



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

GB/T 8593.2-2021

**Earth-moving machinery - Symbols for operator controls and
other displays - Part 2: Symbols for specific machines,
equipment and accessories**

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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 of Standardization Documents"

drafted:

This document is part 2 of GB/T 8593 "Symbols for Earth-moving Machinery Driver Controls and Other Display Devices": GB/T 8593

The following sections have been published:

--- Part 1: General symbols;

--- Part 2: Special symbols for machines, working devices and accessories:

This document replaces GB/T 8593:2-2010 "Symbols for earth-moving machinery driver control devices and other display devices - Part 2: Machinery

"Special symbols for appliances, working devices and accessories", compared with GB/T 8593:2-2010, except for structural adjustment and editorial modification, the main technical

The changes are as follows:

--- Changed normative references (see Chapter 2, Chapter 2 of the:2010 edition);

--- Changed the definition of "symbol" and added the term and definition of "icon" (see Chapter 3, Chapter 3 of the:2010 edition);

--- Added descriptions for the use of symbols, the use of symbols and related words, and the visual effects of symbols (see 4:1, 4:7, 4:8 and 4:8 of Chapter 4):

4:11);

--- Added relevant instructions for the development of new symbols (see Chapter 6);

--- Added relevant instructions for the adaptation of digital display icons (see Chapter 7);

--- The total number of symbols has been increased from 189 to 312, and a detailed description of symbols has been added (see Chapter 8 ~ Chapter 25, 2010

Edition Chapter 6 ~ Chapter 20):

This document is equivalent to ISO 6405-2:2017 "Symbols for earth-moving machinery driver controls and other display devices - Part 2:

Special symbols for machines, work equipment and accessories":

Please note that some content of this document may be patented: The issuing agency of this document assumes no responsibility for identifying patents:

Introduction

GB/T 8593 "Symbols for Earth-moving Machinery Driver Control Devices and Other Display Devices" is a symbol to guide the application of earth-moving machinery products in my country

A standard for basic and generality of classes: GB/T 8593 aims to establish driver controls and other displays suitable for earth-moving machinery products

The general requirements for symbols for devices and the requirements for special symbols for specific machine families are to be composed of two parts:

--- Part 1: General symbols: The purpose is to specify the general symbols for the driver's control device and other display devices of earth-moving machinery products:

No: form, and to standardize the description, so that the driver can refer to and use:

--- Part 2: Special symbols for machines, working devices and accessories: The purpose is to specify loaders, bulldozers, graders, trenchers

Special symbols for driver controls and other displays, as well as balance outriggers, grab buckets, ground

The symbols used for special parts such as loose working devices, together with the general symbols in Part 1, are more convenient for drivers to refer to and use:

Earth-moving machinery driver controls and others

Symbols for display devices - Part 2: Machines,

Special symbols for work equipment and accessories

1 Scope

This document specifies special symbols for driver controls and other display devices of earth-moving machinery as defined in ISO 6165:

Note 1: ISO 6405-1 is a general symbol applicable to a variety of earth-moving machinery:

NOTE 2 Other internationally standardized symbols for potentially relevant earth-moving machinery can be obtained by reference to ISO 7000 and IEC 60417:

2 Normative references

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

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document:

GB/T 8593:1-2021 Symbols for earth-moving machinery driver operating devices and other display devices Part 1: General symbols

(ISO 6405-1:2017, IDT)

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

Identificationandtermsanddefinitions)

Note: GB/T 8498-2017 Earth-moving machinery basic type identification, terms and definitions (ISO 6165:2012, IDT)

IEC 80416-1 Basic Rules for Graphical Symbols for Equipment Part 1: Generation of Graphical Symbols for Registration (Basicprinciplesfor

graphicalsymbolsforuseoneequipment-Part 1:Creationofgraphicalsymbolsforregistration)

Note: GB/T 23371:1-2013 Basic Rules for Graphical Symbols for Electrical Equipment Part 1: Generation of Graphical Symbols for Registration (IEC 80416-1:2008,

IDT)

ISO 80416-2 Rules for the representation of equipment with graphic symbols - Part 2: Form and use of arrows (Basicprinciplesfor

graphicalsymbolsforuseoneequipment-Part 2:Formanduseofarrows)

Note: GB/T 16902:2-2008 Rules for the representation of equipment with graphic symbols - Part 2: Form and use of arrows (ISO 80416-2:2001, MOD)

IEC 80416-3 Basic Rules for Graphical Symbols for Equipment Part 3: Application Guidelines (Basicprinciplesforgraphicalsym-

bolsforuseoneequipment-Part 3:Guidelinesfortheapplicationofgraphicalsymbols)

Note: GB/T 23371:3-2009 Basic Rules for Graphical Symbols for Electrical Equipment Part 3: Application Guidelines (IEC 80416-3:2002, IDT)

3 Terms and Definitions

The following terms and definitions apply to this document:

3:1

symbol symbol

graphicsymbol

A non-verbal visual image used to convey information:

Note 1: It can be made by drawing, printing or other means: Letters, numbers, and mathematical symbols can be used as symbols or symbolic elements: for some specific applications

Use letter groups (eg AUTO, STOP) as symbols or symbolic elements: