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2008-09-15

Corrected version  
2009-03-15

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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 — Symboles pour les commandes de l'opérateur et  
autres indications —*

*Partie 2: Symboles pour tracteurs et machines agricoles*



Reference number  
ISO 3767-2:2008(E)

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 3767-2 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 14, *Operator controls, operator symbols and other displays, operator manuals*.

This third edition cancels and replaces the second edition (ISO 3767-2:1991), which has been technically revised. It also incorporates the Amendments ISO 3767-2:1991/Amd.1:1995, ISO 3767-2:1991/Amd.2:1998 and ISO 3767-2:1991/Amd.3:2000.

ISO 3767 consists of the following parts, under the general title *Tractors, machinery for agriculture and forestry, powered lawn and garden equipment — Symbols for operator controls and other displays*:

- *Part 1: Common symbols*
- *Part 2: Symbols for agricultural tractors and machinery*
- *Part 3: Symbols for powered lawn and garden equipment*
- *Part 4: Symbols for forestry machinery*
- *Part 5: Symbols for manual portable forestry machinery*

This corrected version of ISO 3767-2:2008 incorporates a correction to symbol 7.14.

# 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 part of ISO 3767 establishes symbols for use on operator controls and other displays on tractors and machinery for agriculture as defined in ISO 3339-0.

The symbols given in this part of ISO 3767 are for controls and displays specific to agricultural tractors and machinery such as combine harvesters, cotton harvesters, and forage harvesters.

NOTE Other symbols relating to specific forms of machinery and equipment are given in other parts of ISO 3767.

### 2 Normative references

The following referenced documents are indispensable for the application 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 3339-0, *Tractors and machinery for agriculture and forestry — Classification and terminology — Part 0: Classification system and classification*

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

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

### 3 Terms and definitions

For the purposes of this part of ISO 3767, the terms and definitions given in ISO 3767-1 apply.

### 4 General

**4.1** Symbols shall be as shown in succeeding clauses of this part of ISO 3767. However, selected symbols and selected combined symbols, which are shown in outline form in this part of ISO 3767, may be shaded in actual use for clarity of reproduction and improved visual perception by the operator, except as otherwise noted for individual symbols.

**4.2** Limitations inherent in some reproduction and display technologies can require increased line thickness or other minor modifications of symbols. Such modifications are acceptable provided the symbol remains unchanged in its basic graphical elements, and easily discernible by the operator.

**4.3** Additionally, 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 may be necessary to change the line thickness or to round off the corners of a symbol. The graphic designer is normally free to make such changes, provided that the essential perceptual characteristics of the symbol are maintained. See IEC 80416-3.

**4.4** For actual use, all symbols shall be reproduced large enough to be easily discernible by the operator. See IEC 80416-1 for guidelines on the proper sizing of symbols. Symbols shall be used in the orientations shown in this part of ISO 3767 unless otherwise noted for individual symbols.

**4.5** 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.

**4.6** If a symbol shows a machine or parts of a machine from a side view, a machine moving from right to left in 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 in the symbol area shall be assumed.

**4.7** Symbols on controls and displays shall have good contrast to their background. A light symbol on a dark background is preferred for most controls. Displays may use either a light symbol on a dark background or a dark symbol on a light background, depending upon which alternative provides the best visual perception. When a symbol image is reversed (for example, from black to white and vice versa) it shall be done for the entire symbol.

**4.8** 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 toward the symbol shall effect the function depicted by that symbol.

**4.9** Arrows used in symbols shall conform to the requirements of ISO 80416-2. IEC 80416-1 should be consulted for general principles on the creation of symbols.

**4.10** ISO/IEC registration numbers are shown for symbols in all parts of this International Standard. Registration numbers below 5000 refer to ISO 7000. Registration numbers above 5000 refer to IEC 60417.

**4.11** Letters and numerals may be used as symbols, but are not registered by ISO/TC 145/SC 3 or published in ISO 7000. In certain clauses, letters and numerals have the meaning indicated when used in association with gear transmission controls and displays on agricultural tractors and machinery. The fonts shown in this International Standard are not intended to be restrictive: other fonts may be substituted, but care shall be taken that legibility is maintained.

**4.12** Symbols shown in this part of ISO 3767 are presented at 32 % of original size. The corner marks denote the corners of the 75 mm square of the basic pattern. The corner marks are not part of the symbol but are provided to ensure consistent presentation of all symbol graphics within the outer limits of a 24 mm square grid (32 % of original ISO graphics grid size).

## 5 Colour

**5.1** When used to indicate operating status or condition, the following colours have meaning as follows:

- red: failure or serious malfunction; requires immediate attention;
- yellow or amber: outside normal operating limits;
- green: normal operating condition.

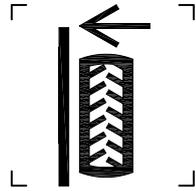
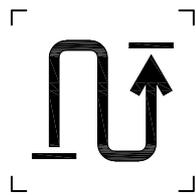
**5.2** In addition, certain colours are used for specific functions:

- blue: headlight main/high beam display;
- red: hazard warning display;
- green: turn signal display.

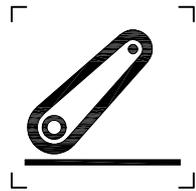
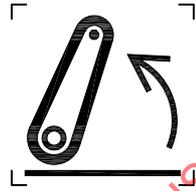
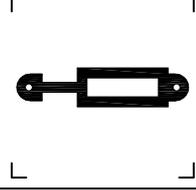
**5.3** If colour is used on symbols for heating and/or cooling systems, the colour red shall be used to indicate hot, and the colour blue shall be used to indicate cold.

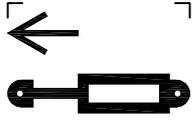
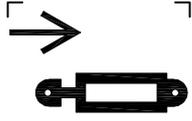
## 6 General symbols

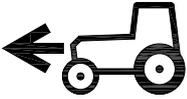
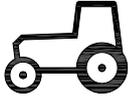
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
6.1		Lock	ISO 7000-1656
6.2		Area worked	ISO 7000-1657
6.3		Area worked per hour	ISO 7000-1658
6.4		Service indicator; read technical manual	ISO 7000-1659
6.5		Wheel adjustment, left wheel, move outward	ISO 7000-2129
6.6		Wheel adjustment, left wheel, move inward	ISO 7000-2130
6.7		Wheel adjustment, right wheel, move outward	ISO 7000-2131

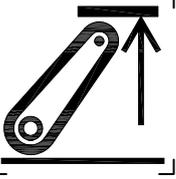
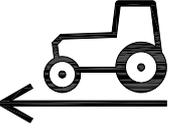
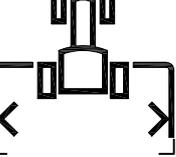
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
6.8		<b>Wheel adjustment, right wheel, move inward</b>	ISO 7000-2132
6.9		<b>Work distance travelled</b> This symbol represents the distance travelled by a machine during field operations. In conjunction with header or implement width, this information may be used to calculate the area worked or the area worked per hour.	ISO 7000-2177

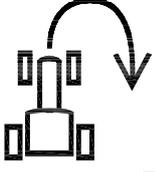
## 7 Agricultural tractor symbols

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
7.1		<b>Rockshaft</b>	ISO 7000-1566
7.2		<b>Rockshaft, up (raise)</b>	ISO 7000-1567
7.3		<b>Rockshaft, down (lower)</b>	ISO 7000-1568
7.4		<b>Rockshaft, float</b>	ISO 7000-1660
7.5		<b>Remote cylinder</b>	ISO 7000-1569

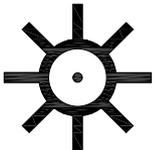
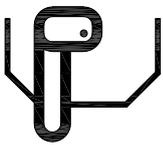
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
7.6		Remote cylinder, extend	ISO 7000-1570
7.7		Remote cylinder, retract	ISO 7000-1571
7.8		Remote cylinder, float	ISO 7000-1661
7.9		<b>Differential lock</b> May be used with On (IEC 60417-5007) and Off (IEC 60417-5008), or On/Off (IEC 60417-5010), or Engage (ISO 7000-0022) and Disengage (ISO 7000-0023) symbols.	ISO 7000-1662
7.10		<b>Tractor, front wheel drive</b> May be used with On (IEC 60417-5007) and Off (IEC 60417-5008), or On/Off (IEC 60417-5010), or Engage (ISO 7000-0022) and Disengage (ISO 7000-0023) symbols.	ISO 7000-1663
7.11		<b>PTO (Power take-off)</b> May be used with On (IEC 60417-5007) and Off (IEC 60417-5008), or On/Off (IEC 60417-5010), or Engage (ISO 7000-0022) and Disengage (ISO 7000-0023) symbols.	ISO 7000-1572
7.12		<b>PTO (Power take-off), rotational speed</b> May be used with On (IEC 60417-5007) and Off (IEC 60417-5008), or On/Off (IEC 60417-5010), or Engage (ISO 7000-0022) and Disengage (ISO 7000-0023) symbols.	ISO 7000-1664
7.13		Tractor, wheel slip	ISO 7000-1665

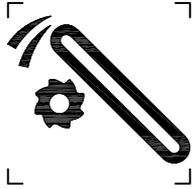
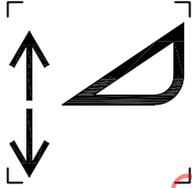
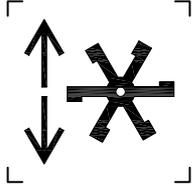
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
7.14		Tractor, direction of movement, forward (side view of machine)	ISO 7000-1666
7.15		Tractor, direction of movement, rearward (side view of machine)	ISO 7000-1667
7.16		Turn signal, tractor and first trailer	ISO 7000-1419
7.17		Turn signal, tractor and second trailer	ISO 7000-1420
7.18		Tractor (side view of machine)	ISO 7000-2133
7.19		Tractor (overhead view of machine)	ISO 7000-2134
7.20		Tractor, direction of movement, forward (overhead view of machine)	ISO 7000-2135
7.21		Tractor, direction of movement, rearward (overhead view of machine)	ISO 7000-2136

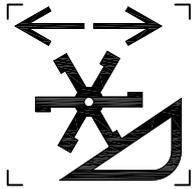
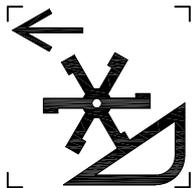
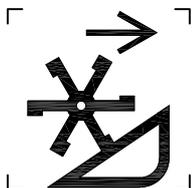
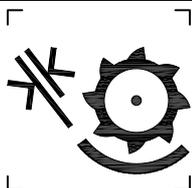
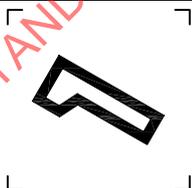
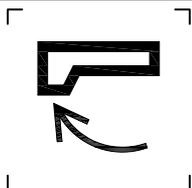
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
7.22		Tractor, auxiliary headlights	ISO 7000-2137
7.23		<b>Rockshaft, upper limit</b> This symbol is used for the control that sets the maximum height to which an implement can be raised by the rockshaft.	ISO 7000-2178
7.24		Tractor, ground speed	ISO 7000-2179
7.25		Tractor with front PTO (side view of machine)	ISO 7000-2180
7.26		Tractor with rear PTO (side view of machine)	ISO 7000-2181
7.27		Tractor with front PTO (overhead view of machine)	ISO 7000-2182
7.28		Tractor with rear PTO (overhead view of machine)	ISO 7000-2183
7.29		Tractor with towed implement, implement width	ISO 7000-2184

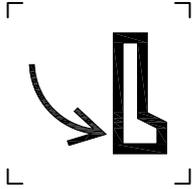
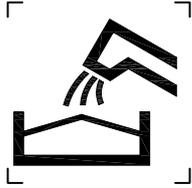
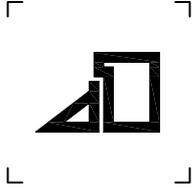
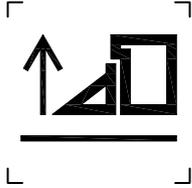
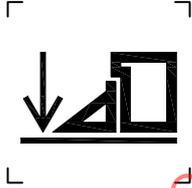
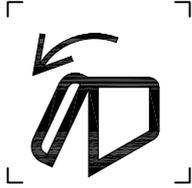
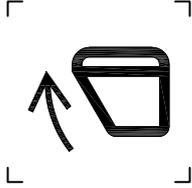
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
7.30		<b>Tractor, front wheel drive, automatic operation</b> Front wheel drive is engaged or disengaged automatically depending on tractor operating conditions such as travel speed, wheel slip, and brake pedal position.	ISO 7000-2420
7.31		<b>Tractor, front wheel drive, braking</b> Front wheel drive is engaged when brakes are applied at travel speeds above a specified limit. Otherwise, front wheel drive is disengaged when control is in this position.	ISO 7000-2421
7.32		<b>Tractor, headland turning</b> To identify the control for a programmed sequence of tractor operations taken at the end of a field (headland), or to indicate the operational status of the headland turning sequence.	ISO 7000-2800

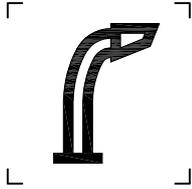
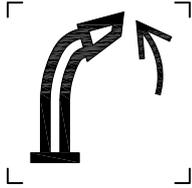
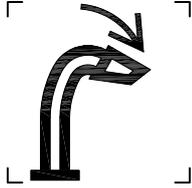
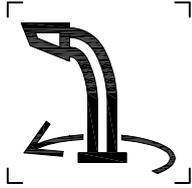
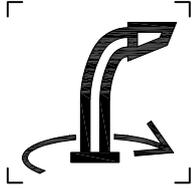
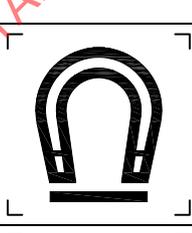
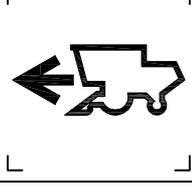
## 8 Harvesting machinery and equipment symbols

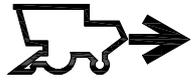
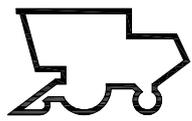
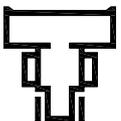
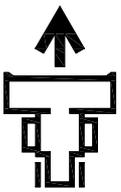
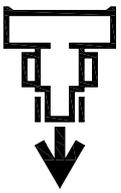
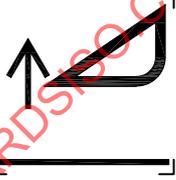
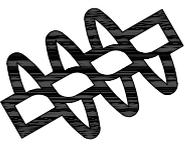
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
8.1		<b>Chopper</b> May be used for any chopper; symbol is not restricted to harvesting machinery.	ISO 7000-1573
8.2		<b>Threshing cylinder</b> May be used with Continuously variable (ISO 7000-1364 or IEC 60417-5004) or Increase (IEC 60417-5005) and Decrease (IEC 60417-5006) symbols.	ISO 7000-1574
8.3		<b>Straw walker</b>	ISO 7000-1575
8.4		<b>Combine, grain elevator; grain auger</b>	ISO 7000-1576

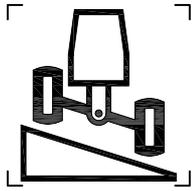
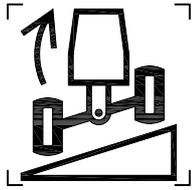
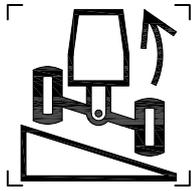
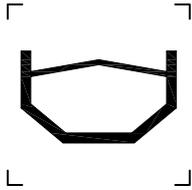
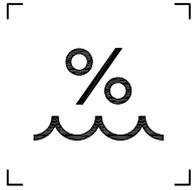
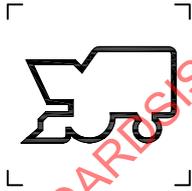
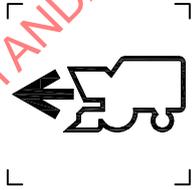
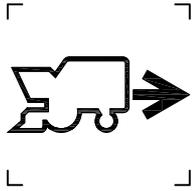
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
8.5		<b>Combine, tailings elevator; tailings auger</b>	ISO 7000-1577
8.6		<b>Combine, separator drive</b> May be used with On (IEC 60417-5007) and Off (IEC 60417-5008), or On/Off (IEC 60417-5010), or Engage (ISO 7000-0022) and Disengage (ISO 7000-0023) symbols.	ISO 7000-1578
8.7		<b>Header; header drive</b> May be used with On (IEC 60417-5007) and Off (IEC 60417-5008), or On/Off (IEC 60417-5010), or Engage (ISO 7000-0022) and Disengage (ISO 7000-0023) symbols.	ISO 7000-1579
8.8		<b>Header drive, reverse</b> May be used with On (IEC 60417-5007) and Off (IEC 60417-5008), or On/Off (IEC 60417-5010), or Engage (ISO 7000-0022) and Disengage (ISO 7000-0023) symbols.	ISO 7000-1580
8.9		<b>Header height</b> May be used with Continuously variable (ISO 7000-1364 or IEC 60417-5004) or Increase (IEC 60417-5005) and Decrease (IEC 60417-5006) symbols.	ISO 7000-1581
8.10		<b>Header position, float</b>	ISO 7000-1668
8.11		<b>Reel; reel drive</b> May be used with On (IEC 60417-5007) and Off (IEC 60417-5008), or On/Off (IEC 60417-5010), or Engage (ISO 7000-0022) and Disengage (ISO 7000-0023) symbols.	ISO 7000-1582
8.12		<b>Reel height</b> May be used with Continuously variable (ISO 7000-1364 or IEC 60417-5004) or Increase (IEC 60417-5005) and Decrease (IEC 60417-5006) symbols.	ISO 7000-1583

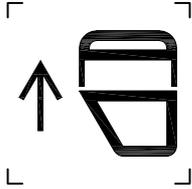
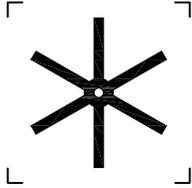
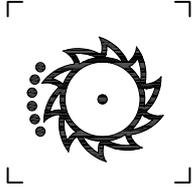
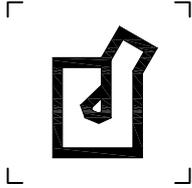
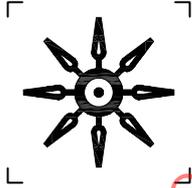
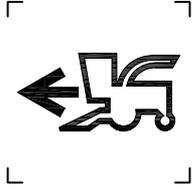
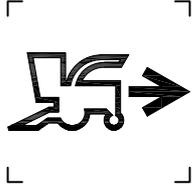
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
8.13		Reel distance	ISO 7000-1584
8.14		Reel, move forward	ISO 7000-1669
8.15		Reel, move rearward	ISO 7000-1670
8.16		<b>Reel speed</b> May be used with Continuously variable (ISO 7000-1364 or IEC 60417-5004) or Increase (IEC 60417-5005) and Decrease (IEC 60417-5006) symbols.	ISO 7000-1671
8.17		<b>Concave adjustment</b> May be used with Continuously variable (ISO 7000-1364 or IEC 60417-5004) or Increase (IEC 60417-5005) and Decrease (IEC 60417-5006) symbols.	ISO 7000-1585
8.18		<b>Sieve adjustment</b> May be used with Continuously variable (ISO 7000-1364 or IEC 60417-5004) or Increase (IEC 60417-5005) and Decrease (IEC 60417-5006) symbols.	ISO 7000-1586
8.19		Unloader	ISO 7000-1672
8.20		Unloader, swing out	ISO 7000-1587

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
8.21		Unloader, swing in	ISO 7000-1588
8.22		Unloader drive, discharge	ISO 7000-1589
8.23		Cotton picking unit	ISO 7000-1590
8.24		Cotton picking unit, up (raise)	ISO 7000-1591
8.25		Cotton picking unit, down (lower)	ISO 7000-1592
8.26		Basket	ISO 7000-1593
8.27		Basket, dump	ISO 7000-1673
8.28		Basket, return/carry	ISO 7000-1674

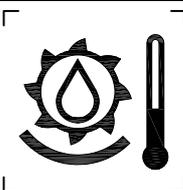
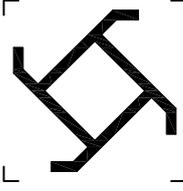
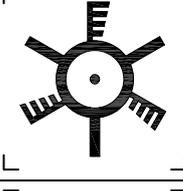
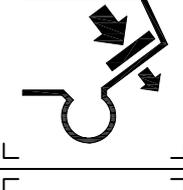
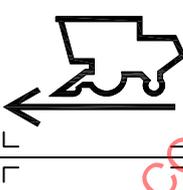
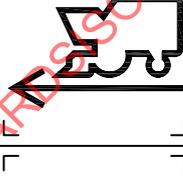
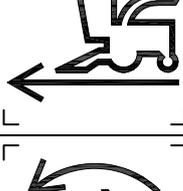
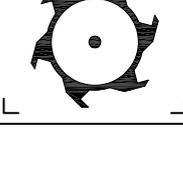
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
8.29		Spout	ISO 7000-1594
8.30		Spout deflector, up	ISO 7000-1595
8.31		Spout deflector, down	ISO 7000-1596
8.32		Spout rotation, left	ISO 7000-1675
8.33		Spout rotation, right	ISO 7000-1676
8.34		<b>Cleaning fan</b> May be used with On (IEC 60417-5007) and Off (IEC 60417-5008), or On/Off (IEC 60417-5010), or Engage (ISO 7000-0022) and Disengage (ISO 7000-0023), or Continuously variable (ISO 7000-1364 or IEC 60417-5004), or Increase (IEC 60417-5005) and Decrease (IEC 60417-5006) symbols.	ISO 7000-1597
8.35		Magnetic metal detector	ISO 7000-1677
8.36		Combine, direction of movement, forward (side view of machine)	ISO 7000-1678

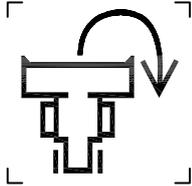
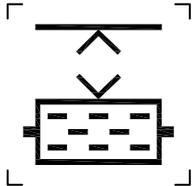
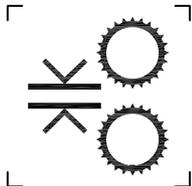
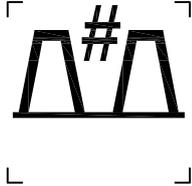
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
8.37		Combine, direction of movement, rearward (side view of machine)	ISO 7000-1679
8.38		Combine (side view of machine)	ISO 7000-2138
8.39		Combine (overhead view of machine)	ISO 7000-2139
8.40		Combine, direction of movement, forward (overhead view of machine)	ISO 7000-2140
8.41		Combine, direction of movement, rearward (overhead view of machine)	ISO 7000-2141
8.42		Header height, raise	ISO 7000-2142
8.43		Header height, lower	ISO 7000-2143
8.44		Auger conveyor	ISO 7000-2144

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
8.45		Sidehill machine	ISO 7000-2145
8.46		Sidehill machine, level left side	ISO 7000-2146
8.47		Sidehill machine, level right side	ISO 7000-2147
8.48		Grain tank	ISO 7000-2148
8.49		Crop moisture content	ISO 7000-0505
8.50		Cotton harvester (side view of machine)	ISO 7000-2149
8.51		Cotton harvester, direction of movement, forward (side view of machine)	ISO 7000-2150
8.52		Cotton harvester, direction of movement, rearward (side view of machine)	ISO 7000-2151

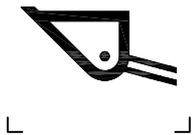
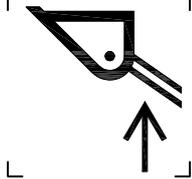
Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
8.53		Basket, extend	ISO 7000-2152
8.54		Cleaner feed	ISO 7000-2153
8.55		Cleaner saw	ISO 7000-2154
8.56		Cotton chamber (door)	ISO 7000-2155
8.57		Spindle drum	ISO 7000-2156
8.58		Self-propelled forage harvester (side view of machine)	ISO 7000-2157
8.59		Self-propelled forage harvester, direction of movement, forward (side view of machine)	ISO 7000-2158
8.60		Self-propelled forage harvester, direction of movement, rearward (side view of machine)	ISO 7000-2159

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
8.61		Cutterhead	ISO 7000-2160
8.62		Header, lateral tilt	ISO 7000-2185
8.63		Header, lateral tilt, left	ISO 7000-2186
8.64		Header, lateral tilt, right	ISO 7000-2187
8.65		Combine, powered rear wheels	ISO 7000-2188
8.66		Separator drive oil	ISO 7000-2189
8.67		Separator drive oil pressure	ISO 7000-2190
8.68		Separator drive oil filter	ISO 7000-2191

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
8.69		Separator drive oil temperature	ISO 7000-2192
8.70		Combine, beater	ISO 7000-2193
8.71		Cotton harvester, brush rolls	ISO 7000-2194
8.72		Combine, restricted crop flow	ISO 7000-2195
8.73		Combine, ground speed	ISO 7000-2196
8.74		Cotton harvester, ground speed	ISO 7000-2197
8.75		Self-propelled forage harvester, ground speed	ISO 7000-2198
8.76		Forage harvester, cutterhead speed	ISO 7000-2199

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
8.77		<b>Combine harvester, headland turning</b> To identify the control for a programmed sequence of combine harvester operations taken at the end of a field (headland), or to indicate the operational status of the headland turning sequence.	ISO 7000-2801
8.78		<b>Forage harvester, shear bar-to-cutterhead distance</b> To identify the control for adjusting the distance between the shear bar and the cutterhead on a forage harvester, or to indicate the specified or actual shear bar-to-cutterhead distance during operation.	ISO 7000-2802
8.79		<b>Grain processor, roll distance</b> To identify the control for adjusting the distance between the rolls of a grain processing machine (for example, a kernel processor), or to indicate the specified or actual roll distance during operation.	ISO 7000-2803
8.80		<b>Harvesting equipment, header row number or number of rows</b> To identify the control for selecting a particular header row or for selecting the number of rows on a header, or to indicate the number of rows on a header or the operational status of a particular header row.  The symbol element # may be replaced by the number of rows or by the individual row number.	ISO 7000-2804

## 9 Loader bucket symbols

Symbol number	Symbol form/shape	Symbol description/application	ISO/IEC registration number
9.1		<b>Loader bucket</b>	ISO 7000-1437
9.2		<b>Loader bucket, raise</b>	ISO 7000-1438