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

GB/T 24813-2018

Replacing GB/T 24813-2009

Forged steel lifting hooks with latch, grade 8

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8 grade steel forged lifting hook with safety locking device

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Foreword

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

This standard replaces GB/T 24813-2009 "Forged chain eye hook for 8-level chain".

Compared with GB/T 24813-2009, the main technology

The content changes are as follows.

- Revised the scope of application (see Chapter 1, Chapter 1 of the.2009 edition);
- Revised the normative reference documents (see Chapter 2, Chapter 2 of the.2009 edition);
- Remove terms and definitions such as extreme working load, working load, verification force and ultimate strength (see Chapter 3, Chapter 3 of the.2009 edition);
- Added the content of the hook design (see 4.1);
- Modified materials, heat treatment, manufacturing process, mechanical properties and tests (see Chapters 4 and 5,.2009 edition)
- Chapter 5 ~ Chapter 9);
- Increased the content of the safety lockout device (see 4.6);
- Modified the contents of the logo (see Chapter 6, Chapter 11 of the.2009 edition);
- Modified the contents of the manufacturer's product certificate (see Chapter 7, Chapter 10 of the.2009 edition);
- Added the content of the instruction manual (see Chapter 8);
- Increased the calculation principle of the hook size (see Appendix A);

--- Added hook naming method (see Appendix B).

This standard uses the translation method equivalent to ISO 7597.2013 "8-level steel forged lifting hook with safety locking device".

For ease of use, the following editorial changes have been made to this standard.

--- Add "hereinafter referred to as hook" in the scope;

--- Combine the first column and the second column in Table 1 and Table 3.

This standard was proposed by the China Machinery Industry Federation.

This standard is under the jurisdiction of the National Crane Machinery Standardization Technical Committee (SAC/TC227).

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1 Scope

This standard specifies a ring-shaped or bolt type 8 grade steel forged lifting crane with a limit working load of not more than 63t and a safety locking device.

The basic requirements of hooks (hereinafter referred to as "hooks"). This device is mainly used for.

---GB/T 20652 and GB/T 25853 specified slings;

--- Wire rope slings specified in ISO 7531;

---woven slings;

--- Lifting objects, materials or goods.

This standard does not apply to hand forged hooks.

See Appendix A for the method of calculating the size of the hook.

See Appendix B for examples of hook naming methods.

2 Normative references

The following documents are indispensable for the application of this document. For dated

references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 25852-2017 Grade 8 steel forged lifting parts (ISO 8539.2009, IDT)

3 Terms and definitions

The terms and definitions defined in GB/T 25852-2017 apply to this document.

4.1 Design

Connections and related movements shall comply with the provisions of 4.1 of GB/T 25852-2017.

Note. The hook type is not specified. For example, only the minimum value of the dimension F (see Figure 1) measured in any direction is specified so that the hook eye can be adapted to the pin.

The ring eye can be non-circular.

The structure of the upper end of the hook shall conform to the eyelet type or bolt type specified in Table 1 and Figure 1.

Each hook shall be fitted with a spring-type safety lockout in accordance with 4.6 to ensure that the load is not accidentally unhooked.

Table 1 Hook type

Type main use

Eye-ring type (E) sling, wire rope sling and woven sling

Latch type (C) mechanical connection chain

4.2 Size

The main dimensions of the hook shall comply with the requirements of Table 2, and the hook size is related to the ultimate working load.