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

GB/T 5974-2025

Replacing GB/T 5974.1-2006

Lifting appliances - Thimbles for steel wire ropes

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

This document replaces GB/T 5974.1-2006 "Ordinary thimbles for wire ropes" and GB/T 5974.2-2006 "Heavy thimbles for wire ropes".

Compared with GB/T 5974.1-2006 and GB/T 5974.2-2006, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

--Added terms and definitions (see Chapter 3);

--Added the type classification of collars (see 4.1);

--The model designation of ordinary thimbles and heavy thimbles has been changed (see 4.3, 3.2 of GB/T 5974.1-2006 and GB/T 5974.2- 2006, 3.2);

- Changed the applicable material specifications for heavy-duty collars (see Table 3, Table 2 of GB/T 5974.2-2006);
- The load-bearing capacity of heavy-duty collars has been changed (see 5.2.2, 4.4 of GB/T 5974.2-2006);
- Increased fatigue performance of heavy-duty collars (see 5.3);
- Added non-destructive testing requirements for heavy collars (see 5.5);
- Added the testing machine requirements for the ring bearing capacity test (see 6.3.1);
- Added fatigue test for heavy collars (see 6.4);
- Added non-destructive testing methods for heavy collars (see 6.5);
- Added the inspection category of collars (see 7.1);
- Added the inspection items for the collar (see Table 5);
- Changed the sampling method and judgment principle for the factory inspection of thimbles (see 7.2.2, Table 3 of GB/T 5974.1-2006 and GB/T 5974.2- 2006 (Table 3);
- Added type inspection of collars (see 7.3).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the China Machinery Industry Federation.

This document is under the jurisdiction of the National Technical Committee for Standardization of Lifting Machinery (SAC/TC 227).

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The previous versions of this document and the documents it replaces are as follows.

- GB/T 5974.1, first issued in 1986 and first revised in 2006;
- GB/T 5974.2, first issued in 1986 and first revised in 2006;

--This is the second revision.

Hoisting machinery wire rope ring

1 Scope

This document specifies the types and basic dimensions, technical requirements, test methods and inspection rules, markings, Packaging, transportation and storage.

This document is applicable to the thimbles for round strand wire ropes specified in GB/T 8918 and GB/T 20118. For other wire rope thimbles, refer to implement.

2 Normative references

GB/T 699-2015

GB/T 700-2006

GB/T 1348-2019

GB/T 8706

GB/T 9440-2010

GB/T 11352-2009

GB/T 13384

GB/T 13825

GB/T 16825.1

GB/T 17107-1997

GB/T 37400.14

GB/T 37400.15

3 Terms and definitions

The terms and definitions defined in GB/T 8706 and the following apply to this document.

3.1 Nominal thimble size

The largest nominal diameter of wire rope for which the thimble is suitable (d).

4.1 Type classification

According to the tensile strength of the wire rope that the wire rope thimble (hereinafter referred to as "thimble") is suitable for, it is divided into ordinary thimble and heavy-duty thimble.

Ordinary thimbles are suitable for steel wire ropes with a tensile strength not exceeding 1 770 MPa, code-named GT.

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