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CCS R46



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 18224-2008

Replacing GB 18224-2000

Safety code for the bridge type grab ship unloader

桥式抓斗卸船机安全规程

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Quarantine of the People's Republic of China;
Standardization Administration of China**

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Foreword

This standard replaces GB 18224-2000 "bridge type grab ship unloader safety regulations." The main technical differences between standard compared with GB 18224-2000 are as follows:

- In the "Scope" deleted "power plants, steel mills, the raw material used similar dock ship unloader can refer to the use of" content;
- Deleted the detailed requirements of the unloader device files, increasing the stability of the whole ship unloader requirements (see 3.5);
- Will "grab" and "elevator" chapter are listed separately (see Chapters 5 and 7);
- Modify pulley rope out of declination (see 4.3.2);
- Removed cart track requirements, increasing the car plate loose track problems (see 4.7);
- Modify the content of the cab (see Chapter 6);
- Increased the requirements for the main hydraulic components (see Chapter 8);
- Removed the unloader lubrication requirements;
- Added "lighting, power and power supply should be provided separately" requirement (see 11.2.4);
- Increase in the metal structure hinges on the electrical system requirements (see 11.5.4);
- Adjustment for overload limiter integrated error requirements; removes the requirement for skew adjustment and a display device;
- Added "Winds alarm" content (see 12.7). The standard proposed by the People's Republic of China Ministry of Transportation. This standard by the Ministry of Port

Machinery standard focal point. This standard was drafted. Water Transport Ministry of Transport Research Institute, Shanghai Port Machinery Heavy Industry Co., Ltd. The main drafters of this standard. Ding Min, Liu Jinchuan, then strong Qi, Liu Yonghong. This standard replaces the standards previously issued as follows:

--- GB 18224-2000. Bridge type grab ship unloader safety regulations

1 Scope

GB/T 18224-2008 is the Chinese national standard on safety code for the bridge type grab ship unloader, in the field of materials handling equipment. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 27 May 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 December 2008. Classification: ICS 53.020.20, CCS R46. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the bridge type grab ship unloader (hereinafter referred unloader) in the design, manufacture, installation and testing, use and maintenance, inspection and maintenance Repair and other aspects of technical safety requirements. This standard applies to coal, ore, sand and other bulk cargo unloading operation with unloader.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 699 high-quality carbon structural steel

GB/T 985 gas welding, SMAW basic form and GMAW welding groove and size

GB/T 986 submerged arc weld groove basic form and size

GB/T 1228 high strength steel with large hexagon head bolts (GB/T 1228-2006, ISO 7412. 1984, NEQ)

GB/T 1229 steel with high strength large hexagon nuts (GB/T 1229-2006, ISO 4775. 1984, NEQ)

GB/T 1230 high-strength steel washer (GB/T 1230-2006, ISO 7416. 1984, NEQ)

GB/T 1231 Steel hexagon head bolts, hexagon nuts, plain washers for high-strength

GB/T 3323 metal fusion welded joints radiography (

GB/T 3323-2005, EN1435.1997, MOD)

GB/T 3811 crane design specifications

GB 4053.1 fixed steel ladders Safety Conditions

GB 4053.2 fixed steel inclined ladder safety and technical conditions

GB 4053.3 fixed industrial protective railings Safety Conditions