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

GB/T 24810.5-2009

**Cranes -- Limiting and indicating devices -- Part 5: Bridge and
gantry cranes**

起重机 限制器和指示器 第5部分：桥式和门式起重机

(English Translation)

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Foreword

GB/T 24810 "Cranes - Limiting and indicating" 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 24810 of.

This part identical with ISO 10245-5:1995 "Cranes limiters and indicators - Part 5. Bridge and gantry crane Machine "(in English).

This section is equivalent translation ISO 10245-5:1995.

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

- The term "this part of ISO 10245" with the words "GB/T 24810 in this section";
- Delete ISO 10245-5:1995 Foreword;
- Of ISO 10245-5:1995 references to other international standards, with the equivalent has been adopted as a standard in place of the corresponding international standard.

This part is proposed by China Machinery Industry Federation.

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

This section drafted by. DHI DCW Group Co., Ltd., Beijing Institute of lifting the transport machinery design.

1 Scope

This section GB/T 24810 specifies the bridge and gantry crane loads, movement, performance and environmental use of limiters and/or instructions the requirements.

General requirements for crane limiter and indicator according to GB/T 24810.1 requirements.

2 Normative references

The following documents contain provisions which, through reference GB/T 24810 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/T 24810.1 crane limiter and indicators - Part 1. General (GB/T 24810.1-2009, ISO 10245-1.

2008, IDT)

GB/T 22437.1-2008 crane loads and load combinations of design principles - Part 1. General (ISO 8686-1. 1989, MOD)

3 Terms and Definitions

Terms and definitions GB/T 24810.1 established applicable to this section.

4 Lifting capacity limiter

4.1

crane under the following conditions shall be fitted with the rated capacity limiter.

--- Danger of tipping;

--- Cranes may not be expected to carry the load, the load will result in overload institutions and structures.

4.2

rated capacity limiter should be allowed to lift the device with a rated load in order to design the average acceleration Rao accelerated upward movement. Typically, the amount Given load test, the limiter should be adjusted and fixed at an appropriate value. For the series production of the crane during the plant trial, test Into account when using the crane bridge deformation, it may be appropriate to set the rated capacity limiter.

4.3

should be dynamic load limiters preventing detection function is in use.

4.4

rated capacity limiter setpoint QL should satisfy the formula (1).

Where.

Rao --- design lifting average acceleration;

QL --- by the lifting of the flexible member (rope, chains, etc.) restricted nominal weight;

QGL --- total starting weight by lifting flexure quality, fixed spreader and rated (nominal weight = separable from the weight of the spreader Quality + Effective from the weight) constituted;

2 --- GB/T 22437.1-2008 in 6.1.2.2.1 for performing amplification factor checking the crane capacity.

4.5

In special cases, bridge and gantry crane lifting capacity and load position in certain areas is restricted to less than the lifting mechanism GB/T 24810.5-2009/ISO 10245-5:1995