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

GB/T 25851.1-2010

**Mobile cranes -- Experimental determination of crane
performance -- Part 1: Tipping loads and radii**

流动式起重机 起重机性能的试验测定 第1部分：倾翻载荷和幅度

(English Translation)

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Foreword

GB/T 25851 "test measures the performance of mobile cranes Crane" is divided into three parts.

--- Part 1. Tipping loads and amplitude;

--- Part 2. structural characteristics;

--- Part 3. Dynamic Properties.

This section GB/T 25851 Part 1.

This part identical with ISO 11662-1:1995 "test measures the mobile crane crane performance - Part 1. Tipping load and magnitude "(in English).

This section is equivalent translation ISO 11662-1:1995.

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

- a) "This part of ISO 11662" be replaced by "GB/T 25851 in this section";
- b) Delete ISO 11662-1:1995 Foreword;
- c) use a decimal point instead of a decimal comma " , " . " , " ;
- d) For ISO 11662-1:1995 and references cited international standards, has been used as identical with our standard replaces Corresponding to international standards;
- e) The "Annex A (informative) References" write directly to the "References." this part is proposed by China Machinery Industry Federation.

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

This section is drafted. XCMG Xuzhou Heavy Machinery Co., Ltd., Changsha Zoomlion Heavy Industry Science and Technology Development Co., Ltd.

Introduction

GB/T 25851 specifies the test methods to be used to verify mobile cranes rated lifting capacity chart. Generally in the new One-time tests on prototype models, and then on the basis of the test results on the chart of the rated capacity to make the necessary changes to comply with standard Registration requirements.

Test measures the performance of the mobile crane crane Part 1. Tipping load and amplitude

1 Scope

GB/T 25851 provisions of this part of the group when the load on the hook pulley, the largest mobile cranes measurement of balance experiment method.

This test method is applicable to the carrying capacity of the crane in the establishment of the anti-static resistance to overturning the basis of, but not for carrying capacity by knot the decision by the structural strength or performance of the hoisting mechanism, luffing mechanism or a telescopic mechanism limits the crane.

This section applies to GB/T 6974.2 defined all mobile cranes.

2 Normative references

The following documents contain provisions which, through reference GB/T 25851 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 6974.2 cranes Terminology - Part 2. Mobile cranes (GB/T 6974.2-2010, ISO 4306-2:1994, IDT)

3 Terms and Definitions

The following terms and definitions apply to this section.

Equilibrium balancecondition Crane under load state when its load overturning moment has its largest anti-overturning moment equal.

Rotary centerline axisofrotation it was not contained on the train before the rotation around the vertical line through the center axis of the crane.

Load load

By a hook and pulley itself suspended its gravity on the weight of the crane is formed so out of balance forces.

Load amplitude radius of load Loaded from the front of the projector to the start of a measurement under load new comer liter rope or pulley center distance of the magnitude of the support surface.

Principle 4

The method has been loaded is to first determine the size of a weight freely suspended on a crane hook pulley block, then increased dramatically until starting Heavy machine loses stability. Or at a fixed amplitude, adding incremental weight until the crane lost stability.

In determining the capsizing rating test shall ensure that the tests are conducted on the stability of the minimum direction.

5 Equipment

5.1

supporting surface. made of concrete or other solid material having a size sufficient to ensure that the test work unhindered.