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

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Replacing GB 20178-2014

**Earth-moving machinery - Machine safety labels - General
principles**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules for Standardization Documents"

drafting.

This document replaces GB.20178-2014 "General Rules for Safety Labels of Earth-moving Machinery". This document is consistent with GB.20178-2014

In addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) Changed the regulations on passing "prohibited" information (see 4.7.3, 4.7.3 of the.2014 edition);
- b) Changed the regulations on combined diagrams (see 4.7.5, 4.7.5 of the.2014 edition);
- c) Changed the regulations on the color of machine safety labels (see Table 1, Table 1 of the.2014 edition);
- d) Changed the regulations on illustrations and safety signs (see 5.3.4, 5.3.4 of the.2014 edition);
- e) Some diagrams have been changed (see Figure B.13, Figure B.15~Figure B.22, see Figure B.13, Figure B.15~Figure B.22 of the.2014 edition).

This document is equivalent to ISO 9244.2008 "General Rules for Safety Labels of Earth-moving Machinery".

The following minimal editorial changes have been made to this document.

- a) Incorporate the amendments of ISO 9244.2008/Amd.1.2016, the outer margins of the terms involved are in vertical

Double lines (||) are marked;

- b) Added Appendix NA (informative) "Words of Warnings in Different Languages";
- c) Added Appendix NB (informative) "English pictograms of hazard level bands and stop instructions".

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

The purpose of this document is to provide general principles for the design and application of machine safety labels for earth-moving machinery, to draw attention to hazards, to describe the

It describes the nature of the hazard, describes the potential harm resulting from the hazard, and instructs people on how to avoid the hazard. With international trade and business

In order to continue to develop, it is necessary to establish a general communication method for delivering safety information.

This document complies with the global need for a coordinated system of safety information conveyed graphically, using as little textual information as possible. when a certain

Machine safety labels containing text are used only when the required safety information cannot be communicated graphically.

Education is an essential component of any system for delivering safety information. Although safety colors and safety signs are

are essential in all information systems, but should only be used as part of workplace management practices (e.g. correct work methods, instructions and preventive measures and training).

General rules for machine safety labels for earth-moving machinery

1 Scope

This document specifies general principles and requirements for the design and use of machine safety labels securely affixed to earth-moving machinery and outlines the purpose of the marking

, specifies the basic form and color, and provides guidance for developing the individual bands of the security label.

This document applies to earth-moving machinery as defined in ISO 6165.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

ISO 6165 Basic types of earth-moving machinery identification, terms and definitions (Earth-movingmachinery-Basic types-

Note. GB/T 8498-2017 Basic type identification, terms and definitions of earth-moving machinery (ISO 6165.2012, IDT)

ISO 6750 Earth-moving machinery operator's manual content and format (Earth-movingmachinery-Operator'smanual-

Note. GB/T 25622-2010 Earth-moving machinery driver's manual content and format (ISO 6750.2005, IDT)

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

border

Edge area for safety signs and straps.

3.2

Note CAUTION

A signal word used to indicate a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

NOTE. See ISO 3864-2.

3.3

Machine safety labels combining safety symbols and/or supplementary safety information strips and/or hazard level strips on a rectangular label.

NOTE. A combined machine safety label conveys only one type of safety information.

[Source. GB/T 2893.2-2008, 3.4, modified]

3.4

Danger DANGER

Signal word used to indicate an imminently hazardous situation which, if not avoided, will result in death or serious injury.

NOTE. See ISO 3864-2.