BS ISO 3767-3:2016



BSI Standards Publication

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

Part 3: Symbols for powered lawn and garden equipment



BS ISO 3767-3:2016 BRITISH STANDARD

National foreword

This British Standard is the UK implementation of ISO 3767-3:2016. It supersedes BS ISO 3767-3:1995 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee AGE/20, Powered lawn and garden equipment.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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

Part 3:

Symbols for powered lawn and garden equipment

Tracteurs, matériels agricoles et forestiers, matériel à moteur pour jardins et pelouses — Symboles pour les commandes de l'opérateur et autres indications —

Partie 3: Symboles pour matériel à moteur pour jardins et pelouses



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Co	ontents			
Fore	Forewordi			
1	Scope	1		
2	Normative references	1		
3	Terms and definitions			
4	General	2		
5	Colour			
6	Development of new symbols	3		
7	Adaptation of symbols as digital display icons			
8	Lawn and garden tractor symbols	4		
9	Riding lawn mower symbols	10		
10	Grass-cutting equipment symbols	10		
11	Tiller symbols	14		
12	Snow removal equipment symbols	15		
Bibl	liography	16		

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 23, *Tractors and machinery for agriculture and forestry*, SC 14, *Operator controls, operator symbols and other displays, operator manuals.*

This third edition cancels and replaces the second edition (ISO 3767-3:1995), which has been technically revised. Many new symbols have been added.

A list of all the parts in the ISO 3767 series can be found on the ISO website.

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

Part 3:

Symbols for powered lawn and garden equipment

1 Scope

This document standardizes symbols for use on operator controls and other displays on powered lawn and garden equipment.

NOTE 1 ISO 3767-1 covers common symbols that apply to multiple types of agricultural tractors and machinery, forestry machinery, and powered lawn and garden equipment. ISO 3767-2 covers symbols for agricultural tractors and machinery. ISO 3767-4 covers symbols for forestry machinery. ISO 3767-5 covers symbols for manual portable forestry machines.

NOTE 2 ISO 7000 and IEC 60417 can be consulted for additional internationally standardized symbols of potential relevance to powered lawn and garden equipment.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3767-1:2016, Tractors, machinery for agriculture and forestry, powered lawn and garden equipment — Symbols for operator controls and other displays—Part 1: Common symbols

IEC 80416-1, Basic principles for graphical symbols for use on equipment — Part 1: Creation of graphical symbols for registration

ISO 80416-2, Basic principles for graphical symbols for use on equipment — Part 2: Form and use of arrows

IEC 80416-3, Basic principles for graphical symbols for use on equipment — Part 3: Guidelines for the application of graphical symbols

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1

symbol

graphical symbol

visually perceptible figure used to transmit information independent of language

Note 1 to entry: It may be produced by drawing, printing or other means. Letters, numerals and mathematical symbols may be used as symbols or symbol elements. For some specific applications, groups of letters (for example, AUTO, STOP) are used as symbols or symbol elements.

Note 2 to entry: Letters and numerals are not registered by ISO/TC 145/SC 3 or published in ISO 7000 unless they are symbol elements embedded in graphical symbols.

3.2

icon

digital display icon

digitized (pixelated) representation of a graphical symbol, usually used on a reconfigurable electronic display screen or graphical user interface (GUI)

Note 1 to entry: A single symbol can be represented by multiple icons, each of a different size, pixel count or colourization.

4 General

- **4.1** Except where indicated in subsequent clauses, symbols shall be used as shown in this document.
- **4.2** Selected symbols, which are shown in outline form in this document, may be filled in actual use for enhanced clarity of reproduction and improved visual perception by the operator, except as otherwise specified for individual symbols, and in accordance with IEC 80416-3.
- **4.3** Limitations inherent in some reproduction and display technologies can require increased line width or other minor modifications of symbols. Such modifications are allowed, provided that the symbol remains conceptually unchanged in its basic graphical elements and is easily discernible by the operator.
- **4.4** To improve the appearance and perceptibility of a graphical symbol, or to coordinate with the design of the equipment to which it is applied, it can be necessary to modify the symbol as indicated in IEC 80416-3 (for example, to change the line width or to round the corners of the symbol). Such modifications are allowed, provided that the essential perceptible characteristics of the symbol are maintained.
- **4.5** For actual use, all symbols shall be reproduced large enough to be easily discernible by the operator. Follow IEC 80416-1 for the proper sizing of symbols. Symbols grouped together in a display or on a set of controls should be scaled to the same degree relative to the corner marks of the symbol original as shown in this document in order to maintain the correct visual relationship among the symbols. Symbols shall be used in the orientation shown in this document, unless rotation or mirror imaging is specifically allowed for individual symbols.
- **4.6** Most symbols are constructed using a building block approach in which various symbols and symbol elements are combined in a logical manner to produce a new symbol.
- **4.7** In some cases, symbols may be used in conjunction, without being combined into a composite symbol, to convey the same meaning as the composite symbol.
- **4.8** Symbols are generally intended to replace a word or words with a graphical image that has the same meaning for all operators, regardless of their native language. However, the use of a graphical symbol to identify a control or display does not preclude the use of words in conjunction with that control or display.

- **4.9** If a symbol shows a machine or parts of a machine from a side view, a machine moving from right to left across the symbol area shall be assumed. If a symbol shows a machine or parts of a machine from an overhead view, a machine moving from bottom to top across the symbol area shall be assumed.
- **4.10** Symbols on controls and displays shall have a good contrast to their background. A white or light-coloured symbol on a black or dark-coloured background is preferred for most controls. Displays may use either a white or light-coloured symbol on a black or dark-coloured background or a black or dark-coloured symbol on a white or light-coloured background, depending upon which alternative provides the best visual perception. When a symbol image is reversed (for example, from black-on-white to white-on-black or vice versa) this reversal shall be done for the entire symbol.
- **4.11** If symbols are cast, moulded, embossed or stamped into a surface, the symbols shall be visually distinct from that surface without dependence on colour.
- **4.12** Symbols shall be located on or adjacent to the control or display that is being identified. Where more than one symbol is required for a control, the symbols shall be located in relation to the control such that movement of the control towards the symbols shall effect the function depicted by that symbol.
- **4.13** Arrows used in symbols shall conform to the requirements of ISO 80416-2. IEC 80416-1 shall be consulted for the general principles for creating symbol originals. IEC 80416-3 should be consulted for guidelines for the application of symbols.
- **4.14** ISO/IEC registration numbers are shown for symbols which are registered in ISO 7000 or IEC 60417.
- NOTE Symbol originals are approved and registered either by ISO/TC 145/SC 3 and published in ISO 7000 or by IEC/SC 3C and published in IEC 60417. In some cases, modified or application symbols, rather than the registered symbol originals, are standardized in this document.
- **4.15** When letters or numerals are used in a symbol, the font shown shall not be considered definitive. Other fonts may be used so long as the letters and numerals remain legible.
- **4.16** Symbols in this document are shown within marks that delimit the corners of the 75 mm square basic pattern from IEC 80416-1. Corner marks are not part of the symbol, but are provided to ensure consistent presentation of all symbol graphics.

5 Colour

When used on illuminated displays, the following colours shall have the meanings indicated:

- red denotes a failure, serious malfunction or operating condition that requires immediate attention;
- yellow or amber denotes a condition outside normal operating limits;
- green denotes a normal operating condition.

6 Development of new symbols

6.1 Prior to developing a new symbol, a search should be conducted for previously standardized symbols with the same or similar meaning to what is needed. ISO 7000 and IEC 60417 (both available in database form) are compilations of internationally standardized symbols which can be useful both for finding appropriate symbols that do not appear in ISO 3767 and for generating concepts that can be used in the development of new symbols.

- **6.2** New symbols shall be developed in accordance with the principles of ISO 3767-1:2016, Annex A. IEC 80416-1 should be consulted for general principles for the creation of symbols. Arrows shall be in accordance with ISO 80416-2. Different arrow forms have different meanings according to ISO 80416-2. Care should be taken to use the correct arrow form. Following the guidelines of ISO 3767-1:2016, Annex A makes possible the development of symbols appropriate in graphical form and content for international standardization and ISO 7000 registration.
- **6.3** Symbols proposed for standardization in this document shall include a short explanation of the function or expected use of the symbol.

NOTE IEC 80416-1 uses the term "description" for this type of information and provides guidelines for writing descriptions for symbols intended for standardization in ISO 7000 or IEC 60417. The descriptions for symbols standardized in this document can serve as examples.

7 Adaptation of symbols as digital display icons

Symbols can be adapted for use as digital display icons on visual display units, reconfigurable displays or other electronic displays. Such adaptations should follow the principles of ISO 80416-4. Special care should be taken to ensure that digital display icons preserve the visual impression of the symbol from which the icon is adapted. The same principles regarding use of colour with symbols apply to the use of colour with digital display icons.

8 Lawn and garden tractor symbols

No.	Graphical symbol	Symbol title and description	ISO/IEC registration number
8.1	Г	Lawn and garden tractor (side view of machine)	ISO 7000-3477
	L	To identify the tractor from a side (profile) view.	
		Use as a base symbol for developing tractor symbols that use a side (profile) view.	
0.0			100 5000 0 450
8.2	l' em '	Lawn and garden tractor (overhead view of machine)	ISO 7000-3478
	') ('	To identify the tractor from an overhead (plan) view.	
		Use as a base symbol for developing tractor symbols that use an overhead (plan) view.	
8.3	Г ,	Lawn and garden tractor, forward movement (side view of machine)	ISO 7000-3479
	€56	To identify the control that moves the tractor in a forward direction.	
		To indicate that the tractor is moving forward.	
		The tractor is shown in a side (profile) view.	
8.4	Г ,	Lawn and garden tractor, rearward movement (side view of machine)	ISO 7000-3480
	- Sie →	To identify the control that moves the tractor in a rearward direction.	
		To indicate that the tractor is moving rearward.	
		The tractor is shown in a side (profile) view.	

No.	Graphical symbol	Symbol title and description	ISO/IEC registration number
8.5	 	Lawn and garden tractor, forward movement (overhead view of machine)	ISO 7000-3481
	h H	To identify the control that moves the tractor in a forward direction.	
	│, 0110 ,	To indicate that the tractor is moving forward.	
		This symbol is viewed from the perspective of a person looking at the tractor from above the machine.	
8.6	_ otho _	Lawn and garden tractor, rearward movement (overhead view of machine)	ISO 7000-3482
	000	To identify the control that moves the tractor in a rearward direction.	
	\	To indicate that the tractor is moving rearward.	
		This symbol is viewed from the perspective of a person looking at the tractor from above the machine.	
8.7	Г	Lawn and garden tractor, ground speed	ISO 7000-3483
		To identify the display that shows the ground speed of the tractor.	
	<u> </u>	To indicate the ground speed of the tractor.	
8.8		Lawn and garden tractor, ground speed, automatic operating mode	ISO 7000-3484
	AUTO	To identify the control that activates the automatic mode for tractor ground speed.	
8.9		Lawn and garden tractor, front wheel drive	ISO 7000-3259
		To identify the control for the tractor front wheel drive.	
	₹ 5≟6	To indicate the operational status of the tractor front wheel drive function.	
8.10		Lawn and garden tractor, front wheel drive, automatic operation	ISO 7000-3485
	₹ 5≦6	To identify the control for the automatic operation of the tractor front wheel drive.	
	AUTO	To indicate that the tractor front wheel drive is in automatic operation mode.	
		Front wheel drive is engaged and disengaged automatically based on operating conditions.	

No.	Graphical symbol	Symbol title and description	ISO/IEC registration number
8.11	Г	Tractor blade	ISO 7000-3260
		To identify the control for the blade on the lawn and garden tractor.	
8.12	L	Tractor blade, raise	ISO 7000-3486
0.12	\ \ \mathrea \	To identify the control that raises the blade on the	130 7000-3400
		lawn and garden tractor.	
		To indicate that the tractor blade is being raised or is in the raised position.	
8.13	Г	Tractor blade, lower	ISO 7000-3487
		To identify the control that lowers the blade on the lawn and garden tractor.	
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	To indicate that the tractor blade is being lowered or is in the lowered position.	
8.14	Г¬	Tractor blade, hold	ISO 7000-3261
		To identify the control that holds the tractor blade in a specified position.	
		To indicate that the tractor blade is in the hold condition.	
8.15	Г_ ¬	Tractor blade, float	ISO 7000-3488
		To identify the control that allows the tractor blade to move up and down with the contour of the ground.	
		To indicate that the tractor blade is in the float condition.	
8.16	Г	Power take-off (PTO)	ISO 7000-1572
	[24]	To identify the control for the power take-off (PTO) system.	
		To indicate the operational status of the PTO.	
		Symbol may be used with a numerical indicator of rated PTO rotational speed. See 8.20, 8.21 and 8.22.	
8.17		Power take-off (PTO), direction of rotation, clockwise	ISO 7000-1664
		To indicate that the PTO shaft rotates clockwise.	
		For anti-clockwise rotation, use mirror image of ISO 7000-1664 (see 8.18).	
		Direction of rotation is from the perspective of a person looking at the end of the PTO shaft.	

No.	Graphical symbol	Symbol title and description	ISO/IEC registration number
8.18		Power take-off (PTO), direction of rotation, anti-clockwise	Mirror image of ISO 7000-1664
		To indicate that the PTO shaft rotates anti-clockwise.	
		For clockwise rotation, use ISO 7000-1664 (see 8.17).	
		Direction of rotation is from the perspective of a person looking at the end of the PTO shaft.	
8.19	7	Power take-off (PTO), rotational speed	ISO 7000-3194
	4	To identify the control that sets or adjusts the rotational speed of the PTO shaft.	
	n/min	To indicate the rotational speed of the PTO.	
		Symbol element "n/min" may be replaced by a numerical indicator of PTO rated rotational speed. See 8.20, 8.21 and 8.22.	
8.20		Power take-off (PTO), rated rotational speed 540 r/min	Application of ISO 7000-3194
		To identify the control for the PTO rated at 540 r/min.	
	540	To indicate the operational status of the PTO rated at 540 r/min.	
8.21		Power take-off (PTO), rated rotational speed 1 000 r/min	Application of ISO 7000-3194
		To identify the control for the PTO rated at 1 000 r/min.	
	1000	To indicate the operational status of the PTO rated at $1000\text{r/min}.$	
8.22		Power take-off (PTO), rated rotational speed 2 000 r/min	Application of ISO 7000-3194
		To identify the control for the PTO rated at 2 000 r/min.	
	2000	To indicate the operational status of the PTO rated at 2 000 r/min.	
8.23		Power take-off (PTO), clockwise rotational speed	ISO 7000-3432
		To identify the control that sets or adjusts the clockwise rotational speed of the PTO shaft.	
	n/min	To indicate the clockwise rotational speed of the PTO shaft.	
		Symbol element "n/min" may be replaced by a numerical indicator of PTO rated rotational speed in the clockwise direction. See 8.25, 8.27 and 8.29.	
		Direction of rotation is from the perspective of a person looking at the end of the PTO shaft.	

No.	Graphical symbol	Symbol title and description	ISO/IEC registration number
8.24		Power take-off (PTO), anti-clockwise rotational speed	ISO 7000-3433
		To identify the control that sets or adjusts the anti-clockwise rotational speed of the PTO shaft.	
	n/min _	To indicate the anti-clockwise rotational speed of the PTO shaft.	
		Symbol element "n/min" may be replaced by a numerical indicator of PTO rated rotational speed in the anti-clockwise direction. See 8.26, 8.28 and 8.30.	
		Direction of rotation is from the perspective of a person looking at the end of the PTO shaft.	
8.25	[Power take-off (PTO), rated clockwise rotational speed, 540 r/min	Application of ISO 7000-3432
		To identify the control for the PTO rated at 540 r/min in the clockwise direction.	
	540	To indicate that the PTO operates in the clockwise direction of rotation at a rotational speed of 540 r/min.	
		To indicate the operational status of the PTO rated at 540 r/min in the clockwise direction.	
		Direction of rotation is from the perspective of a person looking at the end of the PTO shaft.	
8.26		Power take-off (PTO), rated anti-clockwise rotational speed, 540 r/min	Application of ISO 7000-3433
		To identify the control for the PTO rated at 540 r/min in the anti-clockwise direction.	
	540 _	To indicate that the PTO operates in the anti-clockwise direction of rotation at a rotational speed of 540 r/min.	
		To indicate the operational status of the PTO rated at 540 r/min in the anti-clockwise direction.	
		Direction of rotation is from the perspective of a person looking at the end of the PTO shaft.	
8.27		Power take-off (PTO), rated clockwise rotational speed, 1 000 r/min	Application of ISO 7000-3432
		To identify the control for the PTO rated at 1 000 r/min in the clockwise direction.	
	∟ 1000 ⊐	To indicate that the PTO operates in the clockwise direction of rotation at a rotational speed of 1 000 r/min.	
		To indicate the operational status of the PTO rated at 1 000 r/min in the clockwise direction.	
		Direction of rotation is from the perspective of a person looking at the end of the PTO shaft.	

No.	Graphical symbol	Symbol title and description	ISO/IEC registration number
8.28	[*	Power take-off (PTO), rated anti-clockwise rotational speed, 1 000 r/min	Application of ISO 7000-3433
		To identify the control for the PTO rated at 1 000 r/min in the anti-clockwise direction.	
	L 1000 J	To indicate that the PTO operates in the anti-clockwise direction of rotation at a rotational speed of 1 000 r/min.	
		To indicate the operational status of the PTO rated at 1 000 r/min in the anti-clockwise direction.	
		Direction of rotation is from the perspective of a person looking at the end of the PTO shaft.	
8.29	X	Power take-off (PTO), rated clockwise rotational speed, 2 000 r/min	Application of ISO 7000-3432
		To identify the control for the PTO rated at 2 000 r/min in the clockwise direction.	
	_ 2000 _	To indicate that the PTO operates in the clockwise direction of rotation at a rotational speed of 2 000 r/min.	
		To indicate the operational status of the PTO rated at 2 000 r/min in the clockwise direction.	
		Direction of rotation is from the perspective of a person looking at the end of the PTO shaft.	
8.30	[24]	Power take-off (PTO), rated anti-clockwise rotational speed, 2 000 r/min	Application of ISO 7000-3433
		To identify the control for the PTO rated at 2 000 r/min in the anti-clockwise direction.	
	2000 J	To indicate that the PTO operates in the anti-clockwise direction of rotation at a rotational speed of 2 000 r/min.	
		To indicate the operational status of the PTO rated at 2 000 r/min in the anti-clockwise direction.	
		Direction of rotation is from the perspective of a person looking at the end of the PTO shaft.	
8.31	7	Power take-off (PTO), failure	ISO 7000-3434
	[X	To indicate a failure or malfunction of the power take-off (PTO).	
		ISO 1572 (see 8.16) with the colour red is an alternative to this symbol.	
8.32	Г¬	Power take-off (PTO), load	ISO 7000-3195
	[To identify the control that sets the load (torque) of the power take-off (PTO).	
	l 😽 l	To indicate the load (torque) of the PTO.	
	Nm	Metric torque units (Nm) are shown; non-metric torque units (lb-ft) may be substituted.	

9 Riding lawn mower symbols

No.	Graphical symbol	Symbol title and description	ISO/IEC registration number
9.1	Г п п ¬	Riding lawn mower (overhead view of machine)	ISO 7000-3489
		To identify the lawn mower from an overhead (plan) view.	
		Use as a base symbol for developing lawn mower symbols that use an overhead (plan) view	
9.2	「 ∧ ¬	Riding lawn mower, forward direction of movement (overhead view of machine)	ISO 7000-3490
		To identify the control that moves the lawn mower in a forward direction.	
		To indicate that the lawn mower is moving forward.	
		This symbol is viewed from the perspective of a person looking at the lawn mower from above the machine.	
9.3		Riding lawn mower, rearward direction of movement (overhead view of machine)	ISO 7000-3491
		To identify the control that moves the lawn mower in a rearward direction.	
		To indicate that the lawn mower is moving rearward.	
		This symbol is viewed from the perspective of a person looking at the lawn mower from above the machine.	

10 Grass-cutting equipment symbols

No.	Graphical symbol	Symbol title and description	ISO/IEC registration number
10.1	Г	Mower deck	ISO 7000-3492
		To identify the control for operation of the mower deck.	
10.2		Mower deck, raise	ISO 7000-3493
		To identify the control that raises the mower deck.	100 7000 0170
		To indicate that the mower deck is being raised or is in the raised (up) position.	
	L J		
10.3		Mower deck, lower	ISO 7000-3494
	\downarrow	To identify the control that lowers the mower deck.	
		To indicate that the mower deck is being lowered or is in the lowered (down) position.	

No.	Graphical symbol	Symbol title and description	ISO/IEC registration number
10.4	Г	Cutting unit	ISO 7000-2114
		To identify the control for the boom-mounted cutting unit of grass-cutting equipment.	
	L J		
10.5		Cutting unit, raise	ISO 7000-2115
	A	To identify the control that raises the boom-mounted cutting unit without changing the horizontal angle of the cutting unit.	
	·	To indicate that the cutting unit is being raised or is in the raised (up) position.	
10.6	Г	Cutting unit, lower	ISO 7000-2116
	V	To identify the control that lowers the boom-mounted cutting unit without changing the horizontal angle of the cutting unit.	
		To indicate that the cutting unit is being lowered or is in the lowered (down) position.	
10.7	Г	Cutting unit, hold	ISO 7000-2117
		To identify the control that holds the boom-mounted cutting unit in a fixed position.	
		To indicate that the cutting unit is in the hold condition.	
10.8		Cutting unit, float	ISO 7000-2118
		To identify the control that allows the boom-mounted cutting unit to move up and down with the contour of the ground.	
		To indicate that the cutting unit is in the float condition.	
10.9		Cutting unit, transport position	ISO 7000-2119
		To indicate that the boom-mounted cutting unit is in the position for transport.	
10.10		Cutting unit, raise to transport position	ISO 7000-2120
10.10		To identify the control that raises the boom-mounted cutting unit to the transport position.	130 7000 2120
	/ V\	To indicate that the cutting unit is being raised to the transport position.	
10.11		Cutting unit, lower from transport position	ISO 7000-2121
		To identify the control that lowers the boom-mounted cutting unit from the transport position.	
		To indicate that the cutting unit is being lowered from the transport position.	

No.	Graphical symbol	Symbol title and description	ISO/IEC registration number
10.12	Г	Grass-cutting equipment, cutting element	ISO 7000-0949
		To identify the control for the horizontal rotational cutting element of grass-cutting equipment.	
		To indicate the operational status of the cutting element.	
		This symbol may be used with symbols for engage or disengage either as separate symbols or in a combined symbol. Examples of combined symbols are ISO 7000-2109 (see 10.13) and ISO 7000-2110 (see 10.14).	
10.13		Grass-cutting equipment, cutting element, engage	ISO 7000-2109
	/// [4	To identify the control that engages the blade or other grass-cutting element.	
	ر سنگلی	To indicate that the grass-cutting element is engaged (operating).	
10.14	r d	Grass-cutting equipment, cutting element, disengage	ISO 7000-2110
		To identify the control that disengages the blade or other grass-cutting element.	
	ر سسلی	To indicate that the grass-cutting element is disengaged (not operating).	
10.15	[]),—	Grass-cutting equipment, cutting element, height adjustment	ISO 7000-0950
		To identify the control that sets or adjusts the height of the grass-cutting element, which is the distance between the rotational cutting element and the ground.	
		To indicate the height of the cutting element.	
10.16	×)))	Grass-cutting equipment, cutting element, height adjustment, high cut	ISO 7000-3495
		To identify the control that sets or adjusts the height of the high-cut position of the grass-cutting element.	
		To identify the control that places the cutting element of the grass-cutting equipment to the high-cut position.	
		To identify the high-cut position of the cutting element height adjustment control.	
		To indicate that the cutting element is in the high-cut position.	
10.17		Grass-cutting equipment, cutting element, height adjustment, low cut	ISO 7000-3496
	<u> </u>	To identify the control that sets or adjusts the height of the low-cut position of the grass-cutting element.	
		To identify the control that places the cutting element of the grass-cutting equipment to the low-cut position.	
		To identify the low-cut position of the cutting element height adjustment control.	
		To indicate that the cutting element is in the low-cut position.	

No.	Graphical symbol	Symbol title and description	ISO/IEC registration number
10.18		Grass-cutting equipment, cylinder drive	ISO 7000-3430
		To identify the control for operation of the cylinder drive of reel-type grass-cutting equipment.	
		To indicate the operational status of the cylinder drive.	
		This symbol may be used with symbols for engage or disengage either as separate symbols or in a combined symbol. Examples of combined symbols are ISO 7000-3497 (see 10.19) and ISO 7000-3498 (see 10.20).	
10.19		Grass-cutting equipment, cylinder drive, engage	ISO 7000-3497
		To identify the control that engages the cylinder drive in its normal operating direction.	
		To indicate that the cylinder drive is engaged.	
10.20		Grass-cutting equipment, cylinder drive, disengage	ISO 7000-3498
		To identify the control that disengages the cylinder drive.	
	~	To indicate that the cylinder drive is disengaged.	
10.21		Grass-cutting equipment, cylinder drive, reverse	ISO 7000-3499
	\O	To identify the control that reverses the direction of rotation of the cylinder of reel-type grass-cutting equipment.	
		To indicate that the cylinder drive is in reverse operating mode.	
		This symbol may be used with symbols for engage or disengage either as separate symbols or in a combined symbol. Examples of combined symbols are ISO 7000-2111 (see 10.22) and ISO 7000-2112 (see 10.23).	
10.22	R . 内	Grass-cutting equipment, cylinder drive, reverse, engage	ISO 7000-2111
		To identify the control that engages the cylinder drive in the reverse from its normal direction of rotation.	
	_ L L _	To indicate that the cylinder drive is engaged in the reverse direction.	
10.23	R. E	Grass-cutting equipment, cylinder drive, reverse, disengage	ISO 7000-2112
	O	To identify the control that disengages the cylinder drive from its operation in the reverse of its normal direction of rotation.	
		To indicate that the cylinder drive is disengaged from the reverse direction.	

No.	Graphical symbol	Symbol title and description	ISO/IEC registration number
10.24		Grass-cutting equipment, cylinder, on-cut adjustment	ISO 7000-2113
	<u> </u>	To identify the control that sets or adjusts the distance between the cutting blades and the strike plate of a reel-type mower.	
		To indicate the distance between the cutting blades and the strike plate.	
10.25	Г	Rotary line trimmer	ISO 7000-3431
		To identify the control for operation of the rotary line trimmer.	
10.26	Г	Rotary line trimmer, output shaft speed	ISO 7000-2592
	4	To identify the control that sets or adjusts the rotational speed of the output shaft of the rotary line trimmer.	
	n/min	To indicate the output shaft speed.	

11 Tiller symbols

No.	Graphical symbol	Symbol title and description	ISO/IEC registration number
11.1		Tiller tines To identify the control for operation of the tines of ground tilling equipment. To indicate the operational status of the tiller tines.	ISO 7000-2122

12 Snow removal equipment symbols

No.	Graphical symbol	Symbol title and description	ISO/IEC registration number
12.1	Г	Snow thrower, impeller	ISO 7000-2123
	12	To identify the control for operation of the impeller of a snow thrower.	
		To indicate the operational status of the impeller.	
12.2	Г	Snow thrower, auger collector	ISO 7000-2124
	444	To identify the control for operation of the snow thrower.	
		To indicate the operational status of the collector auger.	
		This symbol is the same as ISO 7000-2144 except that this symbol is rotated to horizontal.	
12.3		Snow thrower, discharge chute	ISO 7000-3262
	\mathcal{D}	To identify the control for operation of the snow thrower discharge chute.	
12.4		Snow thrower, discharge chute, height adjustment	ISO 7000-3263
	Z.	To identify the control that adjusts the angle at which the discharge chute expels snow.	
12.5	7	Snow thrower, discharge chute, height adjustment, up	ISO 7000-2125
	1,4	To identify the control that increases the angle at which the discharge chute expels snow.	
		To indicate that the discharge chute is being adjusted upward.	
12.6		Snow thrower, discharge chute, height adjustment, down	ISO 7000-2126
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	To identify the control that decreases the angle at which the discharge chute expels snow.	
		To indicate that the discharge chute is being adjusted downward.	
12.7		Snow thrower, discharge chute, rotate left	ISO 7000-2127
	8	To identify the control that rotates the discharge chute to expel snow to the left of the snow thrower.	
		Arrow indicating rotation of the discharge chute is viewed from the perspective of a person looking at the discharge chute from above the machine.	
12.8		Snow thrower, discharge chute, rotate right	ISO 7000-2128
	P	To identify the control that rotates the discharge chute to expel snow to the right of the snow thrower.	
		Arrow indicating rotation of the discharge chute is viewed from the perspective of a person looking at the discharge chute from above the machine.	

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- [4] ISO 7000,¹⁾ Graphical symbols for use on equipment Registered symbols
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- [6] IEC 60417,1) *Graphical symbols for use on equipment*

¹⁾ The graphical symbol collections of ISO 7000 and IEC 60417 can be previewed and purchased on the Online Browsing Platform (OBP), www.iso.org/obp





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