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

GB/T 10051.3-2010

Replacing GB 10051.3-1988

Lifting hooks -- Part 3: Inspection of forged hooks in service

起重吊钩 第3部分：锻造吊钩使用检查

(English Translation)

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Foreword

GB/T 10051 "crampon" is divided into the following sections.

- Part 1. mechanical properties, lifting, stress and materials;
- Part 2. Forged hook technical conditions;
- Part 3. Forged hook in check;
- Part 4. shank hook with blank;
- Part 5. Shank hooks;
- Part 6. straight double hook shank blank;
- Part 7. straight double hook shank;
- Part 8. hook beam blank;
- Part 9. hook beam;
- Part 10. hook nut;
- Part 11. hook nut locking plate;
- Part 12. Hook locking means;
- Part 13. Laminated hook technical conditions;
- Part 14. Laminated hook in check;
- Part 15. Laminated single hook.

This section GB/T 10051 Part 3.

The partial modification using DIN15405-1. 1979 "Lifting hook Forged hook in check."
According to this section DIN15405-1. 1979 redrafted.

Taking into account China's national conditions, the use DIN15405-1. 1979 when modified, these technical differences identified in it a single vertical line They were involved in the margins, given the technical reasons for differences and their list in Appendix A for reference.

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

--- "This standard" be replaced by "this section";

--- With a decimal point "." Instead of a comma as the decimal point "." this Part replaces GB 10051.3-1988 "Lifting hook shank hook to check." this section compared with GB 10051.3-1988 main changes are as follows.

--- GB T 10051.6 increased content and/GB/T 10051.7 of;

--- Added Appendix A;

--- Appendix A of this section is an informative annex.

This part is proposed by China Machinery Industry Federation.

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

This section is responsible for drafting unit. Taiyuan Heavy Machinery Group Co., Ltd.

Participated in the drafting of this section. Beijing Materials Handling Design and Research Institute, Xuzhou Construction Machinery Co., Ltd. Cheung Kong, Baoding Heavy Industries shares Parts Co., China's second heavy machinery company.

1 Scope

This section GB/T 10051 specifies the content of forging checks hook use, requirements and inspection cycle.

This section applies to GB/T 10051.1 specified in crane forging hook (hereinafter referred to as the hook).

2 Normative references

The following documents contain provisions which, through reference GB/T 10051 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 10051.2-2010 lifting hook - Part 2. Forged hook technical conditions GB/T

10051.4-2010 crampon Part 4. shank hook with blank GB/T 10051.5 lifting hooks - Part 5. Shank hooks GB/T 10051.6-2010 crampons - Part 6. straight double hook shank blank GB/T 10051.7 lifting hooks - Part 7. straight double hook shank

3.1 Check before use

3.1.1

hook flag should be consistent with the manufacturer's certificate of compliance.

3.1.2

Shank hooks (hereinafter referred to as single-hook) and the straight double hook shank (hereinafter referred to as double hook) signs shall conform to GB/T 10051.2-2010 specified in 6.1 and 6.2.

3.1.3

Number hook hook 006 to 5, should review the opening of the a_2 , the remaining number of hooks hooks shall review the measure length y or y_1 and y_2 (Fig. 1,

Figure 2), and its value should be consistent with a single hook GB/T 10051.4 Table 1 and Table 2, or GB/T 10051.5 specified in Table 1, shall comply with double hook

GB/T 10051.6 Table 1 or GB/T 10051.7 specified in Table 1.

3.2.1 Surface Crack

Check the hook surface should not have cracks, if any cracks, it should be scrapped.

3.2.2 Deformation

3.2.2.1

hook hook No. 006 to 5, you should check the opening size of a_2 , the remaining number of hooks hooks should be checked measuring length y or y_1 and y_2 (eg Figures 1, 2), and its value exceeds 10% before using the basic dimensions of the hook should be scrapped.

3.2.2.2

Check torsional deformation of the hook, the hook body when the twist angle α (Figure 1, Figure 2) exceeds 10° , the hook should be scrapped.

Hook shank hook 3.2.2.3 There shall be no plastic deformation, or should be scrapped.

3.2.3 Wear

Hook wear amount Δt (Figure 1, Figure 2) should not exceed the basic size (single hook see GB/T 10051.4-2010 Table 1, h_2 , double hook See GB/T 10051.6-2010 Table 1 h) 5%, otherwise the hook should be scrapped.