INTERNATIONAL STANDARD

**ISO 3767-2**

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

## Part 2: Symbols for agricultural tractors and machinery

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

*Partie 2: Symbols pour tracteurs et matériels agricoles*



Reference number
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# 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 fourth edition cancels and replaces the third edition (ISO 3767-2:2008), 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 2:
## Symbols for agricultural tractors and machinery



### 1 Scope

This document standardizes symbols for use on operator controls and other displays on agricultural tractors and machinery.

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 3767-3 covers symbols for powered lawn and garden equipment. 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 agricultural tractors and machinery.

### 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.

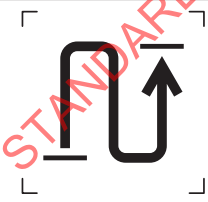
**6.3** Symbols proposed for standardization in this document shall include a short explanation of the function or expected use of the symbol.

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

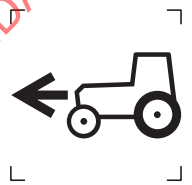
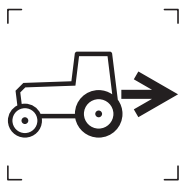
Symbols can be adapted for use as digital display icons on visual display units, reconfigurable displays or other electronic displays. Such adaptations should follow the principles of ISO 80416-4. Special care should be taken to ensure that digital display icons preserve the visual impression of the 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.

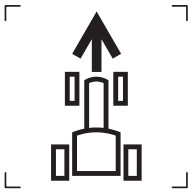
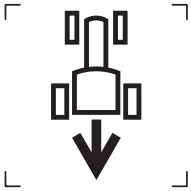
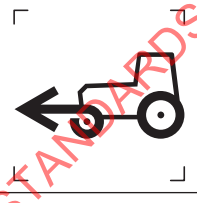
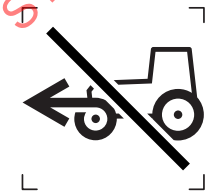
## 8 General agricultural equipment symbols

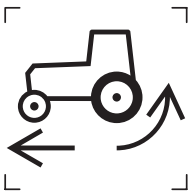
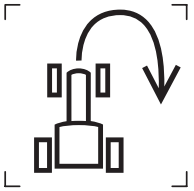
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **8.1** |  | **Area worked**<br>To indicate the area that has been worked by a machine.<br>To identify the control for specifying an area. | ISO 7000-1657 |
| **8.2** |  | **Area worked per hour**<br>To indicate the area that has been worked by a machine per hour of operation. | ISO 7000-1658 |
| **8.3** |  | **Work distance travelled**<br>To indicate the distance that has been travelled by a machine during work. | ISO 7000-2177 |
| **8.4** |  | **Application rate per area, general**<br>To indicate the application rate (for example, of seeds or fertilizer) per area. | ISO 7000-3188 |

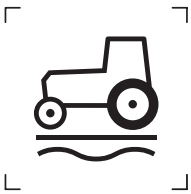
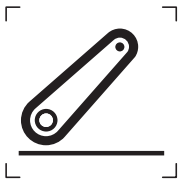
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 8.5 |  | **Machine immobilizer**<br>To identify the control that immobilizes the machine to prevent its unintended or unauthorized movement.<br>To indicate that the machine is in the immobilized condition. | ISO 7000-3037 |
| 8.6 |  | **Total area worked**<br>To indicate the total area that has been worked by the machine in the given time period. | ISO 7000-3130 |
| 8.7 |  | **Area remaining to work**<br>To indicate the area that remains to be worked by a machine. The total area to be worked is specified and the actual area worked is subtracted to determine the area remaining. | ISO 7000-3244 |

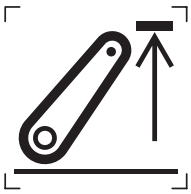
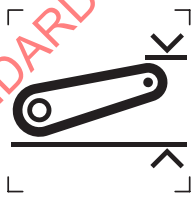
## 9 Agricultural tractor symbols

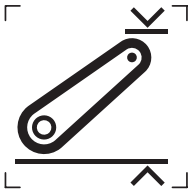
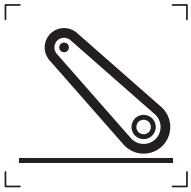
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 9.1 |  | **Tractor (side view of machine)**<br>To identify the tractor from a side (profile) view.<br>Use as a base symbol for developing tractor symbols that use a side (profile) view. | ISO 7000-2133 |
| 9.2 |  | **Tractor (overhead view of machine)**<br>To identify the tractor from an overhead (plan) view.<br>This symbol is viewed from the perspective of a person looking at the tractor from above the machine.<br>Use as a base symbol for developing tractor symbols that use an overhead (plan) view. | ISO 7000-2134 |
| 9.3 |  | **Tractor, forward direction of movement (side view of machine)**<br>To identify the control that moves the tractor in the forward direction.<br>To indicate that the tractor is moving forward. | ISO 7000-1666 |
| 9.4 |  | **Tractor, rearward direction of movement (side view of machine)**<br>To identify the control that moves the tractor in the rearward direction.<br>To indicate that the tractor is moving rearward. | ISO 7000-1667 |

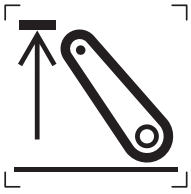
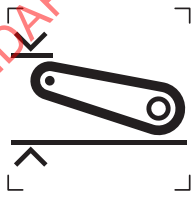
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 9.5 |  | **Tractor, forward direction of movement (overhead view of machine)**<br>To identify the control that moves the tractor in the forward direction.<br>To indicate that the tractor is moving forward.<br>This symbol is viewed from the perspective of a person looking at the tractor from above the machine. | ISO 7000-2135 |
| 9.6 |  | **Tractor, rearward direction of movement (overhead view of machine)**<br>To identify the control that moves the tractor in the rearward direction.<br>To indicate that the tractor is moving rearward.<br>This symbol is viewed from the perspective of a person looking at the tractor from above the machine. | ISO 7000-2136 |
| 9.7 |  | **Tractor, ground speed**<br>To identify the display that shows the ground speed of the tractor.<br>To indicate the ground speed of the tractor. | ISO 7000-2179 |
| 9.8 |  | **Tractor, ground speed, automatic control**<br>To identify the control that activates the automatic mode for tractor ground speed.<br>To indicate that tractor ground speed is in the automatic control mode. | ISO 7000-3131 |
| 9.9 |  | **Tractor, target ground speed**<br>To identify the control that sets the target ground speed of the tractor.<br>To indicate the tractor target ground speed. | ISO 7000-3132 |
| 9.10 |  | **Tractor, front wheel drive**<br>To identify the control for the tractor front wheel drive.<br>To indicate that the tractor front wheel drive is in normal operation mode. | ISO 7000-1663 |
| 9.11 |  | **Tractor, front wheel drive, off or not available**<br>To identify the control that switches off the tractor front wheel drive.<br>To indicate that the tractor front wheel drive is switched off or is otherwise not available. | Negation of ISO 7000-1663 |
| 9.12 |  | **Tractor, front wheel drive, automatic operation**<br>To identify the control for the automatic operation of the tractor front wheel drive.<br>To indicate that the tractor front wheel drive is in automatic operation mode.<br>Front wheel drive is engaged and disengaged automatically based on operating conditions. | ISO 7000-2420 |

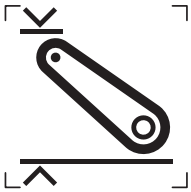
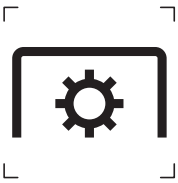
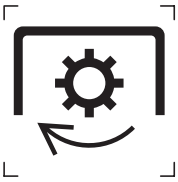
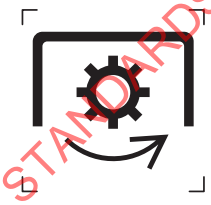
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 9.13 |  | **Tractor, front wheel drive, braking**<br>To identify the control for the tractor front wheel drive brake.<br>To indicate the status of the tractor front wheel drive brake system.<br>Front wheel drive engages when brakes are applied at travel speeds above a specified limit. | ISO 7000-2421 |
| 9.14 |  | **Tractor, wheel slip**<br>To indicate the degree of wheel slip, which is the difference between the actual ground speed of the tractor and the ground speed implied by the rotational speed of the drive wheels.<br>To identify the control that sets or adjusts the degree of wheel slip at which an indication is provided or action is taken, either manually or automatically. | ISO 7000-1665 |
| 9.15 |  | **Tractor, wheel slip. automatic operation**<br>To identify the control for the automatic operation of the tractor wheel slip system.<br>To indicate that the tractor wheel slip system is in automatic operation mode. | ISO 7000-3133 |
| 9.16 |  | **Tractor, headland turning**<br>To identify the control for a programmed sequence of tractor operations taken at the end of a field (headland).<br>To indicate the operational status of the tractor headland turning system.<br>This symbol is viewed from the perspective of a person looking at the tractor from above the machine. | ISO 7000-2801 |
| 9.17 |  | **Tractor, auxiliary headlights**<br>To identify the control for the auxiliary headlights of the tractor. | ISO 7000-2137 |
| 9.18 |  | **Tractor, suspension system**<br>To identify the control for the tractor suspension system.<br>To indicate the operational status of the tractor suspension system. | ISO 7000-3134 |
| 9.19 |  | **Tractor, suspension system, front**<br>To identify the control for the tractor front suspension system.<br>To indicate the operational status of the tractor front suspension system. | ISO 7000-3135 |

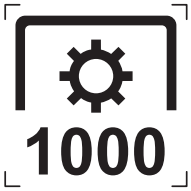
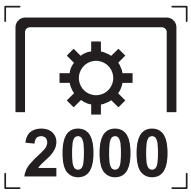
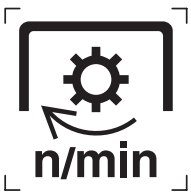
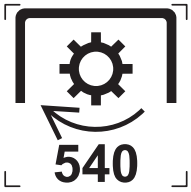
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **9.20** |  | **Tractor, suspension system, rear**<br>To identify the control for the tractor rear suspension system.<br>To indicate the operational status of the tractor rear suspension system. | ISO 7000-3136 |
| **9.21** |  | **Tractor, ride control system**<br>To identify the control for the tractor ride control system, which dynamically adjusts the suspension system to smooth the ride over uneven ground.<br>To indicate the operational status of the tractor ride control system. | ISO 7000-3137 |
| **9.22** |  | **Rockshaft**<br>To identify the control for the rockshaft of a machine; the rockshaft raises or lowers the implement or equipment attached to it.<br>To indicate the operational status of the rockshaft.<br>ISO 7000-2133 (see 9.1) may be placed to the left of this symbol.<br>The horizontal ground line may be deleted if in context the symbol meaning remains clear.<br>For front hitch (rockshaft) use the mirror image (see 9.30). | ISO 7000-1566 |
| **9.23** |  | **Rockshaft, up; rockshaft, raise**<br>To identify the control that raises the rockshaft.<br>To indicate that the rockshaft is being raised or is in the raised (up) position.<br>ISO 7000-2133 (see 9.1) may be placed to the left of this symbol.<br>The horizontal ground line may be deleted if in context the symbol meaning remains clear.<br>For front hitch (rockshaft) use the mirror image (see 9.31). | ISO 7000-1567 |
| **9.24** |  | **Rockshaft, down; rockshaft, lower**<br>To identify the control that lowers the rockshaft.<br>To indicate that the rockshaft is being lowered or is in the lowered (down) position.<br>ISO 7000-2133 (see 9.1) may be placed to the left of this symbol.<br>The horizontal ground line may be deleted if in context the symbol meaning remains clear.<br>For front hitch use the mirror image (see 9.32). | ISO 7000-1568 |

| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 9.25 |  | **Rockshaft, float**<br>To identify the control that allows the rockshaft to move up and down with the contour of the ground over which or through which the implement or equipment attached to the rockshaft moves.<br>To indicate that the rockshaft is in the float condition.<br>ISO 7000-2133 (see 9.1) may be placed to the left of this symbol.<br>For front hitch (rockshaft) use the mirror image (see 9.33). | ISO 7000-1660 |
| 9.26 |  | **Rockshaft, upper limit**<br>To identify the control that sets the maximum height to which an implement can be raised by the rockshaft.<br>To indicate that the rockshaft is raised to its maximum height.<br>ISO 7000-2133 (see 9.1) may be placed to the left of this symbol.<br>The horizontal ground line may be deleted if in context the symbol meaning remains clear.<br>For front hitch (rockshaft) use the mirror image (see 9.34). | ISO 7000-2178 |
| 9.27 |  | **Rockshaft, lower limit**<br>To identify the control that sets the minimum height to which an implement can be lowered by the rockshaft.<br>To indicate that the rockshaft is lowered to its minimum height.<br>ISO 7000-2133 (see 9.1) may be placed to the left of this symbol.<br>The horizontal ground line may be deleted if in context the symbol meaning remains clear.<br>For front hitch (rockshaft) use the mirror image (see 9.35). | ISO 7000-3189 |
| 9.28 |  | **Rockshaft, depth control, maximum depth**<br>To identify the control that sets the maximum depth to which the rockshaft is allowed to move while the implement or equipment is in operation.<br>To indicate the maximum depth setting of the rockshaft depth control.<br>ISO 7000-2133 (see 9.1) may be placed to the left of this symbol.<br>For front hitch (rockshaft) use the mirror image (see 9.36). | ISO 7000-3190 |

| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 9.29 |  | **Rockshaft, depth control, minimum depth**<br>To identify the control that sets the minimum depth to which the rockshaft is allowed to move while the implement or equipment is in operation.<br>To indicate the minimum depth setting of the rockshaft depth control.<br>ISO 7000-2133 (see 9.1) may be placed to the left of this symbol.<br>For front hitch (rockshaft) use the mirror image (see 9.37). | ISO 7000-3191 |
| 9.30 |  | **Front hitch (rockshaft)**<br>To identify the control for the rockshaft of a machine; the rockshaft raises or lowers the implement or equipment attached to it.<br>To indicate the operational status of the rockshaft.<br>ISO 7000-2133 (see 9.1) may be placed to the right of this symbol.<br>The horizontal ground line may be deleted if in context the symbol meaning remains clear.<br>For rear hitch (rockshaft) use ISO 7000-1566 (see 9.22). | Mirror image of ISO 7000-1566 |
| 9.31 |  | **Front hitch (rockshaft), up (raise)**<br>To identify the control that raises the front hitch (rockshaft).<br>To indicate that the front hitch (rockshaft) is being raised or is in the raised (up) position.<br>ISO 7000-2133 (see 9.1) may be placed to the right of this symbol.<br>The horizontal ground line may be deleted if in context the symbol meaning remains clear.<br>For rear hitch (rockshaft) use ISO 7000-1567 (see 9.23). | Mirror image of ISO 7000-1567 |
| 9.32 |  | **Front hitch (rockshaft), down (lower)**<br>To identify the control that lowers the rockshaft.<br>To indicate that the rockshaft is being lowered or is in the lowered (down) position.<br>ISO 7000-2133 (see 9.1) may be placed to the right of this symbol.<br>The horizontal ground line may be deleted if in context the symbol meaning remains clear.<br>For rear hitch (rockshaft) use ISO 7000-1568 (see 9.24). | Mirror image of ISO 7000-1568 |

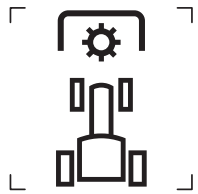
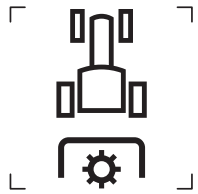
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 9.33 |  | **Front hitch (rockshaft), float**<br>To identify the control that allows the front hitch (rockshaft) to move up and down with the contour of the ground over which or through which the implement or equipment attached to the rockshaft moves.<br>To indicate that the front hitch (rockshaft) is in the float condition.<br>ISO 7000-2133 (see 9.1) may be placed to the right of this symbol.<br>For rear hitch (rockshaft) use ISO 7000-1660 (see 9.25). | Mirror image of ISO 7000-1660 |
| 9.34 |  | **Front hitch (rockshaft), upper limit**<br>To identify the control that sets the maximum height to which an implement can be raised by the front hitch (rockshaft).<br>To indicate that the front hitch (rockshaft) is raised to its maximum height.<br>ISO 7000-2133 (see 9.1) may be placed to the right of this symbol.<br>The horizontal ground line may be deleted if in context the symbol meaning remains clear.<br>For rear hitch (rockshaft) use ISO 7000-2178 (see 9.26). | Mirror image of ISO 7000-2178 |
| 9.35 |  | **Front hitch (rockshaft), lower limit**<br>To identify the control that sets the minimum height to which an implement can be lowered by the front hitch (rockshaft).<br>To indicate that the front hitch (rockshaft) is lowered to its minimum height.<br>ISO 7000-2133 (see 9.1) may be placed to the right of this symbol.<br>The horizontal ground line may be deleted if in context the symbol meaning remains clear.<br>For rear hitch (rockshaft) use ISO 7000-3189 (see 9.27). | Mirror image of ISO 7000-3189 |
| 9.36 |  | **Front hitch (rockshaft), depth control, maximum depth**<br>To identify the control that sets the maximum depth to which the rockshaft is allowed to move while the implement or equipment is in operation.<br>To indicate the maximum depth setting of the rockshaft depth control.<br>ISO 7000-2133 (see 9.1) may be placed to the right of this symbol.<br>For rear hitch (rockshaft) use ISO 7000-3190 (see 9.28). | Mirror image of ISO 7000-3190 |

| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 9.37 |  | **Front hitch (rockshaft), depth control, minimum depth**<br>To identify the control that sets the minimum depth to which the front hitch (rockshaft) is allowed to move while the implement or equipment is in operation.<br>To indicate the minimum depth setting of the front hitch (rockshaft) depth control.<br>ISO 7000-2133 (see 9.1) may be placed to the right of this symbol.<br>For rear hitch (rockshaft) use ISO 7000-3191 (see 9.29). | Mirror image of ISO 7000-3191 |
| 9.38 |  | **Differential lock**<br>To identify the control for the differential lock, which forces both wheels on an axle to rotate at the same speed regardless of the traction available to either wheel individually while still allowing the wheels to rotate at different speeds when negotiating a turn.<br>To indicate the operational status of the differential lock. | ISO 7000-1662 |
| 9.39 |  | **Power take-off (PTO)**<br>To identify the control for the power take-off (PTO) system.<br>To indicate the operational status of the PTO.<br>Symbol may be used with a numerical indicator of rated PTO rotational speed. See 9.43, 9.44 and 9.45. | ISO 7000-1572 |
| 9.40 |  | **Power take-off (PTO), direction of rotation, clockwise**<br>To indicate that the PTO shaft rotates clockwise.<br>For anti-clockwise rotation use the mirror image (see 9.41).<br>Direction of rotation is from the perspective of a person looking at the end of the PTO shaft. | ISO 7000-1664 |
| 9.41 |  | **Power take-off (PTO), direction of rotation, anti-clockwise**<br>To indicate that the PTO shaft rotates anti-clockwise.<br>For clockwise rotation use ISO 7000-1664 (see 9.40).<br>Direction of rotation is from the perspective of a person looking at the end of the PTO shaft. | Mirror image of ISO 7000-1664 |
| 9.42 |  | **Power take-off (PTO), rotational speed**<br>To identify the control that sets or adjusts the rotational speed of the PTO shaft.<br>To indicate the rotational speed of the PTO shaft.<br>Symbol element “n/min” may be replaced by a numerical indicator of PTO rated rotational speed. See 9.43, 9.44 and 9.45. | ISO 7000-3194 |

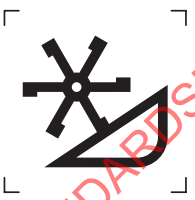
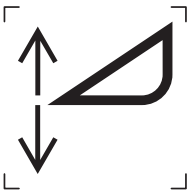
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 9.43 |  | **Power take-off (PTO), rated rotational speed, 540 r/min**<br>To identify the control for the PTO rated at 540 r/min.<br>To indicate the operational status of the PTO rated at 540 r/min. | Application of ISO 7000-3194 |
| 9.44 |  | **Power take-off (PTO), rated rotational speed, 1 000 r/min**<br>To identify the control for the PTO rated at 1 000 r/min.<br>To indicate the operational status of the PTO rated at 1 000 r/min. | Application of ISO 7000-3194 |
| 9.45 |  | **Power take-off (PTO), rated rotational speed, 2 000 r/min**<br>To identify the control for the PTO rated at 2 000 r/min.<br>To indicate the operational status of the PTO rated at 2 000 r/min. | Application of ISO 7000-3194 |
| 9.46 |  | **Power take-off (PTO), clockwise rotational speed**<br>To identify the control that sets or adjusts the clockwise rotational speed of the power take-off (PTO) shaft.<br>To indicate the clockwise rotational speed of the PTO shaft.<br>Symbol element "n/min" may be replaced by a numerical indicator of PTO rated rotational speed in the clockwise direction. See 9.48, 9.50 and 9.52.<br>Direction of rotation is from the perspective of a person looking at the end of the PTO shaft. | ISO 7000-3432 |
| 9.47 |  | **Power take-off (PTO), anti-clockwise rotational speed**<br>To identify the control that sets or adjusts the anti-clockwise rotational speed of the power take-off (PTO) shaft.<br>To indicate the anti-clockwise rotational speed of the PTO shaft.<br>Symbol element "n/min" may be replaced by a numerical indicator of PTO rated rotational speed in the anti-clockwise direction. See 9.49, 9.51 and 9.53.<br>Direction of rotation is from the perspective of a person looking at the end of the PTO shaft. | ISO 7000-3433 |
| 9.48 |  | **Power take-off (PTO), rated clockwise rotational speed, 540 r/min**<br>To identify the control for the PTO rated at 540 r/min in the clockwise direction.<br>To indicate that the PTO operates in the clockwise direction of rotation at a rotational speed of 540 r/min.<br>To indicate the operational status of the PTO rated at 540 r/min in the clockwise direction.<br>Direction of rotation is from the perspective of a person looking at the end of the PTO shaft. | Application of ISO 7000-3432 |

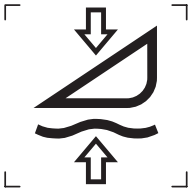
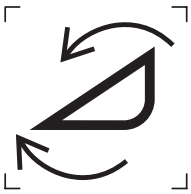
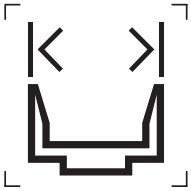
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 9.49 |  | **Power take-off (PTO), rated anti-clockwise rotational speed, 540 r/min**<br>To identify the control for the PTO rated at 540 r/min in the anti-clockwise direction.<br>To indicate that the PTO operates in the anti-clockwise direction of rotation at a rotational speed of 540 r/min.<br>To indicate the operational status of the PTO rated at 540 r/min in the anti-clockwise direction.<br>Direction of rotation is from the perspective of a person looking at the end of the PTO shaft. | Application of ISO 7000-3433 |
| 9.50 |  | **Power take-off (PTO), rated clockwise rotational speed, 1 000 r/min**<br>To identify the control for the PTO rated at 1 000 r/min in the clockwise direction.<br>To indicate that the PTO operates in the clockwise direction of rotation at a rotational speed of 1 000 r/min.<br>To indicate the operational status of the PTO rated at 1 000 r/min in the clockwise direction.<br>Direction of rotation is from the perspective of a person looking at the end of the PTO shaft. | Application of ISO 7000-3432 |
| 9.51 |  | **Power take-off (PTO), rated anti-clockwise rotational speed, 1 000 r/min**<br>To identify the control for the PTO rated at 1 000 r/min in the anti-clockwise direction.<br>To indicate that the PTO operates in the anti-clockwise direction of rotation at a rotational speed of 1 000 r/min.<br>To indicate the operational status of the PTO rated at 1 000 r/min in the anti-clockwise direction.<br>Direction of rotation is from the perspective of a person looking at the end of the PTO shaft. | Application of ISO 7000-3433 |
| 9.52 |  | **Power take-off (PTO), rated clockwise rotational speed, 2 000 r/min**<br>To identify the control for the PTO rated at 2 000 r/min in the clockwise direction.<br>To indicate that the PTO operates in the clockwise direction of rotation at a rotational speed of 2 000 r/min.<br>To indicate the operational status of the PTO rated at 2 000 r/min in the clockwise direction.<br>Direction of rotation is from the perspective of a person looking at the end of the PTO shaft. | Application of ISO 7000-3432 |

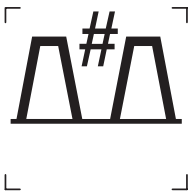
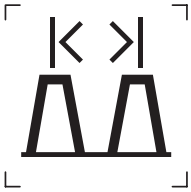
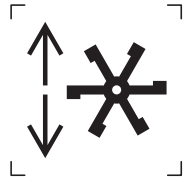
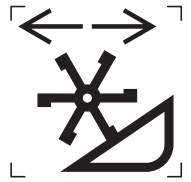
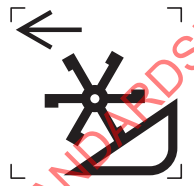
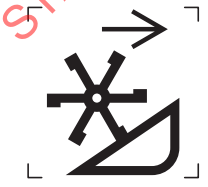
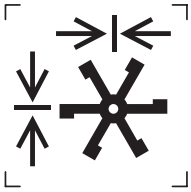
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 9.53 |  | **Power take-off (PTO), rated anti-clockwise rotational speed, 2 000 r/min**<br>To identify the control for the PTO rated at 2 000 r/min in the anti-clockwise direction.<br>To indicate that the PTO operates in the anti-clockwise direction of rotation at a rotational speed of 2 000 r/min.<br>To indicate the operational status of the PTO rated at 2 000 r/min in the anti-clockwise direction.<br>Direction of rotation is from the perspective of a person looking at the end of the PTO shaft. | Application of ISO 7000-3433 |
| 9.54 |  | **Power take-off (PTO), failure**<br>To indicate a failure or malfunction of the power take-off (PTO).<br>ISO 7000-1572 (see 9.39) with the colour red is an alternative to this symbol. | ISO 7000-3434 |
| 9.55 |  | **Power take-off (PTO), load**<br>To identify the control that sets the load (torque) of the power take-off (PTO).<br>To indicate the load (torque) of the PTO.<br>Metric torque units (Nm) are shown; non-metric torque units (lb-ft) may be substituted. | ISO 7000-3195 |
| 9.56 |  | **Tractor with front PTO (side view of machine)**<br>To identify the control for the front PTO of the tractor.<br>To indicate the operational status of the tractor front PTO.<br>Symbol may be used with a numerical indicator of rated PTO rotational speed. | ISO 7000-2180 |
| 9.57 |  | **Tractor with rear PTO (side view of machine)**<br>To identify the control for the rear PTO of the tractor.<br>To indicate the operational status of the tractor rear PTO.<br>Symbol may be used with a numerical indicator of rated PTO rotational speed. | ISO 7000-2181 |

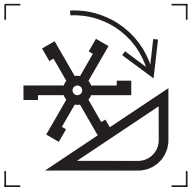
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **9.58** |  | **Tractor with front PTO (overhead view of machine)**<br>To identify the control for the front PTO of the tractor.<br>To indicate the operational status of the tractor front PTO.<br>Symbol may be used with a numerical indicator of rated PTO rotational speed.<br>This symbol is viewed from the perspective of a person looking at the tractor from above the machine. | ISO 7000-2182 |
| **9.59** |  | **Tractor with rear PTO (overhead view of machine)**<br>To identify the control for the rear PTO of the tractor.<br>To indicate the operational status of the tractor rear PTO.<br>Symbol may be used with a numerical indicator of rated PTO rotational speed.<br>This symbol is viewed from the perspective of a person looking at the tractor from above the machine. | ISO 7000-2183 |

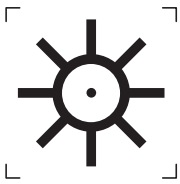
## 10 Harvesting machinery and equipment symbols

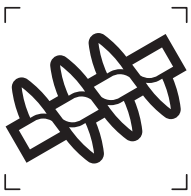
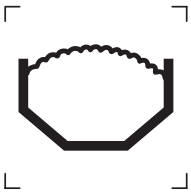
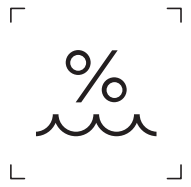
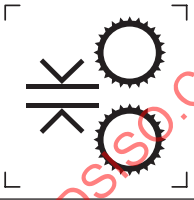
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **10.1** |  | **Header; header drive; crop divider**<br>To identify the control for the header, header drive or crop divider of the harvesting machine.<br>To indicate the operational status of the header, header drive or crop divider.<br>ISO 7000-3199 (see 10.2) may be used for headers that utilize a reel. | ISO 7000-1579 |
| **10.2** |  | **Header; header drive (with reel)**<br>To identify the control for the header or header drive (with reel) of the harvesting machine.<br>To indicate the operational status of the header or header drive (with reel). | ISO 7000-3199 |
| **10.3** |  | **Header drive, reverse**<br>To identify the control for the reverser of the header drive of the harvesting machine.<br>To indicate the operational status of the header drive reverse function. | ISO 7000-1580 |
| **10.4** |  | **Header height**<br>To identify the control that raises or lowers the header of the harvesting machine. | Application of ISO 7000-1581 |

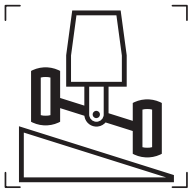
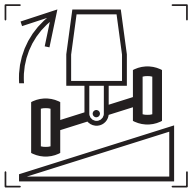
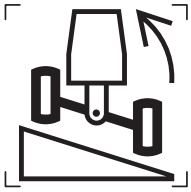
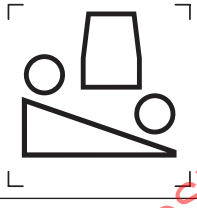
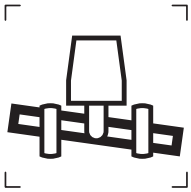
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **10.5** |  | **Header height, raise**<br>To identify the control that raises the header of the harvesting machine. | ISO 7000-2142 |
| **10.6** |  | **Header height, lower**<br>To identify the control that lowers the header of the harvesting machine. | ISO 7000-2143 |
| **10.7** |  | **Header position, float**<br>To identify the control that allows the header to move up or down according to the contour of the ground.<br>To indicate that the header is in the float condition. | ISO 7000-1668 |
| **10.8** |  | **Header, float pressure**<br>To identify the control that sets the pressure exerted by the header when in the float condition. | ISO 7000-3138 |
| **10.9** |  | **Header, tilt forward or rearward; crop divider, tilt forward or rearward**<br>To identify the control that adjusts the header or crop divider angle (degree of tilt). | ISO 7000-3196 |
| **10.10** |  | **Header, tilt forward; crop divider, tilt forward**<br>To identify the control that lowers the front of the header or drop divider (tilts the header or crop divider forward). | ISO 7000-3139 |
| **10.11** |  | **Header, tilt rearward; crop divider, tilt rearward**<br>To identify the control that raises the front of the header or drop divider (tilts the header or crop divider rearward). | ISO 7000-3140 |
| **10.12** |  | **Header width**<br>To identify the control that enters the width of the header of the harvesting machine.<br>To indicate the header width.<br>May be used in conjunction with unit of width measurement. | ISO 7000-3141 |

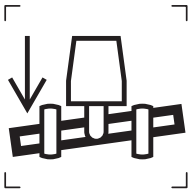
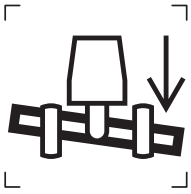
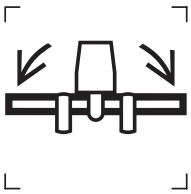
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **10.13** |  | **Header row number; number header of rows**<br>To identify the control for selecting a particular header row or for selecting the number of rows on a header.<br>To indicate the number of rows on a header or the operational status of a particular header row.<br>This symbol is viewed from the perspective of a person looking at the header from above the machine. | ISO 7000-2804 |
| **10.14** |  | **Row spacing**<br>To identify the control that sets or adjusts the spacing between the rows of a header.<br>To indicate the spacing between rows.<br>This symbol is viewed from the perspective of a person looking at the header from above the machine. | ISO 7000-3435 |
| **10.15** |  | **Reel; reel drive**<br>To identify the control for the reel drive of the harvesting machine.<br>To indicate the operational status of the reel. | ISO 7000-1582 |
| **10.16** |  | **Reel height**<br>To identify the control that raises or lowers the reel relative to the cutting platform of the harvesting machine. | ISO 7000-1583 |
| **10.17** |  | **Reel distance**<br>To identify the control that moves the reel forward or rearward relative to the cutting platform of the harvesting machine. | ISO 7000-1584 |
| **10.18** |  | **Reel, move forward**<br>To identify the control that moves the reel forward relative to the cutting platform of the harvesting machine.<br>To indicate that the reel is moving forward or is in its maximum forward position. | ISO 7000-1669 |
| **10.19** |  | **Reel, move rearward**<br>To identify the control that moves the reel rearward relative to the cutting platform of the harvesting machine.<br>To indicate that the reel is moving rearward or is in its maximum rearward position. | ISO 7000-1670 |
| **10.20** |  | **Reel, resume position**<br>To identify the control that returns the reel to its preset position relative to the header. | ISO 7000-3245 |

| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **10.21** |  | **Reel speed**<br>To identify to control that sets or adjusts the rotational speed of the reel.<br>To indicate the rotational speed of the reel. | ISO 7000-1671 |
| **10.22** |  | **Reel, direction of rotation, forward**<br>To identify the control that rotates the reel in the forward direction.<br>To indicate that the reel is rotating forward. | ISO 7000-3142 |
| **10.23** |  | **Reel, direction of rotation, reverse**<br>To identify the control that rotates the reel in the reverse direction.<br>To indicate that the reel is rotating in the reverse direction. | ISO 7000-3143 |
| **10.24** |  | **Draper**<br>To identify the control for the draper, which conveys crop across the width of the header to a central windrow.<br>To indicate the operational status of the draper.<br>This symbol may be used with a numerical indicator of draper speed.<br>This symbol is viewed from the perspective of a person looking at the draper from above the machine. | ISO 7000-3246 |
| **10.25** |  | **Draper speed**<br>To identify the control that sets or adjusts the speed of the draper.<br>To indicate the draper speed.<br>This symbol is viewed from the perspective of a person looking at the draper from above the machine. | ISO 7000-3247 |
| **10.26** |  | **Off-centre draper**<br>To identify the control for the off-centre draper, which conveys crop across the width of the header to a windrow offset to the side of the machine.<br>To indicate the operational status of the off-centre draper.<br>This symbol may be used with a numerical indicator of off-centre draper speed.<br>This symbol is viewed from the perspective of a person looking at the draper from above the machine. | ISO 7000-3249 |
| **10.27** |  | **Off-centre draper, speed**<br>To identify the control that sets or adjusts the speed of the off-centre draper.<br>To indicate the off-centre draper speed.<br>This symbol is viewed from the perspective of a person looking at the draper from above the machine. | ISO 7000-3248 |

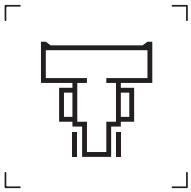
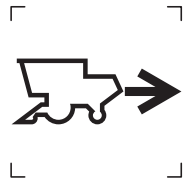
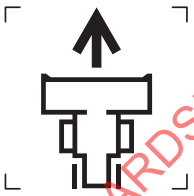
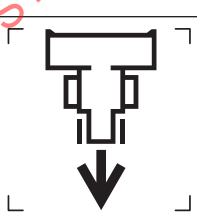
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **10.28** |  | **Chopper**<br>To identify the control of the chopper of the combine harvester or other crop processing equipment.<br>To indicate the operational status of the chopper. | ISO 7000-1573 |
| **10.29** |  | **Cleaning fan**<br>To identify the control for the cleaning fan.<br>To indicate the operational status of the cleaning fan. | ISO 7000-1597 |
| **10.30** |  | **Cleaning fan, speed**<br>To identify the control that sets or adjusts the operating speed of the cleaning fan.<br>To indicate the operating speed of the cleaning fan. | ISO 7000-3200 |
| **10.31** |  | **Primary cleaning (suction) fan**<br>To identify the control for the primary cleaning (suction) fan.<br>To indicate the operational status of the primary cleaning (suction) fan. | ISO 7000-3250 |
| **10.32** |  | **Primary cleaning (suction) fan, speed**<br>To identify the control that sets or adjusts the operating speed of the primary cleaning (suction) fan.<br>To indicate the operating speed of the primary cleaning (suction) fan. | ISO 7000-3251 |
| **10.33** |  | **Secondary cleaning (suction) fan**<br>To identify the control for the secondary cleaning (suction) fan, which extracts unwanted crop residue that was not removed by the primary cleaning (suction) fan.<br>To indicate the operational status of the secondary cleaning (suction) fan. | ISO 7000-3252 |
| **10.34** |  | **Secondary cleaning (suction) fan, speed**<br>To identify the control that sets or adjusts the operating speed of the secondary cleaning (suction) fan, which extracts unwanted crop residue that was not removed by the primary cleaning (suction) fan.<br>To indicate the operating speed of the secondary cleaning (suction) fan. | ISO 7000-3253 |

| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **10.35** |  | **Magnetic metal detector**<br>To identify the location of the magnetic metal detector.<br>To indicate the operational status of the magnetic metal detector. | Application of ISO 7000-1677 |
| **10.36** |  | **Auger conveyor**<br>To identify the equipment used to move material by rotation of the auger.<br>To identify the control for operation of the auger conveyor.<br>To indicate the operational status of the auger conveyor. | ISO 7000-2144 |
| **10.37** |  | **Crop tank**<br>To indicate the operational status of the grain tank on a harvesting machine.<br>This symbol can be used in conjunction with a numerical value indicating the capacity of the crop tank or the amount of crop in the tank or the proportion (percentage) that the crop tank is full. | ISO 7000-2148 |
| **10.38** |  | **Crop moisture content**<br>To identify the control for regulating the crop moisture content.<br>To indicate the crop moisture content.<br>This symbol is ISO 7000 registered with the title “Relative humidity; moisture content” and a different description. | ISO 7000-0505 |
| **10.39** |  | **Grain processor, roll distance**<br>To identify the control that sets or adjusts the distance between rolls of the grain processor.<br>To indicate the roll distance of the grain processor. | ISO 7000-2803 |
| **10.40** |  | **Grain damage**<br>To indicate the percentage or degree of damaged grain in the sample. | ISO 7000-3254 |
| **10.41** |  | **Crop harvested**<br>To indicate the total amount of grain or other crop that has been harvested since the last reset of the yield monitor.<br>Symbol may be used in conjunction with the symbol for counter in ISO 3767-1 (application of ISO 7000-0695). | ISO 7000-3255 |

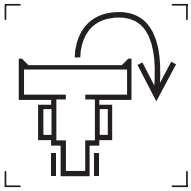
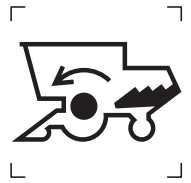
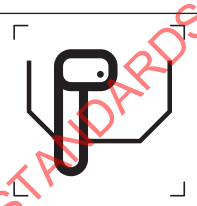
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **10.42** |  | **Crop yield**<br>To indicate the amount of grain or other crop that has been harvested per area since the last reset of the yield monitor.<br>Symbol may be used in conjunction with the symbol for counter in ISO 3767-1 (application of ISO 7000-0695). | ISO 7000-3144 |
| **10.43** |  | **Sidehill machine (rear view of machine)**<br>To identify the control for side-to-side levelling of the machine for operation on an incline.<br>This symbol is viewed from the perspective of a person looking forward along the longitudinal axis of the machine. | ISO 7000-2145 |
| **10.44** |  | **Sidehill machine, level left side**<br>To identify the control that raises the left side of the machine for operation on an incline that falls away to the left of the machine.<br>This symbol is viewed from the perspective of a person looking forward along the longitudinal axis of the machine. | ISO 7000-2146 |
| **10.45** |  | **Sidehill machine, level right side**<br>To identify the control that lowers the right side of the machine for operation on an incline that falls away to the right of the machine.<br>This symbol is viewed from the perspective of a person looking forward along the longitudinal axis of the machine. | ISO 7000-2147 |
| **10.46** |  | **Wheel machine, cab levelling, fore-and-aft**<br>To identify the control for fore-to-aft levelling of the cab for operation on an incline. | ISO 7000-2807 |
| **10.47** |  | **Track machine, cab levelling, fore-and-aft**<br>To identify the control for fore-to-aft levelling of the cab for operation on an incline. | ISO 7000-2808 |
| **10.48** |  | **Header, lateral tilt (base symbol)**<br>To identify the control that allows the header to tilt laterally left or right.<br>To indicate the operational status of the header tilt function.<br>This symbol is viewed from the perspective of a person looking forward along the longitudinal axis of the machine. | ISO 7000-2185 |

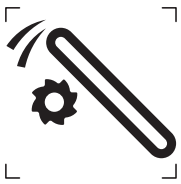
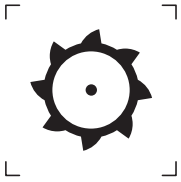
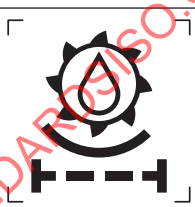
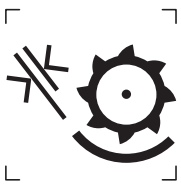
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **10.49** |  | **Header, lateral tilt left**<br>To identify the control that tilts the header down laterally to the left by rotating the header at its lateral midpoint.<br>To indicate that the header is being tilted to the left or is in the left-tilted position.<br>This symbol is viewed from the perspective of a person looking forward along the longitudinal axis of the machine. | ISO 7000-2186 |
| **10.50** |  | **Header, lateral tilt right**<br>To identify the control that tilts the header down laterally to the right by rotating the header at its lateral midpoint.<br>To indicate that the header is being tilted to the right or is in the right-tilted position.<br>This symbol is viewed from the perspective of a person looking forward along the longitudinal axis of the machine. | ISO 7000-2187 |
| **10.51** |  | **Header wings, fold down**<br>To identify the control that folds down the header wings of the harvesting machine.<br>To indicate that the header wings are folding down or are in their down position.<br>This symbol is viewed from the perspective of a person looking forward along the longitudinal axis of the machine. | ISO 7000-3256 |
| **10.52** |  | **Header wings, fold up**<br>To identify the control that folds up the header wings of the harvesting machine.<br>To indicate that the header wings are folding up or are in their up position.<br>This symbol is viewed from the perspective of a person looking forward along the longitudinal axis of the machine. | ISO 7000-3145 |

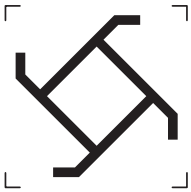
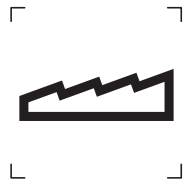
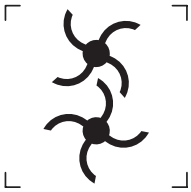
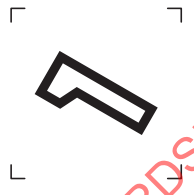
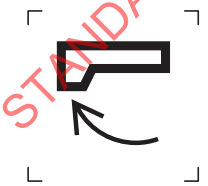
## 11 Combine harvester symbols

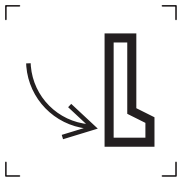
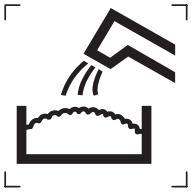
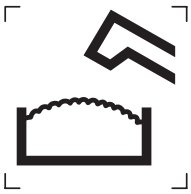
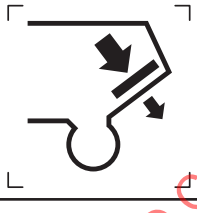
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 11.1 |  | **Combine harvester (side view of machine)**<br>To identify from a side (profile) view the machine used to harvest grain and which combines harvesting, threshing and cleaning operations.<br>Use as a base symbol for developing combine harvester symbols that use a side (profile) view. | ISO 7000-2138 |
| 11.2 |  | **Combine harvester (overhead view of machine)**<br>To identify from an overhead (plan) view the machine used to harvest grain and which combines harvesting, threshing and cleaning operations.<br>This symbol is viewed from the perspective of a person looking at the combine harvester from above the machine.<br>Use as a base symbol for developing combine harvester symbols that use an overhead view. | ISO 7000-2139 |
| 11.3 |  | **Combine harvester, forward direction of movement (side view of machine)**<br>To identify the control that moves the combine harvester in the forward direction.<br>To indicate that the combine harvester is moving forward. | ISO 7000-1678 |
| 11.4 |  | **Combine harvester, rearward direction of movement (side view of machine)**<br>To identify the control that moves the combine harvester in the rearward direction.<br>To indicate that the combine harvester is moving rearward. | ISO 7000-1679 |
| 11.5 |  | **Combine harvester, forward direction of movement (overhead view of machine)**<br>To identify the control that moves the combine harvester in the forward direction.<br>To indicate that the combine harvester is moving forward.<br>This symbol is viewed from the perspective of a person looking at the combine harvester from above the machine. | ISO 7000-2140 |
| 11.6 |  | **Combine harvester, rearward direction of movement (overhead view of machine)**<br>To identify the control that moves the combine harvester in the rearward direction.<br>To indicate that the combine harvester is moving rearward.<br>This symbol is viewed from the perspective of a person looking at the combine harvester from above the machine. | ISO 7000-2141 |

| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **11.7** |  | **Combine harvester, ground speed**<br>To identify the display that shows the ground speed of the combine harvester.<br>To indicate the ground speed of the combine harvester. | ISO 7000-2196 |
| **11.8** |  | **Combine harvester, ground speed, automatic control**<br>To identify the control that activates the automatic mode for combine harvester ground speed.<br>To indicate that combine harvester ground speed is in the automatic control mode. | ISO 7000-3389 |
| **11.9** |  | **Combine harvester, target ground speed**<br>To identify the control that sets the target ground speed for the combine harvester.<br>To indicate the combine harvester target ground speed. | ISO 7000-3390 |
| **11.10** |  | **Combine harvester, powered rear wheels**<br>To identify the control for the combine harvester rear wheel drive.<br>To indicate that the combine harvester rear wheel drive is in normal operation mode. | ISO 7000-2188 |
| **11.11** |  | **Combine harvester, powered rear wheels, automatic operation**<br>To identify the control that activates the automatic operation of the combine harvester powered rear wheels.<br>To indicate that the combine harvester powered rear wheels are in automatic operation mode.<br>Powered rear wheels are engaged and disengaged automatically based on operating conditions. | ISO 7000-3391 |
| **11.12** |  | **Combine harvester, wheel slip**<br>To indicate the degree of wheel slip, which is the difference between the actual ground speed of the combine harvester and the ground speed implied by the rotational speed of the drive wheels.<br>To identify the control that sets or adjusts the degree of wheel slip at which another action is taken, either manually or automatically. | ISO 7000-3392 |
| **11.13** |  | **Combine harvester, wheel slip, automatic operation**<br>To identify the control that activates the automatic operation of the combine harvester wheel slip system.<br>To indicate that the combine harvester wheel slip system is in automatic operation mode. | ISO 7000-3393 |

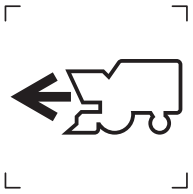
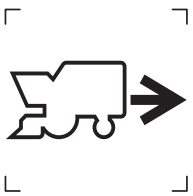
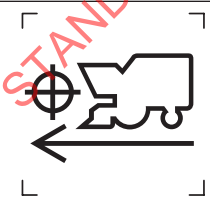
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **11.14** |  | **Combine harvester, ready to harvest**<br>To indicate that the equipment and mechanisms of the combine harvester are ready for harvesting operations | ISO 7000-3394 |
| **11.15** |  | **Combine harvester, headland turning**<br>To identify the control for a programmed sequence of combine harvester operations taken at the end of a field (headland).<br>To indicate the operational status of the headland turning system.<br>This symbol is viewed from the perspective of a person looking at the combine from above the machine. | ISO 7000-2800 |
| **11.16** |  | **Combine harvester, separator drive**<br>To indicate the operational status of the separator drive system. | ISO 7000-1578 |
| **11.17** |  | **Header backshaft**<br>To identify the control for the header backshaft.<br>To indicate the operational status of the header backshaft.<br>This symbol may be used with a numeric indicator of header backshaft rotational speed. | ISO 7000-3146 |
| **11.18** |  | **Header backshaft speed**<br>To identify the control that sets or adjusts the speed of the header backshaft.<br>To indicate the header backshaft speed.<br>Symbol element “n/min” may be replaced by a numerical indicator of PTO rated speed. | ISO 7000-3201 |
| **11.19** |  | **Grain elevator; grain auger**<br>To identify the control for the grain elevator, which transports clean grain to the grain tank.<br>To indicate the operational status of the grain elevator. | ISO 7000-1576 |

| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **11.20** |  | **Tailings elevator; tailings auger**<br>To identify the control for the tailings elevator, which transports crop material back to the threshing mechanism for further separation of grain.<br>To indicate the operational status of the tailings elevator. | ISO 7000-1577 |
| **11.21** |  | **Threshing cylinder**<br>To identify the control for the threshing cylinder.<br>To indicate the operational status of the threshing cylinder.<br>This symbol may be used with a numerical indicator of threshing cylinder rotational speed. | ISO 7000-1574 |
| **11.22** |  | **Threshing cylinder, speed**<br>To identify the control that sets or adjusts the rotational speed of the threshing cylinder.<br>To indicate the threshing cylinder rotational speed.<br>Symbol element “n/min” may be replaced by a numerical indicator of threshing cylinder speed. | ISO 7000-3202 |
| **11.23** |  | **Separator drive oil**<br>To identify the fill point for separator drive oil.<br>To identify the container for separator drive oil. | ISO 7000-2189 |
| **11.24** |  | **Separator drive oil pressure**<br>To identify the display that provides information about the separator drive oil pressure.<br>To indicate the separator drive oil pressure. | ISO 7000-2190 |
| **11.25** |  | **Separator drive oil filter**<br>To identify the separator drive oil filter.<br>To identify the display that provides information about the separator drive oil filter.<br>To indicate the operational status of the separator drive oil filter. | ISO 7000-2191 |
| **11.26** |  | **Separator drive oil temperature**<br>To identify the display that provides information about the separator drive oil temperature.<br>To indicate the separator drive oil temperature. | ISO 7000-2192 |
| **11.27** |  | **Concave adjustment**<br>To identify the control that sets or adjusts the distance between the threshing cylinder and the concave.<br>To indicate the distance between the threshing cylinder and the concave. | ISO 7000-1585 |

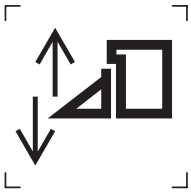
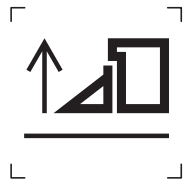
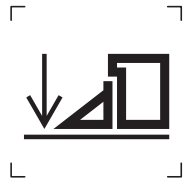
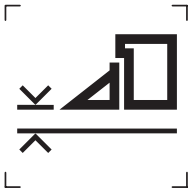
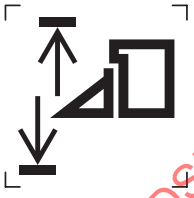
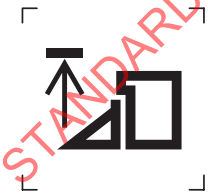
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **11.28** |  | **Beater**<br>To identify the control for the beater of the combine harvester.<br>To indicate the operational status of the beater. | ISO 7000-2193 |
| **11.29** |  | **Straw walker**<br>To identify the control for the straw walker of the combine harvester.<br>To indicate the operational status of the straw walker. | ISO 7000-1575 |
| **11.30** |  | **Sieve adjustment**<br>To identify the control that sets or adjusts the sieve to allow larger or smaller kernels of grain to fall through the sieve.<br>To indicate the operational status of the sieve. | ISO 7000-1586 |
| **11.31** |  | **Spreader**<br>To identify the control for the spreader.<br>To indicate the operational status of the spreader.<br>This symbol may be used with a numerical indicator of threshing cylinder rotational speed. | ISO 7000-3147 |
| **11.32** |  | **Spreader speed**<br>To identify the control that sets or adjusts the spreader speed.<br>To indicate the spreader speed. | ISO 7000-3257 |
| **11.33** |  | **Unloader**<br>To identify the control for the unloader.<br>To indicate the operational status of the unloader.<br>This symbol is viewed from the perspective of a person looking at the unloader from above the machine. | ISO 7000-1672 |
| **11.34** |  | **Unloader, swing out**<br>To identify the control that swings the unloader away from the side of the combine harvester to allow the grain tank to be unloaded.<br>To indicate that the unloader is swinging out or has reached the out position.<br>This symbol is viewed from the perspective of a person looking at the unloader from above the machine. | ISO 7000-1587 |

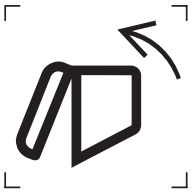
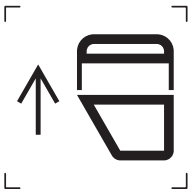
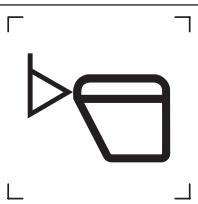
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **11.35** |  | **Unloader, swing in**<br>To identify the control that swings the unloader toward the side of the combine harvester.<br>To indicate that the unloader is swinging in or has reached the in position.<br>This symbol is viewed from the perspective of a person looking at the unloader from above the machine. | ISO 7000-1588 |
| **11.36** |  | **Unloader drive, discharge**<br>To identify the control that activates the discharge mechanism to unload grain from the grain tank of the combine harvester to a transport machine or storage container.<br>To indicate that the unloader drive is in operation.<br>This symbol is viewed from the perspective of a person looking forward along the longitudinal axis of the machine. | ISO 7000-1589 |
| **11.37** |  | **Unloader drive, disengage**<br>To identify the control that deactivates the discharge mechanism of the unloader drive.<br>To indicate that the unloader drive is not in operation.<br>This symbol is viewed from the perspective of a person looking forward along the longitudinal axis of the machine. | ISO 7000-3258 |
| **11.38** |  | **Combine harvester, restricted crop flow**<br>To indicate that crop flow through the combine harvester is restricted (for example, by attempting to move too great a volume of crop through the combine harvester or by an obstruction in the crop path). | ISO 7000-2195 |

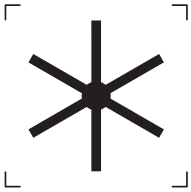
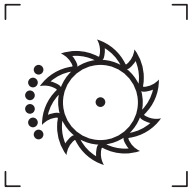
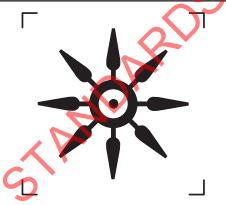
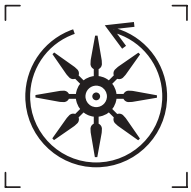
## 12 Cotton harvester symbols

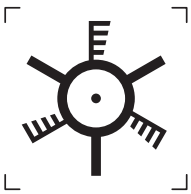
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 12.1 |  | **Cotton harvester (side view of machine)**<br>To identify the cotton harvester from a side (profile) view.<br>Use as a base symbol for developing cotton harvester symbols that use a side (profile) view. | ISO 7000-2149 |
| 12.2 |  | **Cotton harvester, forward movement (side view of machine)**<br>To identify the control that moves the cotton harvester in the forward direction.<br>To indicate that the cotton harvester is moving forward.<br>The cotton harvester is shown in the side (profile) view. | ISO 7000-2150 |
| 12.3 |  | **Cotton harvester, rearward movement (side view of machine)**<br>To identify the control that moves the cotton harvester in the rearward direction.<br>To indicate that the cotton harvester is moving rearward.<br>The cotton harvester is shown in the side (profile) view. | ISO 7000-2151 |
| 12.4 |  | **Cotton harvester, ground speed**<br>To identify the display that shows the ground speed of the tractor.<br>To indicate the ground speed of the cotton harvester. | ISO 7000-2197 |
| 12.5 |  | **Cotton harvester, ground speed, automatic control**<br>To identify the control that activates the automatic mode for cotton harvester ground speed.<br>To indicate that cotton harvester ground speed is in the automatic control mode. | ISO 7000-3264 |
| 12.6 |  | **Cotton harvester, target ground speed**<br>To identify the control that sets the target ground speed for the cotton harvester.<br>To indicate the cotton harvester target ground speed. | ISO 7000-3265 |
| 12.7 |  | **Cotton harvester, powered rear wheels**<br>To identify the control for the powered rear wheel drive function on the cotton harvester.<br>To indicate the operational status of the powered rear wheel drive function. | ISO 7000-3148 |

| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 12.8 |  | **Cotton harvester, powered rear wheels, automatic operation**<br>To identify the control that activates the automatic operation of the cotton harvester powered rear wheels.<br>To indicate the operational status of the cotton harvester automatic powered rear wheel function.<br>Powered rear wheels are engaged and disengaged automatically based on operating conditions. | ISO 7000-3208 |
| 12.9 |  | **Cotton harvester, wheel slip**<br>To indicate the degree of wheel slip, which is the difference between the actual ground speed of the cotton harvester and the ground speed implied by the rotational speed of the drive wheels.<br>To identify the control that sets or adjusts the degree of wheel slip at which another action is taken, either manually or automatically. | ISO 7000-3266 |
| 12.10 |  | **Cotton harvester, wheel slip, automatic operation**<br>To identify the control that activates the automatic operation of the cotton harvester wheel slip system.<br>To indicate that the cotton harvester wheel slip system is in automatic operation mode. | ISO 7000-3267 |
| 12.11 |  | **Cotton harvester, ready to harvest**<br>To indicate that the equipment and mechanisms of the cotton harvester are ready for harvesting operations. | ISO 7000-3149 |
| 12.12 |  | **Cotton picking unit; cotton stripping unit**<br>To identify the control for the cotton picking or cotton stripping unit of the cotton harvester.<br>To indicate the operational status of the cotton harvesting unit.<br>Use as a base symbol for developing symbols for cotton harvesting functions that involve the picking unit. | ISO 7000-1590 |
| 12.13 |  | **Cotton picking unit, reverse**<br>To identify the control that reverses the direction of the cotton picking or cotton stripping unit (for example, to dislodge material that is preventing normal operation).<br>To indicate that the cotton picking unit is operating in reverse. | ISO 7000-3150 |
| 12.14 |  | **Cotton picking unit, off**<br>To identify the control that stops operation of the cotton picking unit.<br>To indicate that the cotton picking unit is switched off. | ISO 7000-3209 |

| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **12.15** |  | **Cotton picking unit, up and down**<br>To identify the control that raises or lowers the cotton picking or cotton stripping unit. | ISO 7000-3268 |
| **12.16** |  | **Cotton picking unit, up (raise)**<br>To identify the control that raises one or a group of cotton picking or cotton stripping units.<br>To indicate that the cotton harvesting unit is being raised or is in the raised (up) position.<br>The horizontal ground line may be deleted if in context the meaning of the symbol remains clear. | ISO 7000-1591 |
| **12.17** |  | **Cotton picking unit, down (lower)**<br>To identify the control that lowers one or a group of cotton picking or cotton stripping units.<br>To indicate that the cotton harvesting unit is being lowered or is in the lowered (down) position.<br>The horizontal ground line may be deleted if in context the meaning of the symbol remains clear. | ISO 7000-1592 |
| **12.18** |  | **Cotton picking unit, height adjustment**<br>To identify the control that sets or adjusts the height of the cotton picking unit relative to the ground.<br>If necessary, continuous height adjustment can be differentiated from stepwise height adjustment by adding ISO 7000-1364 or IEC 60417-5004 to this symbol. | ISO 7000-3269 |
| **12.19** |  | **Cotton picking unit, raise or lower to preset height**<br>To identify the control that raises or lowers the cotton picking or cotton stripping unit to a specified height. | ISO 7000-3210 |
| **12.20** |  | **Cotton picking unit, upper height limit**<br>To identify the control that sets the upper height limit for the cotton picking or cotton stripping unit. | ISO 7000-3270 |
| **12.21** |  | **Cotton basket**<br>To identify the control for operating the cotton basket.<br>To indicate the operational status of the cotton basket.<br>Use as a base symbol for developing symbols for cotton harvesting functions that involve a basket. | ISO 7000-1593 |

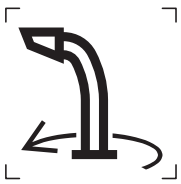
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **12.22** |  | **Cotton basket, dump**<br>To identify the control that dumps the cotton basket.<br>To indicate that the cotton basket is being dumped or is in the dump position. | ISO 7000-1673 |
| **12.23** |  | **Cotton basket, return (carry)**<br>To identify the control that returns the cotton basket to the carry position.<br>To indicate that the cotton basket is being returned to or is in the carry position. | ISO 7000-1674 |
| **12.24** |  | **Cotton basket, extend**<br>To identify the control that extends the top of the cotton basket to allow more cotton to be harvested before the basket is emptied.<br>To indicate that the cotton basket is being extended or is in the extended position. | ISO 7000-2152 |
| **12.25** |  | **Cotton basket, full**<br>To indicate that the cotton basket has been filled to its maximum capacity. | ISO 7000-3151 |
| **12.26** |  | **Cotton basket conveyor**<br>To identify the control for operation of the cotton basket conveyor, which moves cotton within the basket to assist in dumping cotton.<br>To indicate the operational status of the cotton basket conveyor. | ISO 7000-3211 |
| **12.27** |  | **Cotton basket vane**<br>To identify the control for operation of the cotton basket vane, which compacts cotton within the basket to allow more cotton to be harvested before the basket is emptied.<br>To indicate the operational status of the cotton basket vane.<br>This symbol is viewed from the perspective of a person looking forward along the longitudinal axis of the machine. | ISO 7000-3152 |
| **12.28** |  | **Cotton basket vane, rotate left**<br>To identify the control that rotates the cotton basket vane to the left.<br>To indicate that the cotton basket vane is rotating to the left or is in the left-rotated position.<br>This symbol is viewed from the perspective of a person looking forward along the longitudinal axis of the machine. | ISO 7000-3153 |

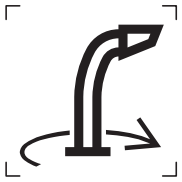
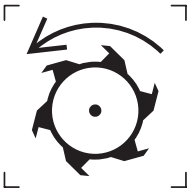
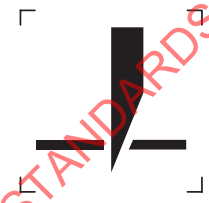
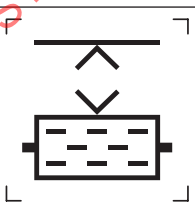
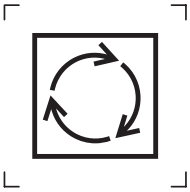
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **12.29** |  | **Cotton basket vane, rotate right**<br>To identify the control that rotates the cotton basket vane to the right.<br>To indicate that the cotton basket vane is rotating to the right or is in the right-rotated position.<br>This symbol is viewed from the perspective of a person looking forward along the longitudinal axis of the machine. | ISO 7000-3154 |
| **12.30** |  | **Cleaner feed**<br>To identify the control for the cleaner feed of the cotton harvester.<br>To indicate the operational status of the cleaner feed.<br>This symbol may be used with a numerical indicator of cleaner feed speed. | Application of ISO 7000-2153 |
| **12.31** |  | **Cleaner saw**<br>To identify the control for the cleaner saw of the cotton harvester.<br>To indicate the operational status of the cleaner saw.<br>This symbol may be used with a numerical indicator of cleaner saw speed. | ISO 7000-2154 |
| **12.32** |  | **Cleaner saw speed**<br>To identify the control that sets or adjusts the speed of the cleaner saw of the cotton harvester.<br>To indicate the cleaner saw speed. | ISO 7000-3271 |
| **12.33** |  | **Cotton chamber (door)**<br>To identify the control that opens and closes the cotton chamber (door) or the cotton harvester.<br>To indicate the operational status of the cotton chamber (door). | ISO 7000-2155 |
| **12.34** |  | **Cotton spindle drum**<br>To identify the control for the cotton spindle drum.<br>To indicate the operational status of the cotton spindle drum.<br>This symbol may be used with a numerical indicator of cotton spindle drum speed. | Application of ISO 7000-2156 |
| **12.35** |  | **Cotton spindle drum, rotation**<br>To identify the control that rotates the cotton spindle drum at a slow speed in order to allow the operator safely to perform diagnostic or maintenance functions. | ISO 7000-3272 |

| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **12.36** |  | **Tether**<br>To identify the location of the control, attached to the machine by a tether cord, that allows control of selected functions by the operator from outside the cab. | ISO 7000-3273 |
| **12.37** |  | **Brush rolls**<br>To identify the control for the brush rolls of the cotton harvester.<br>To indicate the operational status of the brush rolls.<br>This symbol may be used with a numerical indicator of brush roll speed. | ISO 7000-2194 |
| **12.38** |  | **Cross auger**<br>To identify the control for the cross auger.<br>To indicate the operational status of the cross auger.<br>This symbol may be used with a numerical indicator of cross auger speed.<br>This symbol is viewed from the perspective of a person looking at the cross auger from above the machine. | ISO 7000-3274 |
| **12.39** |  | **Blower vacuum**<br>To identify the control for the blower that reduces the air pressure (creates a partial vacuum) to assist in transporting cotton to the basket.<br>To indicate the operational status of the blower vacuum. | ISO 7000-3155 |
| **12.40** |  | **Trash chute**<br>To indicate the operational status of the trash chute, through which passes debris from the cotton harvesting operations. | ISO 7000-3212 |

## 13 Forage harvester symbols

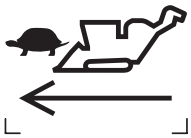
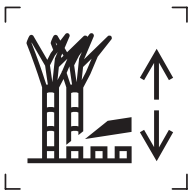
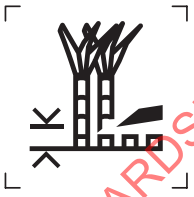
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 13.1 |  | **Self-propelled forage harvester (side view of machine)**<br>To identify the self-propelled forage harvester from a side (profile) view.<br>Use as a base symbol for developing forage harvester symbols that use a side (profile) view. | ISO 7000-2157 |
| 13.2 |  | **Self-propelled forage harvester, forward movement (side view of machine)**<br>To identify the control that moves the self-propelled forage harvester in the forward direction.<br>To indicate that the forage harvester is moving forward.<br>The forage harvester is shown in the side (profile) view. | ISO 7000-2158 |
| 13.3 |  | **Self-propelled forage harvester, rearward movement (side view of machine)**<br>To identify the control that moves the self-propelled forage harvester in the rearward direction.<br>To indicate that the forage harvester is moving rearward.<br>The forage harvester is shown in the side (profile) view. | ISO 7000-2159 |
| 13.4 |  | **Self-propelled forage harvester, ground speed**<br>To identify the display that shows the ground speed of the self-propelled forage harvester.<br>To indicate the ground speed of the self-propelled forage harvester. | ISO 7000-2198 |
| 13.5 |  | **Self-propelled forage harvester, ground speed, automatic control**<br>To identify the control that activates the automatic mode for forage harvester ground speed.<br>To indicate that forage harvester ground speed is in the automatic control mode. | ISO 7000-3275 |
| 13.6 |  | **Self-propelled forage harvester, target ground speed**<br>To identify the control that sets the target ground speed for the forage harvester.<br>To indicate the forage harvester target ground speed. | ISO 7000-3276 |
| 13.7 |  | **Self-propelled forage harvester, powered rear wheels**<br>To identify the control for the powered rear wheel drive function on the self-propelled forage harvester.<br>To indicate the operational status of the powered rear wheel drive function. | ISO 7000-3277 |

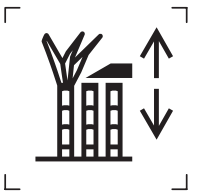
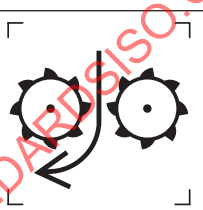
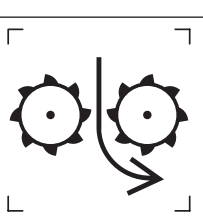
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **13.8** |  | **Self-propelled forage harvester, powered rear wheels, automatic operation**<br>To identify the control that activates the automatic operation of the self-propelled forage harvester powered rear wheels.<br>To indicate the operational status of the cotton harvester automatic powered rear wheel function.<br>Powered rear wheels are engaged and disengaged automatically based on operating conditions. | ISO 7000-3278 |
| **13.9** |  | **Self-propelled forage harvester, wheel slip**<br>To indicate the degree of wheel slip, which is the difference between the actual ground speed of the forage harvester and the ground speed implied by the rotational speed of the drive wheels.<br>To identify the control that sets or adjusts the degree of wheel slip at which another action is taken, either manually or automatically. | ISO 7000-3279 |
| **13.10** |  | **Self-propelled forage harvester, wheel slip, automatic operation**<br>To identify the control that activates the automatic operation of the forage harvester wheel slip system.<br>To indicate that the forage harvester wheel slip system is in automatic operation mode. | ISO 7000-3280 |
| **13.11** |  | **Spout**<br>To identify the control that adjusts the angle of the forage harvester spout deflector.<br>To indicate the operational status of the spout. | ISO 7000-1594 |
| **13.12** |  | **Spout deflector, up**<br>To identify the control that raises the spout deflector to direct silage into the desired portion of the wagon or storage container.<br>To indicate that the spout deflector is being raised. | ISO 7000-1595 |
| **13.13** |  | **Spout deflector, down**<br>To identify the control that lowers the spout deflector to direct silage into the desired portion of the wagon or storage container.<br>To indicate that the spout deflector is being lowered. | ISO 7000-1596 |
| **13.14** |  | **Spout rotation, left**<br>To identify the control that rotates the spout to the left to direct silage into the desired portion of the wagon or storage container.<br>To indicate that the spout is being rotated to the left.<br>The arrow indicating rotation is viewed from the perspective of a person looking at the spout from above the machine. | ISO 7000-1675 |

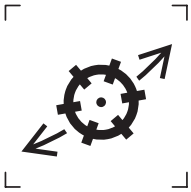
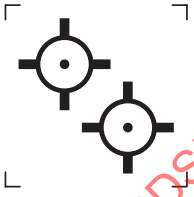
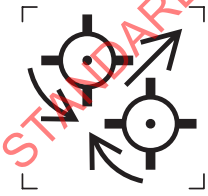
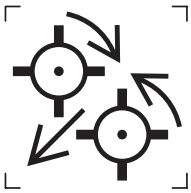
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 13.15 |  | **Spout rotation, right**<br>To identify the control that rotates the spout to the right to direct silage into the desired portion of the wagon or storage container.<br>To indicate that the spout is being rotated to the left.<br>The arrow indicating rotation is viewed from the perspective of a person looking at the spout from above the machine. | ISO 7000-1676 |
| 13.16 |  | **Cutterhead**<br>To identify the control for the cutterhead of the forage harvester.<br>To indicate the operational status of the cutterhead.<br>This symbol may be used with a numerical indicator of cutterhead rotational speed. | ISO 7000-2160 |
| 13.17 |  | **Cutterhead speed**<br>To identify the control that sets or adjusts the cutterhead speed.<br>To identify the display for the cutterhead speed.<br>To indicate the cutterhead speed. | ISO 7000-3281 |
| 13.18 |  | **Cutterhead, forward rotation**<br>To identify the control that rotates the cutterhead in the forward direction.<br>To indicate that the cutterhead is rotating forward. | ISO 7000-2199 |
| 13.19 |  | **Crop cutting height**<br>To identify the control that sets or adjusts the cutting height.<br>To indicate the specified or actual cutting height. | ISO 7000-3282 |
| 13.20 |  | **Crop cutting length**<br>To identify the control that sets or adjusts the cutting length.<br>To indicate the specified or actual cutting length | ISO 7000-0683B |
| 13.21 |  | **Shear bar-to-cutterhead distance**<br>To identify the control for adjusting the distance between the shear bar and cutterhead.<br>To indicate the specified or actual shear bar-to-cutterhead distance during operation. | ISO 7000-2802 |
| 13.22 |  | **Rotary air screen**<br>To identify the control for the rotary air screen.<br>To indicate the operational status of the rotary air screen. | ISO 7000-3283 |

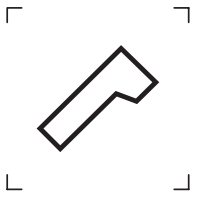
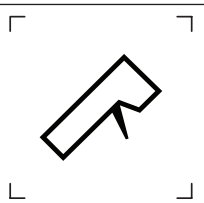
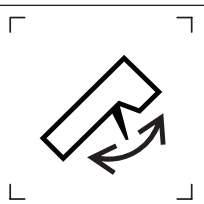
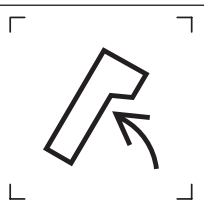
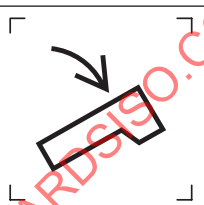
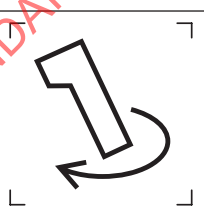
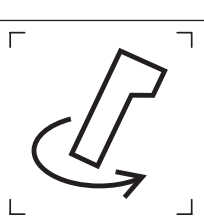
## 14 Sugar cane harvester symbols

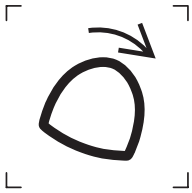
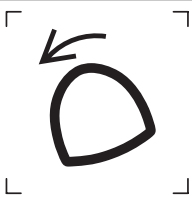
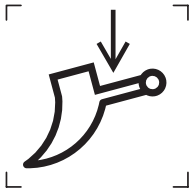
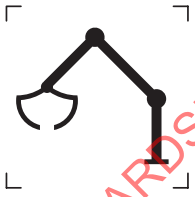
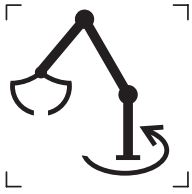
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **14.1** |  | **Sugar cane harvester (side view of machine)**<br>To identify the sugar cane harvester from a side (profile) view.<br>Use as a base symbol for developing sugar cane harvester symbols that use a side (profile) view. | ISO 7000-3213 |
| **14.2** |  | **Sugar cane harvester (overhead view of machine)**<br>To identify the sugar cane harvester from an overhead (plan) view.<br>Use as a base symbol for developing sugar cane harvester symbols that use an overhead view. | ISO 7000-3214 |
| **14.3** |  | **Sugar cane harvester, forward direction of movement (side view of machine)**<br>To identify the control that moves the cane harvester in the forward direction.<br>To indicate that the cane harvester is moving forward.<br>The cane harvester is shown in the side (profile) view. | ISO 7000-3419 |
| **14.4** |  | **Sugar cane harvester, rearward direction of movement (side view of machine)**<br>To identify the control that moves the cane harvester in the rearward direction.<br>To indicate that the cane harvester is moving rearward.<br>The cane harvester is shown in the side (profile) view. | ISO 7000-3420 |
| **14.5** |  | **Sugar cane harvester, forward direction of movement (overhead view of machine)**<br>To identify the control that moves the cane harvester in the forward direction.<br>To indicate that the cane harvester is moving forward.<br>The cane harvester is shown in the overhead (plan) view. | ISO 7000-3421 |
| **14.6** |  | **Sugar cane harvester, rearward direction of movement (overhead view of machine)**<br>To identify the control that moves the cane harvester in the rearward direction.<br>To indicate that the cane harvester is moving rearward.<br>The cane harvester is shown in the overhead (plan) view. | ISO 7000-3422 |
| **14.7** |  | **Sugar cane harvester, ground speed**<br>To identify the display that shows the ground speed of the cane harvester.<br>To indicate the ground speed of the cane harvester. | ISO 7000-3339 |

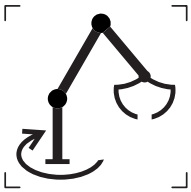
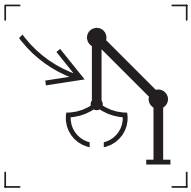
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **14.8** |  | **Sugar cane harvester, ground speed, fast setting**<br>To identify the control that activates the fast ground speed setting of the cane harvester.<br>To indicate that the cane harvester is in the fast ground speed mode. | ISO 7000-3423 |
| **14.9** |  | **Sugar cane harvester, ground speed, slow setting**<br>To identify the control that activates the slow ground speed setting of the cane harvester.<br>To indicate that the cane harvester is in the slow ground speed mode. | ISO 7000-3424 |
| **14.10** |  | **Sugar cane harvester, work lights**<br>To identify the control for the work lights of the cane harvester.<br>To indicate the operational status of the work lights. | ISO 7000-3425 |
| **14.11** |  | **Sugar cane harvester, basecutter**<br>To identify the control for the basecutter of the cane harvester. The basecutter cuts the sugar cane stalk near its base at the ground.<br>To indicate the operational status of the basecutter. | ISO 7000-3215 |
| **14.12** |  | **Sugar cane harvester, basecutter, up and down**<br>To identify the control that moves the basecutter up and down. | ISO 7000-3284 |
| **14.13** |  | **Sugar cane harvester, basecutter, height adjustment**<br>To identify the control that adjusts the height of the basecutter relative to the ground. | ISO 7000-3216 |
| **14.14** |  | **Sugar cane harvester, basecutter, height adjustment, automatic operation**<br>To identify the control that automatically adjusts the height of the basecutter relative to the ground.<br>To indicate that the basecutter height adjustment is in automatic mode. | ISO 7000-3426 |
| **14.15** |  | **Sugar cane harvester, basecutter, target height**<br>To identify the control that sets the target height of the basecutter relative to the ground.<br>To indicate the target height of the basecutter.<br>Can be used as an integrated symbol or the target symbol element can be used separate from but in conjunction with the basecutter symbol. | ISO 7000-3427 |

| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **14.16** |  | **Sugar cane harvester, topper**<br>To identify the control for the topper of the cane harvester. The topper cuts the sugar cane stalk near the top, where the leaves begin.<br>To indicate the operational status of the topper. | ISO 7000-3217 |
| **14.17** |  | **Sugar cane harvester, topper, up and down**<br>To identify the control that moves the topper up and down. | ISO 7000-3156 |
| **14.18** |  | **Sugar cane harvester, topper, height adjustment**<br>To identify the control that adjusts the height of the topper relative to the ground. | ISO 7000-3218 |
| **14.19** |  | **Sugar cane harvester, topper, height adjustment, automatic operation**<br>To identify the control that automatically adjusts the height of the topper relative to the ground.<br>To indicate that the topper height adjustment is in automatic mode. | ISO 7000-3428 |
| **14.20** |  | **Sugar cane harvester, topper, target height**<br>To identify the control that sets the target height of the topper relative to the ground.<br>To indicate the target height of the topper.<br>Can be used as an integrated symbol or the target symbol element can be used separate from but in conjunction with the topper symbol. | ISO 7000-3429 |
| **14.21** |  | **Sugar cane harvester, topper, discharge direction, left**<br>To identify the control that moves the topper discharge direction to the left.<br>This symbol is viewed from the perspective of a person looking at the topper from above the machine. | ISO 7000-3157 |
| **14.22** |  | **Sugar cane harvester, topper, discharge direction, right**<br>To identify the control that moves the topper discharge direction to the right.<br>This symbol is viewed from the perspective of a person looking at the topper from above the machine. | ISO 7000-3158 |

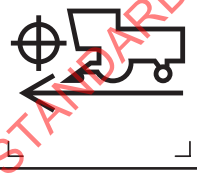
| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **14.23** |  | **Sugar cane harvester, side knife**<br>To identify the control for the rotating side knife of the sugar cane harvester. The side knife cuts cane stalks, leaves or vines in the row being harvested that are tangled with sugar cane in the adjacent row when the crop reaches the height of the side knife.<br>To indicate the operational status of the side knife.<br>If it is necessary to differentiate the left-hand side knife and right-hand side knife, the letter L for left-hand side or the letter R for right-hand side may be added to the symbol in the lower left corner of the symbol area. | ISO 7000-3159 |
| **14.24** |  | **Sugar cane harvester, side knife speed**<br>To identify the control that sets or adjusts the rotational speed of the side knife of the sugar cane harvester.<br>To indicate the rotational speed of the side knife.<br>If it is necessary to differentiate the left-hand side knife and right-hand side knife, the letter L for left-hand side or the letter R for right-hand side may be added to the symbol in the lower left corner of the symbol area. | ISO 7000-3285 |
| **14.25** |  | **Sugar cane harvester, knock down roller adjustment**<br>To identify the control that adjusts the position of the knock-down roller of the sugar cane harvester. The knock-down roller bends the cane stalks so that as they are cut by the basecutter, the stalks can be moved bottom first into the machine. | ISO 7000-3286 |
| **14.26** |  | **Sugar cane harvester, harvesting function**<br>To identify the control for the harvesting function of the sugar cane harvester.<br>To indicate the operational status of the harvesting function. | ISO 7000-3160 |
| **14.27** |  | **Sugar cane harvester, harvesting function, forward direction**<br>To identify the control that places the harvesting function in its forward direction of operation.<br>To indicate that the harvesting function is operating in the forward direction. | ISO 7000-3161 |
| **14.28** |  | **Sugar cane harvester, harvesting function, reverse direction**<br>To identify the control that places the harvesting function in its reverse direction of operation.<br>To indicate that the harvesting function is operating in the reverse direction. | ISO 7000-3162 |

| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **14.29** |  | **Sugar cane harvester, elevator or elevator drive**<br>To identify the control for the elevator or elevator drive of the sugar cane harvester.<br>To indicate the operational status of the elevator or elevator drive. | ISO 7000-3163 |
| **14.30** |  | **Sugar cane harvester, elevator drive, reverse**<br>To identify the control or control position that causes the elevator drive to operate in reverse direction from normal operation. | ISO 7000-3164 |
| **14.31** |  | **Sugar cane harvester, elevator bin flap**<br>To identify the control that changes the position of the elevator bin flap. | ISO 7000-3165 |
| **14.32** |  | **Sugar cane harvester, elevator bin flap, in and out**<br>To identify the control that moves the elevator bin flap in and out. | ISO 7000-3166 |
| **14.33** |  | **Sugar cane harvester, elevator, raise**<br>To identify the control that raises the elevator of the sugar cane harvester.<br>To indicate that the elevator is in moving up or is in the raised (up) position. | ISO 7000-3167 |
| **14.34** |  | **Sugar cane harvester, elevator, lower**<br>To identify the control that lowers the elevator of the sugar cane harvester.<br>To indicate that the elevator is in moving down or is in the lowered (down) position. | ISO 7000-3219 |
| **14.35** |  | **Sugar cane harvester, elevator, swing left**<br>To identify the control that swings the elevator to the left.<br>This symbol is shown from the perspective of a person looking forward along the longitudinal axis of the machine. | ISO 7000-3168 |
| **14.36** |  | **Sugar cane harvester, elevator, swing right**<br>To identify the control that swings the elevator to the right.<br>This symbol is shown from the perspective of a person looking forward along the longitudinal axis of the machine. | ISO 7000-3169 |

| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **14.37** |  | **Sugar cane harvester, hood, rotate clockwise**<br>To identify the control that rotates the hood of the sugar cane harvester in the clockwise direction. | ISO 7000-3170 |
| **14.38** |  | **Sugar cane harvester, hood, rotate anti-clockwise**<br>To identify the control that rotates the hood of the sugar cane harvester in the anti-clockwise direction. | ISO 7000-3171 |
| **14.39** |  | **Sugar cane loader, pusher-piler**<br>To identify the pusher-piler of the sugar cane loader. The pusher-piler allows the machine to push sugar cane into a pile so that it can be grabbed with the grapple. | ISO 7000-3172 |
| **14.40** |  | **Sugar cane loader, pusher-piler, raise**<br>To identify the control that raises the pusher-piler of the sugar cane loader.<br>To indicate that the pusher-piler is being raised or is in the raised position. | ISO 7000-3287 |
| **14.41** |  | **Sugar cane loader, piler, lower**<br>To identify the control that lowers the piler of the sugar cane loader.<br>To indicate that the piler is being lowered or is in the lowered position. | ISO 7000-3288 |
| **14.42** |  | **Sugar cane loading equipment**<br>To identify the loading equipment for the sugar cane loader.<br>Use as a symbol element in the development of related symbols. | ISO 7000-3173 |
| **14.43** |  | **Sugar cane loader, mast, rotate**<br>To identify the control that rotates the mast of the sugar cane loader to the right or left.<br>To indicate that the loader mast is being rotated. | ISO 7000-3289 |
| **14.44** |  | **Sugar cane loader, mast, rotate left**<br>To identify the control that rotates the mast of the sugar cane loader to the left.<br>To indicate that the loader mast is being rotated to the left or is in the left-rotated position. | ISO 7000-3290 |

| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **14.45** |  | **Sugar cane loader, mast, rotate right**<br>To identify the control that rotates the mast of the sugar cane loader to the right.<br>To indicate that the loader mast is being rotated to the right or is in the right-rotated position. | Mirror image of ISO 7000-3290 |
| **14.46** |  | **Sugar cane loader, boom, raise**<br>To identify the control that raises the boom of the sugar cane loader.<br>To indicate that the loader boom is being raised or is in the raised position. | ISO 7000-3174 |
| **14.47** |  | **Sugar cane loader, boom, lower**<br>To identify the control that lowers the boom of the sugar cane loader.<br>To indicate that the loader boom is being lowered or is in the lowered position. | ISO 7000-3291 |
| **14.48** |  | **Sugar cane loader, arm, raise**<br>To identify the control that raises the arm of the sugar cane loader.<br>To indicate that the loader arm is being raised or is in the raised position. | ISO 7000-3292 |
| **14.49** |  | **Sugar cane loader, arm, lower**<br>To identify the control that lowers the arm of the sugar cane loader.<br>To indicate that the loader arm is being lowered or is in the lowered position. | ISO 7000-3293 |

## 15 Windrower symbols

| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| 15.1 |  | **Self-propelled windrower (side view of machine)**<br>To identify the self-propelled windrower from a side (profile) view.<br>Use as a base symbol for developing windrower symbols that use a side (profile) view. | ISO 7000-3220 |
| 15.2 |  | **Self-propelled windrower, forward direction of movement (side view of machine)**<br>To identify the control that moves the self-propelled windrower in the forward direction.<br>To indicate that the windrower is moving forward.<br>The windrower is shown in the side (profile) view. | ISO 7000-3221 |
| 15.3 |  | **Self-propelled windrower, rearward direction of movement (side view of machine)**<br>To identify the control that moves the self-propelled windrower in the rearward direction.<br>To indicate that the windrower is moving rearward.<br>The windrower is shown in the side (profile) view. | ISO 7000-3222 |
| 15.4 |  | **Self-propelled windrower, ground speed**<br>To identify the display that shows the ground speed of the self-propelled windrower.<br>To indicate the ground speed of the self-propelled windrower. | ISO 7000-3294 |
| 15.5 |  | **Self-propelled windrower, ground speed, automatic control**<br>To identify the control that activates the automatic mode for windrower ground speed.<br>To indicate that windrower ground speed is in the automatic control mode. | ISO 7000-3295 |
| 15.6 |  | **Self-propelled windrower, target ground speed**<br>To identity the control that sets the target ground speed for the windrower.<br>To indicate the windrower target ground speed. | ISO 7000-3296 |

## 16 Agricultural sprayer symbols

| No. | Graphical symbol | Symbol title and description | ISO/IEC registration number |
|---|---|---|---|
| **16.1** |  | **Self-propelled sprayer (side view of machine)**<br>To identify the self-propelled sprayer from a side (profile) view.<br>Use as a base symbol for developing sprayer symbols that use a side (profile) view. | ISO 7000-2203 |
| **16.2** |  | **Self-propelled sprayer (overhead view of machine)**<br>To identify the self-propelled sprayer from an overhead (plan) view.<br>This symbol is viewed from the perspective of a person looking at the sprayer from above the machine.<br>Use as a base symbol for developing sprayer symbols that use an overhead (plan) view. | ISO 7000-3223 |
| **16.3** |  | **Self-propelled sprayer, forward direction of movement (side view of machine)**<br>To identify the control that moves the self-propelled sprayer in the forward direction.<br>To indicate that the sprayer is moving forward. | ISO 7000-2204 |
| **16.4** |  | **Self-propelled sprayer, rearward direction of movement (side view of machine)**<br>To identify the control that moves the self-propelled sprayer in the rearward direction.<br>To indicate that the sprayer is moving rearward. | ISO 7000-2205 |
| **16.5** |  | **Self-propelled sprayer, forward direction of movement (overhead view of machine)**<br>To identify the control that moves the self-propelled sprayer in the forward direction.<br>To indicate that the sprayer is moving forward.<br>This symbol is viewed from the perspective of a person looking at the sprayer from above the machine. | ISO 7000-3224 |
| **16.6** |  | **Self-propelled sprayer, rearward direction of movement (overhead view of machine)**<br>To identify the control that moves the self-propelled sprayer in the rearward direction.<br>To indicate that the sprayer is moving rearward.<br>This symbol is viewed from the perspective of a person looking at the sprayer from above the machine. | ISO 7000-3225 |
| **16.7** |  | **Self-propelled sprayer, ground speed**<br>To identify the display that shows the ground speed of the self-propelled sprayer.<br>To indicate the ground speed of the self-propelled sprayer. | ISO 7000-3297 |