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

GB/T 10168-2020

Replacing GB/T 10168-2008

**Earth-moving machinery--Backhoe loaders--Terminology and
commercial specifications**

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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 10168-2008 "Terms and Commercial Specifications of

Earth-moving Machinery Backhoe Loaders". This standard and

Compared with GB/T 10168-2008, the main technical changes except for editorial changes are as follows.

- Modified the normative references (see Chapter 2, Chapter 2 of the.2008 edition);
- Added the terms "work quality" and "transportation quality" (see 3.7);
- Modified the size symbols (see Figure 5, Figure 6, Figure 11, Table A.1, Table A.2, Figure 7, Figure 8, Figure 13, Table A.1, Table A.2 in the.2008 edition) ;
- Modified the names of some parts (see Figure 14, Figure 15, Figure 16, Figure 17 in the.2008 edition);
- The size symbols and terms of H7, LL17, WW14 have been added (see Table A.1);
- Delete the terms and definitions of A4 (see Table A.2 of the.2008 edition).

The translation method used in this standard is equivalent to ISO 8812.2016 "Terminology and Commercial Specifications for Earthmoving Machinery Backhoe Loaders".

The Chinese documents that have consistent correspondence with the normatively cited international documents in this standard are as follows.

- GB/T 8498-2017 Identification, terms and definitions of basic types of earth-moving machinery (ISO 6165.2012, IDT)
- GB/T 18577.2-2008 The definition of dimensions and symbols for earth-moving machinery Part 2.Working devices and attachments
(ISO 6746-2.2003, IDT)

This standard also made the following editorial changes.

- Modified the label of A3 in Figure 5a), and corrected the ISO labeling error;
- Adjust the label position of R3 in Figure 11a) and Figure 11b) to avoid ambiguity;
- Modified the name of description 1 in Figure 15, consistent with 5.2;
- Delete "A4" in Table A.2, and amend the duplication of ISO terminology.

This standard was proposed by China Machinery Industry Federation.

This standard is under the jurisdiction of the National Earth-moving Machinery Standardization Technical Committee (SAC/TC334).

Drafting organizations of this standard. Shandong Lingong Construction Machinery Co., Ltd., Tianjin Construction Machinery Research Institute Co., Ltd., Xuzhou Quality and Technical Supervisor

Supervise the comprehensive inspection and testing center.

1 Scope

This standard specifies the terms and commercial terms of self-propelled crawler and tire backhoe loaders and their working devices defined in ISO 6165.

specification.

This standard does not apply to loaders equipped with backhoe devices specified in 3.3.1.1 of GB/T 25604-2017.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article

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

GB/T 18577.1-2008 Definition of dimensions and symbols for earth-moving machinery Part 1.Host (ISO 6746-1.2003, IDT)

GB/T 25604-2017 Terminology and Commercial Specifications of Earth-moving Machinery Loaders (ISO 7131.2009, IDT)

ISO 6165 Earth-moving machinery basic type identification, terms and definitions (Earth-movingmachinery-Basic types-

Identificationandtermsanddefinitions)

ISO 6746-2 The definition of dimensions and symbols for earth-moving machinery Part 2.Working devices and attachments (Earth-movingma-

chinery-Definitionsofdimensionsandcodes-Part 2.Equipmentandattachments)

3 Terms and definitions

GB/T 18577.1, ISO 6165, ISO 6746-2 and the following terms and definitions apply to this document.

3.1

Backhoeloader

Self-propelled crawler or tire machinery, the main frame of which is used to support the front working device (3.3) and the rear excavating device (usually with

There are outriggers or fixed frames).

Note 1.When used for excavation operations, the machine is fixed, generally excavating

below the ground.

Note 2. When used for loading operations (using a bucket), the machine moves forward for loading.

Note 3. The excavation cycle usually includes the excavation, lifting, turning and unloading of materials; the loading cycle usually includes the loading, lifting, transportation and unloading of materials.

Uninstall.

3.2

Host basemachine

Machines without working devices (3.3) or auxiliary devices (3.5), but with the necessary connections for installing working devices and auxiliary devices,

If necessary, it can be equipped with driver's cab, hangar and driver protection structure.

3.3

Working device

A group of parts (3.6) installed on the main machine (3.2) to enable the accessory device (3.5) to perform the basic design functions of the machine.

3.4

Optional equipment optionalequipment

To enhance capacity, mobility and comfort, etc., an optional working device (3.3) installed on the host (3.2).