

杭州海花进出口有限公司



HANGZHOU HAIHUA IMPORT&EXPORT CO.,LTD.

East of 12th Floor Zhongnan International Tower, NO 1088 Jiangnan Rd, Binjiang District,  
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## ***SHIP LAUNCHING AIR BAGS***

***Large Ships Small Vessels Dry Dock Salvage***



### **High-Pressure Air Bags for Ship Launching**

Ship launching air-bags are also known as inflatable bags, roller bags, air lift bags, and salvage bags.

Standard air bag maximum diameter size range is 2.0m.

High-pressure pneumatic balloons are used for ship lifting, loading, and floating. They are widely used in cargo boat launching and landing, lifting and moving sunken ships, and salvaging stranded boats. Air bags have the benefit of not only saving labor and time, but investment costs. Additionally they are flexible and dependable.

The technology of applying pneumatic roller-bags to the launching and landing of ships relieves the restrictions of traditional slide-board technology which is commonly used in building small or medium size ships. Years of trial and error with this technology has increased the ability of launching 100-ton ships to 7,000-ton ships!

4-layer bags that are 1.5m dia x 15m long contain a rubber content that is not less than 51%. The air-bags can safely hold 156-tons with a safe working pressure of 0.08MPa while rolling. When standing still the highest lifting pressure is 0.10MPa while holding 194-tons.

6-layer bags that are 1.5m dia x 15m long contain a rubber content that is not less than 51%. The air-bags can safely hold 234-tons with a safe working pressure of 0.12MPa while rolling. When standing still the highest lifting pressure is 0.14MPa while holding 272-tons.

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**DRY-DOCK**



**DEFLATED FOR STORAGE**



**SMALLER SIZED VESSELS**



**AIR BAGS IN ACTION**

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1. Type of vessel?
2. LOA (length) of ship?
3. Width of vessel?
4. Vessel's actual launched weight (gravity weight)/weight without cargo?
5. What is the vessel's DWT?
6. Type of ground ship is built on? (Dirt, concrete, etc.) \*Provide photo.
7. Depth in meters of the water where the ship first enters the water?
8. What's the angle degree of slipway? (Land, not under water)
9. Please provide the low/high tide schedule at site.
10. The working height? (The block stand height under the vessel)
11. Distance from bottom of propeller to the water level?
12. Distance from back of vessel (in dry dock) to the water entry point?

## VIDEOS OF AIR-BAGS IN USE

<http://www.youtube.com/user/HIWOWCN>  
[http://www.youtube.com/watch?v=8\\_wPgWhX0vI](http://www.youtube.com/watch?v=8_wPgWhX0vI)  
[http://www.youtube.com/watch?v=cZJzWUxPqUM&feature=channel\\_page](http://www.youtube.com/watch?v=cZJzWUxPqUM&feature=channel_page)

HANGZHOU HAIHUA IM. & EX. CO., LTD.

LINHAI HAIHUA RUBBER & PLASTIC CO., LTD.

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