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

GB/T 10175.1-2008

Replacing GB/T 10175-1988

**Earth moving machinery -- Loaders and backhoe loaders -- Part
1: Calculation of rated operating capacity and test method for
verifying calculated tipping load**

土方机械 装载机和挖掘装载机 第1部分：额定工作载荷的计算和验证倾翻载荷计
算值的测试方法

(English Translation)

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Foreword

GB/T 10175 "moving machinery - Loaders and backhoe loaders" is divided into two parts.

--- Part 1. Calculation and verification of the rated working load calculated tipping load test method;

--- Part 2. maximum breakout force and lifting height lifting capacity test method.

This section GB/T Part 110 175, equivalent using ISO 14397-1:2007 "moving machinery - Loaders and backhoe loaders Part 1. Calculation of rated operating capacity and test method validation tipping load calculation value "(in English).

This section is equivalent translation ISO 14397-1:2007.

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

--- "This International Standard" be replaced by "this section";

--- Instead of using the decimal point as a decimal point ",", ".", ";";

--- Deleted international standards foreword;

--- Of ISO 14397-1:2007 international standard referenced with the international standard has been adopted as the standard instead of the corresponding country.

This Part replaces GB/T 10175-1988 "Loader rated operating load." this portion of the GB/T 10175-1988 main changes are as follows.

--- Standard name "Loader rated working load" with "earth-moving machinery - Loaders and backhoe loaders - Part 1. Rated working Tipping load calculation and verification test

methods load calculation value ";

--- Terminology and definitions have been added;

--- Adds symbols and abbreviations;

--- To calculate different types of loaders rated working load was supplemented;

--- Increase the tipping load limit calculation and verification of tipping load test;

--- Added Appendix A (informative) "single body weight (HSO)".

Appendix A of this section is an informative annex.

This part is proposed by China Machinery Industry Federation.

This part of the National earthmoving machinery Standardization Technical Committee (SAC/TC334) centralized.

This section is responsible for drafting units. Tianjin Academy of Engineering Machinery, China Machinery Holdings Limited.

Participated in the drafting of this section. Xiamen, Xiamen Engineering Machinery Co., Foton Lovol International Heavy Industry Co., Ltd.

1 Scope

This section GB/T 10175 specifies the GB/T 8498 defined installation and material bucket fork tires and crawler loaders and digging Driving method for determining Loader rated working load, and the calculation and verification of tipping load (by mass) of the general method.

This section applies to material installation and fork bucket loader and backhoe loaders.

NOTE: Some attachments will exceed the rated working load limit of the machine operating conditions, such as reducing the speed of the machine or lifting height limit. Appurtenances Use should consult the manufacturer's instructions.

2 Normative references

The following documents contain provisions which, through reference GB/T 10175 in this section constitute provisions of this section. For dated references, all subsequent amendments (excluding corrections) or revisions do not apply to this section, however, encourage an agreement under this section Parties to study the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 8498 Earth - moving machinery - Basic types - Identification and terms and definitions (GB/T 8498-2008, ISO 6165:2006, IDT) GB/T 10175.2 moving machinery - Loaders and backhoe loaders - Part 2. breakout force and lift capacity of maximum lift

height Test method (GB/T 10175.2-2008, ISO 14397-2:2007, IDT) Definition of GB/T 18577.1 moving machinery dimensions and codes - Part 1. Host (GB/T 18577.1-2008, ISO 6746-1:2003, IDT) GB/T 21153 moving machinery size, performance and parameters of units and the measurement accuracy (GB/T 21153-2007, ISO 9248.

1992, MOD)

GB/T 21154 earthmoving machinery machine and method for measuring the quality of the work equipment and components (GB/T 21154-2007, ISO 6016:1998, IDT) GB/T 21942 moving machinery - Loaders and shovel bucket capacity Calibration (GB/T 21942-2008, ISO 7546. 1983, MOD)

3 Terms and Definitions

GB/T 8498 and GB/T 18577.1 and established the following terms and definitions apply GB/T 10175 in this section.

Under normal operating conditions of the machine is determined by the nominal load value calculated in kilograms (kg).

Place the machine on a level hard ground, shovel or fork material at the maximum torque arm position, when the loader reaches the tipping limit state the minimum mass, in kilograms (kg). Together vertically through the press GB/T 21942 stipulated rated bucket capacity centroid or 5.2.6 Specified load centroid of fingers, as shown in FIG.

GB/T 10175.1-2008/ISO 14397-1:2007