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

GB/T 7920.9-2020

**Earth-moving machinery--Graders--Terminology and
commercial specifications**

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Foreword

GB/T 7920 is divided into the following parts.

---Part 4. Concrete machinery terminology;

---Part 5. Terminology and commercial specifications of earth-moving mechanical rollers and backfill compactors;

---Part 6. Terminology and commercial specifications of piling equipment for construction machinery and equipment;

---Part 8. Terminology and commercial specifications of earthmoving machinery scrapers;

---Part 9. Terminology and commercial specifications of earth-moving machinery graders;

---Part 10. Terminology and commercial specifications of stabilized soil mixers for road construction and maintenance equipment;

--- Part 11. Road construction and maintenance equipment asphalt mixture mixing equipment terminology and commercial specifications;

---Part 12. Road construction and maintenance machinery equipment asphalt concrete paver terminology and commercial specifications;

---Part 13. Terminology of concrete pavement machinery and equipment;

---Part 14. Terminology and commercial specifications of asphalt sprayer/sprayer for road construction and maintenance equipment;

--- Part 15. Terminology for asphalt storage, melting and heating devices;

---Part 16. Road construction and maintenance equipment stone dust spreader terminology and commercial specifications;

--- Part 17. Terminology for rebar processing machinery.

This part is Part 9 of GB/T 7920.

This section was drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 7920.9-2003 "Terms and commercial specifications of earth-moving machinery graders". This part and GB/T 7920.9-

Compared to.2003, the main technical changes except for editorial changes are as follows.

- Modified the scope of the standard (see Chapter 1, Chapter 1 of the.2003 edition);
- Modified normative references (see Chapter 2, Chapter 2 of the.2003 edition);
- Modified terms and definitions (see Chapter 3, Chapter 3 of the.2003 edition);
- Added regulations on the distribution of work quality (see 6.9.2);
- Adjust the size of the main unit and the size of the accessory device to a normative appendix (see appendix A and appendix B,.2003 version 3.6, 3.7).

The translation method used in this section is equivalent to the adoption of ISO 7134.2013 "Terminology and commercial specifications of earth-moving machinery graders".

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

- GB/T 8592-2001 Determination of the steering size of earth-moving tire-type machines (eqvISO 7457.1997)
- GB/T 14781-2014 Earth-moving machinery tire-type machine steering requirements (ISO 5010.2007, IDT)
- GB/T 18577.1-2008 Definition of earthwork machinery dimensions and symbols. Part 1.Mainframe (ISO 6746-1.2003, IDT)
- GB/T 18577.2-2008 Definition of earthwork machinery dimensions and symbols. Part 2.Working devices and attachments (ISO 6746-2.2003, IDT)

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

- Delete some footnotes, the content of which is directly written into the article;
- Corrected the editorial errors in Figure 11 and Figure 12.

This part is proposed by China Machinery Industry Federation.

This part is under the jurisdiction of the National Earthmoving Machinery Standardization Technical Committee (SAC/TC334).

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Limited company.

1 Scope

This part of GB/T 7920 specifies the technical content of the terminology and commercial documents of motor graders and their installations.

2 Normative references

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

Pieces. For the cited documents without date, the latest version (including all amendments) applies to this document.

GB/T 21404-2008 General requirements for determination and measurement methods of internal combustion engine power (ISO 15550.2002, IDT)

ISO 5010 Earth-moving machinery tire-type machine steering requirements
(Earth-moving machinery-Rubber-tyred machines-Steering requirements)

ISO 6746-1 Definitions of dimensions and symbols for earth-moving machinery. Part 1. Mainframe (Earth-moving machinery-Definition of dimensions and codes-Part 1. Base machine)

ISO 6746-2 Definitions of dimensions and symbols for earth-moving machinery. Part 2. Working equipment and attachments (Earth-moving machinery-Definition of dimensions and codes-Part 2. Equipment and attachments)

ISO 7457 Earth-moving machinery-Determination of turning dimensions of wheeled machines)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 General definition

3.1.1

Motor grader

The self-propelled tire machine is equipped with an adjustable blade between the front and rear axles; the machine can be equipped with a front bulldozer or loosening rake,

The soil rake can also be installed between the two bridges.

[GB/T 8498-2017, definition 4.8]

3.1.2

Host basemachine

According to the manufacturer's instruction manual, the grader without working device is equipped with the necessary connecting parts for fixing the attachment.

3.1.3

Working equipment

A set of components installed on the host to complete its basic design functions.

3.1.4

Attachment

Optional component assembly, installed on the host for special purposes.