



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

GB/T 8593.1-2021

**Earth-moving machinery - Symbols for operator controls and
other displays - Part 1: Common symbols**

Issued on: December 31, 2021

Implemented on: July 1, 2022

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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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 1 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 8593:1-2010 "Symbols for earth-moving machinery driver operating devices and other display devices - Part 1: General

Compared with GB/T 8593:1-2010, except for structural adjustment and editorial changes, the main technical changes are as follows:

--- Changed the definition of "symbol", added the term and definition of "icon" (see Chapter 3, 3:1, 3:2, 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 Chapter 4, 4:1, 4:7, 4:8 and 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);

--- Increased the number of symbols from 188 to 516 (see Chapter 8 ~ Chapter 20, Chapter 6 of the:2010 edition ~

Chapter 18);

--- Added a detailed description of symbols (see Chapter 8 ~ Chapter 20, Chapter 6 ~ Chapter 18 of the:2010 edition):

This document is equivalent to ISO 6405-1:2017 "Symbols for earth-moving machinery driver controls and other display devices - Part 1:

Universal Symbols":

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 1: General symbols

1 Scope

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

NOTE 1 ISO 6405-2 covers symbols for special types of earth-moving machinery, work equipment and accessories:

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:

ISO 6165 Earth-moving machinery basic types identification, terms and definitions (Earth-moving machinery - Basic types - Identification and terms and definitions)

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 (Basic principles for graphical symbols for use on equipment - Part 1: Creation of graphical symbols for registration)

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 (Basic principles for graphical symbols for use on equipment - Part 2: Form and use of arrows)

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 (Basic principles for graphical symbols for use on equipment - Part 3: Guidelines for the application of graphical symbols)

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:

NOTE 2 Letters and numbers are not registered in ISO /TC145/SC3 unless they are symbolic elements embedded in a graphic symbol, nor

Will not be published in ISO 7000: