INTERNATIONAL STANDARD

**ISO 3287**

Second edition
1999-12-01

# Powered industrial trucks — Symbols for operator controls and other displays

*Chariots de manutention automoteurs — Symbols pour les organes de commandes de l'opérateur et autres dispositifs indicateurs*



Reference number
ISO 3287:1999(E)

## Contents







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Printed in Switzerland

## 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 3.

International Standard ISO 3287 was prepared by Technical Committee ISO/TC 110, *Industrial trucks*, Subcommittee SC 2, *Safety of powered industrial trucks*.

This second edition cancels and replaces the first edition (ISO 3287:1978), which has been technically revised.

Annexes A and B of this International Standard are for information only.

# Powered industrial trucks — Symbols for operator controls and other displays

## 1 Scope

This International Standard establishes symbols for use on operator controls and other displays on powered industrial trucks.

## 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 3461-1:1988, *General principles for the creation of graphical symbols — Part 1: Graphical symbols for use on equipment*.

ISO 4196, *Graphical symbols — Use of arrows*.

## 3 Term and definition

For the purposes of this International Standard, the following term and definition apply.

**3.1**
**symbol**
visually perceptible figure used to transmit information independently of language

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

## 4 General

**4.1** Symbols shall be as shown in succeeding clauses of this International Standard. However, symbols which are shown in outline form may, in actual use, be filled for enhanced 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 may 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 the symbol is applied, it may be necessary to change the line thickness or round 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 ISO 3461-1:1988, subclause 10.2.

**4.4** For actual use, all symbols shall be reproduced large enough to be easily discernible by the operator. See ISO 3461-1 for guidelines on the proper sizing of symbols. Symbols shall be used in the orientation shown in this International Standard 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 new symbols.

**4.6** 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 grid 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 grid 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-on-white to white-on-black 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 4196. ISO 3461-1 shall be consulted for the general principles of creating symbols.

**4.10** ISO/IEC registration numbers are shown for symbols in this International Standard. Registration numbers below 5000 refer to ISO 7000. Registration numbers above 5000 refer to IEC 417.

**4.11** Letters and numerals may be used as symbols, but are not registered by ISO/TC 145 or published in ISO 7000. The fonts shown in this International Standard are not intended to be restrictive: other fonts may be substituted, but care shall be taken to ensure that legibility is maintained.

**4.12** Symbols in this International Standard are presented within the outer limits of a 24 mm square grid (32 % of original size on the ISO graphics grid). Grid marks "⌞" delimit the corners of the 75 mm square graphics grid from ISO 3461-1. Corner marks are not part of the symbol, but are provided to ensure consistent presentation of all symbol graphics.

## 5 Colour

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

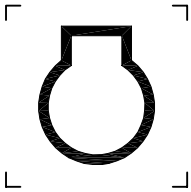
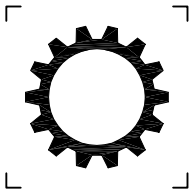
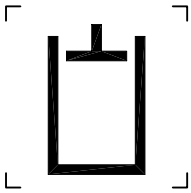
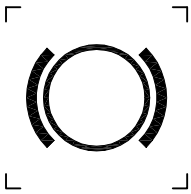
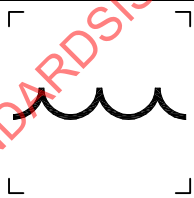
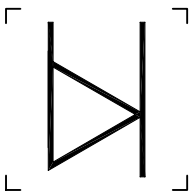
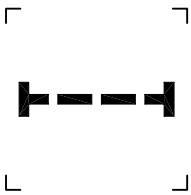
- **red:** failure, serious malfunction, or dangerous operating condition that requires immediate attention;
- **yellow** or **amber:** outside normal operating limits or approaching a dangerous operating condition;
- **green:** normal operating conditions.

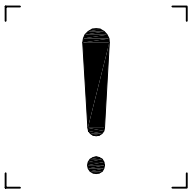
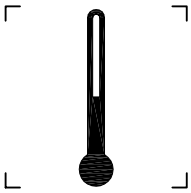
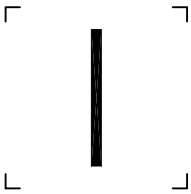
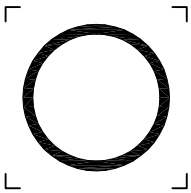
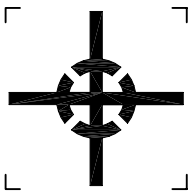
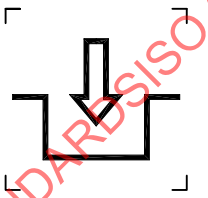
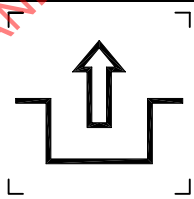
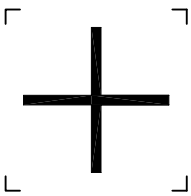
**5.2** In addition, certain colours are used for specific functions:

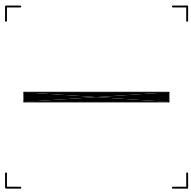
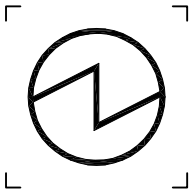
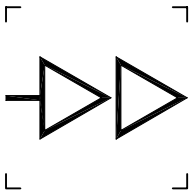
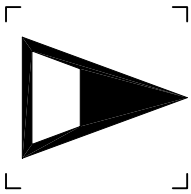
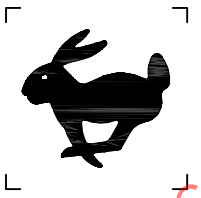
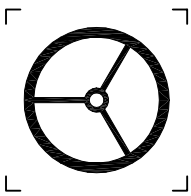
- **blue:** headlight main/high beam display;
- **red:** hazard warning display;
- **green:** turn signal display.

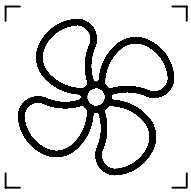
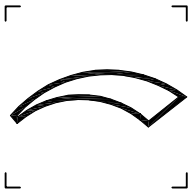
**5.3** If colour is used on symbols for heating and/or cooling systems, the colour **red** shall be used to indicate hot and the colour **blue** shall be used to indicate cold.

## 6 Basic symbols

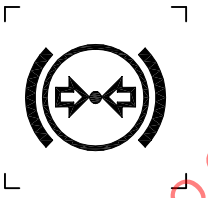
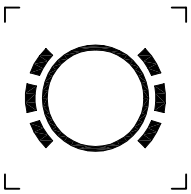
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **6.1** |  | Engine (RIC engine) | 1156 |
| **6.2** |  | Transmission | 1166 |
| **6.3** |  | Hydraulic system | 1409 |
| **6.4** |  | Brake system | 1399 |
| **6.5** |  | Oil | 1056 |
| **6.6** |  | Water | 0536 |
| **6.7** |  | Level indicator | Application of 0159 |
| **6.8** |  | Filter | 1369 |

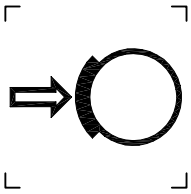
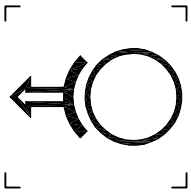
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **6.9** |  | Failure/malfunction | 1603 |
| **6.10** |  | Temperature | 0034 |
| **6.11** |  | On | 5007 |
| **6.12** |  | Off | 5008 |
| **6.13** |  | Centre of gravity | 0627 |
| **6.14** |  | Engage | 0022 |
| **6.15** |  | Disengage | 0023 |
| **6.16** |  | Increase/positive polarity | 5005 |

| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **6.17** |  | Decrease/negative polarity | 5006 |
| **6.18** |  | Electric energy | 0232 |
| **6.19** |  | Fast run | 5108 |
| **6.20** |  | Slow run | 5124 |
| **6.21** |  | Fast | Application Example |
| **6.22** |  | Slow | Application Example |
| **6.23** |  | Lock | 1656 |
| **6.24** |  | Steering | 0326 |

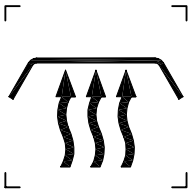
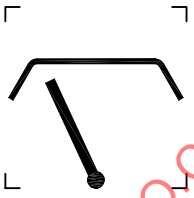
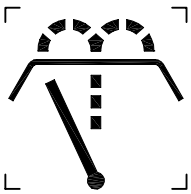
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **6.25** |  | Ventilating/air circulating fan | 0089 |
| **6.26** |  | Progressively variable — Rotation | 1364 |

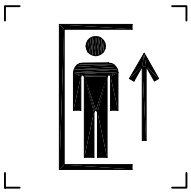
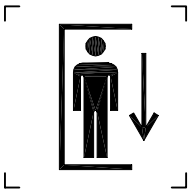
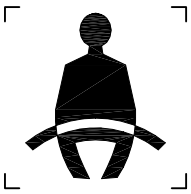
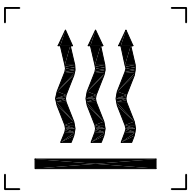
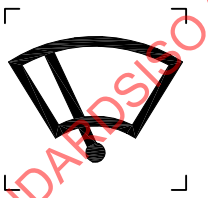
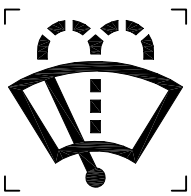
## 7 Brake system symbols

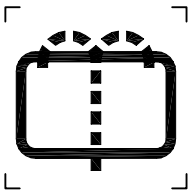
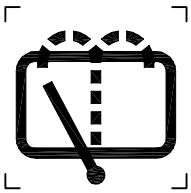
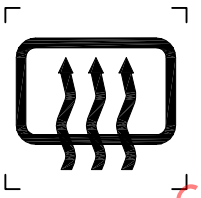
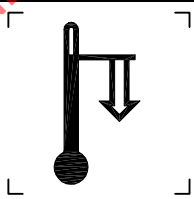
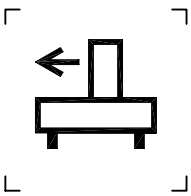
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **7.1** |  | Brake fluid | 1400 |
| **7.2** |  | Brake system — Pressure | 1402 |
| **7.3** |  | Brake system — Failure/malfunction | 0239 |
| **7.4** |  | Parking brake | 0238 |
| **7.5** |  | Worn brake linings | 1408 |

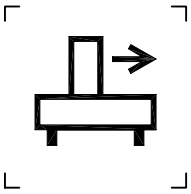
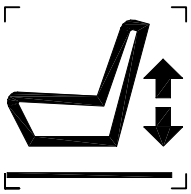
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| 7.6 |  | Brake — On | 0020 |
| 7.7 |  | Brake — Off | 0021 |

## 8 Cab symbols

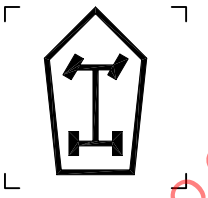
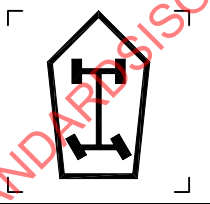
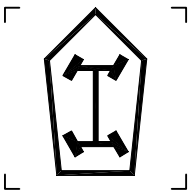
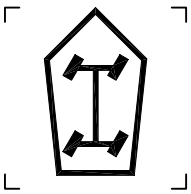
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| 8.1 |  | Cab roof — Demister/defroster | 2385 |
| 8.2 |  | Cab roof — Wiper | 2387 |
| 8.3 |  | Cab roof — Washer | 2386 |
| 8.4 |  | Cab roof — Washer and wiper | 2388 |
| 8.5 |  | Cooling/air conditioning | 0027 |

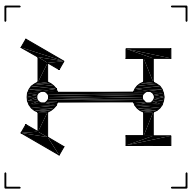
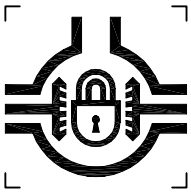
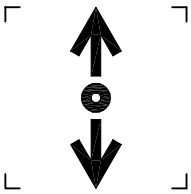
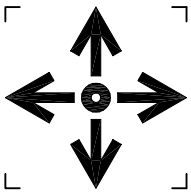
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| 8.6 |  | Elevating operator position — Raise | 2340 |
| 8.7 |  | Elevating operator position — Lower | 2339 |
| 8.8 |  | Seatbelt — Lap and shoulder belt | 0249 |
| 8.9 |  | Seatbelt — Lap belt only | 1702 |
| 8.10 |  | Interior heating | 0637 |
| 8.11 |  | Windscreen/windshield wiper | 0086 |
| 8.12 |  | Windscreen/windshield washer | 0088 |
| 8.13 |  | Windscreen/windshield washer and wiper | 0087 |

| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **8.14** |  | Windscreen/windshield demister/defroster | 0635 |
| **8.15** |  | Rear window wiper | 0097 |
| **8.16** |  | Rear window washer | 0099 |
| **8.17** |  | Rear window washer and wiper | 0098 |
| **8.18** |  | Rear window demister/defroster | 0636 |
| **8.19** |  | Temperature — Increasing | 0035 |
| **8.20** |  | Temperature — Decreasing | 0036 |
| **8.21** |  | Sideloader cab — Traverse left | 2382 |

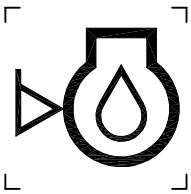
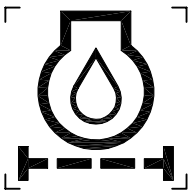
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **8.22** |  | Sideloader cab — Traverse right | 2383 |
| **8.23** |  | Seat adjustment — Longitudinal | 1428 |
| **8.24** |  | Seat height adjustment | 1430 |

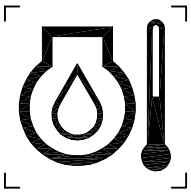
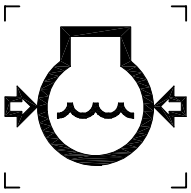
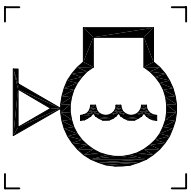
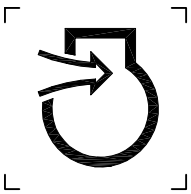
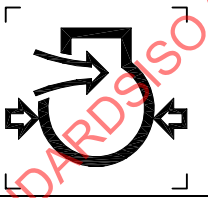
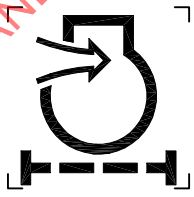
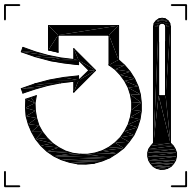
## 9 Driving controls symbols

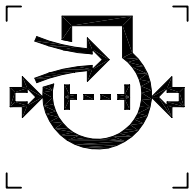
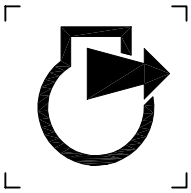
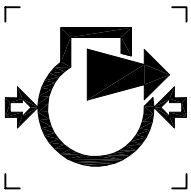
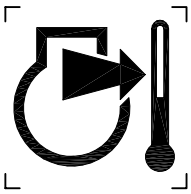
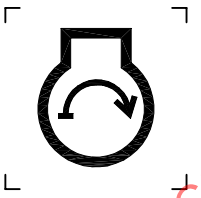
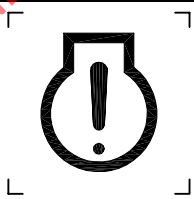
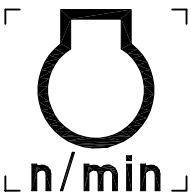
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **9.1** |  | 2-wheel steering — Front (Powered industrial trucks) | 2391 |
| **9.2** |  | 2-wheel steering — Rear (Powered industrial trucks) | 2392 |
| **9.3** |  | All-(4)-wheel steering (Powered industrial trucks) | 2393 |
| **9.4** |  | Crab steering (Powered industrial trucks) | 2394 |

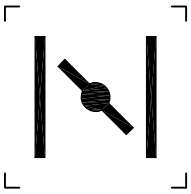
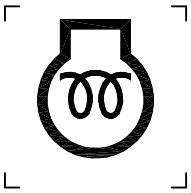
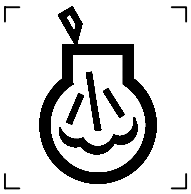
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **9.5** |  | Axle connect — All wheel drive<br>[Add symbols for "on" and "off" or "engage" and "disengage" as needed.] | 1203 |
| **9.6** |  | Differential lock<br>[Add symbols for "on" and "off" as needed.] | 1662 |
| **9.7** |  | Operating direction — Forward/reverse | 1436 |
| **9.8** |  | Operating direction — Multiple direction | 1703 |

## 10 Engine symbols

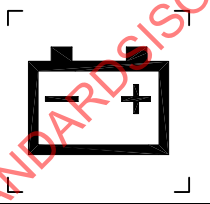
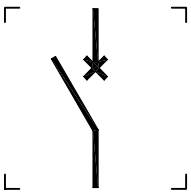
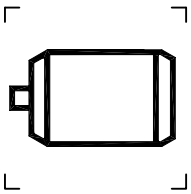
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **10.1** |  | Engine lubricating oil — Pressure | 1374 |
| **10.2** |  | Engine lubricating oil — Level | 1373 |
| **10.3** |  | Engine lubricating oil — Filter | 1376 |

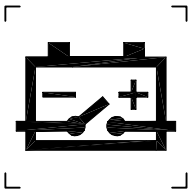
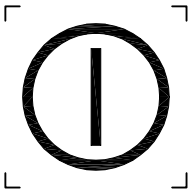
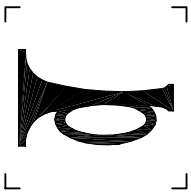
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **10.4** |  | Engine lubricating oil — Temperature | 1375 |
| **10.5** |  | Engine coolant — Pressure | 1379 |
| **10.6** |  | Engine coolant — Level | 1378 |
| **10.7** |  | Engine coolant — Temperature | 1380 |
| **10.8** |  | Engine combustion air | 1381 |
| **10.9** |  | Engine combustion air — Pressure | 1382 |
| **10.10** |  | Engine combustion air — Filter | 1170 |
| **10.11** |  | Engine combustion air — Temperature | 1383 |

| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **10.12** |  | Engine air filter — Pressure | 2395 |
| **10.13** |  | Engine exhaust gas | 1384 |
| **10.14** |  | Engine exhaust gas — Pressure | 1385 |
| **10.15** |  | Engine exhaust gas — Temperature | 1386 |
| **10.16** |  | Engine — Start | 1387 |
| **10.17** |   | Engine — Stop | 1388 |
| **10.18** |  | Engine — Failure/malfunction | 1371 |
| **10.19** |   | Engine — Rotational speed/frequency | 1389 |

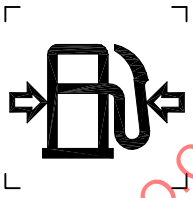
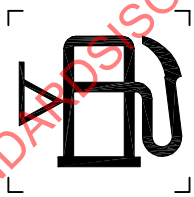
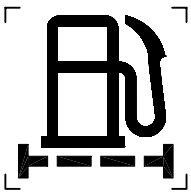
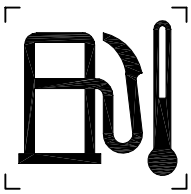
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **10.20** |  | Choke (cold starting aid) | 0243 |
| **10.21** |  | Electrical preheat (low temperature start aid) | 1704 |
| **10.22** |  | Gas injection (low temperature start aid) | 1547 |
| **10.23** |  | Engine — Water jacket heater | 2384 |

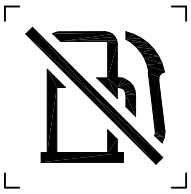
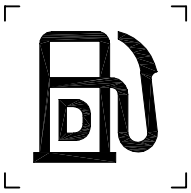
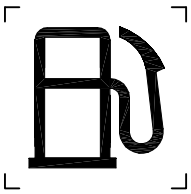
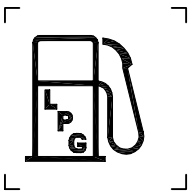
## 11 Electrical system symbols

| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **11.1** |  | Battery charging condition | 0247 |
| **11.2** |  | Circuit breaker | 2400 |
| **11.3** |  | Electric motor | 0011 |

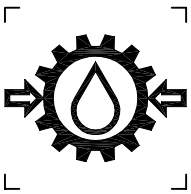
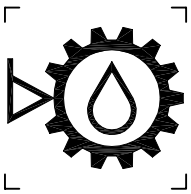
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **11.4** |  | Battery power — Disconnect | 2063 |
| **11.5** |  | On/off | 5010 |
| **11.6** |  | Horn | 0244 |

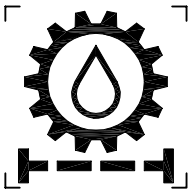
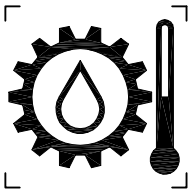
## 12 Fuel symbols

| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **12.1** |  | Fuel — Pressure | 1392 |
| **12.2** |  | Fuel — Level | 1551 |
| **12.3** |  | Fuel — Filter | 1393 |
| **12.4** |  | Fuel — Temperature | 1394 |

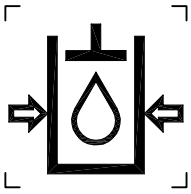
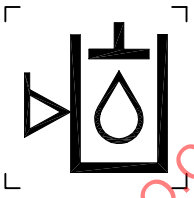
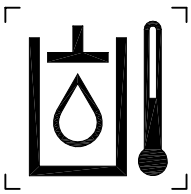
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **12.5** |  | Fuel shut-off<br>[Not to be used as engine stop symbol.] | 1395 |
| **12.6** |  | Diesel (compression-ignition) fuel | 1541 |
| **12.7** |  | Gasoline (petrol) fuel | 0245 |
| **12.8** |  | Unleaded fuel only | 0237 |
| **12.9** |  | LPG fuel | 2489 |

## 13 Transmission symbols

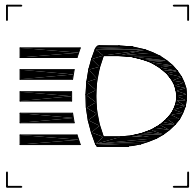
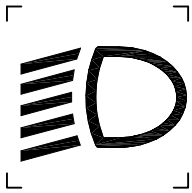
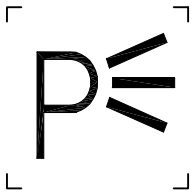
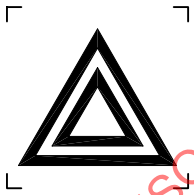
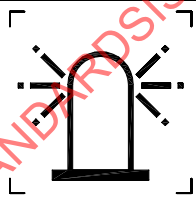
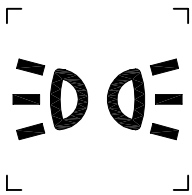
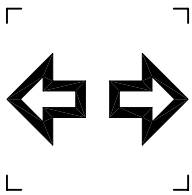
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **13.1** |  | Transmission oil — Pressure | 1167 |
| **13.2** |  | Transmission oil — Level | 1398 |

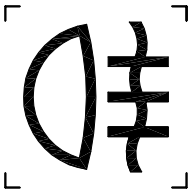
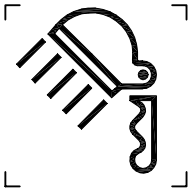
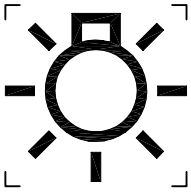
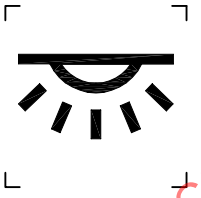
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| 13.3 |  | Transmission oil — Filter | 1169 |
| 13.4 |  | Transmission oil — Temperature | 1168 |

## 14 Hydraulic system symbols

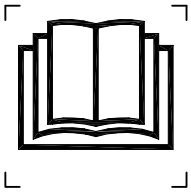
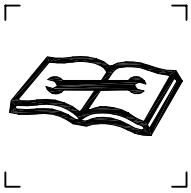
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| 14.1 |  | Hydraulic oil — Pressure | 1413 |
| 14.2 |  | Hydraulic oil — Level | 1412 |
| 14.3 |  | Hydraulic oil — Filter | 1415 |
| 14.4 |  | Hydraulic oil — Temperature | 1414 |

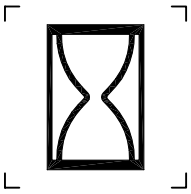
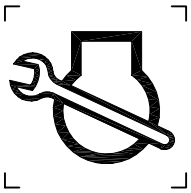
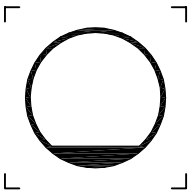
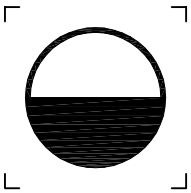
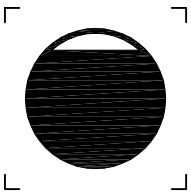
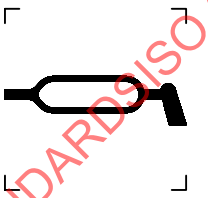
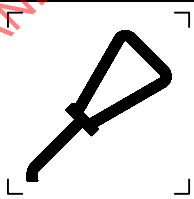
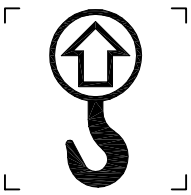
## 15 Lighting symbols

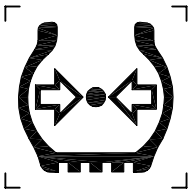
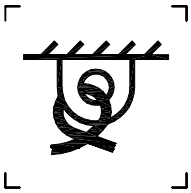
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **15.1** |  | Headlights — Main/high beam | 0082 |
| **15.2** |  | Headlights — Dipped/low beam | 0083 |
| **15.3** |  | Work light | 1204 |
| **15.4** |  | Parking lights | 0240 |
| **15.5** |  | Hazard warning lights | 0085 |
| **15.6** |  | Beacon/identifying light (rotating patrol light) | 1141 |
| **15.7** |  | Clearance/position lights | 0456 |
| **15.8** |  | Turn signals | 0084 |

| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **15.9** |  | Front fog lights<br>[If one control is used for both front and rear fog lights, the symbol designated front fog lights shall be used.] | 0633 |
| **15.10** |  | Rear fog lights<br>[If one control is used for both front and rear fog lights, the symbol designated front fog lights shall be used.] | 0634 |
| **15.11** |  | Spotlight | 1700 |
| **15.12** |  | Master lighting switch | 5012 |
| **15.13** |  | Interior lighting | 1421 |

## 16 Maintenance symbols

| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **16.1** |  | Consult instruction book | 0790 |
| **16.2** |  | Read maintenance manual | 1659 |

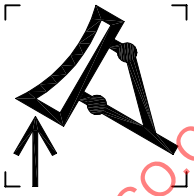
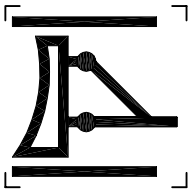
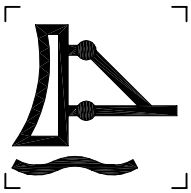
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **16.3** |  | Hourmeter/elapsed operating hours | 1366 |
| **16.4** |  | Service engine soon | 2399 |
| **16.5** |  | Volume — Empty | 1563 |
| **16.6** |  | Volume — Half-full | 1564 |
| **16.7** |  | Volume — Full | 1565 |
| **16.8** |  | Grease lubrication point | 0787 |
| **16.9** |  | Oil lubrication point | 0391 |
| **16.10** |  | Lift point | 1368 |

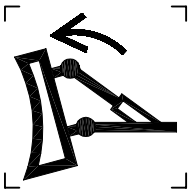
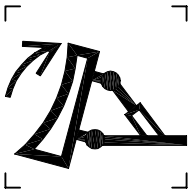
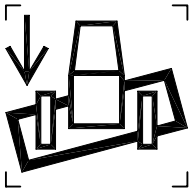
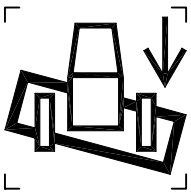
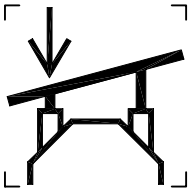
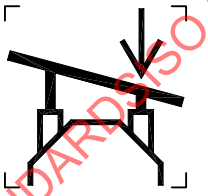
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **16.11** |  | Tyre — Pressure | 1435 |
| **16.12** |  | Tie down point | 2069 |

## 17 Load-handling control symbols

### 17.1 Blade symbols

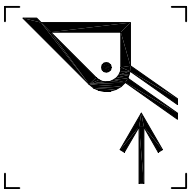
NOTE In symbols 17.1.7 and 17.1.8, the blade is viewed from the perspective of a person looking forward along the axis of the machine. In symbols 17.1.9 and 17.1.10, the blade is viewed from the perspective of a person looking at the blade from above the machine.

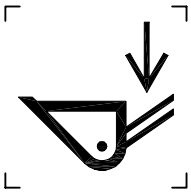
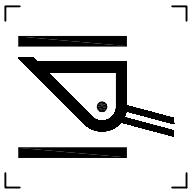
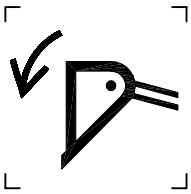
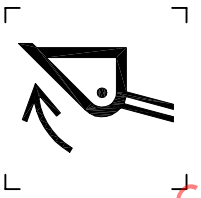
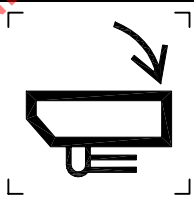
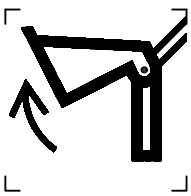
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **17.1.1** |  | Blade — Raise | 1452 |
| **17.1.2** |  | Blade — Lower | 1453 |
| **17.1.3** |  | Blade — Hold | 1454 |
| **17.1.4** |  | Blade — Float | 1455 |

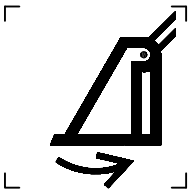
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **17.1.5** |  | Blade — Pitch forward | 1461 |
| **17.1.6** |  | Blade — Pitch rearward | 1460 |
| **17.1.7** |  | Blade — Tilt left | 1457 |
| **17.1.8** |  | Blade — Tilt right | 1456 |
| **17.1.9** |  | Blade — Angle left | 1459 |
| **17.1.10** |  | Blade — Angle right | 1458 |



## 17.2 Bucket symbols

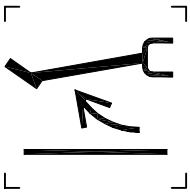
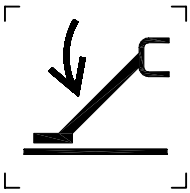
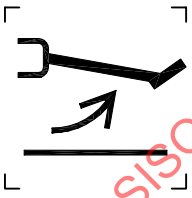
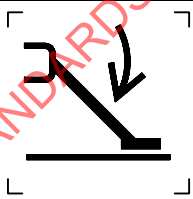
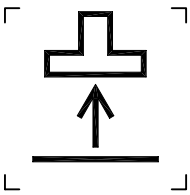
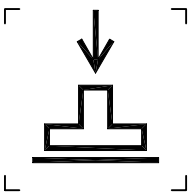
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **17.2.1** |  | Bucket — Raise | 1438 |

| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **17.2.2** |  | Bucket — Lower | 1439 |
| **17.2.3** |  | Bucket — Hold | 1440 |
| **17.2.4** |  | Bucket — Float | 1441 |
| **17.2.5** |  | Bucket — Dump | 1442 |
| **17.2.6** |  | Bucket — Rollback | 1443 |
| **17.2.7** |  | Side-dump bucket — Dump | 1449 |
| **17.2.8** |  | Side-dump bucket — Return | 1450 |
| **17.2.9** |  | Multi-purpose bucket — Open | 1446 |

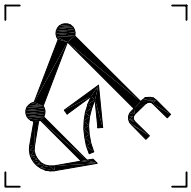
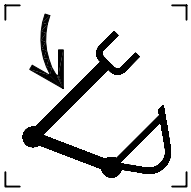
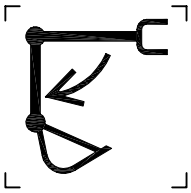
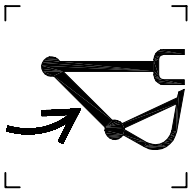
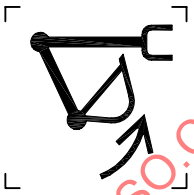
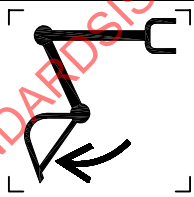
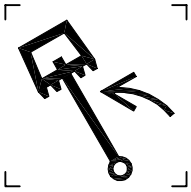
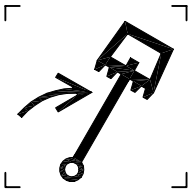
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **17.2.10** |  | Multi-purpose bucket — Close | 1447 |

## 17.3 Stability control symbols

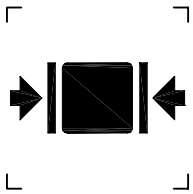
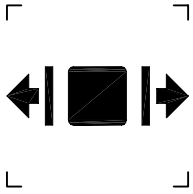
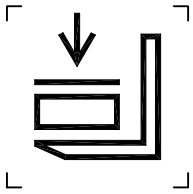
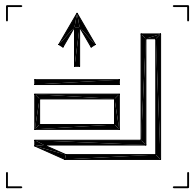
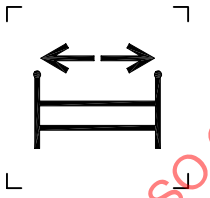
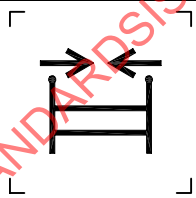
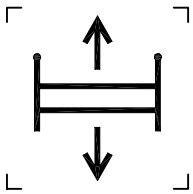
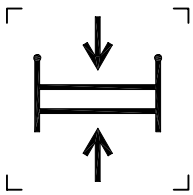
NOTE In symbols 17.3.1 to 17.3.4, the stabilizer is viewed from the perspective of a person looking forward along the axis of the machine.

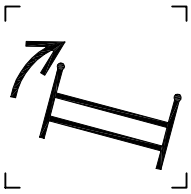
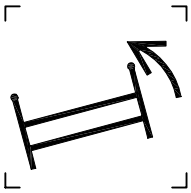
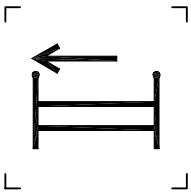
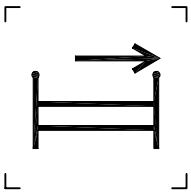
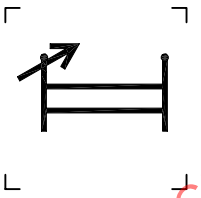
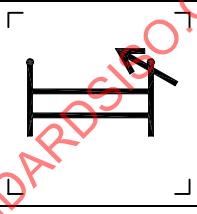
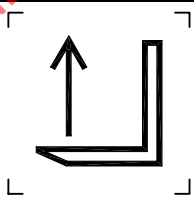
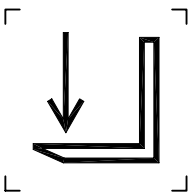
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **17.3.1** |  | Left stabilizer — Up/raise | 2073 |
| **17.3.2** |  | Left stabilizer — Down/lower | 2074 |
| **17.3.3** |  | Right stabilizer — Up/raise | 1292 |
| **17.3.4** |  | Right stabilizer — Down/lower | 1291 |
| **17.3.5** |  | Stabilizers — Up | 1294 |
| **17.3.6** |  | Stabilizers — Down | 1293 |

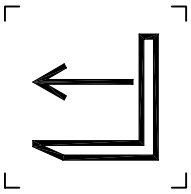
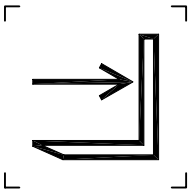
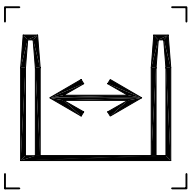
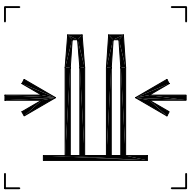
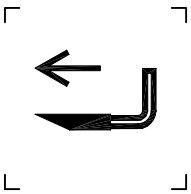
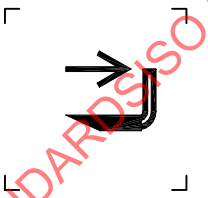
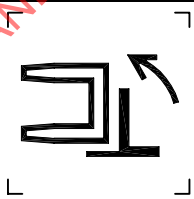
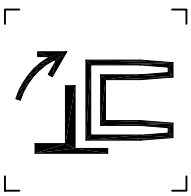
## 17.4 Backhoe control symbols

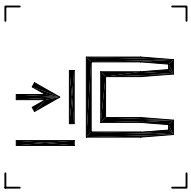
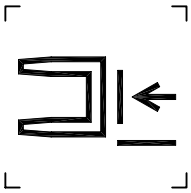
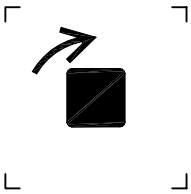
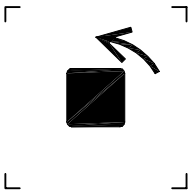
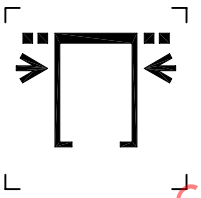
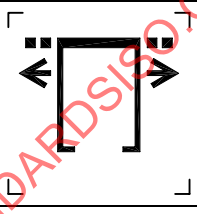
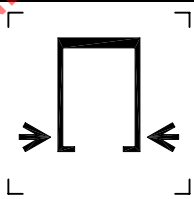
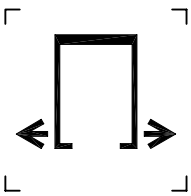
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **17.4.1** |  | Backhoe — Raise | 1470 |
| **17.4.2** |  | Backhoe — Lower | 1469 |
| **17.4.3** |  | Backhoe — Arm — Out | 1474 |
| **17.4.4** |  | Backhoe — Arm — In | 1473 |
| **17.4.5** |  | Backhoe — Bucket — Dig | 1478 |
| **17.4.6** |  | Backhoe — Bucket — Dump | 1477 |
| **17.4.7** |  | Backhoe — Swing left | 1480 |
| **17.4.8** |  | Backhoe — Swing right | 1479 |

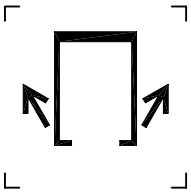
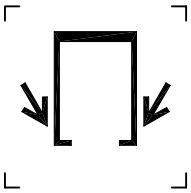
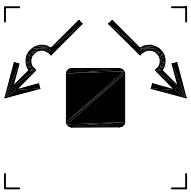
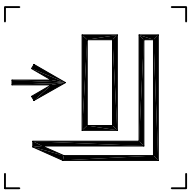
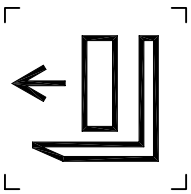
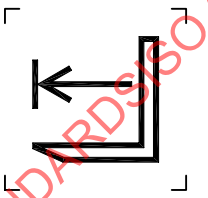
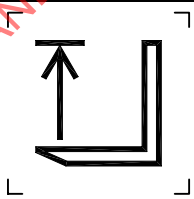
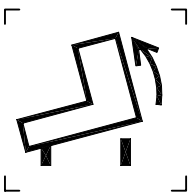
## 17.5 Additional load-handling control symbols

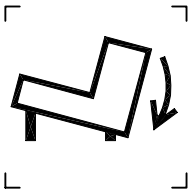
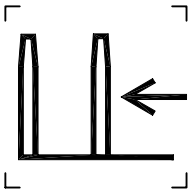
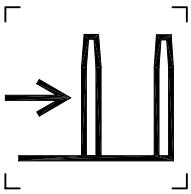
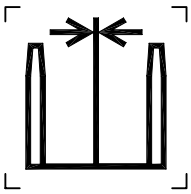
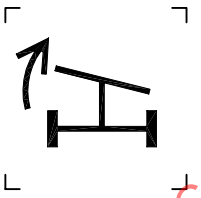
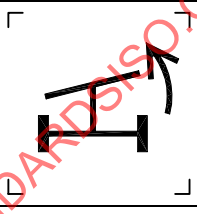
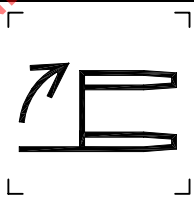
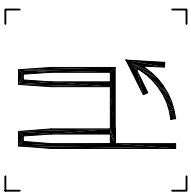
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **17.5.1** |  | Clamp | 0631 |
| **17.5.2** |  | Clamp — Release | 2338 |
| **17.5.3** |  | Load stabilizer — Clamp | 1196 |
| **17.5.4** |  | Load stabilizer — Release | 1195 |
| **17.5.5** |  | Container handling sidelift attachment — Extend laterally | 2359 |
| **17.5.6** |  | Container handling sidelift attachment — Retract laterally | 2361 |
| **17.5.7** |  | Container handling sidelift attachment — Extend vertically | 2360 |
| **17.5.8** |  | Container handling sidelift attachment — Retract vertically | 2362 |

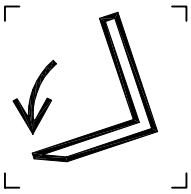
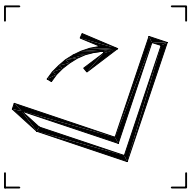
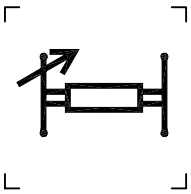
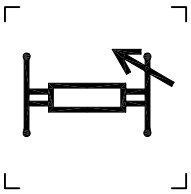
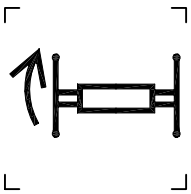
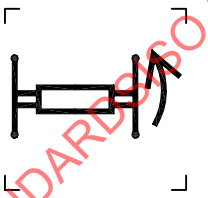
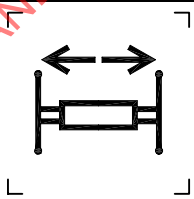
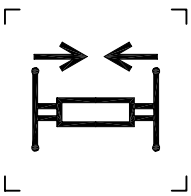
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **17.5.9** |  | Container handling sidelift attachment — Rotate clockwise | 2363 |
| **17.5.10** |  | Container handling sidelift attachment — Rotate anticlockwise | 2364 |
| **17.5.11** |  | Container handling sidelift attachment — Sideshift left | 2365 |
| **17.5.12** |  | Container handling sidelift attachment — Sideshift right | 2366 |
| **17.5.13** |  | Container handling sidelift attachment — Slew clockwise | 2368 |
| **17.5.14** |  | Container handling sidelift attachment — Slew anticlockwise | 2367 |
| **17.5.15** |  | Fork — Raise | 1184 |
| **17.5.16** |  | Fork — Lower | 1183 |

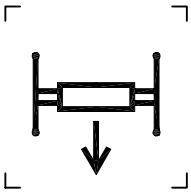
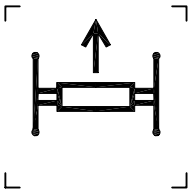
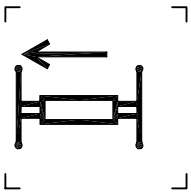
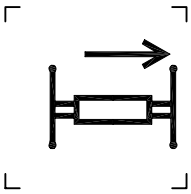
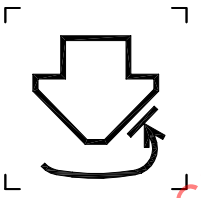
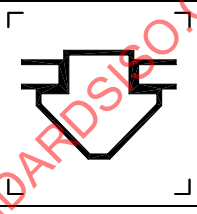
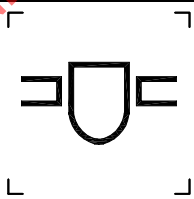
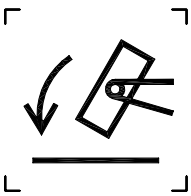
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **17.5.17** |  | Fork arm reach — Extend | 1187 |
| **17.5.18** |  | Fork arm reach — Retract | 1188 |
| **17.5.19** |  | Fork spread — Open | 1191 |
| **17.5.20** |  | Fork spread — Close | 1192 |
| **17.5.21** |  | Fork arm extension — Extend | 2408 |
| **17.5.22** |  | Fork arm extension — Retract | 2409 |
| **17.5.23** |  | Lateral stacking truck — Mechanism — Rotate left | 2343 |
| **17.5.24** |  | Lateral stacking truck — Mechanism — Rotate right | 2344 |

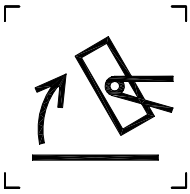
| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **17.5.25** |  | Lateral stacking truck — Mechanism — Sideshift right | 2342 |
| **17.5.26** |  | Lateral stacking truck — Mechanism — Sideshift left | 2341 |
| **17.5.27** |  | Load — Rotate clockwise | 2346 |
| **17.5.28** |  | Load — Rotate anticlockwise | 2345 |
| **17.5.29** |  | Piggy back arms — Block-stacking — In | 2351 |
| **17.5.30** |  | Piggy back arms — Block-stacking — Out | 2352 |
| **17.5.31** |  | Piggy back arms — Clamp | 2348 |
| **17.5.32** |  | Piggy back arms — Unclamp | 2347 |

| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **17.5.33** |  | Piggy back arms — Fold up | 2349 |
| **17.5.34** |  | Piggy back arms — Fold down | 2350 |
| **17.5.35** |  | Piggy back rotation limit — Override | 2353 |
| **17.5.36** |  | Push/pull attachment — Pull | 2356 |
| **17.5.37** |  | Push/pull attachment — Push | 1197 |
| **17.5.38** |  | Lift arm reach — Extend limited | 2396 |
| **17.5.39** |  | Lift arm lift — Limited movement | 2397 |
| **17.5.40** |  | Sideloader platform — Tilt up (forward) | 2354 |

| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **17.5.41** |  | Sideloader platform — Tilt down (back) | 2355 |
| **17.5.42** |  | Sideshift — Left | 1189 |
| **17.5.43** |  | Sideshift — Right | 1190 |
| **17.5.44** |  | Sideshift — Centralize | 2398 |
| **17.5.45** |  | Sway control/levelling — Clockwise | 2390 |
| **17.5.46** |  | Sway control/levelling — Anticlockwise | 2389 |
| **17.5.47** |  | Swing — Clockwise | 1194 |
| **17.5.48** |  | Swing — Anticlockwise | 1193 |

| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **17.5.49** |  | Tilt — Forward | 1185 |
| **17.5.50** |  | Tilt — Rearward | 1186 |
| **17.5.51** |  | Toplift side tilt — Left-hand side up | 2378 |
| **17.5.52** |  | Toplift side tilt — Right-hand side up | 2379 |
| **17.5.53** |  | Toplift slew — Clockwise | 2380 |
| **17.5.54** |  | Toplift slew — Anticlockwise | 2381 |
| **17.5.55** |  | Toplift — Extend laterally | 2372 |
| **17.5.56** |  | Toplift — Retract laterally | 2375 |

| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **17.5.57** |  | Toplift — Reach in | 2374 |
| **17.5.58** |  | Toplift — Reach out | 2373 |
| **17.5.59** |  | Toplift — Sideshift left | 2376 |
| **17.5.60** |  | Toplift — Sideshift right | 2377 |
| **17.5.61** |  | Twistlocks — Located | 2371 |
| **17.5.62** |  | Twistlocks — Lock | 2370 |
| **17.5.63** |  | Twistlocks — Unlock | 2369 |
| **17.5.64** |  | Upender — Rotate forward | 2357 |

| Reference number | Symbol form/shape | Symbol description/application | ISO/IEC registration number |
|---|---|---|---|
| **17.5.65** |  | Upender — Rotate backward | 2358 |

# Annex A
(informative)

## Symbols listed by reference number

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