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PEOPLE'S REPUBLIC OF CHINA**

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**Conveying, spraying and placing machines for concrete and
mortar -- Safety requirements**

混凝土及灰浆输送、喷射、浇注机械 安全要求

(English Translation)

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Foreword

This standard, 5.1.1,5.1.2,5.1.3,5.1.4,5.3.1.1,5.3.1.2,5.3.1.4,5.3.1.5,5.3.1.6,5.3.1.7,
5.3.2.1,5.3.2.2,5.3.2.3,5.3.2.4,5.3.2.6,5.3.2.7,5.3.3.1,5.3.3.2,5.3.3.3,5.3.3.4,5.3.4,

5.4 are mandatory, others are recommended.

This modification uses standard EN12001.2003 "Concrete and mortar delivery, injection, casting machinery Safety Requirements" (in English).

This standard is based on EN12001.2003 redrafted.

Taking into account China's actual situation, the standard EN12001.2003, made the following technical corrections.

- a) EN12001.2003 Annex B to regulatory information appendix;
- b) Delete EN12001. Appendix ZA 2003's.
- c) Delete footnote 7.9.

For ease of use, the standard of EN12001.2003 made the following editorial changes.

- a) For EN12001.2003 references of European standards have been converted into international standards and adopted as our standard or equivalent and other direct

With adopted as our standard, this standard references to these national standards instead of the corresponding European standards (see Chapter 2);

- b) "EN12001.2003" replaced by "this standard";
- c) Delete EN12001.2003 foreword and introduction, preface and an increase of the standard introduction;
- d) increasing Chapter 4 of Table 1 the introductory phrase;
- e) increase in the introductory phrase Chapter 5 of FIGS. 1 to 4, and a guide title increase language Table 2 to Table 5;
- f) EN12001. units of 2003 t/m³ to kg/m³, bar instead MPa;

g) text format in Appendix A and Appendix B of the table in accordance with our customary expression made editorial changes.

This standard Annex A, Annex B is an informative annex.

The standard proposed by China Machinery Industry Federation.

This standard by the National Standardization Technical Committee and construction (SAC/TC328) machinery and equipment.

This standard was drafted. Changsha Construction Machinery Research Institute, Changsha Zoomlion Heavy Industry Science and Technology Development Co., Ltd., Jiangsu Xuzhou Construction Machinery

Research Institute.

Introduction

The standard equipment of the dangers involved and safety requirements, protective measures are described.

The purpose of this standard is to facilitate the preparation of the user to communicate with the manufacturer about the physical aspects of health and safety regulations on the use of products and

Consultation.

When the present class C defined in the standard terms and Class A or Class B difference in terms, for a class C in accordance with the present design and manufacturing standards of

Equipment, its provisions take precedence over other standard items.

This criterion is satisfied EU Machinery Directive 98/37/EC (Amended 98/79/EC Directive from) basic requirements.

Conveying concrete and mortar, injection, casting machine

Safety requirements

1 Scope

This standard specifies the transport of concrete and mortar, injection, casting machine and safety requirements to eliminate or reduce the risk of major technology

Surgical measures. This standard relates to the delivery, and great danger injection machine fabrics that may occur when the manufacturer using conditions designed

Harmful, dangerous conditions and events (see Chapter 4).

This standard safety requirements for concrete and mortar conveyor, jet, cloth and its components.

Device may be stationary or mobile.

This standard applies mechanical described in 3.3 to 3.7.

This standard does not include.

--- moved in the transport, and the cloth during operation of the injection apparatus;

--- this standard equipment suitable for operating chamber;

--- noise (significant harm);

---vibration;

--- EMC standard is not specified in this column.

And a delivery vehicle chassis, and fabric work injection engine driven not by the main power system on the device, not in this standard

Column. As a special case, this device does not include the same standard in combination with a mixer truck (see 3.3).

Existing special predetermined operation (such as explosive gas, electromagnetic compatibility, voltage, frequency and capacity different from the utility power supply network,

Or due to electronic components, earthquakes, lightning, in road use, danger in the production, transportation, commissioning process, the non-wireless radio control

The remote generation of the relevant circumstances, the compressor and the pressure vessel, etc.), this standard is not otherwise required.

2 Normative references

Terms of the following documents become provisions of this standard by reference in this standard. For dated reference documents, all later

Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to agreements based on this standard

Whether the latest versions of these documents. For undated references, the latest version applies to this standard.

GB 5226.1 Safety of machinery Electrical Equipment Part 1. General Requirements (GB 5226.1-2008, IEC 60204-

1.2005, IDT)

GB/T 8196-2003 mechanical safety of fixed and movable guards General requirements for design and manufacture

(ISO 14120.2002, MOD)

Safety Basic Concepts GB/T 15706.1-2007 General Mechanical Design - Part 1. Basic terminology and methods (ISO 12100-

1.2003, IDT)

GB/T 15706.2-2007 basic concepts of mechanical safety and General Design - Part 2. Technical Principles (ISO 12100-2.

2003, IDT)

GB 16754 mechanical emergency stop safety design principles (GB 16754-2008, ISO 13850.2006, IDT)

GB/T 16855.1 mechanical safety control system safety components - Part 1. General principles for design (GB/T 16855.1-

2008, ISO 13849-1.2006, IDT)

GB/T 18153 Safety of machinery accessible surface temperature Ergonomics data to limit the surface temperature of heat

GB/T 18831-2002 mechanical interlock designed belt guard and selection policy (ISO 14119.1998,

MOD)

GB 23821 Safety of machinery - Safety distances to prevent danger zones being reached on the lower limbs (GB 23821-2009, ISO 13857.2008,

IDT)

EN518.1995 Exterior grade wood structural strength grading standards

EN614-1.1995 Safety ergonomic mechanical design principles - Part 1. General principles and terminology

EN982.1996 Safety of machinery Safety and hydraulic system components required hydraulic device

EN894-1.1997 Safety of machinery designed for the display control means and ergonomic requirements - Part 1. Human and display and control

General Principles of Interactive

EN894-2.1997 Safety of machinery and display control means ergonomic design - Part 2. Display