

ICS 53.100
CCS P 97



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

GB/T 25602-2010

Earth-moving machinery -- Machine availability -- Vocabulary

土方机械 机器可用性 术语

(English Translation)

Issued on: December 1, 2010

Implemented on: March 1, 2011

Issued by: Standardization Administration of China

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Foreword

This standard is identical with ISO 8927:1991 "moving machinery - machine availability, the term" (in English).

This standard is equivalent translation ISO 8927:1991.

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

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

--- Remove the foreword to international standards;

--- Increasing the number of the formula;

--- Removed Figure A.2 ~ Figure A.7 in number;

--- Added "Chinese index";

--- To ISO 8927:1991 international standard referenced with international standards have been adopted in place of the corresponding standard.

Appendix A of this standard is the data appendix.

The standard proposed by China Machinery Industry Federation.

This standard by the national earthmoving machinery Standardization Technical Committee (SAC/TC334) centralized.

This standard was drafted. Tianjin Construction Machinery Research Institute.

1 Scope

This standard specifies the relevant recognized by earth-moving machinery availability of basic terms and definitions, this standard will help pay for these terms Flow and understanding.

This standard applies to GB/T 8498 defined earthmoving machinery.

Appendix A provides a way to determine the scope of these terms and specification, illustrate the correlation between these terms.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard. However, according to research encourages the parties to the agreement Study whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 8498 Earth - moving machinery - Basic types - Identification and terms and definitions (GB/T 8498-2008, ISO 6165:2006, IDT)

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 Basic terms

3.1.1

Product item

Basic terminology or individual terms of availability and reliability of the objects involved.

3.2 The term availability 3.2.1 Availability when the product requires repair work, its capacity can be used. Availability of product reliability, serviceability and accessibility of comprehensive reflection.

Availability subdivided into instantaneous availability and average availability.

3.2.2

Instantaneous availability in a given moment or regulations, repairable products to maintain its probability function.

3.2.3

The average availability meanavailability If the product can work continuously, the total cumulative rate of their working time. The average availability subdivided into intrinsic availability and job availability.

3.2.4

Inherent Availability Measurement of the average availability of intrinsic availability A_i according to formula (1).

$$A_i = \frac{MTBF}{MTBF + MTTR}$$

Where.

The average time between failures MTBF --- (3.6.28);

MTTR --- mean time to repair (3.6.13).