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

GB/T 20303.1-2016

**Cranes -- Cabins and control stations -- Part 1: General
(English Translation)**

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Foreword

GB/T 20303 Cranes - Cabins and control stations consists of the following five parts.

- Part 1. General;
- Part 2. Mobile cranes;
- Part 3. Tower cranes;
- Part 4. Jib cranes;
- Part 5. Overhead travelling and portal bridge cranes.

This Part is the first part of GB/T 20303.

This Part was drafted in accordance with the rules given in GB/T 1.1-2009.

This Part replaces GB/T 20303.1-2006 Cranes - Cabins - Part 1. General.

Compared with GB/T 20303.1-2006, the main technical changes are as follows.

- modified the application scope of this Standard (see Clause 1 of this Edition, Clause 1 of Edition 2006);
- modified normative references (see Clause 2 of this Edition, Clause 2 of Edition 2006);
- added the term and definition of control station (see 3.5 of this Edition);
- added technical content of control station (see Clause 4 of this Edition);
- added contents of windows, entrance and exit (see 5.2 and 5.3 of this Edition);

- modified the content of crane operator's seat (see 5.4 of this Edition, Clause 5 of Edition 2006);
- added the test method of noise (see 5.7.2 of this Edition);
- added the content of "cabin climate" (see 5.8.2 of this Edition);
- deleted requirements for vibration (see Clause 10 of Edition 2006).

This Part uses translation method and identically adopts ISO 8566-1:2010

Cranes - Cabins and control stations - Part 1. General (English version).

The Chinese documents which have consistency with the international normative references in this Part are as follows.

GB 5226.2-2002 Safety of Machinery - Electrical Equipment of Machines - Part 32. Requirements for Hoisting Machines (idt IEC 60204-32:1998)

GB/T 6974.1-2008 Cranes - Vocabulary - Part 1. General (ISO 4306-1:2007, IDT)

GB/T 8591-2000 Earth-moving machinery - Seat index point (eqv ISO 5353:1995)

GB/T 17248.2-1999 Acoustics--Noise emitted by machinery and equipment--Measurement of emission sound pressure levels at a work station and at other specified positions--Engineering method in an essentially free field over a reflecting plane (eqv ISO 11201:1995)

GB/T 20953-2007 Tractors and machinery for agriculture and forestry - Determination of burning behavior of cab interior materials (ISO 3795:1989, MOD)

GB/T 24817.1-2009 Lifting appliances - Controls - Layout and characteristics - Part 1. General principles (ISO 7752-1:1983, IDT)

GB/T 25624-2010 Earth-moving machinery - Operators seat - Dimensions and requirements (ISO 11112:1995, IDT)

This Part was proposed by China Machinery Industry Federation.

This Part shall be under the jurisdiction of National Technical Committee on

Hoisting Machinery of Standardization Administration of China (SAC/TC 227).

Main drafting organizations of this Part. Zhejiang Sankang Lifting Electric Appliance Co., Ltd., Beijing Hoisting and Transportation Machinery Design & Research Institute.

The drafting organizations of this Part. Wujiao Heavy Industry Group Co., Ltd., Ningbo Hugo Heavy Industry Co., Ltd., Yang Ge Technology Co., Ltd., Guangxi Construction Engineering Group Construction Machinery Manufacturing Co., Ltd., Zhejiang Jianhuan Electric Switch Co., Ltd., Tianjin Port (Group) Company Limited, Anhui Duojie Electric Co., Ltd.

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Version of standard substituted by this Standard is.

- GB/T 20303.1-2006.

Cranes - Cabins and control stations - Part 1. General

1 Scope

This Part of GB/T 20303 specifies the general requirements for cabins and control stations from which cranes, as defined in ISO 4306-1, are operated. It takes the conditions of use of the cabin into consideration.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3795, Road vehicles, and tractors and machinery for agriculture and forestry - Determination of burning behaviour of interior materials

ISO 4306-1, Cranes - Vocabulary - Part 1. General

ISO 5353.1995, Earth-moving machinery, and tractors and machinery for agriculture and forestry - Seat index point

ISO 7752-1, Cranes - Controls - Layout and characteristics - Part 1. General principles
ISO 11112, Earth-moving machinery - Operator's seat -

Dimensions and requirements

ISO 11201, Acoustics - Noise emitted by machinery and equipment -

Measurement of emission sound pressure levels at a work station and at other specified positions - Engineering method in an essentially free field over a reflecting plane

IEC 60204-32.2008, Safety of machinery - Electrical equipment of machines - Part 32. Requirements for hoisting machines

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 crane cabin

space in a crane or in its immediate vicinity which is specially designed, built

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