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

GB/T 24809.5-2009

**Cranes -- Requirements for mechanisms -- Part 5: Bridge and
gantry cranes**

起重机 对机构的要求 第5部分：桥式和门式起重机

(English Translation)

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Foreword

GB/T 24809 "Crane institutional requirements" is divided into five sections.

- Part 1. General;
- Part 2. Mobile cranes;
- Part 3. Tower cranes;
- Part 4. jib cranes;
- Part 5. Bridge and gantry cranes.

This is Part 5 GB/T 24809 of.

This part identical with ISO 10972-5:2006 "Cranes institutional requirements - Part 5. Bridge and gantry cranes" (English Version).

This section is equivalent translation ISO 10972-5:2006.

For ease of use, this section made the following editorial changes.

- The term "this part of ISO 10972" with the words "GB/T 24809 in this section";
- Delete ISO 10972-5:2006 Foreword;
- For ISO 10972-5:2006 international standard references, have been adopted as the equivalent of the standard with our standard replaces the corresponding International standards, the other is not identical with direct reference to international standards for our standards.

This part is proposed by China Machinery Industry Federation.

This part of the National Standardization Technical Committee crane (SAC/TC227) centralized.

This part mainly drafted by. DHI DCW Group Co., Ltd.

1 Scope

GB/T 24809 provisions of this part of the GB/T 6974.1 general arrangement and set defined Bridge and gantry cranes and agencies Guide the design, selection and design requirements as well as parts manufacturing, assembly, installation and testing and other special requirements relating to the description, crane bodies General requirements according to GB/T 24809.1 requirements.

This section GB/T 24809 does not include verification at different limit states (yield strength, fatigue, wear, etc.) carrying capacity calculations rule.

2 Normative references

The following documents contain provisions which, through reference GB/T 24809 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB 5226.2 Safety of machinery electrical equipment Part 32. Requirements for hoisting machines (GB 5226.2-2002, idt IEC 60204-32:1998) GB/T 6974.1 crane terminology - Part 1. General terms (GB/T 6974.1-2008, ISO 4306-1:2007, IDT) GB/T 24809.1 crane institutional requirements - Part 1. General (GB/T 24809.1-2009, ISO 10972-1.

1998, IDT)

GB/T 24810.5 crane limiter and indicators - Part 5. Bridge and gantry cranes (GB/T 24810.5-2009, ISO 10245-5:1995, IDT) ISO 12210-1:1998 Part 1 anchoring device Cranes state and non-state. General ISO 12488-1:2005 Cranes and crane wheels and trolley track tolerances - Part 1. General

3 Terms and Definitions

Terms and definitions GB/T 6974.1 established in this section apply.

4.1.1 General

Institutions should comply with the relevant provisions of GB/T 24809.1 of.

4.1.2 Load Control

Limiters and indicators should be set in line with GB/T 24810.5 of the relevant provisions.

When the limiter malfunction could lead to the stability of the crane is lowered, at least one of the following methods should be used to ensure that the system of reliability.

Key components a) from the weight of limiter and double system design, or set up a backup limiter;

b) automatic detection system functions;

GB/T 24809.5-2009/ISO 10972-5:2006