

Guide to

**British, European and  
international graphical  
symbols, for use on  
equipment, for safety and fire  
safety, and for public  
information, in relation to  
ISO 7000 and IEC 417**

# Committees responsible for this Published Document

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- British Gas plc
- British Sign Association
- British Telecommunications plc
- Chartered Society of Designers
- Consumer Policy Committee of BSI
- Department of Transport
- Federation of the Electronics Industry
- Health and Safety Executive
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- Manchester Metropolitan University (Department of Social Science)
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## Foreword

This Published Document has been prepared by Technical Committee PSM/29. It is a guide to BS 7324, which is identical with ISO 7000 *Graphical symbols for use on equipment — Index and synopsis*, published by the International Organization for Standardization (ISO), and to BS 6217, which is identical with IEC 417 *Graphical symbols for use on equipment — Index, survey and compilation of the single sheets*, published by the International Electrotechnical Commission (IEC). This Published Document relates the graphical symbols in these two international standards to all other symbols used on equipment, for public information or for safety and fire safety signs, and standardized by ISO, IEC, CEN, and BSI.

The guide has been produced at a time when the standardization of a universal language of graphical symbols, for all applications, is of fundamental importance and has reached a crucial stage of development. The United Kingdom is itself a multilingual country, in which the use of graphical symbols can help to bridge the language gap both for industry and for the consumer. However, we need not only to bridge this gap in our own country but also in the European Community and, indeed, internationally where there are not only different languages but where we do not even share the same alphabets.

In the United Kingdom graphical symbols have developed in isolation within different industries and for different applications, some for example for use on equipment, others for use on drawings and diagrams. With the rapid advances in communication and computer technology these artificial barriers are disappearing and we find similar needs for symbols across all industries and, indeed, in our homes. Considerable progress has been made, however, in international standardization, in particular in two *basic* standards: ISO 7000 and IEC 417, which together provide a library of some 1450 symbols for use on equipment, sequentially numbered and being added to as new and additional symbols are created. A similar joint venture is now underway between ISO and IEC for graphical symbols used in technical product documentation.

The number of symbol entries, the number of standards and the number of BSI committees involved are considerable. There is a need to review existing British Standards for symbols used on equipment, some of which are obsolete, others of which can be cross-referenced to ISO 7000 and IEC 417. This guide has been produced as an aid to that end. It recognizes the need to develop symbols that are compatible between different applications. At the same time it recognizes the need not only to standardize symbols, which may be compared with words, but also to evolve a grammar or syntax. This is beginning to emerge in standards for safety signs, where colour and geometric shape add to the graphical image to define what action needs to be taken.

It is becoming increasingly important that the different elements of a symbol should themselves be standardized as is already beginning to happen, for example, in BS 1192 *Construction drawing practice Part 3 Recommendations for symbols and other graphic conventions*. This guide provides a necessary database for such developments.

Since this Published Document was approved for publication, BSI has undergone a substantial reorganization involving the renumbering of many committees and the disbandment of Councils (see, especially, 2.7). However, it was considered unhelpful to the potential users of this document to delay publication by amending these details at a late stage, particularly as further changes are still envisaged. Consideration will be given to updating this information when the document is reviewed.

The standards and symbols referred to in this document are those that were current when the document was approved for publication. The symbols are provided for illustration purposes only and are not intended for reproduction.

**Compliance with a British Standard does not of itself confer immunity from legal obligations.**



# Section 1. General

## Introduction

The sequential numbering and joint use of ISO 7000 and IEC 417, the basic standards, are unique. The standards provide a library of basic symbols that cut across industries and nations. From them selections are now being derived as can be seen in table 1. These can succeed only if they are accepted without reservation and if both images and referents are adopted without modification in all derived standards. Existing standards need to be reviewed in relation to these basic standards. The existence of incompatible graphical symbols can lead only to confusion. It is the purpose of this guide to show how other symbols relate to the basic standards, but also to suggest ways in which further symbols may be derived and the library itself developed.

## 1.1 Scope

This Published Document gives guidance concerning graphical symbols used on equipment. Such equipment ranges from machine tools to be found at work to domestic products to be found in the home. In addition guidance is given on public information symbols and symbols used on safety and fire safety signs. The document is applicable to symbols for the above used in manuals, brochures or timetables, etc. but it explicitly excludes symbols used on drawings or diagrams. For example, it excludes symbols used in technical product documentation, whether computer generated or drawn manually. The guide does not include alphanumeric symbols except when they form an essential element of an otherwise graphic set of signs or symbols.

## 1.2 Definitions

For the purposes of this Published Document, the following definitions apply.

### 1.2.1 graphical symbol

Visually perceptible figure used to transmit information independently

of language. It may be produced by drawing, printing or other means.

NOTE. Internationally standardized letter symbols according to ISO 31 and IEC 27 may be considered to be graphical symbols.

### 1.2.2 graphical symbol element

Constituent part of a symbol.

NOTE 1. A graphical symbol element with a specific meaning may be used to provide a common concept in the construction of a symbol set.

NOTE 2. Letters, numerals, punctuation marks and mathematical symbols may be used as graphical symbol elements.

### 1.2.3 original symbol

Design of a graphical symbol, prepared in accordance with ISO 3461-1 or ISO/TR 7239, used for reference or reproduction purposes.

### 1.2.4 basic symbol

Graphical symbol included in either ISO 7000 or IEC 417.

### 1.2.5 basic standard

One or other of the standards containing basic symbols.

### 1.2.6 referent

Subject represented by the symbol.

### 1.2.7 image content

Elements of a graphical symbol and their relative disposition.

### 1.2.8 standard image content

Image content as verbally described for each referent in the relevant standard.

NOTE. Mainly used for public information symbols.

### 1.2.9 guideline example

Selected graphic interpretation of the referent that conforms to the standard image content.

NOTE. Mainly used for public information symbols.

### 1.2.10 symbol entry

Each entry of a graphical symbol in a standard whether or not it is a unique image or whether it is a duplicate.

NOTE. Numbers of symbols shown against standards in section 2 refer to symbol entries.

### 1.2.11 symbol style

Presentation of the image, e.g. solid; outline; positive or negative.

### 1.2.12 symbol variant

Alternative symbol design for a referent, e.g. change of style or modification of image.

### 1.2.13 symbol function

Purpose of a symbol.

### 1.2.14 symbol field of application

Context in which the use of a symbol is appropriate.

### 1.2.15 symbol set

Family of symbols with related functions or images.

### 1.2.16 sign

Graphic presentation of a message.

NOTE. In alphanumeric form, or as a graphic symbol, or a combination of the two.

## Section 2. Assessment of standards

### 2.1 General

#### 2.1.1 Summary

In this section British, European and international standards containing graphical symbols are identified and assessed. A distinction is made between standards for symbols used on equipment and standards for public information, safety and fire safety symbols and signs. ISO 7000 and IEC 417 (together with the identical British Standards, BS 7324 and BS 6217) are jointly referred to as 'basic standards' for symbols used on equipment.

#### 2.1.2 The standards

In 2.2 all standards are listed in numerical sequence and a reference is given to their subject group. Detailed data are given on standards listed under these subjects in 2.2 to 2.4, as follows:

**2.2 Basic standards, principles, procedures and graphical symbol elements**

**2.3 Standards for graphical symbols on equipment**

**2.4 Standards for public information symbols, safety and fire safety signs**

In 2.3 standards are listed under the following headings: aircraft; communications; dental equipment; electrotechnical; food preparation; lifts and escalators; lighting; machine tools; medical equipment; office equipment; packaging; shipbuilding; textiles; vehicles; wallcoverings; and welding.

In each clause standards are listed by their identifier (number and date) and title. In addition each entry includes an abstract and notes that specifically refer to the graphical symbol content. The BSI technical committee responsible is given as is the European or International committee. Finally the number of symbols in the standard is stated. It should be noted that the only authoritative source is the standard itself.

#### 2.1.3 Standards chart

Table 1 identifies those standards for symbols that are used on equipment and indicates which are derived from or cross-referenced to ISO 7000 or IEC 417.

#### 2.1.4 Dual numbered standards

This guide is intended for persons who need to use or to understand the meaning of symbols used both in the United Kingdom and abroad and who need to know whether or not the same symbols are standardized in the UK and abroad. For this reason all international, European and British standards for graphical symbols are listed. In a number of instances, however, standards are dual numbered and the content of the international and/or European standard is identical to the British Standard. In such cases full information about the standard is given only in the international or European entry and the number of symbols is stated only once.

The following is a key to notes used on dual numbered, technically equivalent and related but not technically equivalent standards.

*Dual numbered see...:* this phrase is used for the version of a standard which has a restricted entry, and is to refer the reader to the standard that has a full entry.

*As...:* is a reference used on the full version to identify the other dual numbered standard which has only a restricted entry.

*See also...:* refers to a further standard, not dual numbered, that includes symbols similar to those shown in the entry being considered.

#### 2.1.5 Educational publications

In 2.5 are listed four publications on symbols that are produced by BSI's Education Department for schools and colleges. These publications do not have the authority of standards, but are of general interest.

#### 2.1.6 Specialized lists

In addition to the three main lists of standards three abbreviated lists are intended to assist the user of this guide in finding the appropriate standard as quickly as possible.

**2.6 Standards sorted by identifier.**

**2.7 Standards sorted by BSI councils and committees.**

**2.8 Standards sorted by International committees.**

## 2.2 Basic standards, principles, procedures and graphical symbol elements

The references at the end of each entry are the BSI committee reference; the international committee reference and the number of symbols in the standard, if any.

### 2.2.1 Basic standards

#### BS 6217 : 1981

##### Guide to graphical symbols for use on electrical equipment

Dual numbered see IEC 417-A/H

NOTE. BS 6217 is published in one looseleaf binder. It comprises summary pages of symbols at a small scale and an alphabetical index, plus original symbols shown on a grid on individual pages.

GEL/4

#### BS 7324 : 1990

##### Guide to graphical symbols for use on equipment

Dual numbered see ISO 7000

SM/29

#### IEC 417 : A (1973) to K (1991)

##### Graphical symbols for use on equipment. Index, survey and compilation of the single sheets

As BS 6217

One of the two basic standards for symbols used on equipment, from which an increasing number of other standards are derived.

NOTE 1. Symbols are numbered from 5000 (numbers below 5000 are allocated to ISO 7000). Not all numbers have, as yet, been allocated symbols.

NOTE 2. Additional symbols are included in supplements to IEC 417, which also include any revisions necessary to previous supplements so that the whole standard is constantly updated.

NOTE 3. Each supplement includes single page original symbols, a complete alphabetical index and complete summary pages of symbol images (90 per page).

GEL/4 IEC TC3

400 symbols

#### ISO 7000 : 1989

##### Graphical symbols for use on equipment - Index and synopsis

As BS 7234

One of the two basic international standards for symbols used on equipment, from which an increasing number of other standards, selected for specific purposes or users, are derived.

NOTE 1. The other standard is IEC 417. In this guide symbols derived from these two standards are referred to as base symbols.

NOTE 2. Symbols are numbered from 0 to 4999, numbers above are allocated to ISO 417.

NOTE 3. Full page original symbols are not included, but an alphabetical index and summary sheets of symbol images are.

Unlike IEC 417 the standard is revised as a whole and not in supplement form.

PSM/29 ISO TC145 1051 symbols

### 2.2.2 Principles

#### BS 6100 : Subsection 1.3.8 : 1990

##### Glossary of building and civil engineering terms

##### General and miscellaneous Parts of construction works.

##### Signs and signing.

While this Subsection of BS 6100 is primarily concerned with signs and signing it includes definitions of the following terms that concern symbols: symbol; symbol function; referent; image content; standard image content; symbol variant; symbol set; symbol field of application; guideline example.

B/500/4

#### BS 7477 : 1991

##### Guide for general principles for the creation of graphical symbols for use on equipment

Dual numbered see ISO 3461-1; IEC 416

GEL/4

#### IEC 416 : 1988

##### General principles for the creation of graphical symbols for use on equipment

Dual numbered see ISO 3461-1; BS 7477

GEL/4 IEC TC3

#### ISO 3461-1 : 1988

##### General principles for the creation of graphical symbols

##### Graphical symbols for use on equipment

As IEC 416; as BS 7477

This Part of ISO 3461 specifies the basis for the creation of graphical symbols for use on equipment. It contains rules for designing symbols, including their shape and size, and instructions for their application. Graphical symbols on equipment may be used to identify the equipment, to indicate functional states, to designate connections, to provide data on packaging or provide instructions for operation of the equipment.

NOTE. The standard does not apply to graphical symbols primarily intended for use on drawings, for use in technical product documentation or for public information.

GEL/4 ISO TC145, TC10

#### ISO 3461-2 : 1987

##### General principles for the creation of graphical symbols

##### Graphical symbols for use in technical product documentation

NOTE. This Part of ISO 3461 is a companion volume to ISO 3461 : Part 1. It is of interest for comparison of the differences and similarities of design and development between symbols on equipment and symbols on technical product documentation.

PSM/29 ISO TC145, TC10

#### ISO/TR 7239 : 1984

##### Development and principles for application of public information symbols

This Technical Report provides a set of recommended procedures to be followed and sets forth the essential technical criteria which are to be taken into account when developing or considering the use of graphical symbols as a means of visual pictorial communication.

NOTE. It is anticipated that, in due course, this technical report will be published as Part 4 of ISO 3461.

PSM/29 ISO TC145

### 2.2.3 Procedures

#### DD 182 : 1990

##### Computer graphics: procedures for registration of graphical items

Dual numbered see ISO/IEC/TR 9973

NOTE. The BSI title includes the words computer graphics

IST/30

**ISO/IEC/TR 9973 : 1988**

**Information processing - Procedures for registration of graphical items**

As DD 182

This standard details procedures for preparing, maintaining, and publishing a register of names and meanings that are assigned to graphical items. Registration procedures will not assign values of identifiers for graphical items that are defined as being workstation or implementation-dependent by specific graphics standards.

IST/31 ISO/IEC JTC1/SC24

**ISO 9186 : 1989**

**Procedures for the development and testing of public information symbols**

This standard specifies the procedure to be used in gathering information, the method to be used in testing which variant of a symbol is the most appropriate, the method to be used in testing the extent to which a variant of a symbol communicates its intended message, and the definition of the proposed standard image content of the most comprehensible symbol.

PSM/29 ISO TC145

**2.2.4 Graphic symbol elements**

**ISO 4196 : 1984**

**Graphical symbols - Use of arrows**

This standard lays down the basic principles and the proportions to be adopted when designing graphical symbols which incorporate an arrow, or arrows, to indicate various movements, forces or functions. It includes arrows for use both on equipment and on environmental signs.

PSM/29 ISO TC145, 40 symbols

**ISO/TR 10488 : 1991**

**Graphical symbols incorporating arrows - Synopsis**

This is a comprehensive collection of all symbols in ISO 7000 that incorporate arrows. Such symbols are also illustrated in the graphic index to this guide.

PSM/29 ISO TC145 119 symbols

## 2.3 Standards for graphical symbols on equipment

In table 1 standards are listed according to their relationship to ISO 7000 and IEC 417, the basic standards, which are shown in the upper band. Below are listed standards which are explicitly cross-referenced to them. In the lower band are listed those standards that are not explicitly cross-referenced to the basic standards.

| Table 1. Interrelationship of standards for graphical symbols used on equipment                                                                                            |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                |                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| CEN/CENELEC                                                                                                                                                                | BSI                                                                                                                                                                                                                                                                                                                                                                    | ISO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | IEC                                                                                                                                                                                            | ISO/IEC             |
| <b>Basic symbol standards</b>                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                |                     |
|                                                                                                                                                                            | BS 7324 : 1990<br>BS 6217 : 1981                                                                                                                                                                                                                                                                                                                                       | <b>ISO 7000 : 1989</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>IEC 417 : 1991</b>                                                                                                                                                                          |                     |
| <b>Basic symbol collections</b> (cross-referenced to ISO 7000 and IEC 417)                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                |                     |
| EN 60215 : 1989                                                                                                                                                            | BS 2481 : 2 : 1982<br>BS 3738 : 2 : 1980<br>BS 4227 : 1986<br>BS 4843 : 1987<br>BS 5478 : 3 : 1982<br>BS 5817 : 8 : 1990<br>BS 5951 : 1982<br>BS 7139 : 1989<br>BS 7143 : 1989<br>BS AU 143c : 1984<br>BS AU 206 : 2 : 1986                                                                                                                                            | ISO 1090 : 1981<br>ISO 1093 : 1981<br>ISO 2575 : 1982<br>ISO 3767-3 : 1988<br>ISO 4062 : 1977<br>ISO 5232 : 1988<br>ISO 6405-1 : 1991<br>ISO 7286 : 1986 <sup>1)</sup><br>ISO 7296-1 : 1991<br>ISO 7639 : 1985<br>ISO 9878 : 1990<br>ISO/TR 10488 : 1991                                                                                                                                                                                                                                                                    | IEC 215 : 1987<br>IEC 574-8 : 1979<br>IEC 601-1 : 1988<br>IEC 878 : 1988                                                                                                                       | ISO/IEC 6329 : 1989 |
| <b>Symbol standards</b> (not coordinated with ISO 7000 and IEC 417)                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                |                     |
| EN 30 : 1989<br>EN 60 : 1989<br>EN 115 : 1983<br>EN 153 : 1982<br>EN 233 : 1989<br>EN 234 : 1989<br>EN 235 : 1989<br>EN 24567 : 1990<br>EN 50061 : 1988<br>EN 60432 : 1988 | BS 1133 : 7.5 : 1990<br>BS 2747 : 1986<br>BS 2818 : 1 : 1985<br>BS 3510 : 1968<br>BS 3641 : 1 : 1971<br>BS 3641 : 2 : 1980<br>BS 3641 : 3 : 1973<br>BS 4040 : 1988<br>BS 4964 : 1 : 1981<br>BS 4964 : 2 : 1981<br>BS 5655 : 7 : 1983<br>BS 5656 : 1983<br>BS 5783 : 1987<br>BS 5971 : 1988<br>BS 6291 : 1983<br>BS 6309 : 1982<br>BS 6902 : 1 : 1990<br>BS 7169 : 1989 | ISO 361 : 1975<br>ISO R/369 : 1964<br>ISO 780 : 1985<br>ISO 1560 : 1985<br>ISO 1950 : 1974<br>ISO 2047 : 1975<br>ISO 2972 : 1979<br>ISO 3287 : 1978<br>ISO 3461-1 : 1988<br>ISO 3461-2 : 1987<br>ISO 3630 : 1984<br>ISO 3719 : 1982<br>ISO 3767-1 : 1991<br>ISO 3767-2 : 1991<br>ISO 4190-5 : 1987<br>ISO 4196 : 1984<br>ISO 4567 : 1978<br>ISO 5155 : 1983<br>ISO 6050 : 1987<br>ISO 6196-5 : 1987<br>ISO 6346 : 1984<br>ISO 6727 : 1981<br>ISO 9128 : 1987<br>ISO 9178-1 : 1988<br>ISO 9178-2 : 1988<br>ISO 9178-3 : 1989 | IEC 82 : 1984<br>IEC 92-203 : 1985<br>IEC 118-11 : 1983<br>IEC 268-15 : 1987<br>IEC 335-1 : 1991<br>IEC 387 : 1972<br>IEC 432 : 1984<br>IEC 598-1 : 1986<br>IEC 747-1 : 1983<br>IEC 945 : 1988 |                     |
| <sup>1)</sup> Not cross-referenced but stated to conform.                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                |                     |

### 2.3.1 Aircraft

#### ISO 1950 : 1974

##### **Aircraft - Identification of servicing, maintenance, ground handling and safety/hazard points**

This standard specifies symbols, their positions and sizes, to be used for the marking of servicing, maintenance, ground handling and safety/hazard points on aircraft. Because of the variations in the size and distribution of servicing points, the requirements of the standard may be 'interpreted liberally'.

**SIZE.** Sizes of symbols should be commensurate with legibility. Warning symbols (numbered 2.01 etc.) should be as large as possible up to 230 mm, other symbols should be approximately 100 mm in the longest dimension. Unless otherwise stated letters should be 38 mm high.

**COLOUR.** Colour coding for symbols numbered 1.01 etc. may be either black on white or white on black. Symbols numbered 2.01 etc. are coloured and as shown in the standard.

ACE/57 ISO TC20 44 symbols

### 2.3.2 Communications

#### BS 3192 : 1990

##### **Specification for safety requirements for radio transmitting equipment**

Dual numbered see IEC 215; EN 60215  
EEL/25

#### BS 5817 : Part 8 : 1990

##### **Specification for audiovisual, video and television equipment and systems Symbols and identification**

Dual numbered see IEC 574-8  
EEL/32

#### BS 6840 : Part 15 : 1988

##### **Sound system equipment Preferred matching values for the interconnection of sound system components**

Dual numbered see IEC 268-15  
NOTE. Was BS 5428: Part 10: 1979  
EEL/32

#### EN 60215 : 1989

##### **Safety requirements for radio transmitting equipment**

Dual numbered see IEC 215; BS 3192  
EEL/25 CEN TC00

#### IEC 215 : 1987

##### **Safety requirements for radio transmitting equipment**

As EN 60 215, BS 3192  
This standard derives general and safety symbols from IEC 417 with one symbol from IEC 117 and introduces symbols for the degree of protection against moisture.  
EEL/25 IEC TC12 13 symbols

#### IEC 268-15 : 1987

##### **Sound system equipment Preferred matching values for the interconnection of sound system components**

As BS 6840 : Part 15  
NOTE. This standard requires symbols to be in accordance with IEC 417.  
EEL/32 IEC TC84 19 symbols

#### IEC 574-8 : 1979

##### **Audio visual, video and television equipment and systems Symbols and identification**

As BS 5817: Part 8  
Symbols in this standard are selected from IEC 417  
EEL/32 IEC TC60 110 symbols

### 2.3.3 Dental equipment

#### BS 4227 : 1986

##### **Specification for dental mercury**

Dual numbered see ISO 1560  
AMD 6327  
HCC/53

#### BS 6815 : 1987

##### **Specification for dental root canal instruments**

Dual numbered see ISO 3630  
HCC/52

#### ISO 1560 : 1985

##### **Dental mercury**

As BS 4227  
This standard specifies requirements and test methods for mercury suitable for the preparation of dental amalgam, together with requirements for packaging and marking.

**SHAPE AND COLOUR.** The symbol should be a triangle with a skull and cross-bones, both in black with a yellow background. This is in accordance with ISO 3864 and BS 5378. These hazard warnings should be printed on a package insert or on a tag attached to the container rather than on the container itself. The hazard warnings are minimum requirements and are not intended to replace any national or regional requirements that are more demanding.  
HCC/53 ISO TC106 1 symbol

#### ISO 3630 : 1984

##### **Dental root canal instruments**

As BS 6815  
Symbols in this standard are for use on the packaging or in manufacturer's catalogues or dental literature

**COLOUR.** The handles or shanks of root canal instruments have to be designated with colours in accordance with this standard.  
HCC/52 ISO TC106 16 symbols

### 2.3.4 Electrotechnical

#### BS 5783 : 1987

##### **Code of practice for handling of electrostatic sensitive devices**

See also IEC 747-1; see also BS 6493  
AMD 4705  
**IMAGES.** Two graphic images are shown: one basic; the other simplified.  
**COLOUR AND SHAPE.** Both images are triangular with a yellow symbol and diagonal bar on black.  
ECL/17 2 symbols

#### BS 6493 : Section 1.1 : 1984

##### **Semiconductor devices Discrete devices General**

Dual numbered see IEC 747-1; see also BS 5783  
**COLOUR.** The symbols are black and yellow and are illustrated in colour.  
ECL/12

**IEC 335-1 : 1991****Safety of household and similar electrical appliances  
General requirements**

NOTE. All symbols are from IEC 417 except two quantified images based on IEC 417.  
LEL/161 IEC TC34 7 symbols

**IEC 387 : 1972****Symbols for alternating-current electricity meters**

This standard recommends letter and graphical symbols for a.c. electricity meters and their auxiliary devices. It lists basic symbols for indicating the main technical characteristics. All the symbols included may be marked on the name-plate or dial plate of the meter.

PEL/14 IEC TC13 13 symbols

**IEC 747-1 : 1983****Semiconductor devices  
Discrete devices  
General**

As BS 6493 : Section 1.1; see also BS 5783  
This standard provides a symbol and label for electrostatic sensitive devices that require special handling. The symbol is for use at the innermost practical level of packaging and on the device itself if space permits. It may also be used on data sheets, on storage bins, and on special protective wrapping materials. The symbol is intended for use where the space available does not permit the use of a label.

COLOUR. Where practicable the symbol and lettering should be black on yellow. However monochromatic reproduction in any colour that contrasts with the background may be used.

IMAGE. Two versions of the symbol are included, one of which is a simplified version intended for extreme reduction. Also given is a label which includes a warning in words. The symbol is shown in a form suitable for reproduction.

ECL/12 IEC TC47 2 symbols

**2.3.5 Food preparation****BS 6291 : 1983****Specification for household refrigerator / freezers: type I**

See also EN 153

Note. The symbol is not to use more than two colours or two contrasting finishes. The colour, or surface finish, of the large star should be different to that of the three other stars.

RHE/5 1 symbol

**EN 30 : 1989****Domestic cooking appliances burning gas**

This standard includes three symbols for use on appliances: off, full on and reduced rate are included within the text.

GSE/17 CEN TC49 3 symbols

**BS EN 153 : 1990****Methods of measuring the energy consumption of electric mains operated household refrigerators, frozen food storage cabinets, food freezers and their combinations, together with associated characteristics**

See also BS 6291

This standard includes a food freezer symbol for identification of food freezing compartments. The symbol is to be placed on the door or lid of the compartment. The construction and proportions of the symbol are given.

COLOUR. The colour (or surface finish) of the large star is to be different to the three other stars. White and black are considered as colours.

RHE/5 CEN TC44 1 symbol

**ISO 5155 : 1983****Household frozen food storage cabinets and food freezers - Essential characteristics and test methods**

See also EN 153; BS 6291

This standard includes different symbols for frozen food storage cabinets and for food freezers.

COLOUR. The symbol should not make use of more than two colours, nor two contrasting surface finishes. The colour / finish of the large star shall be different to the three other stars. White and black are considered as colours.

RHE/5 ISO TC86 2 symbols

**2.3.6 Lifts and escalators****BS 5655 : Part 7 : 1983****Lifts and service lifts  
Specification for manual control devices, indicators and additional fittings**

See also ISO 4190-5

AMD 4912: 1985

The standard includes symbols for use on lift controls.

IMAGE. The graphics image of each symbol is required to meet a 'standard' image content.

COLOUR. Is no longer specified except for a stop button used in the lift car (not illustrated).

SIZE. The minimum size of the symbols used on the control devices and indicators has to be such that the symbol is clear and legible. Minimum height of character has to be 10 mm for capital letters and numerals and 7 mm for lowercase letters. The highest control device should not exceed 1800 mm. For persons in wheelchairs devices have to be located between 900 mm and 1200 mm.

MHE/4 5 symbols

**ISO 4190-5 : 1987****Lifts and service lifts (USA: Elevators and dumbwaiters) - Control devices, signals and additional fittings**

See also BS 5655 : Part 7

This standard includes symbols for use on lift controls.

IMAGE. The symbols illustrated are intended to be typical and need not be reproduced exactly.

MHE/4 ISO TC178 7 symbols

**2.3.7 Lighting****BS 2818 : Part 1 : 1985****Ballasts for tubular fluorescent lamps  
Specification for ballasts for use internationally**

Dual numbered see IEC 82

AMD 5410

LGL/21

**BS 5971 : 1988****Specification for safety of tungsten filament lamps for domestic and similar general lighting purposes**

Dual numbered see IEC 432; EN 60432

LGL/6

**BS EN 60920 : 1991****Specification for ballasts for tubular fluorescent lamps.****General and safety requirements**

This standard for ballasts for tubular fluorescent lamps includes a number of symbols for marking ballasts according to class of protection and a symbol for independent ballasts.

LGL/21/L CEN TC34 4 symbols

**EN 60432 : 1988****Specification for safety of tungsten filament lamps for domestic and similar general lighting purposes**

Dual numbered see IEC 432. See also BS 5971

LGL/6 CEN TC00

**IEC 82 : 1984****Ballasts for tubular fluorescent lamps**

As BS 2818 : Part 1

AMD 1: 1986

This Standard for ballasts for tubular fluorescent lamps includes a number of symbols for marking ballasts according to class of protection.

NOTE. The amendment does not concern symbols

LGL/21 IEC TC34 3 symbols

### 2.3.8 Machine tools

#### BS 3641 : Part 1 : 1971.

##### Symbols for machine tools General symbols

See also ISO 7000; see also ISO/R 369  
AMD 1310, 3974

This standard specifies basic designs for symbols intended for use on machine tools. Symbols are classified as follows:

Modes: operating; movement; control; auxiliary. Elements: mechanical. Values: quantities. Actions. Safety and status indications: warnings; status indications. Compound symbols: mechanical. Examples of grouped symbols are given.

SIZE: Original symbols are based on 0.8 mm grid to achieve constant ratios.

ARROWS. See ISO 4196 :1984.

COLOUR AND SHAPE. See individual symbols in Section 3.

MTE/1 146 symbols

#### BS 3641 : Part 2 : 1980

##### Symbols for machine tools Specification for numerical control symbols

See also ISO 7000; see also ISO 2972  
AMD 3975

This standard specifies basic designs for symbols intended for use on machine tools.

NOTE. See BS 3641: Part 1.

COLOUR AND SHAPE. See individual symbols in Section 3.

MTE/1 101 symbols

#### BS 3641 : Part 3 : 1973 (1990)

##### Symbols for machine tools Additional general symbols

See also ISO 7000; see also ISO/R369  
AMD 3976

This standard specifies basic designs for symbols intended for use on machine tools.

NOTE. See BS 3641: Part 1.

COLOUR AND SHAPE. See individual symbols in Section 3.

NEGATIVE. A diagonal cross only to be used with other symbols

MTE/1 114 symbols

#### BS 3641 : Supplement : 1980

##### Symbols for machine tools Guide to application of additional symbols (and index) for machine tools

Dual numbered see PD 6490

AMD 3408

MTE/1

#### PD 6490 : 1980

##### Guide to application of additional symbols (and index) for machine tools

As BS 3641 : supplement

Amendment AMD 3408 1980

This standard specifies basic designs for symbols intended for use on machine tools.

Note. See notes to BS 3641: Part 1

MTE/1 80 symbols

#### ISO/R 369 : 1964

##### Symbols for indications appearing on machine tools

See also ISO 7000; BS 3641 : Parts 1, 2 and 3

This standard specifies symbols which may appear on machine-tool indicator plates or control buttons in order to give the operator all useful indications for the use of the machine.

Note. This is the earliest of the standards reviewed, it was published in 1964.

MTE/1 ISO TC39 84 symbols

#### ISO 2972 : 1979

##### Numerical control of machines - Symbols

See also BS 3641 : Part 2

This standard specifies a range of symbols for the identification and display of control functions on numerically controlled machine tools.

ELEMENTS. Many of the symbols are made up from certain basic symbols which are used repeatedly and consistently as the basis for symbols for related sets of functions. The arrow is one such symbol (element). It rarely appears on its own and is frequently used to qualify another symbol to which it gives additional meaning. There are two different applications of the arrow and a different form is used in each instance.

ORIENTATION. Symbols may be re-oriented when the symbolical representation is significantly different from the action or device represented.

MTE/1 ISO TC184 71 symbols

#### ISO 3719 : 1982

##### Balancing machines - Symbols for front panels

This standard establishes symbols for use on the front panels of balancing machines.

GME/21 ISO TC108 80 symbols

### 2.3.9 Medical equipment

#### BS 4843 : 1987

##### Specification for sterile intravascular cannula units for single use

This standard specifies requirements and describes methods of test for sterile intravascular cannula units for single use. It includes a symbol for single use.

HCC/27 2 symbols

#### BS 6902 : Part 1 : 1990

##### Cardiac pacemakers Specification for implantable cardiac pacemakers

Dual numbered see EN 50061

This standard includes a symbol prohibiting the use of pacemakers, together with informative symbols e.g. for programmable or non-programmable pacemakers.

HCC/92

#### BS 7139 : 1989

##### Guide to graphical symbols for use on medical electrical equipment

Dual numbered see IEC 878

HCC/62

#### BS 7143 : 1989

##### Specification for catheter mounts (flexible adaptors) for use with medical breathing systems

This standard specifies requirements for catheter mounts (flexible adaptors) intended to connect anaesthetic or ventilator breathing systems to tracheal or tracheostomy tube connectors. It includes a symbol for single use.

HCC/45 1 symbol

#### EN 50061 : 1988

##### Cardiac pacemakers. Specification for implantable cardiac pacemakers

As BS 6902 : Part 1

This standard specifies safety and other requirements exclusively for all types of wholly implantable cardiac pacemakers, including symbols one of which is a prohibition symbol.

NEGATIVE. The Standard includes a prohibitive sign (shape as BS 5378).

HCC/92 CEN TC00 11 symbols

**IEC 118-11 : 1983****Hearing aids****Symbols and other markings on hearing aids and related equipment**

This standard provides symbols and markings for the benefit of users and those involved in the fitting of hearing aids and related equipment. It defines markings for gain controls, output controls, tone controls, switches, selectors, pre-set controls, characteristics of earphones and polarity of batteries.

COLOUR. The use of colour coding, such as differently coloured dots, is not generally recommended in this standard because many persons have deficient colour vision.

LGL/6 IEC TC29 10 symbols

**IEC 601-1 : 1988****Medical electrical equipment****General requirements for safety**

This standard includes an annex on symbols mostly from IEC 417.

MAGE. For requirements not met by the symbols in this standard refer to published EC or ISO symbols. Where necessary two or more symbols may be grouped together to convey a particular meaning and as long as the essential communicative characteristics of the basic symbols are maintained, some attitude in graphic design is permissible.

HCC/64 IEC TC62 25 symbols

**IEC 878 : 1988****Graphical symbols for electrical equipment in medical practice**

As BS 7139

A symbol selection for electrical equipment in medical practice largely from IEC 417, in five sections:

- 1 General symbols
- 2 Symbols to identify the classification of equipment
- 3 Safety symbols
- 4 Symbols for ionizing radiation equipment
- 5 Symbols for display, communication and recording.

COLOUR AND SHAPE. Symbols in section 3 may be incorporated within safety signs, in which case the symbol will be black and contained within a black triangular band on a yellow background. (See ISO 3864 and BS 5378.)

HCC/62 IEC TC62 196 symbols

**2.3.10 Office equipment****BS 2481 : Part 2 : 1982****Typewriters****Specification for function key symbols**

Dual numbered see ISO 1090

IST/18

**BS 3738 : Part 2 : 1980****Dictation equipment. Part 2.****Specification****for symbols**

Dual numbered see ISO 4062

IST/3

**BS 5478 : Part 3 : 1982****Calculators and adding machines****Specification for keypad and printed or display symbols**

Dual numbered see ISO 1093

IST/18

**ISO 1090 : 1981****Office machines and data processing equipment - Function key symbols on typewriters.**

As BS 2481 : Part 2

This standard specifies the symbols that are to be used to identify the function keys of typewriters where symbols rather than words are employed for this purpose.

NOTE. Although alpha numeric symbols are included in ISO 1090, as well as graphical symbols, they are not included in this guide.

IST/18 ISO TC97 9 symbols

**ISO 1093 : 1981****Adding machines and calculating machines - Keypad and printed or displayed symbols**

As BS 5478 : Part 3

This standard specifies the keypad and printed or displayed symbols that shall be used on adding machines and calculating machines.

NOTE. This is a symbol selection derived from ISO 7000 and IEC 417, with two alpha - numeric additions.

IST/18 ISO TC97 15 symbols

**ISO 2047 : 1975****Information processing - Graphical representations for the control characters of the 7-bit coded character set**

The symbols are for use for display of control characters on devices when the graphical representation of these normally non-printing characters is required. Among the devices included are paper tape, printers and CRT equipment.

IST/2 ISO TC97 35 symbols

**ISO 4062 : 1977****Dictation equipment - Symbols**

As BS 3738 : Part 2

This standard specifies the symbols that shall be displayed on dictation equipment where these are used for the marking of controls and certain other parts of machines.

IMAGE. Lack of space etc. may preclude the use of exact replicas of the symbols, in which case the design of the symbol may be modified. Such modification should be as slight as is practical and the symbol must still clearly convey the intended meaning.

IST/3 ISO TC97 36 symbols

**BS 6054 : Part 5 : 1988****Glossary of terms for micrographics****Quality of images, legibility, inspection**

Dual numbered see ISO 6196-5

DOT/16

**ISO 6196 : 5: 1987****Micrographics - Vocabulary -****Quality of images, legibility, inspection**

As BS 6054 : Part 5

This standard includes a standard ISO character for use on test charts used in determining the quality of images, legibility and inspection in micrographics.

NOTE. The symbol (ISO character) is used to form 'words', which for test purposes consist of a group of at least four ISO characters of the same size, randomly orientated.

DOT/16 ISO TC171 1 symbol

**ISO 9178 - 1 : 1988****Templates for lettering and symbols - General principles and identification markings**

This standard includes identification marks, which indicate to the user the correct writing instrument(s) to be used with templates.

NOTE. The nominal size of line thickness is marked on the template together with the symbol representing the different lettering / draughting instrument.

GME/30 ISO TC10 8 symbols

**ISO 9878 : 1990****Micrographics - Graphical symbols for use in microfilming**

This standard covers graphical symbols which may be used in micrographics to convey information concerning the condition of the original document, the production and use of microforms.

NOTE. This is a symbol selection derived from ISO 7000. In addition to the symbol image and referent the application and location are given.

DOT/16 ISO TC171 13 symbols

### 2.3.11 Packaging

#### ISO 780 : 1985

##### Packaging - Pictorial marking for handling of goods

As BS 2770

This standard specifies a set of symbols, conventionally used for marking of transport packages to convey handling instructions. It applies to packages containing any kind of goods, but does not include instructions specific to the handling of dangerous goods. COLOUR. The colour to be used for the symbol is black. If necessary for clarity the symbol may be used on a panel of contrasting colour, preferably white. SIZE. For normal purposes the overall sizes of symbols are 100 mm, 150 mm or 200mm. However the size or shape of package may necessitate the use of larger or smaller symbols.

STYLE. Examples are given for symbols using stencils.

PKM/50 ISO TC122 30 symbols

#### ISO 6346 : 1984

##### Freight containers - Coding, identification and marking

This Standard includes two symbol/signs: one to denote an air/surface container (with stacking limitations) the other an electrical warning sign (similar to ISO 3864).

SIZE. Sizes are given for the two symbol/signs.

PKM/50 ISO TC104 2 symbols

### 2.3.12 Shipbuilding

#### BS 7162 : 1990

##### Specification for waste water fittings on yachts

Dual numbered see ISO 4567; EN 24567

This standard includes a single symbol for marking waste water fittings that comply with the standard.

GME/33

#### BS 7169 : 1989

##### Specification for general requirements for marine navigational equipment

Dual numbered see IEC 945

EEL 30

#### EN 24567 : 1990

##### Shipbuilding; yachts; waste water fittings

Dual numbered see ISO 4567; BS 7162

GME/33 CEN TC00

#### IEC 92-203 : 1985

##### Electrical installations in ships System design - Acoustic and optical signals

This standard specifies acoustic and optical signals, and indications, used in connection with the safety of passengers, crew, ship and her installations. It includes examples of symbols for status indications.

NOTE. Alarm and call signals are predominantly acoustic. Optical signals have to be clearly visible and distinguishable in all spaces where persons may be normally expected to be.

PEL/93 IEC TC18 8 symbols

#### IEC 945 : 1988

##### Marine navigational equipment General requirements Methods of testing and required test result

As BS 7169

This standard includes symbols for classes of equipment.

NOTE. No information is given concerning the application of the symbols.

EEL/30 IEC TC80 3 symbols

#### ISO 4567 : 1978

##### Shipbuilding; Yachts - Waste water fittings

As EN 24567; as BS 7162

This standard specifies the main characteristics for waste water pump-out fittings on board yachts. Fittings complying with the standard have to be marked with the symbol specified.

NOTE. The symbol has to be placed visibly on the flange or on the cap in the absence of a flange.

GME/33 ISO TC188 1 symbol

#### ISO 6050 : 1987

##### Shipbuilding - Bulbous bow and side thruster symbols

This standard specifies the symbols for bulbous bow and side thruster to be used on ships' hulls to indicate their presence.

SIZE. The minimum sizes of symbol are given. In larger versions the proportions of the symbol are to be retained.

COLOUR. The colour of the symbol is to contrast with the background

GME/32 ISO TC8 2 symbols

### 2.3.13 Textiles

#### BS 2747 : 1986

##### Code of practice for textile care labelling

AMD 5529: 1986

This Standard specifies a system of graphical symbols and phrases to explain and augment the symbols, intended for use in the permanent marking of textile articles, providing information essential for their care.

NOTE. The relationship of these symbols to those proposed by ISO and used by Ginetex is given in an appendix.

NEGATIVE. A superimposed diagonal cross is used to indicate that the treatment should not be used.

SIZE. The size of symbols should correspond to the graphic images in the standard.

TCM/41 31 symbols

#### BS 5951 : 1982

##### Schedule of graphic symbols for machinery in the textile industry

See also ISO 5232

The symbols in this standard are intended to be placed on equipment in order to instruct persons handling it as to their setting in operation and functioning, or to be used for the representation of a state, a function or an operation wherever this may be, and in documents such as drawings, maps and diagrams.

NOTE. A symbol selection derived from ISO 7000 and IEC 417. It includes more symbols than ISO 5232 and is in a format that is more normally associated with the ISO 7000/IEC 417 summary format than ISO 5232 despite its date.

TCM/33 251 symbols

**ISO 5232 : 1988****Graphical symbols for textile machinery**

See also BS 5951

The symbols in this standard are intended to be placed on equipment in order to instruct persons handling it as to their setting in operation and functioning, or to be used for the representation of a state, a function or an operation wherever this may be, and in documents such as drawings, maps and diagrams.

NOTE. The symbol selection is derived from ISO 7000 and IEC 417. The symbols are classified as either basic or particular.

TCM/33 ISO TC72 233 symbols

**2.3.14 Vehicles****BS 4040 : 1988****Specification for leaded petrol (gasoline) for motor vehicles**

This standard specifies requirements for three grades of leaded petrol that cover the current range of quality retailed in the United Kingdom for use in petrol engine vehicles and provides for a storage grade. Symbols for three grade designations are included in the standard.

SIZE. It is recommended that the size of each star should be between 40 mm and 80 mm diameter.

PTC/11 3 symbols

**BS 4964 : Part 1 : 1981****Symbols for control markings and displays on tractors and machinery for agriculture and forestry, and on powered lawn and garden equipment**  
**Schedule of common symbols**

See also ISO 3767-3

This part of BS 4964 specifies symbols which may be common on controls and displays for tractors and machinery for use with agricultural, forestry, powered lawn and garden equipment.

Symbols are classified either as operator's controls or as other than operator's controls.

NOTE. Combined symbols are not numbered.

ARROWS. The standard was published before ISO 4196 : 1984, the standard for arrows.

STYLE. Both positive and outline variants are given for some lamp symbols.

SCALE. Two variants, one simplified, are given for seat belt.

ELEMENTS. The symbol for oil appears to be upside down, when compared with other oil symbols.

AGE/26 173 symbols

**BS 4964 : Part 2 : 1981****Symbols for control markings and displays on tractors and machinery for agriculture and forestry, and on powered lawn and garden equipment**  
**Schedule of symbols for agricultural tractors and machines**

See also ISO 3767-3

This Part of BS 4964 specifies symbols for controls and displays for agricultural tractors and machines. The symbols are supplementary to those given in Part 1.

NOTE. Symbols relate to those controls of machines that are actuated by the operator.

Symbols may also be used on the relative indicators and instruments.

STYLE. Buckets, tables and grabs may be shown solid or in outline.

AGE/26 24 symbols

**BS 5829 : 1979****Specification for control systems for powered industrial trucks**

Dual numbered see ISO 3287

MHE/7

**BS 6309 : 1982****Specification for symbols for operator controls and for controls other than operator controls for use on earth-moving machinery**

See also ISO 6405-1 : 1991

NOTE. This standard was dual numbered with ISO 6405. The international standard is being revised and re-issued in parts.

Earth-moving machinery - Symbols for operator controls and other displays -

Common symbols was published in 1991.

For the time-being both standards need to be read together.

B/513/1 171 symbols

**BS AU 143c : 1984****Specification for symbols for controls, indicators and tell-tales for road vehicles**

Dual numbered see ISO 2575

AUE/12

**BS AU 143c : Extract : 1984****Print of symbols for reproduction purposes**

AUE/12

**BS AU 206 : Part 2 : 1986****Diagnostic systems for road vehicles**  
**Specification for graphical symbols for diagnostic testers**

Dual numbered see ISO 7639

AUE/16

**BS AU 229 : 1989****Specification for graphical symbols to designate brake fluid types in road vehicles**

Dual numbered see ISO 9128

RUM/40

**ISO 2575 : 1982****Road vehicles - Symbols for controls, indicators and tell-tales**

As BS AU 143c

This standard specifies the symbols, i.e. conventional signs, with which certain controls, indicators and tell-tales of a road vehicle are to be provided in order to ensure their identification and facilitate their utilization. It also indicates colours where appropriate. It is applicable to those controls, indicators and tell-tales fitted on the instrument panel, or in the immediate vicinity of the driver.

NOTE. This symbol selection is derived from ISO 7000 and IEC 417. Detailed guidance on the use of symbols includes the following. The symbols are to be as given, except for deviations to reproduce an accurate representation of the driver's line of vision. If a vehicle is shown in side view it should be shown driving from right to left. If it is shown in plan it should be moving upwards. Symbols have to contrast well with their background and be recognizable by the driver from the seated position.

AUE/12 ISO TC22 53 symbols

**ISO 3287 : 1978****Powered industrial trucks - Control symbols**

As BS 5829

Symbols in this standard are classified in three groups: for load handling; for other operator controls involving action; for information or identification only.

NOTE. Detailed information on the use and location of symbols is given.

STYLE. Examples are given of symbols in white on a black control knob.

MHE/7 ISO TC110 71 symbols

**ISO 3767-1 : 1991****Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays - Common symbols.**

See also BS 4964 : Part 1

ADD 1: 1985 (11 symbols, included in total below).

This standard specifies common symbols for use on all types of agricultural and forestry tractors and machinery, and powered lawn and garden equipment. Symbols are divided into two groups: those for operator controls and those for other than operator controls.

NOTE. Detailed guidance on the use of symbols includes the following. The symbols are to be as given except for deviations necessary to reproduce an accurate representation in the operator's line of sight. If a machine is shown in side view it should be shown driving from right to left. Symbols on controls have to have a good contrast to their background. Focused light shall be represented by parallel rays and diffuse light by divergent rays.

AGE/26 ISO TC23 63 symbols

**ISO 3767-2 : 1991**

**Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays - Symbols for agricultural tractors and machinery**

See also BS 4964 : Part 2

ADD 1: 1985 (6 symbols included in the total below).

This Part of this ISO 3767-2 specifies symbols additional to those in Part 1.

NOTE. See Part 1

AGE/26 ISO TC23 24 symbols

**ISO 3767-3 : 1988**

**Tractors, machinery for agriculture and forestry, powered lawn and garden equipment**

**Symbols for operator controls and other displays**

**Symbols for powered lawn and garden equipment**

This Part of the standard specifies two additional symbols to those in Parts 1 and 2.

NOTE. See Parts 1 and 2.

AGE/26 ISO TC23 2 symbols

**ISO 6405-1: 1991**

**Earth-moving machinery**

**Symbols for operator controls and other displays**

**Common symbols**

See also BS 6309

This standard specifies symbols for operator controls and for controls other than operator controls, for use on earth-moving machines.

NOTE. This standard includes more detailed guidance on application than any other ISO/IEC referenced graphical symbols standard to date. It needs to be read in the original.

B/513/1 ISO TC127 141 symbols

**ISO 6727 : 1981**

**Road vehicles - Motorcycles - Symbols for controls, indicators and telltales**

This standard specifies the symbols, i.e. conventional signs, used to identify certain controls, indicators and telltales on a motorcycle and to facilitate their usage.

IMAGE. Detailed guidance on the use of symbols includes the following. Symbols are to be such that, when viewed by the driver from the normal seated position, they are recognizable as shown in the standard.

COLOUR. Symbols on controls have to have a good contrast with their background.

NOTE. The symbol must be placed on, or adjacent to, the control or telltale to be identified. Where this is not possible, the symbol and the control has to be joined by a continuous line as short as possible. If in a symbol, a motorcycle is shown in side view, it should be shown driving from right to left.

AVE/12 ISO TC22 22 symbols

**ISO 7296-1 : 1991**

**Cranes**

**Graphic symbols**

**General**

This part of ISO 7296 establishes general graphic symbols for use on the control of cranes. It also indicates colour for control buttons and signal lamps.

Symbols are divided into three groups:

Symbols for basic directions of motion and on/off positions.

Symbols for operator controls.

Information symbols.

MHE/3 ISO TC96 55 symbols

**ISO 7639 : 1985**

**Road vehicles - Diagnostic systems - Graphical symbols**

As BS AU 206 : Part 2

This standard specifies graphical symbols for diagnostic testers; marking of controls, indicators and tell-tales; use for indications on screens, and similar variable indicating systems; marking of connections and other input and output openings.

NOTE. The symbol selection is derived from ISO 7000 and IEC 417.

AUE/16 ISO TC22 92 symbols

**ISO 9128 : 1987**

**Road vehicles - Graphical symbols to designate brake fluid types**

As BS AU 229

This standard specifies the graphical symbols and colours to be used to identify, on road vehicles, the correct type of fluid to be used for petroleum-base brake fluid systems and non-petroleum-base brake fluid systems.

NEGATIVE. Symbols may be used with a deletion sign (not illustrated).

NOTE. At least one appropriate symbol has to be clearly visible and obviously associated with the brake fluid reservoir. The symbols(s) have to be durable and permanently affixed, engraved or embossed on or within 100 mm of the brake fluid reservoir filler cap. Minimum sizes and colours are stated.

RUM/40 ISO TC22 2 symbols

**2.3.15 Wallcoverings**

**BS 1248 : Part 1 : 1990**

**Wallcoverings in roll form Vocabulary and symbols**

Dual numbered see EN 235 : 1989

This is one of three Standards for wallcoverings. The symbols used for marking purposes are primarily for information of the consumer and to enable optimum use to be made of the product.

NOTE. The symbols cover the following subjects: spongeability; washability; colour fastness to light; pattern matching; means of application; method of removal; miscellaneous.

CCM/35

**BS 1248 : Part 2 : 1990**

**Wallcoverings in roll form**

**Specification for finished wallpapers, wall vinyls and plastics wallcoverings**

Dual numbered see EN 233 : 1989

This is one of three standards for wallcoverings. The symbols used for marking purposes are primarily for information of the consumer and to enable optimum use to be made of the product.

NOTE. The symbols cover the following subjects: spongeability; washability; colour fastness to light; pattern matching; means of application; method of removal; miscellaneous.

CCM/35

**BS 1248 : Part 3 : 1990**

**Wallcoverings in roll form**

**Specification for wallcoverings for subsequent decoration.**

Dual numbered see EN 234 : 1989

This is one of three standards for wallcoverings. The symbols used for marking purposes are primarily for information of the consumer and to enable optimum use to be made of the product.

NOTE. The symbols cover the following subjects: pattern matching; means of application; method of removal; miscellaneous.

CCM/35

**EN 233 : 1989**

**Wallcoverings in roll form**

**Specification for finished wallpapers, wall vinyls and plastics wallcoverings**

As BS 1248 : Part 2 : 1990

This is one of three Standards for wallcoverings. The symbols used for marking purposes are primarily for information of the consumer and to enable optimum use to be made of the product.

NOTE. The symbols cover the following subjects: spongeability; washability; colour fastness to light; pattern matching; means of application; method of removal; miscellaneous.

CCM/35 CEN TC99 18 symbols

**EN 234 : 1989**

**Wallcoverings in roll form**

**Specification for wallcoverings for subsequent decoration.**

As BS 1248 : Part 3 : 1990

This is one of three standards for wallcoverings. The symbols used for marking purposes are primarily for information of the consumer and to enable optimum use to be made of the product.

NOTE. The symbols cover the following subjects: pattern matching; means of application; method of removal; miscellaneous.

CCM/35 CEN TC99 12 symbols

**EN 235 : 1989****Wallcoverings in roll form****Vocabulary and symbols**

As BS 1248 : Part 1 : 1990

This is one of three Standards for wallcoverings. The symbols used for marking purposes are primarily for information of the consumer and to enable optimum use to be made of the product.

NOTE 1. The symbols cover the following subjects: spongeability; washability; colour fastness to light; pattern matching; means of application; method of removal; miscellaneous.

NOTE 2. The reproduction of symbols in EN 233, 234 and 235 is not very legible, see BS 1248 : Part 1 for original reproduction.

CCM/35      CEN TC99      23 symbols

**2.3.16 Welding****ISO 7286 : 1986****Graphical symbols for resistance welding equipment**

As 85/79640

This standard covers graphical symbols which are placed on resistance welding equipment, e.g. indicators and operator's controls, in order to instruct the persons handling the equipment as to its use and operation.

NOTE. Attention should be paid, when using symbols which are dependent on their position, to avoiding misunderstanding (see also ISO 3461).

WEE/26      ISO TC44      33 symbols

## 2.4 Standards for public information symbols, safety and fire safety signs

The references at the end of each entry are the BSI committee reference, the international committee reference and the number of symbols in the standard, if any.

### 2.4.1 Public information

#### BS 6034 : 1990

##### Specification for public information symbols

Dual numbered see ISO 7001  
PSM/29

#### ISO 7001 : 1990

##### Public information symbols

As BS 6034

This standard specifies the image content of graphical symbols used for the information of the public. The fields of application specified for each graphical symbol are indicative of the way it is intended that the symbols should be used; their application may be extended into other fields where this is considered appropriate.

IMAGE. Each symbol is reproduced on an A4 page and a guide-line example given. In some instances a simplified guide-line example for use in small sizes is also given. SIZE. The size of each guide-line example given is 45 mm.

PSM/29 ISO TC145 50 symbols

### 2.4.2 Safety

#### BS 3510 : 1968

##### Specification for a basic symbol to denote the actual or potential presence of ionizing radiation

See also ISO 361; see also BS 5378 : Part 1  
This standard specifies the shape and proportions of the basic symbol for signifying ionizing radiation or radioactive materials

COLOUR. The symbol is black and the background yellow. (In places of work the symbol is normally used within a black triangular band, see BS 5378 : 1)

NCE/1 2 symbols

#### BS 5378 : Part 1 : 19804.1

##### Safety signs and colours

##### Specification for colour and design

See also ISO 3864  
AMD 5483

This Part of BS 5378 specifies a system of safety colours and safety signs for giving information for use in the prevention of accidents, for warning of health hazards and for meeting certain emergencies. It is the basic standard in this country to which all safety, fire safety and similar standards relate.

NOTE. The safety signs in this Part of the Standard are called up in UK legislation and their use, in certain circumstances, is mandatory.

COLOUR AND SHAPE. The colour and geometric shape of individual symbols are identified in section 3 of this guide.

PSM/12 23 symbols

#### BS 5378 : Part 2 : 1980

##### Safety signs and colours

##### Specification for colorimetric and photometric properties of materials

See also ISO 3864  
AMD 4188, 5484

This Part of BS 5378 specifies the colorimetric and photometric properties of materials and gives the preferred sizes for safety signs complying with the requirements of other parts.

NOTE. See BS 5378: Part 1.

PSM/12

#### BS 5378 : Part 3 : 1982

##### Safety signs and colours

##### Specification for additional signs to those given in BS 5378 : Part 1

This Part of BS 5378 specifies signs that are additional to those given in Part 1, but utilizes the principles of sign design and colour contained in that same part.

COLOUR AND SHAPE. The colour and geometric shape of individual symbols are identified in section 3 of this guide.

PSM/12 28 symbols

#### BS 5656 : 1983

##### Safety rules for the construction and installation of escalators and passenger conveyors

Dual numbered see EN 115  
MHE/4

#### EN 115 : 1983

##### Safety rules for the construction and installation of escalators and passenger conveyors

As BS 5656

This standard includes pictograms to be used on escalators.

SIZE. The size of pictograms has to be not less than 80 mm x 80 mm.

COLOUR. Symbols are blue on a white background, a diagonal cross is in red. (These colours do not conform to ISO 3864 or BS 5378.)

MHE/4 CEN TC10 3 symbols

#### ISO 361 : 1975

##### Basic ionizing radiation symbol

See also BS 3510

This standard specifies the shape and proportions of the basic symbol for signifying ionizing radiation or radioactive materials

NOTE. The symbol has to be as prominent as is practical and of a size consistent with the size of the equipment or material to which it is affixed and provided that the symbol can be read from a safe distance. Appropriate wording or other symbols may be used in association with the basic symbol for specified purposes, but should not detract from the clarity of the basic symbol.

COLOUR. Not specified.

NCE/1 ISO TC85 1 symbol

#### ISO 3864 : 1984

##### Safety colours and safety signs

See also BS 5378 : Part 1

This standard specifies safety colours and safety signs for the purposes of preventing accidents and health hazards and meeting emergencies.

PSM/12 ISO TC145 15 symbols

### 2.4.3 Fire safety

#### BS 5499 : Part 1 : 1990

##### Fire safety signs, notices and graphic symbols

##### Specification for fire safety signs

See also ISO 6309

This Part of BS 5499 specifies the characteristics of fire safety signs that are displayed to give information on fire precautions, fire equipment and means of escape in case of fire. It includes those signs from ISO 6309 that are applicable in this country. It conforms to the principles of sign design and colour specified in BS 5378: Part 1. However, it adds an additional category for fire equipment.

NOTE. Supplementary signs are required to be used with exit symbols.

ELEMENTS. BS 5499 is developed from ISO 6309 and takes the design of fire equipment signs further to include the flames element first tested for the fire extinguisher symbol in ISO 7001. When graphical symbols have yet to be developed, signs include alphanumerics within the safety colours and geometric shapes of the safety sign system.

FSM/11

44 symbols

#### ISO 6309 : 1987

##### Fire protection - Safety signs

See also BS 5499 : Part 1

This standard specifies signs for use in the field of fire protection and fire fighting. Its field of application extends, as widely as possible, to all situations in which it is necessary or desirable to indicate publicly the location and nature of, means of giving warning of fire, means of escape from fire, means of fire-fighting, means of preventing fire spreading and areas or materials of special fire risk.

NOTE. BS 5499 is developed from this standard and takes the design of fire equipment signs further to include the flames element, first tested internationally for recognition, for the fire extinguisher symbol in ISO 7001

FSM/11 ISO TC21

24 symbols

## 2.5 Education publications on graphical symbols

These publications are not British Standards. They are derived documents produced by BSI's Education Department for use in schools and colleges.

### 2.5.1 Symbols

#### PP 666 : 1991

##### Language of labels

NOTE. Illustrations and explanations are given for a wide range of the marks and labels found on everyday household products.

BSI Edn

#### PP 787: 1988

##### Standards and textiles

NOTE. Covers safety, sizes, labels and test methods, with practical classroom projects.

BSI Edn

#### PP 7307 : 1987

##### Graphical symbols for use in schools and colleges

NOTE. This is intended as a reference manual of graphical symbols selected from a number of British Standards, together with examples of diagrams and background information.

BSI Edn

### 2.5.2 Ergonomics

#### PP 7317 : 1987

##### Ergonomics - standards and guidelines for designers

by Stephen Pheasant

NOTE. Although primarily concerned with ergonomics this book includes a chapter on symbols as used to transmit messages independently of written language.

BSI Edn

## 2.6 Standards sorted by identifier

The following is a comprehensive list of standards for graphical symbols used on equipment, for public information, safety and fire safety listed in numerical sequence by identifier. Detailed information on standards is given in 2.2 to 2.5 in the subject groups shown in *italics* below.

### 2.6.1 BSI standards

#### BS 1133 : Subsection 7.5 : 1990

Packaging code.  
Paper and board wrappers, bags and containers  
Fibreboard cases and fitments  
*Packaging*

#### BS 1248 : Part 1 : 1990

Wallcoverings in roll form  
Vocabulary and symbols  
Dual numbered see EN 235 : 1989  
*Wallcoverings*

#### BS 1248 : Part 2 : 1990

Wallcoverings in roll form  
Specification for finished wallpapers, wall vinyls and plastics wallcoverings  
Dual numbered see EN 233 : 1989  
*Wallcoverings*

#### BS 1248 : Part 3 : 1990

Wallcoverings in roll form  
Specification for wallcoverings for subsequent decoration.  
Dual numbered see EN 234 : 1989  
*Wallcoverings*

#### BS 2481 : Part 2 : 1982

Typewriters  
Specification for function key symbols  
Dual numbered see ISO 1090  
*Office equipment*

#### BS 2747 : 1986

Code of practice for textile care labelling  
*Textiles*

#### BS 2770 : 1986

Specification for pictorial marking of handling instructions for goods in transit  
Dual numbered see ISO 780  
*Packaging*

#### BS 2818 : Part 1 : 1985

Ballasts for tubular fluorescent lamps  
Specification for ballasts for use internationally  
Dual numbered see IEC 82  
*Lighting*

#### BS 3192 : 1990

Specification for safety requirements for radio transmitting equipment  
Dual numbered see IEC 215; EN 60215  
*Communications*

#### BS 3510 : 1968

Specification for a basic symbol to denote the actual or potential presence of ionizing radiation  
See also ISO 361; see also BS 5378 : Part 1  
*Safety*

#### BS 3641 : Part 1 : 1971.

Symbols for machine tools  
General symbols  
See also ISO 7000; see also ISO/R 369  
*Machine tools*

#### BS 3641 : Part 2 : 1980

Symbols for machine tools  
Specification for numerical control symbols  
See also ISO 7000; see also ISO 2972  
*Machine tools*

#### BS 3641 : Part 3 : 1973 (1990)

Symbols for machine tools  
Additional general symbols  
See also ISO 7000; see also ISO/R369  
*Machine tools*

#### BS 3641 : Supplement : 1980

Symbols for machine tools  
Guide to application of additional symbols (and index) for machine tools  
Dual numbered see PD 6490  
*Machine tools*

#### BS 3738 : Part 2 : 1980

Dictation equipment. Part 2. Specification for symbols  
Dual numbered see ISO 4062  
*Office equipment*

#### BS 4040 : 1988

Specification for leaded petrol (gasoline) for motor vehicles  
*Vehicles*

#### BS 4227 : 1986

Specification for dental mercury  
Dual numbered see ISO 1560  
*Dental equipment*

#### BS 4843 : 1987

Specification for sterile intravascular cannula units for single use  
*Medical equipment*

#### BS 4964 : Part 1 : 1981

Symbols for control markings and displays on tractors and machinery for agriculture and forestry, and on powered lawn and garden equipment  
Schedule of common symbols  
See also ISO 3767-3  
*Vehicles*

#### BS 4964 : Part 2 : 1981

Symbols for control markings and displays on tractors and machinery for agriculture and forestry, and on powered lawn and garden equipment  
Schedule of symbols for agricultural tractors and machines  
See also ISO 3767-3  
*Vehicles*

#### BS 5378 : Part 1 : 1980

Safety signs and colours  
Specification for colour and design  
See also ISO 3864  
*Safety*

#### BS 5378 : Part 2 : 1980

Safety signs and colours  
Specification for colorimetric and photometric properties of materials  
See also ISO 3864  
*Safety*

#### BS 5378 : Part 3 : 1982

Safety signs and colours  
Specification for additional signs to those given in BS 5378 : Part 1  
*Safety*

#### BS 5478 : Part 3 : 1982

Calculators and adding machines  
Specification for keypad and printed or display symbols  
Dual numbered see ISO 1093  
*Office equipment*

#### BS 5499 : Part 1 : 1990

Fire safety signs, notices and graphic symbols  
Specification for fire safety signs  
See also ISO 6309  
*Fire safety*

#### BS 5655 : Part 7 : 1983

Lifts and service lifts  
Specification for manual control devices, indicators and additional fittings  
See also ISO 4190-5  
*Lifts and escalators*

#### BS 5656 : 1983

Safety rules for the construction and installation of escalators and passenger conveyors  
Dual numbered see EN 115  
*Lifts and escalators*

**BS 5783 : 1987**

Code of practice for handling of electrostatic sensitive devices  
See also IEC 747-1; see also BS 6493  
*Electrotechnical*

**BS 5817 : Part 8 : 1990**

Specification for audiovisual, video and television equipment and systems  
Symbols and identification  
Dual numbered see IEC 574-8  
*Communications*

**BS 5829 : 1979**

Specification for control systems for powered industrial trucks  
Dual numbered see ISO 3287  
*Vehicles*

**BS 5951 : 1982**

Schedule of graphic symbols for machinery in the textile industry  
See also ISO 5232  
*Textiles*

**BS 5971 : 1988**

Specification for safety of tungsten filament lamps for domestic and similar general lighting purposes  
Dual numbered see IEC 432; EN 60432  
*Lighting*

**BS 6034 : 1990**

Specification for public information symbols  
Dual numbered see ISO 7001  
*Public information*

**BS 6054 : Part 5 : 1988**

Glossary of terms for micrographics  
Quality of images, legibility, inspection  
Dual numbered see ISO 6196-5  
*Office equipment*

**BS 6100 : Subsection 1.3.8 : 1990**

Glossary of building and civil engineering terms  
General and miscellaneous  
Parts of construction works.  
Signs and signing.  
*Procedures*

**BS 6217 : 1981**

Guide to graphical symbols for use on electrical equipment  
Dual numbered see IEC 417-A/H  
*Basic standards*

**BS 6291 : 1983**

Specification for household refrigerator / freezers: type I  
See also EN 153  
*Food preparation*

**BS 6309 : 1982**

Specification for symbols for operator controls and for controls other than operator controls for use on earth-moving machinery  
See also ISO 6405-1 : 1991  
*Vehicles*

**BS 6493 : Section 1.1 : 1984**

Semiconductor devices  
Discrete devices  
General  
Dual numbered see IEC 747-1; see also BS 5783  
*Electrotechnical*

**BS 6815 : 1987**

Specification for dental root canal instruments  
Dual numbered see ISO 3630  
*Dental equipment*

**BS 6840 : Part 15 : 1988**

Sound system equipment  
Specification for preferred matching values for the interconnection of sound system components  
Dual numbered see IEC 268-15  
*Communications*

**BS 6902 : Part 1 : 1990**

Cardiac pacemakers  
Specification for implantable cardiac pacemakers  
Dual numbered see EN 50061  
*Medical equipment*

**BS 7139 : 1989**

Guide to graphical symbols for use on medical electrical equipment  
Dual numbered see IEC 878  
*Medical equipment*

**BS 7143 : 1989**

Specification for catheter mounts (flexible adaptors) for use with medical breathing systems  
*Medical equipment*

**BS 7162 : 1990**

Specification for waste water fittings on yachts  
Dual numbered see ISO 4567; EN 24567  
*Shipbuilding*

**BS 7169 : 1989**

Specification for general requirements for marine navigational equipment  
Dual numbered see IEC 945  
*Shipbuilding*

**BS 7324 : 1990**

Guide to graphical symbols for use on equipment  
Dual numbered see ISO 7000  
*Basic standards*

**BS 7477 : 1991**

Guide for general principles for the creation of graphical symbols for use on equipment  
Dual numbered see ISO 3461-1; IEC 416  
*Procedures*

**BS AU 143c : 1984**

Specification for symbols for controls, indicators and tell-tales for road vehicles  
Dual numbered see ISO 2575  
*Vehicles*

**BS AU 143c : Extract : 1984**

Print of symbols for reproduction purposes  
*Vehicles*

**BS AU 206 : Part 2 : 1986**

Diagnostic systems for road vehicles  
Specification for graphical symbols for diagnostic testers  
Dual numbered see ISO 7639  
*Vehicles*

**BS AU 229 : 1989**

Specification for graphical symbols to designate brake fluid types in road vehicles  
Dual numbered see ISO 9128  
*Vehicles*

**PD 6490 : 1980**

Guide to application of additional symbols (and index) for machine tools  
As BS 3641 : supplement  
*Machine tools*

**DD 182 : 1990**

Computer graphics: procedures for registration of graphical items  
Dual numbered see ISO/IEC/TR 9973  
*Procedures*

**PP 666 : 1991**

Language of labels  
*Education*

**PP 7307 : 1987**

Graphical symbols for use in schools and colleges  
*Education*

**PP 7317 : 1987**

Ergonomics - standards and guidelines for designers  
by Stephen Pheasant  
*Education*

**2.6.2 European standards**

**BS EN 153 : 1990**

Methods of measuring the energy consumption of electric mains operated household refrigerators, frozen food storage cabinets, food freezers and their combinations, together with associated characteristics  
See also BS 6291  
*Food preparation*

**BS EN 60920 : 1991**

Specification for ballasts for tubular fluorescent lamps.  
General and safety requirements  
*Lighting*

**EN 30 : 1989**

Domestic cooking appliances burning gas  
*Food preparation*

**EN 115 : 1983**

Safety rules for the construction and installation of escalators and passenger conveyors  
As BS 5656  
*Lifts and escalators*

**EN 233 : 1989**

Wallcoverings in roll form  
Specification for finished wallpapers, wall  
vinyls and plastics wallcoverings  
As BS 1248 : Part 2 : 1990  
*Wallcoverings*

**EN 234 : 1989**

Wallcoverings in roll form  
Specification for wallcoverings for  
subsequent decoration.  
As BS 1248 : Part 3 : 1990  
*Wallcoverings*

**EN 235 : 1989**

Wallcoverings in roll form  
Vocabulary and symbols  
As BS 1248 : Part 1 : 1990  
*Wallcoverings*

**EN 24567 : 1990**

Shipbuilding; yachts; waste water fittings  
Dual numbered see ISO 4567; BS 7162  
*Shipbuilding*

**EN 50061 : 1988**

Cardiac pacemakers. Specification for  
implantable cardiac pacemakers  
As BS 6902 : Part 1  
*Medical equipment*

**EN 60215 : 1989**

Safety requirements for radio transmitting  
equipment  
Dual numbered see IEC 215; BS 3192  
*Communications*

**EN 60432 : 1988**

Specification for safety of tungsten filament  
lamps for domestic and similar general  
lighting purposes  
Dual numbered see IEC 432. See also  
BS 5971  
*Lighting*

**6.3 IEC standards****IEC 82 : 1984**

Ballasts for tubular fluorescent lamps  
As BS 2818 : Part 1  
*Lighting*

**IEC 92-203 : 1985**

Electrical installations in ships  
System design - Acoustic and optical signals  
*Shipbuilding*

**IEC 118-11 : 1983**

Hearing aids  
Symbols and other markings on hearing aids  
and related equipment  
*Medical equipment*

**IEC 215 : 1987**

Safety requirements for radio transmitting  
equipment  
As EN 60 215, BS 3192  
*Communications*

**IEC 268-15 : 1987**

Sound system equipment  
Preferred matching values for the  
interconnection of sound system  
components  
As BS 6840 : Part 15  
*Communications*

**IEC 335-1 : 1991**

Safety of household and similar electrical  
appliances  
General requirements  
*Electrotechnical*

**IEC 387 : 1972**

Symbols for alternating-current electricity  
meters  
*Electrotechnical*

**IEC 416 : 1988**

General principles for the creation of  
graphical symbols for use on equipment  
Dual numbered see ISO 3461-1; BS 7477  
*Procedures*

**IEC 417 : A (1973) to K (1991)**

Graphical symbols for use on equipment.  
Index, survey and compilation of the single  
sheets  
As BS 6217  
*Basic standards*

**IEC 432 : 1984**

Safety requirements for tungsten filament  
lamps for domestic and similar general  
lighting purposes  
As EN 60432; BS 5971  
*Lighting*

**IEC 574-8 : 1979**

Audio visual, video and television  
equipment and systems  
Symbols and identification  
As BS 5817: Part 8  
*Communications*

**IEC 598-1 : 1986**

Luminaires  
General requirements and tests  
*Lighting*

**IEC 601-1 : 1988**

Medical electrical equipment  
General requirements for safety  
*Medical equipment*

**IEC 747-1 : 1983**

Semiconductor devices  
Discrete devices  
General  
As BS 6493 : Section 1.1; see also BS 5783  
*Electrotechnical*

**IEC 878 : 1988**

Graphical symbols for electrical equipment  
in medical practice  
As BS 7139  
*Medical equipment*

**IEC 945 : 1988**

Marine navigational equipment  
General requirements  
Methods of testing and required test result  
As BS 7169  
*Shipbuilding*

**2.6.4 ISO/IEC standards****ISO/IEC 6329 : 1989**

Duplicators and document copying  
machines - Symbols  
*Office equipment*

**ISO/IEC/TR 9973 : 1988**

Information processing - Procedures for  
registration of graphical items  
As DD 182  
*Procedures*

**2.6.5 ISO standards****ISO 361 : 1975**

Basic ionizing radiation symbol  
See also BS 3510  
*Fire safety*

**ISO/R 369 : 1964**

Symbols for indications appearing on  
machine tools  
See also ISO 7000; BS 3641 : Parts 1, 2 and 3  
*Machine tools*

**ISO 780 : 1985**

Packaging - Pictorial marking for handling of  
goods  
As BS 2770  
*Packaging*

**ISO 1090 : 1981**

Office machines and data processing  
equipment - Function key symbols on  
typewriters.  
As BS 2481 : Part 2  
*Office equipment*

**ISO 1093 : 1981**

Adding machines and calculating machines  
- Keytop and printed or displayed symbols  
As BS 5478 : Part 3  
*Office equipment*

**ISO 1560 : 1985**

Dental mercury  
As BS 4227  
*Dental equipment*

**ISO 1950 : 1974**

Aircraft - Identification of servicing,  
maintenance, ground handling and  
safety/hazard points  
*Aircraft*

**ISO 2047 : 1975**

Information processing - Graphical  
representations for the control characters of  
the 7-bit coded character set  
*Office equipment*

**ISO 2575 : 1982**

Road vehicles - Symbols for controls, indicators and tell-tales  
As BS AU 143c  
*Vehicles*

**ISO 2972 : 1979**

Numerical control of machines - Symbols  
See also BS 3641 : Part 2  
*Office equipment*

**ISO 3287 : 1978**

Powered industrial trucks - Control symbols  
As BS 5829  
*Vehicles*

**ISO 3461-1 : 1988**

General principles for the creation of graphical symbols  
Graphical symbols for use on equipment  
As IEC 416; as BS 7477  
*Principles*

**ISO 3461-2 : 1987**

General principles for the creation of graphical symbols  
Graphical symbols for use in technical product documentation  
*Principles*

**ISO 3630 : 1984**

Dental root canal instruments  
As BS 6815  
*Dental equipment*

**ISO 3719 : 1982**

Balancing machines - Symbols for front panels  
*Office equipment*

**ISO 3767-1 : 1991**

Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays - Common symbols.  
See also BS 4964 : Part 1  
*Vehicles*

**ISO 3767-2 : 1991**

Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays - Symbols for agricultural tractors and machinery  
See also BS 4964 : Part 2  
*Vehicles*

**ISO 3767-3 : 1988**

Tractors, machinery for agriculture and forestry, powered lawn and garden equipment  
Symbols for operator controls and other displays  
Symbols for powered lawn and garden equipment  
*Vehicles*

**ISO 3864 : 1984**

Safety colours and safety signs  
See also BS 5378 : Part 1  
*Safety*

**ISO 4062 : 1977**

Dictation equipment - Symbols  
As BS 3738 : Part 2  
*Office equipment*

**ISO 4190-5 : 1987**

Lifts and service lifts (USA: Elevators and dumbwaiters) - Control devices, signals and additional fittings  
See also BS 5655 : Part 7  
*Lifts and escalators*

**ISO 4196 : 1984**

Graphical symbols - Use of arrows  
*Procedures*

**ISO 4567 : 1978**

Shipbuilding; Yachts - Waste water fittings  
As EN 24567; as BS 7162  
*Shipbuilding*

**ISO 5155 : 1983**

Household frozen food storage cabinets and food freezers - Essential characteristics and test methods  
See also EN 153; BS 6291  
*Food preparation*

**ISO 5232 : 1988**

Graphical symbols for textile machinery  
See also BS 5951  
*Textiles*

**ISO 6050 : 1987**

Shipbuilding - Bulbous bow and side thruster symbols  
*Shipbuilding*

**ISO 6196 : 5: 1987**

Micrographics - Vocabulary - Quality of images, legibility, inspection  
As BS 6054 : Part 5  
*Office equipment*

**ISO 6309 : 1987**

Fire protection - Safety signs  
See also BS 5499 : Part 1  
*Fire safety*

**ISO 6346 : 1984**

Freight containers - Coding, identification and marking  
*Packaging*

**ISO 6405-1: 1991**

Earth-moving machinery  
Symbols for operator controls and other displays  
Common symbols  
See also BS 6309  
*Vehicles*

**ISO 6727 : 1981**

Road vehicles - Motorcycles - Symbols for controls, indicators and telltales  
*Vehicles*

**ISO 7000 : 1989**

Graphical symbols for use on equipment - Index and synopsis  
As BS 7234  
*Basic standards*

**ISO 7001 : 1990**

Public information symbols  
As BS 6034  
*Public information*

**ISO/TR 7239 : 1984**

Development and principles for application of public information symbols  
*Principles*

**ISO 7286 : 1986**

Graphical symbols for resistance welding equipment  
As 85/79640  
*Welding*

**ISO 7296-1 : 1991**

Cranes  
Graphic symbols  
General  
*Vehicles*

**ISO 7639 : 1985**

Road vehicles - Diagnostic systems - Graphical symbols  
As BS AU 206 : Part 2  
*Vehicles*

**ISO 9128 : 1987**

Road vehicles - Graphical symbols to designate brake fluid types  
As BS AU 229  
*Vehicles*

**ISO 9178 - 1 : 1988**

Templates for lettering and symbols - General principles and identification markings  
*Office equipment*

**ISO 9186 : 1989**

Procedures for the development and testing of public information symbols  
*Procedures*

**ISO 9878 : 1990**

Micrographics - Graphical symbols for use in microfilming  
*Office equipment*

**ISO/TR 10488 : 1991**

Graphical symbols incorporating arrows - Synopsis  
*Procedures*

## 2.7 Standards sorted by BSI councils and committees

The following is a list of standards for graphical symbols used on equipment, for public information, safety and fire safety. Standards are listed by council, standards policy committee, technical committee and identifier. At the end of each entry for international standards, in italics, is the international technical committee.

### 2.7.1 Building and Civil Engineering (B/-)

B/500 BASIC DATA  
**B/500/4**

BS 6100 : Subsection 1.3.8 : 1990

Glossary of building and civil engineering terms

General and miscellaneous

Parts of construction works.

Signs and signing.

B/513 CONSTRUCTION EQUIPMENT AND PLANT SAFETY

**B/513/1**

BS 6309 : 1982

Specification for symbols for operator controls and for controls other than operator controls for use on earth-moving machinery

See also ISO 6405-1 : 1991

**B/513/1**

ISO 6405-1 : 1991

Earth-moving machinery

Symbols for operator controls and other displays

Common symbols

See also BS 6309

*ISO TC127*

### 2.7.2 Chemical and Health Council (C/-)

HCC/- HEALTH CARE

**HCC/27**

BS 4843 : 1987

Specification for sterile intravascular cannula units for single use

**HCC/45**

BS 7143 : 1989

Specification for catheter mounts (flexible adaptors) for use with medical breathing systems

**HCC/52**

BS 6815 : 1987

Specification for dental root canal instruments

Dual numbered see ISO 3630

**HCC/52**

ISO 3630 : 1984

Dental root canal instruments

As BS 6815

*ISO TC106*

**HCC/53**

BS 4227 : 1986

Specification for dental mercury

Dual numbered see ISO 1560

**HCC/53**

ISO 1560 : 1985

Dental mercury

As BS 4227

*ISO TC106*

**HCC/62**

BS 7139 : 1989

Guide to graphical symbols for use on medical electrical equipment

Dual numbered see IEC 878

**HCC/62**

IEC 878 : 1988

Graphical symbols for electrical equipment in medical practice

As BS 7139

*IEC TC62*

**HCC/64**

IEC 601-1 : 1988

Medical electrical equipment

General requirements for safety

*IEC TC62*

**HCC/92**

BS 6902 : Part 1 : 1990

Cardiac pacemakers

Specification for implantable cardiac pacemakers

Dual numbered see EN 50061

**HCC/92**

EN 50061 : 1988

Cardiac pacemakers. Specification for implantable cardiac pacemakers

As BS 6902 : Part 1

*CEN TC00*

PTC/- PETROLEUM

**PTC/11**

BS 4040 : 1988

Specification for leaded petrol (gasoline) for motor vehicles

### 2.7.3 BSI Engineering Council (E/-)

ACE/- AEROSPACE

**ACE/57**

ISO 1950 : 1974

Aircraft - Identification of servicing, maintenance, ground handling and safety/hazard points

*ISO TC20*

AGE/- AGRICULTURAL MACHINERY

**AGE/26**

BS 4964 : Part 1 : 1981

Symbols for control markings and displays on tractors and machinery for agriculture and forestry, and on powered lawn and garden equipment

Schedule of common symbols

See also ISO 3767-3

**AGE/26**

BS 4964 : Part 2 : 1981

Symbols for control markings and displays on tractors and machinery for agriculture and forestry, and on powered lawn and garden equipment

Schedule of symbols for agricultural tractors and machines

See also ISO 3767-3

**AGE/26**

ISO 3767-1 : 1991

Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays - Common symbols.

See also BS 4964 : Part 1

*ISO TC23*

**AGE/26**

ISO 3767-2 : 1991

Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays - Symbols for agricultural tractors and machinery

See also BS 4964 : Part 2

*ISO TC23*

**AGE/26**

ISO 3767-3 : 1988

Tractors, machinery for agriculture and forestry, powered lawn and garden equipment

Symbols for operator controls and other displays

Symbols for powered lawn and garden

*ISO TC23*

AUE/- AUTOMOBILE

**AUE/12**

BS AU 143c : 1984

Specification for symbols for controls, indicators and tell-tales for road vehicles

Dual numbered see ISO 2575

**AUE/12**

ISO 2575 : 1982

Road vehicles - Symbols for controls, indicators and tell-tales

As BS AU 143c

*ISO TC22*

**AUE/12**

BS AU 143c : Extract : 1984

Print of symbols for reproduction purposes

**AUE/16**

BS AU 206 : Part 2 : 1986

Diagnostic systems for road vehicles

Specification for graphical symbols for diagnostic testers

Dual numbered see ISO 7639

**AGE/26**

ISO 3767-2 : 1991

Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays - Symbols for agricultural tractors and machinery

See also BS 4964 : Part 2

ISO TC23

**AGE/26**

ISO 3767-3 : 1988

Tractors, machinery for agriculture and forestry, powered lawn and garden equipment  
Symbols for operator controls and other displays

Symbols for powered lawn and garden equipment

ISO TC23

**AUE/- AUTOMOBILE**

**AUE/12**

BS AU 143c : 1984

Specification for symbols for controls, indicators and tell-tales for road vehicles

Dual numbered see ISO 2575

**AUE/12**

ISO 2575 : 1982

Road vehicles - Symbols for controls, indicators and tell-tales

As BS AU 143c

ISO TC22

**AUE/12**

BS AU 143c : Extract : 1984

Print of symbols for reproduction purposes

**AUE/16**

BS AU 206 : Part 2 : 1986

Diagnostic systems for road vehicles  
Specification for graphical symbols for diagnostic testers

Dual numbered see ISO 7639

**AUE/16**

ISO 7639 : 1985

Road vehicles - Diagnostic systems - Graphical symbols

As BS AU 206 : Part 2

ISO TC22

**AVE/-**

**AVE/12**

ISO 6727 : 1981

Road vehicles - Motorcycles - Symbols for controls, indicators and telltales

ISO TC22

**GME/- GENERAL MECHANICAL ENGINEERING**

**GME/21**

ISO 3719 : 1982

Balancing machines - Symbols for front panels

ISO TC108

**GME/30**

ISO 9178 - 1 : 1988

Templates for lettering and symbols - General principles and identification markings

ISO TC10

**GME/32**

ISO 6050 : 1987

Shipbuilding - Bulbous bow and side thruster symbols

ISO TC8

**GME/33**

ISO 4567 : 1978

Shipbuilding; Yachts - Waste water fittings

As EN 24567; as BS 7162

ISO TC188

**GME/33**

BS 7162 : 1990

Specification for waste water fittings on yachts

Dual numbered see ISO 4567; EN 24567

**GME/33**

EN 24567 : 1990

Shipbuilding; yachts; waste water fittings

Dual numbered see ISO 4567; BS 7162

CEN TC00

**GSE/-**

**GSE/17**

EN 30 : 1989

Domestic cooking appliances burning gas

CEN TC49

**MHE/3**

ISO 7296-1 : 1991

Cranes

Graphic symbols

General

ISO TC96

**MHE/- MECHANICAL HANDLING**

**MHE/4**

BS 5655 : Part 7 : 1983

Lifts and service lifts

Specification for manual control devices, indicators and additional fittings

See also ISO 4190-5

**MHE/4**

BS 5656 : 1983

Safety rules for the construction and installation of escalators and passenger conveyors

Dual numbered see EN 115

**MHE/4**

ISO 4190-5 : 1987

Lifts and service lifts (USA: Elevators and dumbwaiters) - Control devices, signals and additional fittings

See also BS 5655 : Part 7

ISO TC178

**MHE/4**

EN 115 : 1983

Safety rules for the construction and installation of escalators and passenger conveyors

As BS 5656

CEN TC10

**MHE/7**

ISO 3287 : 1978

Powered industrial trucks - Control symbols

As BS 5829

ISO TC110

**MHE/7**

BS 5829 : 1979

Specification for control systems for powered industrial trucks

Dual numbered see ISO 3287

**MTE/- MACHINE, ENGINEERS AND HAND TOOLS**

**MTE/1**

BS 3641 : Part 1 : 1971.

Symbols for machine tools

General symbols

See also ISO 7000; see also ISO/R 369

**MTE/1**

BS 3641 : Part 2 : 1980

Symbols for machine tools

Specification for numerical control symbols

See also ISO 7000; see also ISO 2972

**MTE/1**

BS 3641 : Part 3 : 1973 (1990)

Symbols for machine tools

Additional general symbols

See also ISO 7000; see also ISO/R369

**MTE/1**

BS 3641 : Supplement : 1980

Symbols for machine tools

Guide to application of additional symbols (and index) for machine tools

Dual numbered see PD 6490

**MTE/1**

PD 6490 : 1980

Guide to application of additional symbols (and index) for machine tools

As BS 3641 : supplement

**MTE/1**

ISO/R 369 : 1964

Symbols for indications appearing on machine tools

See also ISO 7000; BS 3641 : Parts 1, 2 and ISO TC39

**MTE/1**

ISO 2972 : 1979

Numerical control of machines - Symbols

See also BS 3641 : Part 2

ISO TC184

## 2.7.4. British Electrotechnical Committee and Electrotechnical Council (L/-)

### ECL/- ELECTRONIC COMPONENTS

#### ECL/12

BS 6493 : Section 1.1 : 1984

Semiconductor devices

Discrete devices

General

Dual numbered see IEC 747-1; see also

BS 5783

#### ECL/12

IEC 747-1 : 1983

Semiconductor devices

Discrete devices

General

As BS 6493 : Section 1.1; see also BS 5783

IEC TC47

#### ECL/17

BS 5783 : 1987

Code of practice for handling of

electrostatic sensitive devices

See also IEC 747-1; see also BS 6493

### EEL/- ELECTRONIC EQUIPMENT

#### EEL/25

BS 3192 : 1990

Specification for safety requirements for

radio transmitting equipment

Dual numbered see IEC 215; EN 60215

#### EEL/25

IEC 215 : 1987

Safety requirements for radio transmitting equipment

As EN 60 215, BS 3192

IEC TC12

#### EEL/25

EN 60215 : 1989

Safety requirements for radio transmitting equipment

Dual numbered see IEC 215; BS 3192

CEN TC00

#### EEL 30

BS 7169 : 1989

Specification for general requirements for marine navigational equipment

Dual numbered see IEC 945

#### EEL/30

IEC 945 : 1988

Marine navigational equipment

General requirements

Methods of testing and required test result

As BS 7169

IEC TC80

#### EEL/32

IEC 268-15 : 1987

Sound system equipment

Preferred matching values for the

interconnection of sound system

components

As BS 6840 : Part 15

IEC TC84

#### EEL/32

IEC 574-8 : 1979

Audio visual, video and television

equipment and systems

Symbols and identification

As BS 5817: Part 8

IEC TC60

#### EEL/32

BS 6840 : Part 15 : 1988

Sound system equipment

Specification for preferred matching values

for the interconnection of sound system

components

Dual numbered see IEC 268-15

#### EEL/32

BS 5817 : Part 8 : 1990

Specification for audiovisual, video and

television equipment and systems

Symbols and identification

Dual numbered see IEC 574-8

### GEL/- GENERAL ELECTROTECHNICAL ENGINEERING

#### GEL/4

BS 6217 : 1981

Guide to graphical symbols for use on

electrical equipment

Dual numbered see IEC 417-A/H

#### GEL/4

IEC 417 : A (1973) to K (1991)

Graphical symbols for use on equipment.

Index, survey and compilation of the single sheets

As BS 6217

IEC TC3

#### GEL/4

ISO 3461-1 : 1988

General principles for the creation of

graphical symbols

Graphical symbols for use on equipment

As IEC 416; as BS 7477

ISO TC145, TC10

#### GEL/4

IEC 416 : 1988

General principles for the creation of

graphical symbols for use on equipment

Dual numbered see ISO 3461-1; BS 7477

IEC TC3

#### GEL/4

BS 7477 : 1991

Guide for general principles for the

creation of graphical symbols for use on

equipment

Dual numbered see ISO 3461-1; IEC 416

### LEL/- LIGHT ELECTRICAL ENGINEERING

#### LEL/161

IEC 335-1 : 1991

Safety of household and similar electrical appliances

General requirements

IEC TC34

### LGL/- ELECTRICAL ILLUMINATION

#### LGL/3/20

IEC 598-1 : 1986

Luminaires

General requirements and tests

IEC TC34

#### LGL/6

BS 5971 : 1988

Specification for safety of tungsten filament

lamps for domestic and similar general

lighting purposes

Dual numbered see IEC 432; EN 60432

#### LGL/6

EN 60432 : 1988

Specification for safety of tungsten filament

lamps for domestic and similar general

lighting purposes

Dual numbered see IEC 432. See also

BS 5971

CEN TC00

#### LGL/6

IEC 432 : 1984

Safety requirements for tungsten filament

lamps for domestic and similar general

lighting purposes

As EN 60432; BS 5971

IEC TC34

#### LGL/6

IEC 118-11 : 1983

Hearing aids

Symbols and other markings on hearing

aids and related equipment

IEC TC29

#### LGL/21

BS 2818 : Part 1 : 1985

Ballasts for tubular fluorescent lamps

Specification for ballasts for use

internationally

Dual numbered see IEC 82

#### LGL/21

IEC 82 : 1984

Ballasts for tubular fluorescent lamps

As BS 2818 : Part 1

IEC TC34

#### LGL/21/L

BS EN 60920 : 1991

Specification for ballasts for tubular

fluorescent lamps.

General and safety requirements

CEN TC34

### PEL/- POWER ELECTRICAL ENGINEERING

#### PEL/14

IEC 387 : 1972

Symbols for alternating-current electricity meters

IEC TC13

**PEL/93**

IEC 92-203 : 1985  
Electrical installations in ships  
System design - Acoustic and optical signals  
*IEC TC18*

**2.7.5 Multitechnics Council (M/-)**

CCM/- CONSUMER AND CONTRACT GOODS  
**CCM/35**

BS 1248 : Part 1 : 1990  
Wallcoverings in roll form  
Vocabulary and symbols  
Dual numbered see EN 235 : 1989

**CCM/35**

EN 235 : 1989  
Wallcoverings in roll form  
Vocabulary and symbols  
As BS 1248 : Part 1 : 1990  
*CEN TC99*

**CCM/35**

BS 1248 : Part 2 : 1990  
Wallcoverings in roll form  
Specification for finished wallpapers, wall vinyls and plastics wallcoverings  
Dual numbered see EN 233 : 1989

**CCM/35**

EN 233 : 1989  
Wallcoverings in roll form  
Specification for finished wallpapers, wall vinyls and plastics wallcoverings  
As BS 1248 : Part 2 : 1990  
*CEN TC99*

**CCM/35**

BS 1248 : Part 3 : 1990  
Wallcoverings in roll form  
Specification for wallcoverings for subsequent decoration.  
Dual numbered see EN 234 : 1989

**CCM/35**

EN 234 : 1989  
Wallcoverings in roll form  
Specification for wallcoverings for subsequent decoration.  
As BS 1248 : Part 3 : 1990  
*CEN TC99*

FSM/- Fire

**FSM/11**

BS 5499 : Part 1 : 1990  
Fire safety signs, notices and graphic symbols  
Specification for fire safety signs  
See also ISO 6309

**FSM/11**

ISO 6309 : 1987  
Fire protection - Safety signs  
See also BS 5499 : Part 1  
*ISO TC21*

PKM/- PACKAGING AND FREIGHT CONTAINERS

**PKM/504**

BS 2770 : 1986  
Specification for pictorial marking of handling instructions for goods in transit  
Dual numbered see ISO 780

**PKM/504**

ISO 780 : 1985  
Packaging - Pictorial marking for handling of goods  
As BS 2770  
*ISO TC122*

**PKM/505**

ISO 6346 : 1984  
Freight containers - Coding, identification and marking  
*ISO TC104*

**PKM/553**

BS 1133 : Subsection 7.5 : 1990  
Packaging code.  
Paper and board wrappers, bags and containers  
Fibreboard cases and fitments

PSM/- PERSONAL SAFETY EQUIPMENT

**PSM/12**

BS 5378 : Part 1 : 1980  
Safety signs and colours  
Specification for colour and design  
See also ISO 3864

**PSM/12**

BS 5378 : Part 2 : 1980  
Safety signs and colours  
Specification for colorimetric and photometric properties of materials  
See also ISO 3864

**PSM/12**

BS 5378 : Part 3 : 1982  
Safety signs and colours  
Specification for additional signs to those given in BS 5378 : Part 1

**PSM/12**

ISO 3864 : 1984  
Safety colours and safety signs  
See also BS 5378 : Part 1  
*ISO TC145*

**PSM/29**

BS 6034 : 1990  
Specification for public information symbols  
Dual numbered see ISO 7001

## **DISC Board (Delivering Information Solutions to Customers) (T/-)**

DOT/- DOCUMENTATION

### **DOT/16**

BS 6054 : Part 5 : 1988

Glossary of terms for micrographics  
Quality of images, legibility, inspection  
Dual numbered see ISO 6196-5

### **DOT/16**

ISO 6196 : 5: 1987

Micrographics - Vocabulary -  
Quality of images, legibility, inspection  
As BS 6054 : Part 5  
*ISO TC171*

### **DOT/16**

ISO 9878 : 1990

Micrographics - Graphical symbols for use  
in microfilming  
*ISO TC171*

IST/- OFFICE AND INFORMATION

### **IST/2**

ISO 2047 : 1975

Information processing - Graphical  
representations for the control characters  
of the 7-bit coded character set  
*ISO TC97*

### **IST/3**

BS 3738 : Part 2 : 1980

Dictation equipment. Part 2. Specification  
for symbols  
Dual numbered see ISO 4062

### **IST/18**

BS 5478 : Part 3 : 1982

Calculators and adding machines  
Specification for keytop and printed or  
display symbols  
Dual numbered see ISO 1093

### **IST/18**

ISO 1090 : 1981

Office machines and data processing  
equipment - Function key symbols on  
typewriters.  
As BS 2481 : Part 2  
*ISO TC97*

### **IST/18**

ISO 1093 : 1981

Adding machines and calculating machines  
- Keytop and printed or displayed symbols  
As BS 5478 : Part 3  
*ISO TC97*

### **IST/18**

ISO/IEC 6329 : 1989

Duplicators and document copying  
machines - Symbols  
*ISO/IEC JTC1*

### **IST/18**

BS 2481 : Part 2 : 1982

Typewriters  
Specification for function key symbols  
Dual numbered see ISO 1090

### **IST/3**

ISO 4062 : 1977

Dictation equipment - Symbols  
As BS 3738 : Part 2  
*ISO TC97*

### **IST/30**

DD 182 : 1990

Computer graphics: procedures for  
registration of graphical items  
Dual numbered see ISO/IEC/TR 9973

### **IST/31**

ISO/IEC/TR 9973 : 1988

Information processing - Procedures for  
registration of graphical items  
As DD 182  
*ISO/IEC JTC1/SC24*

## 2.8 Standards sorted by international committees

The following is a list of international standards for graphical symbols used on equipment, for public information, safety and fire safety, listed in numerical sequence by international committees.

### 2.8.1 CEN/CENELEC committees

#### CEN TC00

EN 60215 : 1989  
Safety requirements for radio transmitting equipment  
Dual numbered see IEC 215; BS 3192  
*EEL/25*

#### CEN TC00

EN 60432 : 1988  
Specification for safety of tungsten filament lamps for domestic and similar general lighting purposes  
Dual numbered see IEC 432. See also BS 5971  
*LGL/6*

#### CEN TC00

EN 24567 : 1990  
Shipbuilding; yachts; waste water fittings  
Dual numbered see ISO 4567; BS 7162  
*GME/33*

#### CEN TC00

EN 50061 : 1988  
Cardiac pacemakers. Specification for implantable cardiac pacemakers  
As BS 6902 : Part 1  
*HCC/92*

#### CEN TC10

EN 115 : 1983  
Safety rules for the construction and installation of escalators and passenger conveyors  
As BS 5656  
*MHE/4*

#### CEN TC34

BS EN 60920 : 1991  
Specification for ballasts for tubular fluorescent lamps.  
General and safety requirements  
*LGL/21/L*

#### CEN TC44

BS EN 153 : 1990  
Methods of measuring the energy consumption of electric mains operated household refrigerators, frozen food storage cabinets, food freezers and their combinations, together with associated characteristics  
See also BS 6291  
*RHE/5*

#### CEN TC49

EN 30 : 1989  
Domestic cooking appliances burning gas  
*GSE/17*

#### CEN TC99

EN 233 : 1989  
Wallcoverings in roll form  
Specification for finished wallpapers, wall vinyls and plastics wallcoverings  
As BS 1248 : Part 2 : 1990  
*CCM/35*

#### CEN TC99

EN 234 : 1989  
Wallcoverings in roll form  
Specification for wallcoverings for subsequent decoration.  
As BS 1248 : Part 3 : 1990  
*CCM/35*

#### CEN TC99

EN 235 : 1989  
Wallcoverings in roll form  
Vocabulary and symbols  
As BS 1248 : Part 1 : 1990  
*CCM/35*

### 2.8.2 IEC committees

#### IEC TC3

IEC 416 : 1988  
General principles for the creation of graphical symbols for use on equipment  
Dual numbered see ISO 3461-1; BS 7477  
*GEL/4*

#### IEC TC3

IEC 417 : A (1973) to K (1991)  
Graphical symbols for use on equipment.  
Index, survey and compilation of the single sheets  
As BS 6217  
*GEL/4*

#### IEC TC12

IEC 215 : 1987  
Safety requirements for radio transmitting equipment  
As EN 60 215, BS 3192  
*EEL/25*

#### IEC TC13

IEC 387 : 1972  
Symbols for alternating-current electricity meters  
*PEL/14*

IEC TC18  
IEC 92-203 : 1985  
Electrical installations in ships  
System design - Acoustic and optical signals  
*PEL/93*

#### IEC TC29

IEC 118-11 : 1983  
Hearing aids  
Symbols and other markings on hearing aids and related equipment  
*LGL/6*

#### IEC TC34

IEC 82 : 1984  
Ballasts for tubular fluorescent lamps  
As BS 2818 : Part 1  
*LGL/21*

#### IEC TC34

IEC 432 : 1984  
Safety requirements for tungsten filament lamps for domestic and similar general lighting purposes  
As EN 60432; BS 5971  
*LGL/6*

#### IEC TC34

IEC 335-1 : 1991  
Safety of household and similar electrical appliances  
General requirements  
*LEL/161*

#### IEC TC34

IEC 598-1 : 1986  
Luminaires  
General requirements and tests  
*LGL/3/20*

#### IEC TC47

IEC 747-1 : 1983  
Semiconductor devices  
Discrete devices  
General  
As BS 6493 : Section 1.1; see also BS 5783  
*ECL/12*

#### IEC TC60

IEC 574-8 : 1979  
Audio visual, video and television equipment and systems  
Symbols and identification  
As BS 5817: Part 8  
*EEL/32*

#### IEC TC62

IEC 601-1 : 1988  
Medical electrical equipment  
General requirements for safety  
*HCC/64*

#### IEC TC62

IEC 878 : 1988  
Graphical symbols for electrical equipment in medical practice  
As BS 7139  
*HCC/62*

#### IEC TC80

IEC 945 : 1988  
Marine navigational equipment  
General requirements  
Methods of testing and required test result  
As BS 7169  
*EEL/30*

**IEC TC84**

IEC 268-15 : 1987

Sound system equipment  
Preferred matching values for the  
interconnection of sound system  
components

As BS 6840 : Part 15

*EEL/32***2.8.3 ISO/IEC committees****ISO/IEC JTC1**

ISO/IEC 6329 : 1989

Duplicators and document copying  
machines - Symbols

*IST/18***ISO/IEC JTC1/SC24**

ISO/IEC/TR 9973 : 1988

Information processing - Procedures for  
registration of graphical items

As DD 182

*IST/31***2.8.4 ISO committees****ISO TC8**

ISO 6050 : 1987

Shipbuilding - Bulbous bow and side  
thruster symbols

*GME/32***ISO TC10**

ISO 9178 - 1 : 1988

Templates for lettering and symbols -  
General principles and identification  
markings

*GME/30***ISO TC20**

ISO 1950 : 1974

Aircraft - Identification of servicing,  
maintenance, ground handling and  
safety/hazard points

*ACE/57***ISO TC21**

ISO 6309 : 1987

Fire protection - Safety signs

See also BS 5499 : Part 1

*FSM/11***ISO TC22**

ISO 2575 : 1982

Road vehicles - Symbols for controls,  
indicators and tell-tales

As BS AU 143c

*AUE/12***ISO TC22**

ISO 6727 : 1981

Road vehicles - Motorcycles - Symbols for  
controls, indicators and tell-tales

*AVE/12***ISO TC22**

ISO 7639 : 1985

Road vehicles - Diagnostic systems -  
Graphical symbols

As BS AU 206 : Part 2

*AUE/16***ISO TC22**

ISO 9128 : 1987

Road vehicles - Graphical symbols to  
designate brake fluid types

As BS AU 229

*RUM/40***ISO TC23**

ISO 3767-1 : 1991

Tractors, machinery for agriculture and  
forestry, powered lawn and garden  
equipment - Symbols for operator controls  
and other displays - Common symbols.

See also BS 4964 : Part 1

*AGE/26***ISO TC23**

ISO 3767-2 : 1991

Tractors, machinery for agriculture and  
forestry, powered lawn and garden  
equipment - Symbols for operator controls  
and other displays - Symbols for agricultural  
tractors and machinery

See also BS 4964 : Part 2

*AGE/26***ISO TC23**

ISO 3767-3 : 1988

Tractors, machinery for agriculture and  
forestry, powered lawn and garden  
equipment

Symbols for operator controls and other  
displays

Symbols for powered lawn and garden

*AGE/26***ISO TC39**

ISO/R 369 : 1964

Symbols for indications appearing on  
machine tools

See also ISO 7000; BS 3641 : Parts 1, 2 and

*MTE/1***ISO TC44**

ISO 7286 : 1986

Graphical symbols for resistance welding  
equipment

As 85/79640

*WEE/26***ISO TC72**

ISO 5232 : 1988

Graphical symbols for textile machinery

See also BS 5951

*TCM/33***ISO TC85**

ISO 361 : 1975

Basic ionizing radiation symbol

See also BS 3510

*NCE/1***ISO TC86**

ISO 5155 : 1983

Household frozen food storage cabinets and  
food freezers - Essential characteristics and  
test methods

See also EN 153; BS 6291

*RHE/5***ISO TC96**

ISO 7296-1 : 1991

Cranes

Graphic symbols

General

*MHE/3***ISO TC97**

ISO 1090 : 1981

Office machines and data processing  
equipment - Function key symbols on  
typewriters.

As BS 2481 : Part 2

*IST/18***ISO TC97**

ISO 1093 : 1981

Adding machines and calculating machines  
- Keypoint and printed or displayed symbols

As BS 5478 : Part 3

*IST/18***ISO TC97**

ISO 2047 : 1975

Information processing - Graphical  
representations for the control characters of  
the 7-bit coded character set

*IST/2***ISO TC97**

ISO 4062 : 1977

Dictation equipment - Symbols

As BS 3738 : Part 2

*IST/3***ISO TC104**

ISO 6346 : 1984

Freight containers - Coding, identification  
and marking

*PKM/505***ISO TC106**

ISO 1560 : 1985

Dental mercury

As BS 4227

*HCC/53***ISO TC106**

ISO 3630 : 1984

Dental root canal instruments

As BS 6815

*HCC/52***ISO TC108**

ISO 3719 : 1982

Balancing machines - Symbols for front  
panels

*GME/21***ISO TC110**

ISO 3287 : 1978

Powered industrial trucks - Control symbols

As BS 5829

*MHE/7***ISO TC122**

ISO 780 : 1985

Packaging - Pictorial marking for handling of  
goods

As BS 2770

*PKM/504*

**ISO TC127**

ISO 6405-1: 1991  
Earth-moving machinery  
Symbols for operator controls and other displays  
Common symbols  
See also BS 6309  
*B/513/1*

**ISO TC145, TC10**

ISO 3461-1: 1988  
General principles for the creation of graphical symbols  
Graphical symbols for use on equipment  
As IEC 416; as BS 7477  
*GEL/4*

**ISO TC145, TC10**

ISO 3461-2: 1987  
General principles for the creation of graphical symbols  
Graphical symbols for use in technical product documentation  
*PSM/29*

**ISO TC145**

ISO 3864: 1984  
Safety colours and safety signs  
See also BS 5378 : Part 1  
*PSM/12*

**ISO TC145**

ISO 4196: 1984  
Graphical symbols - Use of arrows  
*PSM/29*

**ISO TC145**

ISO 7000: 1989  
Graphical symbols for use on equipment - Index and synopsis  
As BS 7234  
*PSM/29*

**ISO TC145**

ISO 7001: 1990  
Public information symbols  
As BS 6034  
*PSM/29*

**ISO TC145**

ISO/TR 7239: 1984  
Development and principles for application of public information symbols  
*PSM/29*

**ISO TC145**

ISO 9186: 1989  
Procedures for the development and testing of public information symbols  
*PSM/29*

**ISO TC145**

ISO/TR 10488: 1991  
Graphical symbols incorporating arrows - Synopsis  
*PSM/29*

**ISO TC171**

ISO 6196: 5: 1987  
Micrographics - Vocabulary - Quality of images, legibility, inspection  
As BS 6054 : Part 5  
*DOT/16*

**ISO TC171**

ISO 9878: 1990  
Micrographics - Graphical symbols for use in microfilming  
*DOT/16*

**ISO TC178**

ISO 4190-5: 1987  
Lifts and service lifts (USA: Elevators and dumbwaiters) - Control devices, signals and additional fittings  
See also BS 5655 : Part 7  
*MHE/4*

**ISO TC184**

ISO 2972: 1979  
Numerical control of machines - Symbols  
See also BS 3641 : Part 2  
*MTE/1*

**ISO TC188**

ISO 4567: 1978  
Shipbuilding; Yachts - Waste water fittings  
As EN 24567; as BS 7162  
*GME/33*

## Section 3. Comparison of symbols

### 3.0 Introduction

In this section symbols for equipment, safety, fire safety and public information are identified and where appropriate compared with the basic symbols in ISO 7000 and IEC 417.

In 3.1 the facets of graphical symbols are examined as a basis for comparison or selection.

The main comparison of symbols is made in 3.2 (ISO 7000) and 3.3 (IEC 417). The purpose of the comparison is to identify symbols in other standards that relate to them, in that they are identical, that they have facets in common or, if significant facets that are dissimilar or conflict.

The format of these two subsections is the same. The basic symbols are listed numerically. ISO 7000 symbols are numbered from 0001 to 1707 and IEC 417 symbols from 5001 to 5509, although not all numbers in these ranges are used. It should be noted that some symbols in other standards have been allocated ISO/IEC reference numbers which have not as yet been published in the basic standards.

Each group in 3.2 and 3.3 is headed by the basic symbol number above the basic image on the left of the entry. Each symbol entry, including those for basic symbols, comprises an image on the left, and on the right a symbol number, an identifier and a referent. Any notes follow in italics.

Examples of symbol entries follow. In the first set a basic symbol is shown with the referent 'Draining', followed by two symbols from other BS, CEN, IEC or ISO standards with the same referent. The first has an identical graphical image. The second has a dissimilar image.

In the next two examples it is the referent that varies while the image remains constant. This can occur even when they both refer to the same basic symbol. This raises the question as to whether the difference in meaning is intended and has significance or is incidental. As symbols are now being used

across different industries it could cause confusion. This could largely be avoided in future if referents for basic symbols are always used without alteration in derived standards. And if any intentional modification is clearly explained in a supplement.

0029



ISO 7000: 1989: 0029  
Draining; emptying  
*000.202*



BS 5951: 1982: A026  
Draining  
*000.202*



BS 3641: 1: 1971: 1.4.12  
Draining  
*001.071*

0192

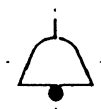


ISO 7000: 1989: 0192  
Marking fold protrusion  
*000.379*



ISO 5232: 1988: B095  
Fabric web: slight fold  
advance  
*000.379*

In the three symbol entries below the same image has marginally different meanings ranging from the general to the particular.



Alarm  
BS 5655



Acoustic  
signal  
BS PD 6490



Bell  
IEC 417

In 3.4 symbols are identified that incorporate colour and/or geometric shape for normative reasons. This includes colour used on illuminated symbols. Entries are followed, where appropriate, by further symbols that do not use colour but are intended to convey a

similar message. The inclusion of symbols using colour and incorporating geometric shapes is of particular importance since it suggests one means of extending the 'grammar' associated with symbols used on equipment. This subsection is organized by categories from the safety sign system: prohibition, warning, mandatory, safe condition and fire equipment signs together with vehicular and aircraft symbols.

The symbols in 3.5 have all been tested internationally for public recognition. At present such testing is restricted to public information symbols of which there are 56.

In the final subsection, 3.6, are listed all those symbols used on equipment that fall outside the scope of the other subsections.

### 3.1 Facets of graphical symbols

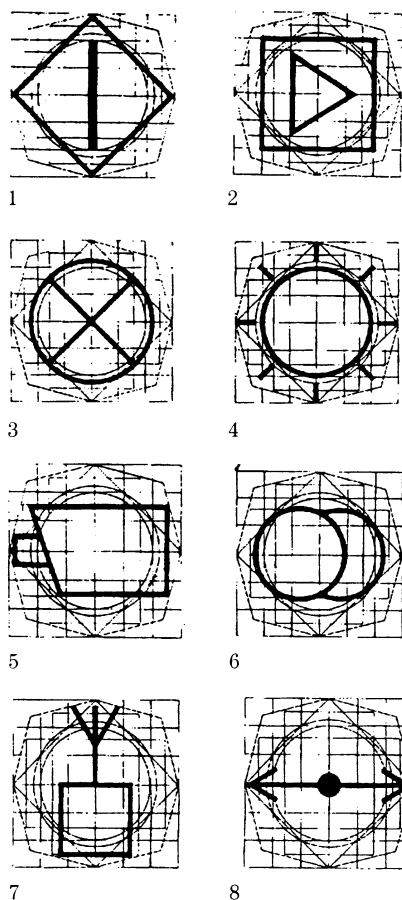
#### 3.1.1 Summary

In the introduction to section 1 it is suggested that a 'grammar' of graphical symbols needs to be established. In order to do so the facets of graphical symbols need to be identified. General design guidance is contained in two documents: ISO 3461-1 (symbols on equipment) and ISO/TR 7239 (public information symbols) however this needs to be the subject of further guidance. In the meantime, three categories are reviewed here: symbol structure, sign elements and symbol variants.

#### 3.1.2 Symbol structure

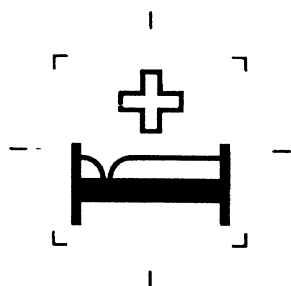
##### ORIGINAL SYMBOLS

To ensure that the design of graphical symbols, for equipment, produces a balanced visual impression and optical weight, there is a basic pattern. This consists of a 75 mm square, divided into a grid of 12.5 line spacing on which the outline of a number of geometric forms are placed. The symbol is placed as symmetrically as possible on the pattern as shown in the examples.



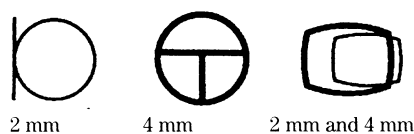
Examples of symbols on the basic pattern

A slightly different approach is used for public information symbols. The concept of symmetry still applies but symbol originals are prepared on a 45 mm square with no apparent pattern. An example is given below.



#### LINE THICKNESS

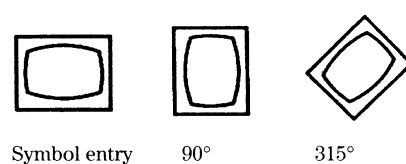
On the symbol originals for equipment, line thicknesses are either 2 mm or 4 mm. For visual clarity a combination of both may be used.



For public information symbols a minimum line thickness is calculated as 0.5 mm per metre of viewing distance.

#### ORIENTATION

Many graphical symbols, used on equipment, preserve their meaning irrespective of their orientation. However, when the meaning of a graphical symbol is dependent on its orientation, or variation in orientation is limited, this is stated in the notes to the symbols in 3.2 to 3.6. In this guide the extent of the variation from the symbol entry is indicated in degrees.



In some standards a specific restriction is imposed on the orientation of a symbol and permitted variants of different orientation are illustrated. An example is IEC 147: 5221, 'Isolating transformer'.



Symbol entry

Variant

At other times particular care has to be taken to ensure that a change of orientation does not involve a substantial change of meaning.

IEC 417: 5108  
'Fast run'  
'Fast forward run'Variant  
'Fast backward run' or 'fast rewind'

Guidance on the orientation of symbols when used with arrows is given later in this section.

No guidance for original symbols, line thickness or orientation is given for either safety signs or fire safety signs.

#### 3.1.3 Sign elements

In safety and fire safety signs there are five categories of element that may prove to be applicable in the wider context of this guide:

- the symbol;
- colour;
- geometric shape;
- supplementary signs;
- arrows.

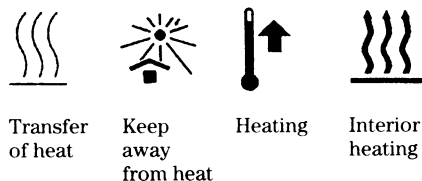
At present symbols on equipment or public information symbols have to convey a number of forms of message, without the benefit of the other elements listed, to show what action is expected.

#### SYMBOL ELEMENTS

The symbol itself may be comprised of symbol elements. In their turn 'Individual symbols should be designed as elements of a system. It should be borne in mind that the communication power of an individual symbol is dependent on a certain degree of consistency with other components of the set but also on distinctiveness. Distinctiveness of an individual symbol within a set prevents confusion. Also, a set of symbols having consistency of design reinforces the possibility of detection of the individual symbols in complex surroundings' (ISO/TR 7239).

The elements of a symbol image have evolved in different countries and in different industries.

Bringing them together in one 'library', (the basic standards), is a considerable achievement. However, it also shows up the further need for fine tuning, in terms of design development, simplification and rationalization of the elements. Differences, such as those in the following example of the element 'heat', show what needs to be studied and possibly rationalized.



When standardization of elements is achieved, as in BS 5499, it effectively improves recognition.



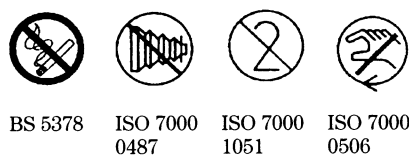
Fire equipment signs from BS 5499

#### SYMBOL SETS

In some standards the conscious combination of elements to make symbols has already been achieved as is clearly identified in the examples below taken from ISO 6405-1 : 1991. But these principles have yet to be applied to the majority of symbol standards.

#### NEGATIVE ELEMENTS

There are few negative graphical symbols, although the ability to say 'do not' is fundamental and suggests that a basic negative element is needed. In safety signs there is a specific group of prohibition signs which rely on colour and geometric shape to convey the negative intention. At present when negative elements are used in black and white there are three versions: a circular band with diagonal bar, a diagonal bar and a diagonal cross.



BS 5378

ISO 7000  
0487

ISO 7000  
1051

ISO 7000  
0506



BS 3641  
2: 5.13

IEC 417  
5503

IEC 417  
5231

ISO 7001  
019

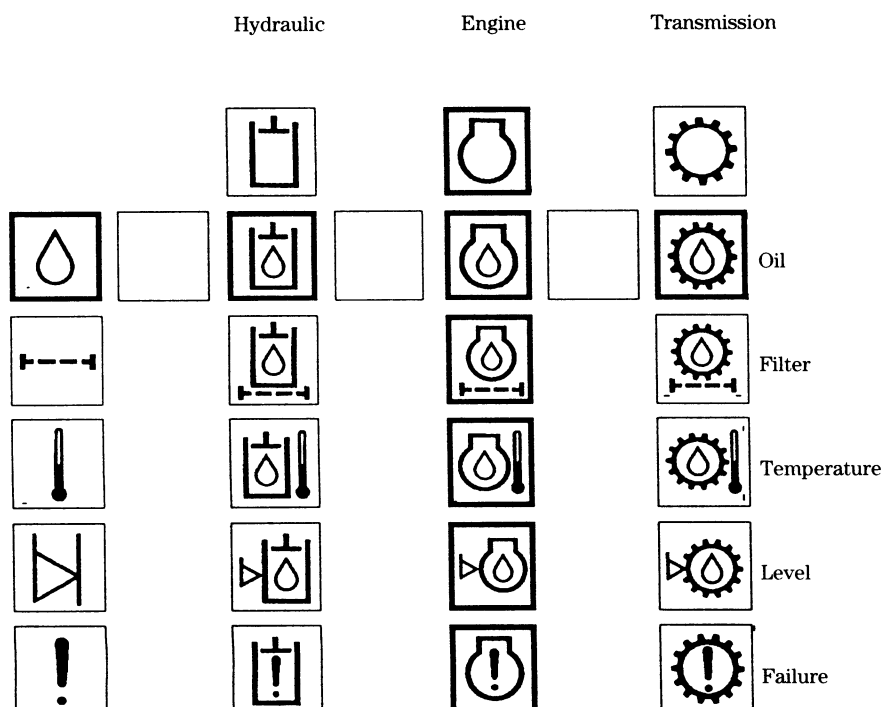
#### COLOUR

There is little use of colour as a normative facet on graphical symbols used on equipment and no systematic use has been developed in the way that it has for safety and fire safety signs. There are some recommendations for the use of colour, mostly internally illuminated, for vehicles and a standard (ISO 1950) for coloured symbols used in aircraft. The rare exceptions, some of which conflict with BS 5378, are listed in 3.4 and a note is given in their entries in 3.2, 3.3 or 3.6. Normally colour may be used for symbols or their background but care needs to be taken to ensure that legibility is improved rather than impaired. Or that conflict is not created with the normative use of colour, particularly for safety and fire safety signs.

#### GEOMETRIC SHAPE AND COLOUR

The two safety sign standards, ISO 3864 and BS 5378, are of particular significance in the standardization of graphical symbols.

They introduce a system of colours and geometric shapes that greatly increases the scope of information that can be conveyed by a symbol or sign. They could be as basic to the future development of graphical symbols as are the basic standards ISO 7000 and IEC 417. The fire safety standards ISO 6309 and BS 5499 add an additional category of fire equipment to the system. The safety colours and the geometric shapes associated with the different types of sign in the safety sign system are as follows.



#### Prohibition signs

Red circular band and diagonal cross bar, with a black symbol on white



#### Warning signs

Black triangular band, which may have rounded corners, with a black symbol on yellow



**Mandatory signs**  
Blue circle with a white symbol



**Safe condition signs**  
Green square with a white symbol



**Fire equipment signs**  
Red square with a white symbol

Arrows are normally used in symbols on equipment to indicate direction of motion of machine components or elements along the axes of motion of the machine. The forms shown below are alternatives, but the differences are not to be used to make a distinction between functions.



**Function and force.** Arrows are normally used in symbols on equipment where an arrow form is required, but the function is not directly related to the coordinate axes of machine movements. The arrow is only used in conjunction with other symbol elements. The forms shown below are alternatives, but the differences are not to be used to make a distinction between functions.



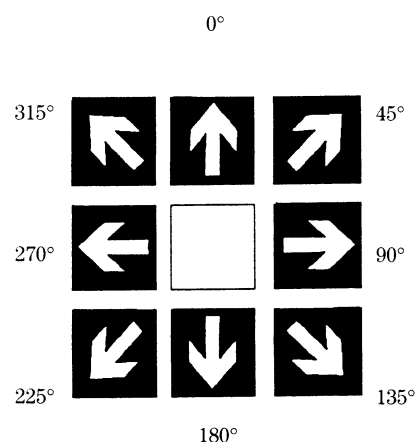
**Dimensions.** Arrows normally used on equipment where linear size requires specifying. The arrow is only used in conjunction with other symbol elements.



The head of an arrow should always point in the direction of movement. In signing buildings, however, this can lead to ambiguities. No guidance has been published at an international level, but the following advice is given in BS 5499 and it has a broader application than just fire safety signs. It is recommended that the arrow should, in principle, be placed between the sign / symbol and the direction of movement.



Directional arrows are mostly used alongside symbols rather than being integrated with them.



#### Key to direction

|      |                                   |
|------|-----------------------------------|
| 0°   | Straight on or straight on and up |
| 45°  | Up and right                      |
| 90°  | Right                             |
| 135° | Down and right                    |
| 180° | Straight on and down              |
| 225° | Down and left                     |
| 270° | Left                              |
| 315° | Up and left                       |

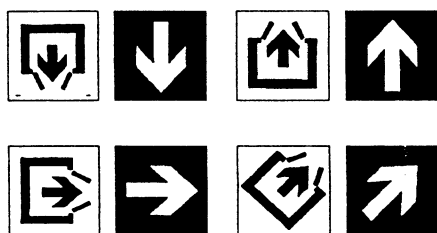
**Directional conflict.** Some symbols either include arrows or imply direction. The two most obvious examples are the fire exit symbol and the way out symbol. In the former the symbol may be used by itself as a location sign or with an arrow as a directional sign. Even without the arrow the symbol would tend to be confusing if the 'running man' and the actual direction of the escape route were in conflict. The need for consistency in the orientation of both is self-apparent.



Exit signs  
from BS 5499

While the moving man in the 'exit' symbol can only reasonably face left or right, other symbols used with arrows (some of which also include arrows in the symbol

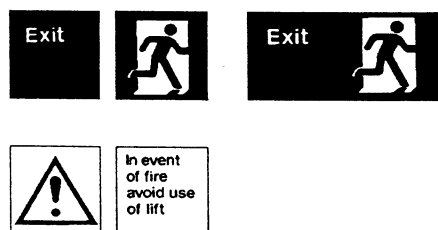
image) may reasonably be expected to rotate, as do arrows, in increments of 45°. However, for example, the impact and possibly the recognition factor of the 'way in' or 'way out' symbols may be modified when used at angles other than horizontal.



Way out symbols from ISO 7001

#### SUPPLEMENTARY SIGNS

At present supplementary signs are mostly associated with safety and fire safety signs. Their purpose is to provide additional information. This may be to give the referent in addition to the graphic image which, for example, is being recommended for a transitional period during the introduction of new fire exit signs. Or it may be to give information for a purpose when there is no specific graphic image, only a general image as in the case of the sign below concerning the safe use of lifts. Both examples are from BS 5499.



As a part of the safety signs system the colours for supplementary signs may be related to the colours of the symbols.

#### 3.1.4 Symbol variants

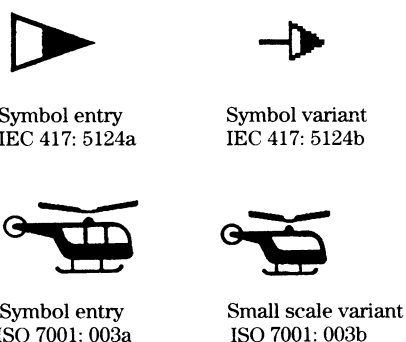
##### IMAGE CONTENT

As far as public information symbols are concerned, it is the (written) image content that is standardized and not the graphic image. The graphic image is offered as a guideline example, which conforms to the written image content and the use of which is to be encouraged. A different image content is not acceptable. The acceptability of different images in other standards is not so clear cut. On some occasions it is stated that the image may be modified to improve legibility, on others it is made clear that reproduction should be by photographic means. Further symbols in BS 5378 : Part 1 : 1980 are called up in UK legislation and in an EC Directive; in certain circumstances their use is mandatory.

In some instances design variants are offered in standards. These are of two types: scale and style.

##### SCALE

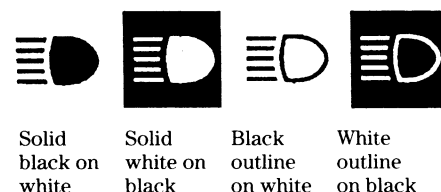
A number of symbols are shown with an alternative graphic image. The reason given for the alternatives in ISO 7001 is that a smaller version is required where space is limited. No explanation is given in ISO 7000 or IEC 417.



##### STYLE

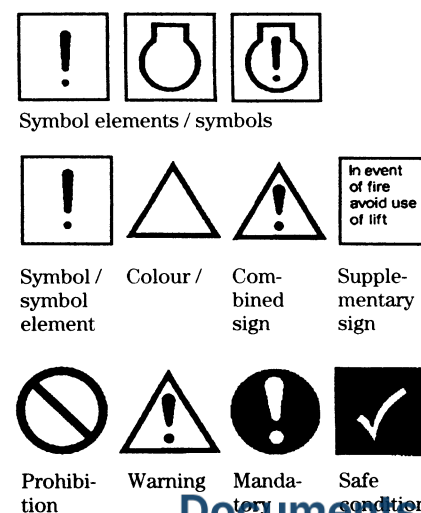
The majority of symbols in the basic standards are in black outline on white. Occasionally the outline is filled. For public information symbols the style is normally solid black on white.

Where a specific preference for the style is stated in a standard it is given in the notes attached to symbols in 3.2, 3.3, 3.4, 3.5 or 3.6. However explicit preferences are largely avoided in ISO 7000 and IEC 417. For practical purposes the choice of background material or method of reproduction is determined by ergonomic factors such as legibility, and any symbol image that makes use of the same 'artwork' as the original symbol, in positive or reversed format, in outline or even in stencil format, is likely to be acceptable.



#### COMBINED SYMBOLS

Earlier in this section the combination of symbol elements and the development of symbol sets is described. The lessons to be learned from the safety signs system and fire safety signs, which are an extension of that system, are that symbols themselves can be combined to convey further messages. In addition they can be combined with colour and geometric shape, as well as supplementary signs and directional arrows to elucidate and exploit a comprehensive graphical symbol system.



### 3.2 Symbols in relation to ISO 7000

The main review of symbols in ISO 7000 and IEC 417 is contained in sections 3.2 and 3.3. In these sections each ISO or IEC symbol is followed by other related symbols. The relationship may refer either to the graphic image or to the referent and may be identical, similar or conflicting. The ISO or IEC reference is given in bold to the left of the entry, followed immediately by the ISO or IEC symbol entry: symbol image, symbol referent, symbol notes. This is followed in turn by other selected comparative symbol entries in numerical sequence. Each symbol entry is headed by a sequential number which is used in the index. Although the ISO references 0949 and 0950 and those between 1141 and 1707 have been allocated in published ISO standards they have not as yet been published in ISO 7000 itself.

#### 0001

- 1  
 ISO 7000: 1989: 0001  
 Limited rectilinear motion  
*Avoid ambiguity in orientation*
- 2  
 BS 3641: 1: 1971: 1.2.04  
 Limited rectilinear motion
- 3  
 BS 5951: 1982: A048  
 Limited linear motion in one direction
- 4  
 ISO/R 369: 1964: 004  
 Limited rectilinear motion
- 5  
 ISO 5232: 1988: A060  
 Movement in arrow direction: limited
- 6  
 ISO 1090: 1981: 04a  
 Non-decimal tabulating on typewriters for languages written from left to right
- 7  
 IEC 878: 1988: 01-54  
 Limited rectilinear motion
- 8  
 ISO 4196: 1984: 4.1.2e  
 Nature; limited; linear
- 9  
 ISO 1090: 1981: 04b  
 Non-decimal tabulating on typewriters for languages written from right to left

#### 0002

- 10  
 ISO 7000: 1989: 0002  
 Limited rectilinear motion and return
- 11  
 BS 5951: 1982: A053  
 Limited linear motion: Limited motion and return (for one cycle)
- 12  
 ISO/R 369: 1964: 005  
 Limited rectilinear motion and return
- 13  
 ISO 5232: 1988: A066  
 Limited rectilinear motion and return

#### 0003

- 14  
 ISO 7000: 1989: 0003  
 Limited reciprocating rectilinear motion (continuous)
- 15  
 BS 3641: 1: 1971: 1.2.06  
 Oscillating rectilinear motion
- 16  
 BS 5951: 1982: A055  
 Limited linear motion: Limited motion and return (continuous)

#### 0004

- 17  
 ISO/R 369: 1964: 006  
 Oscillating rectilinear motion (continuous)
- 18  
 ISO 7000: 1989: 0004  
 Direction of continuous rotation  
*Avoid ambiguity in orientation*

- 19  
 ISO 4196: 1984: 4.1.1g  
 Direction; rotational; partial; anticlockwise
- 20  
 BS 3641: 1: 1971: 1.2.07  
 Direction of continuous rotation
- 21  
 BS 5951: 1982: A047  
 Continuous circular movement: Rotation in one direction (clockwise rotary)
- 22  
 ISO/R 369: 1964: 007  
 Direction of continuous rotation
- 23  
 ISO 3719: 1982: A.16  
 Direction of continuous rotation
- 24  
 ISO 5232: 1988: A059  
 Direction of rotation
- 25  
 ISO 3287: 1978: 5.10.2  
 Rotate; clockwise  
*Style. Symbols may be black on white as well as white on black*
- 26  
 ISO 4196: 1984: 4.1.1f  
 Direction; rotational; partial; clockwise
- 27  
 IEC 118-11: 1983.4.1.4b  
 Less/more  
*Direction of arrow indicates more. See ISO 4196*

|                                                                                     |                                                                                             |                                                                                     |                                                                                                            |                                                                                       |                                                                                                                         |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|    | 28<br>ISO 7296-1 1991: 004<br>Rotation, counter-clockwise                                   |    | 41<br>BS 3641: 1: 1971: 1.2.10<br>Limited rotation                                                         |    | 53<br>ISO/R 369: 1964: 012<br>Oscillating rotary movement<br>(continuous)                                               |
|    | 29<br>ISO 7296-1 1991: 003<br>Rotation clockwise                                            |    | 42<br>BS 5951: 1982: A049<br>Limited circular movement:<br>Rotation in one direction<br>(clockwise rotary) | <b>0009</b>                                                                           | 54<br>ISO 7000: 1989: 0009<br>One revolution                                                                            |
|    | 30<br>ISO 2047: 1975: 0.08<br>Backspace                                                     |    | 43<br>ISO/R 369: 1964: 010<br>Limited rotation                                                             |    | 55<br>BS 3641: 1: 1971: 3.1.02<br>One revolution                                                                        |
| <b>0005</b>                                                                         | 31<br>ISO 7000: 1989: 0005<br>Rotation in two directions                                    |    | 44<br>ISO 5232: 1988: A061<br>Limited rotation                                                             |    | 56<br>BS 5951: 1982: A057<br>Limited circular movement :<br>One revolution                                              |
|    | 32<br>BS 3641: 1: 1971: 1.2.08<br>Rotation in two directions                                | <b>0007</b>                                                                         | 45<br>ISO 7000: 1989: 0007<br>Limited rotation and return                                                  |    | 57<br>ISO/R 369: 1964: 014<br>One revolution                                                                            |
|    | 33<br>BS 5951: 1982: A051<br>Continuous circular<br>movement: Rotation in two<br>directions |   | 46<br>BS 3641: 1: 1971: 1.2.11<br>Limited rotation and return                                              |   | 58<br>ISO 5232: 1988: A102<br>One revolution                                                                            |
|  | 34<br>ISO/R 369: 1964: 008<br>Rotation in two directions                                    |  | 47<br>BS 5951: 1982: A054<br>Limited circular movement:<br>Limited rotation and return<br>(for one cycle)  |  | 59<br>ISO 4196: 1984: 4.1.2f<br>Nature; rotational, one<br>revolution                                                   |
|  | 35<br>ISO 3719: 1982: A.17<br>Rotation in two directions                                    |  | 48<br>ISO/R 369: 1964: 011<br>Limited rotation and return                                                  | <b>0010</b>                                                                           | 60<br>ISO 7000: 1989: 0010<br>Number of revolutions per<br>minute; rotational speed                                     |
|  | 36<br>ISO 5232: 1988: A064<br>Rotation in two directions                                    |  | 49<br>ISO 5232: 1988: A067<br>Limited rotation and return                                                  |  | 61<br>BS 5951: 1982: A058<br>Continuous circular<br>movement: Number of<br>revolutions per minute<br>(rotational speed) |
|  | 37<br>IEC 878: 1988: 01-58<br>Rotation in two directions                                    | <b>0008</b>                                                                         | 50<br>ISO 7000: 1989: 0008<br>Oscillating rotary movement<br>(continuous)                                  |  | 62<br>ISO 7639: 1985: 3.3.08<br>Engine rotational speed<br>(r/min)                                                      |
|  | 38<br>ISO 7296-1 1991: 005<br>Rotation in both directions,<br>unlocked                      |  | 51<br>BS 3641: 1: 1971: 1.2.12<br>Oscillating rotation                                                     |  | 63<br>ISO/R 369: 1964: 015<br>Number of revolutions per<br>minute (spindle speed)                                       |
| <b>0006</b>                                                                         | 39<br>ISO 7000: 1989: 0006<br>Limited rotation<br><i>Avoid ambiguity in<br/>orientation</i> |  | 52<br>BS 5951: 1982: A056<br>Limited circular movement:<br>Oscillating movement<br>(continuous)            |  | 64<br>ISO 5232: 1988: A105<br>Rotational frequency,<br>revolutions per minute                                           |
|  | 40<br>BS 3641: 1: 1971: 4.1.03<br>Stepless regulation                                       |                                                                                     |                                                                                                            |                                                                                       |                                                                                                                         |

0011

- 65  
 ISO 7000: 1989: 0011  
 Electric motor
- 66  
 BS 3641: 1: 1971: 2.1.15  
 Electric motor
- 67  
 BS 4964: 1: 1981: 6.38  
 Motor
- 68  
 BS 5951: 1982: A084  
 Electric motor
- 69  
 ISO/R 369: 1964: 041  
 Electric motor
- 70  
 ISO 5232: 1988: A080  
 Electric motor
- 71  
 BS 4964: 1: 1981: 6.38c  
 Mains voltage electric motor
- 72  
 BS 4964: 1: 1981: 6.38d  
 Extra low voltage motor

0012

- 73  
 ISO 7000: 1989: 0012  
 Gear drive
- 74  
 BS 3641: 1: 1971: 2.1.18  
 Gear drive
- 75  
 BS 5951: 1982: A085  
 Gear drive
- 76  
 ISO 5232: 1988: A081  
 Gear drive

0013

- 77  
 ISO 7000: 1989: 0013  
 Belt drive

- 78  
 BS 3641: 1: 1971: 2.1.17  
 Belt drive

- 79  
 BS 5951: 1982: A086  
 Belt drive

- 80  
 ISO 5232: 1988: A082  
 Belt drive

- 81  
 PD 6490: 1980: 21  
 Belt tension

0014

- 82  
 ISO 7000: 1989: 0014  
 Chain drive

- 83  
 BS 5951: 1982: A087  
 Chain drive

- 84  
 ISO 5232: 1988: A083  
 Chain drive

0015

- 85  
 ISO 7000: 1989: 0015  
 Coupling

- 86  
 BS 5951: 1982: A088  
 Coupling

- 87  
 ISO 5232: 1988: A085  
 Coupling

0016

- 88  
 ISO 7000: 1989: 0016  
 Cam
- 89  
 BS 3641: 1: 1971: 2.1.20  
 Cam

- 90  
 BS 5951: 1982: A089  
 Cam

- 91  
 ISO 5232: 1988: A084  
 Cam

0017

- 92  
 ISO 7000: 1989: 0017  
 Automatic control (closed loop)

- 93  
 BS 5951: 1982: A028  
 Automatic control (closed loop)

- 94  
 ISO 7639: 1985: 3.2.15  
 Automatic process

- 95  
 ISO 5232: 1988: A050  
 Automatic control

- 96  
 ISO/IEC 6329: 1989: 2.03.03  
 Automatic control (closed loop)

- 97  
 IEC 878: 1988: 01-46  
 Automatic control (closed loop)

0018

- 98  
 ISO 7000: 1989: 0018  
 Lock; tighten

- 99  
 BS 3641: 1: 1971: 4.1.05  
 Lock or tighten

- 100  
 BS 3641: 3: 1973: 2.1.66  
 Clamp

- 101  
 BS 3641: 3: 1973: 6.1.51  
 Close or lock puller head (broaching machine)

- 102  
 BS 4964: 1: 1981: 6.15  
 Clamp/hold  
*Orientation. May be changed through 90°*

|                                                                                     |                                                                                                    |                                                                                     |                                                                                                                      |                                                                                       |                                                                                                   |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|    | 103<br>BS 5951: 1982: A072<br>Lock or tighten                                                      |    | 116<br>ISO 5232: 1988: A072<br>Unlock; unclamp                                                                       |    | 129<br>ISO 7296-1 1991: 054<br>Brake applied                                                      |
|    | 104<br>ISO 3719: 1982: A.10a<br>Lock or tighten                                                    |    | 117<br>ISO 1090: 1981: 01<br>Margin release                                                                          | <b>0021</b>                                                                           |                                                                                                   |
|    | 105<br>ISO 5232: 1988: A071<br>Lock; clamp; tighten                                                |    | 118<br>IEC 878: 1988: 01-50<br>Unlock, unclamp                                                                       |    | 130<br>ISO 7000: 1989: 0021<br>Brake off                                                          |
|    | 106<br>IEC 878: 1988: 01-49<br>Lock or tighten                                                     |    | 119<br>ISO 3719: 1982: A.11b<br>Unlock, unclamp<br>(chuck open)                                                      |    | 131<br>BS 3641: 1: 1971: 4.1.10<br>Brake off                                                      |
|    | 107<br>ISO/R 369: 1964: 063a<br>Lock or tighten                                                    |    | 120<br>ISO 3719: 1982: A.11b<br>Unlock, unclamp (chuck open)                                                         |    | 132<br>BS 5951: 1982: A075<br>Brake off                                                           |
|    | 108<br>ISO/R 369: 1964: 063b<br>Lock or tighten                                                    |    | <b>0020</b>                                                                                                          |    | 133<br>ISO 7639: 1985: 3.2.14<br>Brake off                                                        |
|  | 109<br>ISO 3719: 1982: A.10b<br>Lock or tighten                                                    |  | 121<br>ISO 7000: 1989: 0020<br>Brake on                                                                              |   | 134<br>ISO/R 369: 1964: 066<br>Brake off                                                          |
| <b>0019</b>                                                                         |                                                                                                    |  | 122<br>BS 3641: 1: 1971: 4.1.09<br>Brake on                                                                          |  | 135<br>ISO 3719: 1982: A.13<br>Brake off                                                          |
|  | 110<br>ISO 7000: 1989: 0019<br>Unlock; unclamp                                                     |  | 123<br>BS 4964: 1: 1981: 6.11b<br>Brake on<br><i>Orientation. Symbol may be reorientated or reversed (brake off)</i> |  | 136<br>ISO 5232: 1988: A074<br>Brake off                                                          |
|  | 111<br>BS 3641: 1: 1971: 4.1.07<br>Unlock or untighten                                             |  | 124<br>BS 5951: 1982: A074<br>Brake on                                                                               |  | 137<br>ISO 7296-1 1991: 055<br>Brake released                                                     |
|  | 112<br>BS 4964: 1: 1981: 6.16<br>Unclamp/release<br><i>Orientation. May be changed through 90°</i> |  | 125<br>ISO 7639: 1985: 3.2.13<br>Brake, on                                                                           | <b>0022</b>                                                                           |                                                                                                   |
|  | 113<br>BS 5951: 1982: A073<br>Unlock, unclamp                                                      |  | 126<br>ISO/R 369: 1964: 065<br>Brake on                                                                              |  | 138<br>ISO 7000: 1989: 0022<br>Engaging; mechanical activation                                    |
|  | 114<br>ISO/R 369: 1964: 064a<br>Unlock, unclamp (chuck open)                                       |  | 127<br>ISO 3719: 1982: A.12<br>Brake on                                                                              |  | 139<br>BS 3641: 1: 1971: 4.1.06<br>Lock or tighten                                                |
|  | 115<br>ISO 3719: 1982: A.11a<br>Unlock, unclamp (chuck open)                                       |  | 128<br>ISO 5232: 1988: A073<br>Brake on                                                                              |  | 140<br>BS 3641: 1: 1971: 4.1.16<br>Engage                                                         |
|                                                                                     |                                                                                                    |                                                                                     |                                                                                                                      |  | 141<br>BS 4964: 1: 1981: 6.13<br>Engage<br><i>Orientation. May be changed through 90° or 180°</i> |

|                                                                                     |                                                                                                                   |                                                                                     |                                                                                                                      |                                                                                       |                                                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|    | 142<br>BS 5951: 1982: A070<br>Engaging (mechanical enable)                                                        |    | 154<br>BS 6309: 1982: 04.04<br>General — Disengage                                                                   |    | 167<br>ISO/IEC 6329: 1989: 2.10.09<br>Closing (lid or cover)                    |
|    | 143<br>BS 6309: 1982: 04.03<br>General — Engage                                                                   |    | 155<br>ISO/R 369: 1964: 075<br>Disengaging (mechanical stop)                                                         |    | 168<br>IEC 878: 1988: 01-67<br>Close (a container)                              |
|    | 144<br>ISO/R 369: 1964: 074<br>Engaging (mechanical start)                                                        |    | 156<br>ISO 5232: 1988: A108<br>Disengaging                                                                           | <b>0026</b>                                                                           | 169<br>ISO 7000: 1989: 0026<br>Automatic cycle; semi-automatic cycle            |
|    | 145<br>ISO 5232: 1988: A109<br>Engaging                                                                           |    | 157<br>IEC 878: 1988: 01-48<br>Disengaging (mechanical deactivation)                                                 |    | 170<br>BS 3641: 1: 1971: 1.3.01<br>Automatic                                    |
|    | 146<br>IEC 878: 1988: 01-47<br>Engaging (mechanical activation)                                                   |    | 158<br>ISO 7296-1 1991: 057<br>Clutch disengaged                                                                     |    | 171<br>BS 5951: 1982: A027<br>Automatic cycle (or semi-automatic cycle)         |
|    | 147<br>ISO 7296-1 1991: 056<br>Clutch engaged                                                                     |    | 159<br>ISO 3767: 1: 1991: 07.05<br>Disengage<br><i>Symbol may be rotated 90° for a clearer visual representation</i> |   | 172<br>ISO/R 369: 1964: 067<br>Automatic (or semi-automatic) cycle              |
|  | 148<br>ISO 3767: 1: 1991: 07.04<br>Engage<br><i>Symbol may be rotated 90° for a clearer visual representation</i> | <b>0024</b>                                                                         | 160<br>ISO 7000: 1989: 0024<br>Open (a container)                                                                    |  | 173<br>ISO 3719: 1982: A.14<br>Automatic (or semi-automatic cycle)              |
| <b>0023</b>                                                                         | 149<br>ISO 7000: 1989: 0023<br>Disengaging; mechanical deactivation                                               |  | 161<br>BS 5951: 1982: A061<br>Opening                                                                                |  | 174<br>ISO 5232: 1988: A049<br>Continuous automatic cycles                      |
|  | 150<br>BS 3641: 1: 1971: 4.1.08<br>Unlock or untighten                                                            |  | 162<br>ISO 5232: 1988: A106<br>Open                                                                                  |  | 175<br>ISO/IEC 6329: 1989: 2.03.02<br>Automatic cycle (or semi-automatic cycle) |
|  | 151<br>BS 3641: 1: 1971: 4.1.17<br>Disengage                                                                      |  | 163<br>IEC 878: 1988: 01-68<br>Open (a container)                                                                    |  | 176<br>BS 3641: 1: 1971: 4.1.18<br>Emergency return of automatic cycle to start |
|  | 152<br>BS 4964: 1: 1981: 6.14<br>Disengage<br><i>Orientation. May be changed through 90° or 180°</i>              | <b>0025</b>                                                                         | 164<br>ISO 7000: 1989: 0025<br>Close (a container)                                                                   | <b>0027</b>                                                                           | 177<br>ISO 7000: 1989: 0027<br>Cooling                                          |
|  | 153<br>BS 5951: 1982: A071<br>Disengaging (mechanical disable)                                                    |  | 165<br>BS 5951: 1982: A062<br>Closing                                                                                |  | 178<br>BS 5951: 1982: A023<br>Cooling                                           |
|                                                                                     |                                                                                                                   |  | 166<br>ISO 5232: 1988: A107<br>Close                                                                                 |                                                                                       |                                                                                 |



179  
ISO 1950: 1974: 1.03  
Air conditioning  
*Style. Black on white or  
white on black*



180  
ISO 5232: 1988: A111  
Cooling



181  
ISO 2575: 1982: 4.38  
Air condition system



182  
ISO 6405-1: 1991: 15.02  
Cooling/air conditioning  
system



183  
ISO 7296-1 1991: 066  
Air-conditioner



184  
ISO 3767: 1: 1991: 15.02  
Cooling/air conditioning  
system

**0028**



185  
ISO 7000: 1989: 0028  
Filling



186  
BS 3641: 1: 1971: 1.4.11  
Filling



187  
BS 5951: 1982: A076  
Filling



188  
ISO/R 369: 1964: 104  
Refilling



189  
ISO 5232: 1988: A025  
Filling

**0029**



190  
ISO 7000: 1989: 0029  
Draining; emptying



191  
BS 3641: 1: 1971: 1.4.12  
Draining



192  
BS 5951: 1982: A077  
Draining, emptying



193  
ISO/R 369: 1964: 106  
Drain



194  
ISO 5232: 1988: A026  
Draining



195  
ISO 6405-1: 1991: 07.27  
Draining/emptying



196  
ISO 3767: 1: 1991: 07.31  
Draining/emptying

**0030**



197  
ISO 7000: 1989: 0030  
Overflow



198  
BS 5951: 1982: A078  
Overflow



199  
ISO 5232: 1988: A027  
Overflow

**0031**



200  
ISO 7000: 1989: 0031  
Lubrication



201  
BS 5951: 1982: A100  
Lubrication



202  
ISO 5232: 1988: A024  
Lubrication

**0032**



203  
ISO 7000: 1989: 0032  
Blowing



204  
BS 3641: 1: 1971: 1.4.13  
Blowing unit



205  
BS 5951: 1982: A079  
Blowing



206  
ISO/R 369: 1964: 108  
Blowing unit



207  
ISO 5232: 1988: A116  
Blowing



208  
ISO/IEC 6329: 1989: 2.05.11  
Blowing

**0033**



209  
ISO 7000: 1989: 0033  
Suction



210  
BS 3641: 1: 1971: 1.4.14  
Suction unit



211  
BS 5951: 1982: A080  
Suction



212  
ISO/R 369: 1964: 109  
Suction unit



213  
ISO 5232: 1988: A117  
Suction



214  
ISO/IEC 6329: 1989: 2.05.10  
Suction

**0034**



215  
ISO 7000: 1989: 0034  
Temperature



216  
BS 3641: 1: 1971: 3.1.11  
Temperature



217  
BS 4964: 1: 1981: 7.14  
Temperature



218  
BS 5951: 1982: A041  
Temperature

|                                                                                     |                                                                        |                                                                                     |                                                                                                               |                                                                                       |                                                                                                    |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|    | 219<br>ISO 7639: 1985: 3.3.07<br>Temperature and<br>temperature sensor |    | 232<br>IEC 878: 1988: 01-34<br>Decreasing temperature                                                         |    | <b>0041</b><br>244<br>ISO 7000: 1989: 0041<br>Adjust right-hand entry<br>guide                     |
|    | 220<br>ISO 5232: 1988: A115<br>Thermometer; temperature                |    | <b>0037</b><br>233<br>ISO 7000: 1989: 0037<br>Wind (continuous material);<br>unroll (continuous material)     |    | 245<br>BS 5951: 1982: B041<br>Adjust right hand entry<br>guide                                     |
|    | 221<br>IEC 878: 1988: 01-33<br>Temperature                             |    | 234<br>BS 5951: 1982: A059<br>Wind (continuous material).<br>Roll (continuous material)                       |    | 246<br>ISO 5232: 1988: B023<br>Adjust right-hand entry<br>guide                                    |
|    | 222<br>ISO 6405-1: 1991: 06.14<br>Temperature                          |    | 235<br>ISO 5232: 1988: A125<br>Wind; roll; batch                                                              |    | <b>0042</b><br>247<br>ISO 7000: 1989: 0042<br>Adjust left-hand entry guide                         |
|    | 223<br>ISO 7296-1 1991: 059<br>Temperature                             |    | <b>0038</b><br>236<br>ISO 7000: 1989: 0038<br>Unwind (continuous<br>material); unroll<br>(continuous)material |    | 248<br>BS 5951: 1982: B042<br>Adjust left hand entry guide                                         |
| <b>0034</b>                                                                         | 224<br>ISO 3767: 1: 1991: 06.14<br>Temperature                         |   | 237<br>BS 5951: 1982: A060<br>Unwind (continuous<br>material). Unroll<br>(continuous material)                |   | 249<br>ISO 5232: 1988: B024<br>Adjust left-hand entry guide                                        |
|   |                                                                        |   |                                                                                                               |   |                                                                                                    |
| <b>0035</b>                                                                         | 225<br>ISO 7000: 1989: 0035<br>Increasing temperature                  |  | 238<br>ISO 5232: 1988: A124<br>Unwind; unroll                                                                 |  | <b>0043</b><br>250<br>ISO 7000: 1989: 0043<br>Passage of continuous<br>material over driven roller |
|  |                                                                        |  |                                                                                                               |  |                                                                                                    |
|  | 226<br>BS 5951: 1982: A042<br>Increasing temperature                   |  | 239<br>ISO 7000: 1989: 0039<br>Fold (continuous] materia)                                                     |  | 251<br>BS 5951: 1982: B089<br>Passage of continuous<br>material over driven roller                 |
|  |                                                                        |  |                                                                                                               |  |                                                                                                    |
|  | 227<br>PD 6490: 1980: 50<br>Heating                                    |  | 240<br>BS 5951: 1982: B017<br>Fold (continuous material)                                                      |  | 252<br>ISO 5232: 1988: B004<br>Passage of material over roller                                     |
|  |                                                                        |  |                                                                                                               |  |                                                                                                    |
|  | 228<br>IEC 878: 1988: 01-35<br>Increasing temperature                  |  | 241<br>ISO 5232: 1988: B091<br>Plaiting of fabric                                                             |  | <b>0044</b><br>253<br>ISO 7000: 1989: 0044<br>Selvedge guiding                                     |
|  |                                                                        |  |                                                                                                               |  |                                                                                                    |
|  | 229<br>ISO 7000: 1989: 0036<br>Decreasing temperature                  |  | 242<br>ISO 7000: 1989: 0040<br>Adjust guide width at entry                                                    |  | 254<br>BS 5951: 1982: B043<br>Selvedge guiding                                                     |
|  |                                                                        |  |                                                                                                               |  |                                                                                                    |
|  | 230<br>BS 5951: 1982: A043<br>Decreasing temperature                   |  | 243<br>BS 5951: 1982: B040<br>Adjust guide width at entry                                                     |  | 255<br>ISO 5232: 1988: B014<br>Fabric guiding; fabric guider                                       |
|  |                                                                        |  |                                                                                                               |  |                                                                                                    |
|  | 231<br>PD 6490: 1980: 49<br>Cooling                                    |                                                                                     |                                                                                                               |                                                                                       |                                                                                                    |

**0045**

 256  
ISO 7000: 1989: 0045  
Selvedge uncurling

 257  
BS 5951: 1982: B044  
Selvedge uncurling

 258  
ISO 5232: 1988: B015  
Selvedge uncurling

**0046**

 259  
ISO 7000: 1989: 0046  
Cloth expander

 260  
BS 5951: 1982: B045  
Cloth expander

 261  
ISO 5232: 1988: B022  
Cloth expanding

**0047**

 262  
ISO 7000: 1989: 0047  
Change direction of continuous material

 263  
BS 5951: 1982: B046  
Traverse continuous material. Change direction of continuous material

 264  
ISO 5232: 1988: B021  
Change direction of fabric

**0048**

 265  
ISO 7000: 1989: 0048  
Weft bow correction (selvedge advanced)

 266  
BS 5951: 1982: B047  
Weft bow correction (centre advance)

 267  
ISO 5232: 1988: B025  
Fabric bow, centre advanced

**0049**

 268  
ISO 7000: 1989: 0049  
Weft bow correction (selvedge advanced — centre retained)

 269  
BS 5951: 1982: B048  
Weft bow correction (selvedge advanced — centre retained)

 270  
ISO 5232: 1988: B026  
Fabric bow, selvedge advanced

 271  
BS 4964: 1: 1981: 6.02.7  
Direction; rotate (slew) clockwise

**0050**

 272  
ISO 7000: 1989: 0050  
Skew correction — right hand selvedge

 273  
BS 5951: 1982: B049  
Skew correction: Right hand selvedge

 274  
ISO 5232: 1988: B027  
Fabric skew, right-hand selvedge advanced

**0051**

 275  
ISO 7000: 1989: 0051  
Skew correction — left-hand selvedge

 276  
BS 5951: 1982: B050  
Skew correction: Left hand selvedge

 277  
ISO 5232: 1988: B028  
Fabric skew, left-hand selvedge advanced

**0052**

 278  
ISO 7000: 1989: 0052  
Cutting of material at centre



279  
BS 5951: 1982: B070  
Cutting of material at centre



280  
ISO 5232: 1988: B061  
Cutting material at centre

**0053**

 281  
ISO 7000: 1989: 0053  
Multiple cutting of material



282  
BS 5951: 1982: B072  
Multiple cutting of material



283  
ISO 5232: 1988: B063  
Multiple cutting of material

**0054**

 284  
ISO 7000: 1989: 0054  
Cut (trim) edges of continuous material



285  
BS 5951: 1982: B071  
Cut (trim) edges of continuous material



286  
ISO 5232: 1988: B062  
Cut selvedges of material

**0055**

 287  
ISO 7000: 1989: 0055  
Suction removal of trimmed edges



288  
BS 5951: 1982: B035  
Suction removal of trimmed edges



289  
ISO 5232: 1988: B018  
Suction removal of selvedge

**0056**

 290  
ISO 7000: 1989: 0056  
Reinforcement (stiffening) of edges



291  
BS 5951: 1982: B036  
Selvedges gumming

 292  
ISO 5232: 1988: B016  
Selvedge stiffening  
(gumming)

**0057**

 293  
ISO 7000: 1989: 0057  
Opening of selvedge loops

 294  
BS 5951: 1982: B037  
Open selvedge loops

 295  
ISO 5232: 1988: B017  
Opening of selvedge loops

**0058**

 296  
ISO 7000: 1989: 0058  
Entry control

 297  
BS 5951: 1982: B002  
Entry control

**0059**

 298  
ISO 7000: 1989: 0059  
Delivery control

 299  
BS 5951: 1982: B003  
Delivery control

**0060**

 300  
ISO 7000: 1989: 0060  
Seam guide

 301  
BS 5951: 1982: B004  
Seam guard

**0061**

 302  
ISO 7000: 1989: 0061  
Straining element; clip

 303  
BS 5951: 1982: B054  
Clip

 304  
ISO 5232: 1988: B044  
Cloth clip

**0062**

 305  
ISO 7000: 1989: 0062  
Clip cleaner

 306  
BS 5951: 1982: B055  
Cleaning clips

 307  
ISO 5232: 1988: B045  
Clip cleaner

**0063**

 308  
ISO 7000: 1989: 0063  
Edge pin; pin plate

 309  
BS 5951: 1982: B056  
Edge pin (or pin plate)

 310  
ISO 5232: 1988: B046  
Edge pin (pin plate)

**0064**

 311  
ISO 7000: 1989: 0064  
Overfeed pinning

 312  
BS 5951: 1982: B058  
Overfeed pinning

 313  
ISO 5232: 1988: B048  
Overfeed pinning

**0065**

 314  
ISO 7000: 1989: 0065  
Clean edge pins (pin plates)

 315  
BS 5951: 1982: B057  
Clean edge pins (pin plates)

 316  
ISO 5232: 1988: B047  
Clean edge pins (clean pin  
plates)

**0066**

 317  
ISO 7000: 1989: 0066  
Increase width

 318  
BS 5951: 1982: B051  
Increase width

 319  
ISO 5232: 1988: B012  
Fabric web width  
enlargement

**0067**

 320  
ISO 7000: 1989: 0067  
Reduce width

 321  
BS 5951: 1982: B052  
Reduce width

 322  
ISO 5232: 1988: B013  
Fabric web width narrowing

**0068**

 323  
ISO 7000: 1989: 0068  
Width adjustment

 324  
BS 5951: 1982: B053  
Width adjustment

 325  
ISO 5232: 1988: B020  
Additional fabric width  
adjustment

**0069**

 326  
ISO 7000: 1989: 0069  
Shear; crop

 327  
BS 5951: 1982: B108  
Shear, crop

 328  
ISO 5232: 1988: B080  
Shear of fabric (crop of  
fabric)

**0070**

 329  
ISO 7000: 1989: 0070  
Brushing by means of a  
totating brush

 330  
BS 5951: 1982: B098  
Brushing



331  
ISO 5232: 1988: B071  
Brushing by means of a rotating brush

## 0071



332  
ISO 7000: 1989: 0071  
Brushing by means of a brush belt



333  
BS 5951: 1982: B099  
Brushing by means of belt brush



334  
ISO 5232: 1988: B069  
Brushing by means of brush belt

## 0072



335  
ISO 7000: 1989: 0072  
Cleaning of tracks



336  
BS 5951: 1982: B107  
Fabric cleaning



337  
ISO 5232: 1988: B064  
Cleaning of fabric

## 0073



338  
ISO 7000: 1989: 0073  
Spraying  
*See also shower*



339  
BS 5951: 1982: A101  
Spraying



340  
ISO 5232: 1988: A120  
Spraying

## 0074



341  
ISO 7000: 1989: 0074  
Raise and lower trough



342  
BS 5951: 1982: A081  
Raise or lower trough

## 0075



343  
ISO 7000: 1989: 0075  
End of reel



344  
ISO 9878: 1990: 0075  
End of roll

## 0076



345  
ISO 7000: 1989: 0076  
Beginning of reel



346  
ISO 9878: 1990: 0076  
Beginning of roll

## 0077



347  
ISO 7000: 1989: 0077  
Original difficult to read



348  
ISO 9878: 1990: 0077  
Original difficult to read

## 0078



349  
ISO 7000: 1989: 0078  
Damaged text; wrong binding



350  
ISO 9878: 1990: 0078  
Damaged text. Wrong binding

## 0079



351  
ISO 7000: 1989: 0079  
Incorrect numbering; incorrect date



352  
ISO 9878: 1990: 0079  
Incorrect numbering. Incorrect date

## 0080



353  
ISO 7000: 1989: 0080  
Repetition of image



354  
ISO 9878: 1990: 0080  
Repetition of image

## 0081



355  
ISO 7000: 1989: 0081  
Missing pages (issues)



356  
ISO 9878: 1990: 0081  
Missing pages

## 0082



357  
ISO 7000: 1989: 0082  
High beam; upper beam



358  
BS 4964: 1: 1981: 6.31.2b  
Lighting; headlamp — main (driving) beam  
*Style. Outline symbol*



359  
BS 6309: 1982: 06.01  
Lights — Upper beam



360  
ISO 2575: 1982: 4.01  
Upper beam  
*Colour. Steady blue tell-tale*



361  
ISO 3287: 1978: 7.08  
Headlights  
*Style. Symbols may be black on white as well as white on black*



362  
ISO 6727: 1981: 5.01a  
Headlamp beam control; main beam  
*Colour. Blue tell-tale*



363  
ISO 6405-1: 1991: 13.01  
Headlights — Main/high beam



364  
ISO 3767: 1: 1991: 13.01  
Headlights — Main high-beam

|                                                                                     |                                                                                                                                                                                                         |                                                                                     |                                                                                                                                                                                                                 |                                                                                       |                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | 365<br>BS 4964: 1: 1981: 6.31.2a<br>Lighting; headlamp — main (driving) beam (alternative)<br><i>Colour. Associated with a steady blue light when used as a tell-tale</i><br><i>Style. Solid symbol</i> |    | 375<br>BS 4964: 1: 1981: 6.32<br>Turn signals<br><i>Style. Outline or solid symbol</i><br><i>Colour. Any associated tell-tale signal lamps should be green</i><br><i>Left and right arrows may be separated</i> |    | 384<br>BS 4964: 1: 1981: 6.33<br>untitled (simultaneous action of direction indicators)<br><i>Colour. Associated with simultaneous operation of both green turn signal tell-tales or separate red tell-tales</i> |
| <b>0083</b>                                                                         |                                                                                                                                                                                                         |                                                                                     |                                                                                                                                                                                                                 |                                                                                       |                                                                                                                                                                                                                  |
|    | 366<br>ISO 7000: 1989: 0083<br>Low beam; dipped beam                                                                                                                                                    |    | 376<br>BS 6309: 1982: 06.07<br>Lights — Turn signals                                                                                                                                                            |    | 385<br>BS 6309: 1982: 06.08<br>Lights — Hazard warning (flasher)                                                                                                                                                 |
|    | 367<br>BS 4964: 1: 1981: 6.31.3a<br>Lighting; headlamp — dipped (passing) beam<br><i>Style. Outline symbol</i>                                                                                          |    | 377<br>ISO 2575: 1982: 4.03<br>Turn signals<br><i>Colour. Flashing green light(s)</i>                                                                                                                           |    | 386<br>ISO 2575: 1982: 4.04<br>Hazard warning<br><i>Colour. Simultaneous operation of both green turn signal tell-tales, or separate red signal</i>                                                              |
|    | 368<br>BS 4964: 1: 1981: 6.31.3b<br>Lighting; headlamp — dipped (passing) beam (alternative)<br><i>Style. Solid symbol</i>                                                                              |    | 378<br>ISO 6727: 1981: 5.02<br>Turn signal (also alternative hazard warning)<br><i>Colour. Amber or green tell-tale</i>                                                                                         |   | 387<br>ISO 6727: 1981: 5.03<br>Hazard warning (also 5.02)<br><i>Colour. Red tell-tale</i>                                                                                                                        |
|  | 369<br>BS 6309: 1982: 06.02<br>Lights — Lower beam                                                                                                                                                      |  | 379<br>ISO 6405-1: 1991: 13.09<br>Turn signals                                                                                                                                                                  |  | 388<br>ISO 6405-1: 1991: 13.05<br>Hazard warning lights                                                                                                                                                          |
|  | 370<br>ISO 2575: 1982: 4.02<br>Lower beam                                                                                                                                                               |  | 380<br>ISO 3767: 1: 1991: 13.09<br>Turn signals                                                                                                                                                                 |  | 389<br>ISO 3767: 1: 1991: 13.05<br>Hazard warning lights                                                                                                                                                         |
|  | 371<br>ISO 6727: 1981: 5.01b<br>Headlamp beam control; dipped beam<br><i>Colour. Blue tell-tale</i>                                                                                                     |  | 381<br>BS 4964: 2: 1981: 3.02.1<br>Turn signal; tractor or self-propelled machine with one trailer                                                                                                              | <b>0086</b>                                                                           | 390<br>ISO 7000: 1989: 0086<br>Windscreen wiper                                                                                                                                                                  |
|  | 372<br>ISO 6405-1: 1991: 13.02<br>Headlights — Dipped/low beam                                                                                                                                          |  | 382<br>BS 4964: 2: 1981: 3.02.2<br>Turn signal; tractor or self-propelled machine with two trailers                                                                                                             |  | 391<br>BS 4964: 1: 1981: 6.30.1<br>Windscreen wiper                                                                                                                                                              |
|  | 373<br>ISO 3767: 1: 1991: 13.02<br>Headlights — Dipped low-beam                                                                                                                                         | <b>0085</b>                                                                         | 383<br>ISO 7000: 1989: 0085<br>Hazard warning<br><i>See also 'Caution' ISO 7000: 1989: 0434</i>                                                                                                                 |  | 392<br>BS 6309: 1982: 26.03<br>Cab — Windshield wiper                                                                                                                                                            |
| <b>0084</b>                                                                         |                                                                                                                                                                                                         |  |                                                                                                                                                                                                                 |  | 393<br>ISO 2575: 1982: 4.05<br>Windshield wiper                                                                                                                                                                  |
|  | 374<br>ISO 7000: 1989: 0084<br>Turn signals                                                                                                                                                             |                                                                                     |                                                                                                                                                                                                                 |  | 394<br>ISO 3287: 1978: 7.05<br>Windshield wiper<br><i>Style. Symbols may be black on white as well as white on black</i>                                                                                         |