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

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**Earth-moving machinery -- Guards -- Definitions and
requirements**

土方机械 防护装置 定义和要求

(English Translation)

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Foreword

This standard is identical with ISO 3457:2003 "Earthmoving Machinery guards definitions and requirements" (in English).

This standard is equivalent translation ISO 3457:2003.

For ease of use, this standard also made some editorial changes.

- a) "this International Standard" be replaced by "this standard";
- b) Remove the foreword to international standards;
- c) The ISO 3457:2003 international standard referenced with international standards have been adopted in place of the corresponding standard.

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.

Introduction

This standard specifies the guards and other means of protection performance requirements, the device is used in normal operation and routine maintenance of earth-moving machinery , The danger of accidental contact persons by the mechanical, fluid, or heat sources to provide protection. Including separated from hazardous parts to guard Distance to anthropometric data based on the relationship between the size of the opening.

This standard does not include certain factors play an important role in the protection of persons, for example operators and service personnel training, experience and equipment Body manipulation.

With the development of technology allows the feasibility and design of machine systems and departing from these requirements. In accordance with the provisions of this standard, based on feasibility Consider the following three safety guidelines are given.

- a) by a machine designed to eliminate the potential danger;
- b) If you can not be eliminated by design, should provide protective gear to prevent exposure to potential safety hazards;
- c) when a) and b) are not possible, they should be warned of the potential safety hazard.

Earthmoving machinery guards definitions and requirements

1 Scope

This standard specifies the guards and other protective mode key terms, requirements and characteristics, as specified by the manufacturer's use of when GB/T 8498 defined earthmoving machinery operation and routine maintenance to prevent operator exposure to mechanical, fluid or heat sources Danger.

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, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 8420 moving machinery physical dimensions of operators and minimum operator space (GB/T 8420-2000, eqv ISO 3411:1995) GB/T 8498 Earth - moving machinery - Basic types - Identification and terms and definitions (GB/T 8498-2008, ISO 6165:2006, IDT) GB/T 17300 moving machinery passage means (GB/T 17300-1998, ISO 2867:1994, IDT) GB/T 17301 moving machinery - Operation and maintenance of space down the blunt edges (GB/T 17301-1998, idt ISO 12508:1994) GB 20178 Earth-moving machinery - Safety signs and hazard pictorials General (GB 20178-2006, ISO 9244:1995, MOD) GB/T 21935 earthmoving machinery comfort zone and can be manipulated and scope (GB/T 21935-2008, ISO 6682. 1986, IDT)

3 Terms and Definitions

The following terms and definitions apply to this standard.

Guard guard

Protection devices, alone or in combination with other parts of a machine, designed and installed so that contact with potentially dangerous machine parts possibilities Min.

3.1.1

Fence barrierguard

In order to avoid contact with dangerous machine parts or other similar exposed portions of the human body or human limitations guards a part of the movement.

For example. handrails, frame, cover or fence.

3.1.2

Fender

Covering the wheels or tracks of the machine guards, limited by wheels or tracks thrown from an object, and have restricted movement of operator exposure part.

3.1.3

Fan shroud fanguard

In order to avoid accidental contact with rotating blades in the engine cooling fan cover protective structure.

3.1.4

Shrouds thermalguard Avoid contact with the body guard heat machine parts can also be used to provide a thermal barrier between the heated part and combustibles.