ICS 25.120.10
CCS J62

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB 30458-2013

Safety requirement of plate bending machine

卷板机 安全技术要求

Issued on: December 31, 2013 **Implemented on: January 1, 2015**

Issued by: General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China;
Standardization Administration of China

Table of Contents

1 Scope
2 Normative references
3 Terms and Definitions
4 Responsibility
4.1 Manufacturer
4.2 Users
5.1 Hazard Identification
5.1.9 Other
5.2.4 Warning
6 Design and Manufacturing
6.1 Basic requirements Design and manufacture
6.2 Control mode
6.4 Hydraulic System
7 Installation and commissioning
7.6 Debugging
8 Security

Foreword

The standard Chapter 1, Chapter 2, Section 3, Appendix A and Appendix B are recommended, the rest are mandatory. This standard was drafted in accordance with GB/T 1.1-2009 given rules. The standard proposed by China Machinery Industry Federation. This standard by the National Forging Machinery Standardization Technical Committee (SAC/TC220) centralized. This standard is drafted by: Changzhi Iron and Steel (Group) Forging Machinery Manufacturing Co., Tai'an, Shandong Forging Machine Co., Ltd., Foshan City of South China Sea ACL Machine Co., Ltd., Anhui Pacific Heavy Machinery Co., Ltd., Nantong Machinery Co., Ltd. Ott. The main drafters of this standard. Xingwei Rong, Tian Yan new, Zhou Jianjun, Zhang Taiyou, Chen Jinsheng, former strengthened, Li Jianying. Bending Safety requirements

1 Scope

GB 30458-2013 is the Chinese national standard on safety requirement of plate bending machine, in the field of manufacturing engineering. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope

has to meet it to be lawfully made, sold or carried out in China. It was issued on 31 December 2013 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 January 2015. Classification: ICS 25.120.10, CCS J62. 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 terms and definitions Bending security, responsibility, dangerous identification and control, design and manufacture, installation and commissioning, security Full protection, maintenance and use requirements. This standard applies to coiling machine.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document. GB 2893 Safety colors

GB 2894 Safety Signs and use guidelines

GB/T 3766 Hydraulic System General technical conditions

GB 5226.1 mechanical and electrical safety of machinery - Electrical equipment - Part 1. General requirements

GB/T 7935 General technical conditions for hydraulic components

GB/T 8196 mechanical safety devices fixed and movable guards General requirements for the design and manufacture

GB 12265.3 Safety of machinery to avoid crushing of parts of the human body minimum spacing

GB/T 14776 Ergonomic design principles job size and value

GB/T 15706.1 Safety of machinery - Basic concepts, general principles for design - Part 1. Basic terminology, methodology

GB/T 15706.2 Safety of machinery - Basic concepts, general principles for design - Part 2. Technical principles

GB 16754 Safety of machinery - Emergency stop design principles

GB/T 16855.1-2008 Safety of machinery - Safety-related control system components - Part 1. General principles for design

GB/T 16856.1 Safety of machinery - Risk assessment - Part 1. Principles

GB 17120 Metalforming machinery - Safety requirements

3 Terms and Definitions

GB/T 15706.1 defined and the following terms and definitions apply to this document.

3.1 Bend bending At some point put pressure plate, and the work roll rotation, the sheet material folded or rolled into a certain arc angle.

3.2 Bending platebendingmachine Use of displacement and rotational movement of the work rolls, the work rolls so sandwiched between the flat plate to produce a continuous bending deformation, which can be Or more processing into the same curvature as the radius of curvature of the arc-shaped or cylindrical workpieces machine.

3.3 Mold bendingformdie Special type of mold used on the rolling machine for a specific volume profiles made of the same or different curvatures of the arcuate curvature of the workpiece.

3.4 Work roll rol Sheet for traction devices designed shape.

3.5 Emergency emergencystop This feature should be able to.

--- Prevent or reduce the risk of taking place in the presence of personnel of the machinery or work in progress of the damage;

--- Triggered by a single action. NOTE. GB 16754 gives detailed provisions.

3.6 Security guard safeguard Guards or protection devices.

3.7 Guard guard An integral part of the machine, for providing a physical barrier protection.

Note 1. The guard can.

---Use alone. For active protective device only when it is "closed" when valid for fixed guards, only when it is in the "lock Position "to be effective.

--- And with or without guard locking interlock device used in combination. In this case, no matter what position the protective device is able to play a protective effect.

Note 2. By design, the guard may be called casing, cover, cover, screen, door and closed-end devices.

4.1 Manufacturer

4.1.1 shall be Chapter 5, Section 6, Chapter 7 and Chapter 8 requirements, bear in coiling danger identified, product design, installation and safety Responsibility of the whole protection area. Bending suppliers, renovation and maintenance shall also bear the responsibility for security.

4.1.2 hazard identification should be responsible for coiling and should be in accordance with the guidance of

5.1 to identify the original purchaser of the crisis in the Instruction Manual Insurance source.

4.1.3 should follow the GB/T 15706.2 and GB/T 16855.1 intrinsically safe design principles, design by eliminating the danger. When not pass Designed to eliminate the danger, it should provide a safety device to avoid dangerous.

4.1.4 in the product manual should clearly Bending safety precautions in the installation, commissioning, operation, repair and maintenance, etc., and Capable of directing the user to develop appropriate safety regulations in order to prevent dangerous. Bending improvements made to

4.1.5 of the specification should be noted and explained the safety precautions Bending improved.

4.1.6 Bending the rules should indicate in the product manual, and should be able to guide the user to the coiling machine lubrication, adjustment and Routine maintenance work.

4.1.7 should provide the necessary security alerts to users. Bending the movable member such as safety colors should be painted, electrical cabinets set the security signs.

4.2 Users

4.2.1 Bending shall ensure personal security environment, the equipment installation and any modification shall be provided in accordance with the manufacturer's technical file Members and Chapter 5, Chapter 6 requirements, Chapter 7, Chapter 8, Chapter 9 will be.

4.2.2 shall be in accordance with the provisions of

5.1 Bending confirmed in the course of danger.

4.2.3 to avoid or eliminate the risk of rolling machine in use and maintenance of the process in accordance with the provisions of 5.2. Security should be set in accordance with the requirements of Chapter

8 Full protective devices to ensure safe use.

4.2.4 inspection and maintenance process of the machine should ensure that their components and safety devices active.

4.2.5 Bending Machine operators, installers and associated personnel safety procedures should be performed in accordance with the requirements of the specification and use of Chapter 9.

4.2.6 Maintenance and operators should be trained. Especially relevant personnel should be trained in the danger zone and the following situations.