITY, CHINA
SHIPBUILDING PARK
- ESTABLISH: 1983
- AREAS : 68,113 SQUARE METERS
- EMPLOYEE: 230P (36% Technician & Management)
- CAPACITY : 600~800SETS WITH DAVIT
EACH YEAR

ORGANIZATION





Laminating Workshop

Laminating workshop is used for the laminating and repairing. It is divided into laminating room, mold room and glue room. The whole area is 2664 m², and the laminating room(567 m²) as air-conditioning and humidity control system, and also exhaust gas processing system.



Exhaust Gas Processing System

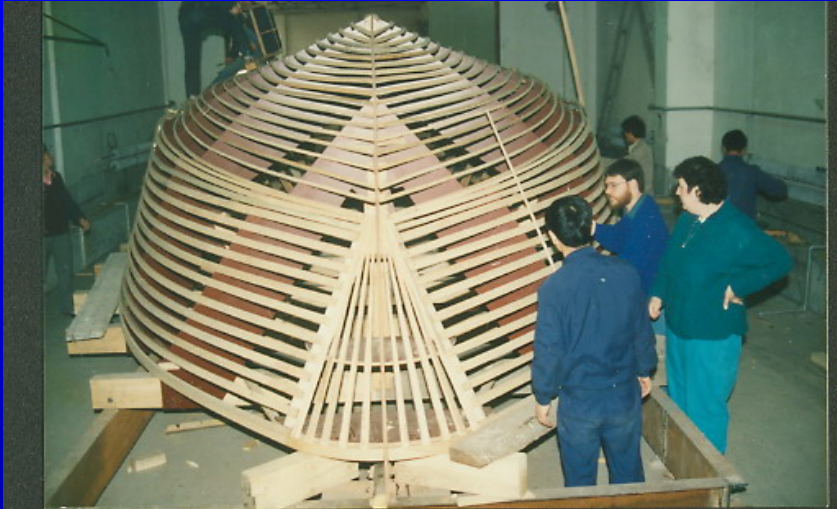


Outfitting Workshop 1

The 80m-long outfitting workshop has four length ways blocks with whole area of 6944m². The pre-outfitting block is 21m wide with one 3-ton single-girder crane. Another two outfitting blocks are individually 18m and 21m wide with 5-ton double-girder crane and 10-ton double-girder crane for each.



Outfitting Workshop 2



- The width of mold room is 21m with one 5-ton double-girder crane and complete set of carpenter machines.



Fast Boat Workshop

- This workshop is divided into Manufacturing Block and Development Area. This workshop is especially built for manufacturing fast Aluminum boat. The manufacturing and outfitting of Aluminum can all be finished in this workshop.
- The total length of Fast Boat Workshop is 90m. The width of the main manufacturing block is 30m, and it is equipped with a 16 Ton /3.2 Ton bridge crane. The development area is 18m wide with a 5-ton crane.



Test Facility

- The test tower at the test area can launch the freefall lifeboat from 36m height. The freefall appliance on the test tower and the 60m-long, 10m-deep test pool are applicable for all kinds of lifeboat type approval test and shop test.



Introduction of Main Products

Conventional Type Lifeboat/Davit

Boat Type	PERSONS	Gravity Pivot Davit Type
➤ BH-5SA	25	➤ BD-PV60S
➤ BH-6A	30	➤ BD-PV60
➤ BH-7B	34	➤ BD-PV85
➤ BH-7A	40	➤ BD-PV125
➤ BH-8	50	➤ BD-AR125
➤ BH-9	65	➤ BD-AR160S
➤ BH-9XL	73	Platform Davit Type
➤ BH-10AD	83	➤ BD-PL75
➤ BH-10XLAD	96	➤ BD-PL125
➤ BH-11	125	➤ BD-PL160
		➤ BD-PL230



BH-6A TYPE LIFEBOAT SEA TRIAL



BH-5SA



BH-6A



BH-7B



BH-8



BH-7A



BH-10XLAD

Freefall Lifeboat with Davit

Freefall Lifeboat Type		Davit for Freefall Lifeboat
➤ BH-F750	32P	➤ BD-FF80B
➤ BH-F660	26P	➤ BD-FF66

Designed and Built in accordance with the latest LSA CODE and with Leading Particulars :

- tank arrangement for easy maintenance
- new type ramp
- seat head protection
- etc



BH-F750

Rescue Boats/High Speed RB

Rescue Boat Type

- BH-R4
- BH-4A
- BH-R5DWJ

High Speed Rescue Boat

- BH-HR6 6P
- BH-HR6F 6P
- BH-HR7 12P
- DOLPHIN 27P

Davit Type

- BD-SA14A
- BD-SA21A
- BD-SA33

- RBD955
- RBD966
- BRD966XL
- BD-FA36



OTHER TYPE OF BOATS

WORKING BOATS

- Aluminum Fast Boat
- Carbonfibre Fast Boat
- 50P GRP Boat for Government
- GRP Patrol Boat for Customs(speed \geq 48knots)



Alum. Fast Boat



50P GRP Boat



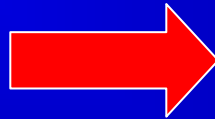
GRP Patrol Boat



Carbonfibre Fast Boat

MAIN TESTS

Fire Test



Freefall Test



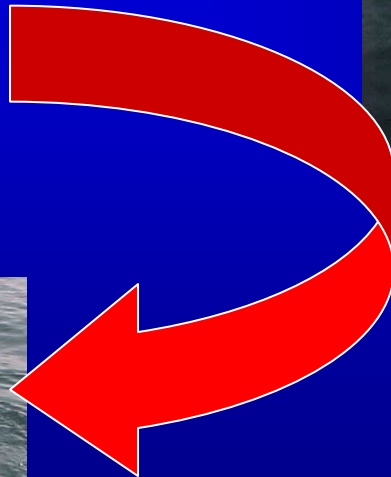
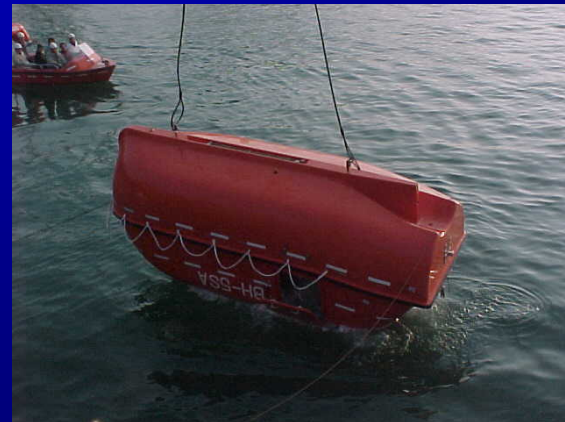
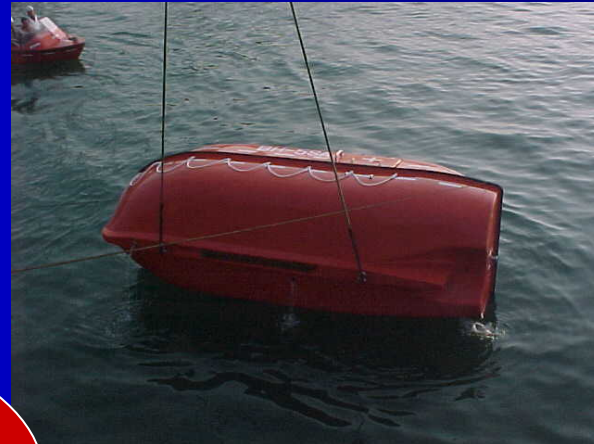
Impact Test



Drop Test



Self-righting Test



HIGH QUALITY ASSURANCE

Quality Management SYS

- **ISO9001 QMS since 1996**
- **ISO9001: 2008 QMS in 2010**
- **ISO9002(Version 2000) & GJB9001A-2001(National Military Standard) in 2002**
- **Strict Quality Inspection Procedure**



中国船级社质量认证公司
CHINA CLASSIFICATION SOCIETY CERTIFICATION COMPANY

质量管理体系认证证书

QUALITY MANAGEMENT SYSTEM CERTIFICATE

编号: No. 00510Q21047R0M

兹证明

青岛北海船舶重工有限责任公司游艇厂
(地址: 山东省青岛市经济技术开发区漓江东路 369 号 邮编: 266520)

This is to certify that the Quality Management System (QMS) of

**BOATBUILDING YARD, QINGDAO BEIHAI
SHIPBUILDING HEAVY INDUSTRY CO., LTD.**

(Add: No. 369, LIJIANG EAST ROAD, QINGDAO ECONOMIC & TECHNICAL DEVELOPMENT ZONE, QINGDAO CITY, SHANDONG PROVINCE, 266520, P.R. CHINA)

建立的质量管理体系符合体系标准: **GB/T 19001-2008 / ISO 9001:2008.**
has been found to conform to system standard **GB/T 19001-2008 / ISO 9001:2008.**

本证书对下述范围的质量管理体系有效: *救生艇/救助艇及降放装置、工作艇的设计、
生产和服务*。

This certificate is valid to the following scope for QMS: *DESIGN, PRODUCTION,
SERVICE OF LIFEBOATS, RESCUE BOATS, RELEASE MECHANISM AND
WORK BOATS*.

本证书有效期至: 2013 年 9 月 7 日。
This certificate is valid until 7 September 2013.



发证日期: 2010 年 9 月 8 日
Issued on 8 September 2010

总经理:

General Manager **Huang Shiyuan**



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中国船级社质量认证公司 北京市东黄城根南街 40 号 100006 电话: +86(10)65239001 网址: www.ccs-c.com.cn
40 Dong Huang Cheng Gen Nan Jie, Beijing, 100006, China Tel.: +86(10)65239001 Website: www.ccs-c.com.cn



CERTIFICATE OF CONFORMITY

OF QUALITY SYSTEM CERTIFICATION

Certificate No. 00802Q10376R0M

This is to certify that the quality system of
**BOATBUILDING BRANCH, QINGDAO BEIHAI
SHIPBUILDING HEAVY INDUSTRY CO., LTD**
--No. 1 Yanerdao Rd., Shinan District, Qingdao, Shandong,
P.R.C. 266071

is in conformity with

GB/T19001-2000 (idt ISO9001:2000) standard

This certificate is valid to the following product(s)/service

**Design, Development, Production and Servicing of
F.R.P Lifeboat/Rescue Boat, Work Boat,
Crew Boat and High Speed Boat**

Issue Date: 2002.08.30

Reissue Date: 2003.12.02

Expiry Date: 2005.08.29

China Xinshidai Quality
System Certification Body

Director:



Registration Number: CNAB008-Q

Accredited by
Member of
the IAF & PAC
MLA for QMS

Environment MS & Safety & Health MS

- **For improving the environment protection, reducing the occupational harm & ensuring the safety and safety of employees in production, Beihai Lifeboat Factory now is establishing the Environment Management System & Occupational Safety & Health Management System according to ISO14001 & OSH18001. The establishment and implement of these two systems will make big improvement on our management level.**

APPROVALS for shops

Shop Approval



Approval No: KBZ 0912 HH 2

For the Production of Life and Rescue Boats
Fabricated from Fibre Reinforced Plastics

the company Qingdao Beihai Shipbuilding
369, East Lijiang Road
Economic and Technological Zone
Qingdao
China

has applied for the Shop Approval. On the basis of the results of checks regarding the company's production facilities and the qualification of the personnel in charge the above mentioned company is approved within the scope as follows:

Production Techniques	Hand Lay-up Process
Supervisory Personnel	Mr. Wang Li Mr. Lu Tao
Normative Reference	Rules for Classification and Construction II - Material and Welding Technology Part 2 - Non-metallic Materials Chapter 1 - Fibre Reinforced Plastics and Bonding
Remarks	-

The approval consists of this document and a one-page annex.

This Shop Approval is valid until 2012-01-31.

Hamburg, 2008-01-24

Germanischer Lloyd

Michael Kühnel

Dr. Eva Junghans



CERTIFICATE
NUMBER YA1715166-X1

PLANT LOCATION Qingdao, P.R.China

ABS OFFICE Yantai Office

CERTIFICATE OF Manufacturing Assessment

This is to Certify that a representative of this Bureau did, at the request of
Boat Building Branch, Qingdao Beihai Shipbuilding Heavy Industry Co., Ltd

Attend their facilities at the location noted above, in order to carry out an audit of their facilities and associated quality assurance and quality control procedures. The facility is considered capable of consistently manufacturing:

FRP Lifeboat/ Rescue boat

in compliance with their ABS Product Design Assessment Certificates and the designated standards defined therein. The product listed on their current Product Design Assessment Certificates are eligible to be placed on this Bureau's *List of Type Approved Products*, subject to annual facility audits by a representative of this Bureau, and renewal of this Certificate after five (5) years.

ISSUE DATE	18-Aug-2009	EXPIRATION DATE	17-Aug-2014
SURVEYOR'S SIGNATURE			
FIRST ANNUAL ENDORSEMENT		Date:	3-Nov-2010
SECOND ANNUAL ENDORSEMENT		Date:	
THIRD ANNUAL ENDORSEMENT		Date:	
FOURTH ANNUAL ENDORSEMENT		Date:	

AB257 (03-04)

Note: This certificate evidences compliance with one or more of the Rules, Guides, standards, or other criteria of American Bureau of Shipping, or a statutory, industrial, or manufacturer's standard, and is issued solely for the use of the Bureau, its committees, its clients, or other authorized entities. This certificate is governed by the terms and conditions on the reverse side hereof.

APPROVALS for products

BH series of lifeboat have been approved by different classification societies or administrations, around 20 app. certificates

- **ABS, LR, KR, RINA, USCG, DNV, CCS, CR, KG, GL, BV, NK, RS, MCA, MMF, DMA,, RINA, CE etc.**

SALES RECORD & AS

- **80% of the products are exported to more than 20 countries including U.S.A, Korea, Japan, Singapore, U.A.E, India, Brasil etc.**
- **Since 1994, supplying to most Korea Shipyards till now**
- **Over 6,000sets of Boats on Board in the world**

SALES RECORD & AS

- **In Korea, Beihai Engineer & Local Training Engineer to ensure service to Shipyards within 24hours**
- **Provide the training to crewmen**
- **The Annual Inspection**
- **The provision of lifeboat spare parts**
- **The repair and re-manufacturing of lifeboat**
- **160 Service Stations Distributions all over the world**

THANKS

Welcome to Qingdao Beihai