

INTERNATIONAL
STANDARD

ISO
11532

Second edition
2018-02

**Aircraft ground equipment —
Graphical symbols**

Matériel au sol pour aéronefs — Symboles graphiques



Reference number
ISO 11532:2018(E)

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Published in Switzerland

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Foreword

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

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

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

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

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 9, *Air cargo and ground equipment*.

This second edition cancels and replaces the first edition (ISO 11532:2012), to which it adds new symbols [20.09.07.54, 20.09.05.20 and 20.09.05.21], deemed indispensable for aircraft protection at docking and electrically powered equipment protection.

Introduction

This document is a compendium of all graphical symbols generally used on aircraft ground support equipment. Included are relevant symbols used in the automotive industry, as standard commercial chassis often form part of the equipment.

Manufacturers are encouraged to select those symbols needed for the type(s) of equipment they produce. Users of equipment can also take an excerpt from the content of this document for staff training purposes depending on the equipment concerned.

Aircraft ground equipment — Graphical symbols

1 Scope

This document establishes common graphical symbols for use on all types of aircraft ground support equipment.

They have been compiled for the benefit of those who deal with such equipment, such as airlines, airport handling agencies, airport authorities, manufacturers, etc., in order to facilitate fast and accurate identification of controls, indicators and decals of powered and unpowered equipment.

The presentation of this document is based on the recommendations of ISO/TC 145, *Graphical symbols*.

This document is also intended to promote standardization of terms for controls, indicators, etc. for aircraft ground support equipment and alleviate language problems.

These graphical symbols are intended to be placed on all new equipment and retrofitted on all existing equipment as far as possible.

NOTE This document is intended to be read with the documents listed in the bibliography.

2 Normative references

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

ISO 6966-2, *Aircraft ground equipment — Basic requirements — Part 2: Safety requirements*

ISO 7000, *Graphical symbols for use on equipment — Registered symbols*,¹⁾²⁾

ISO 10254, *Air cargo and ground equipment — Vocabulary*

IEC 60417, *Graphical symbols for use on equipment*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 10254 apply.

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

— IEC Electropedia: available at <http://www.electropedia.org/>

— ISO Online browsing platform: available at <http://www.iso.org/obp>

4 General requirements

The symbols shall be as given in Clause 5, except for any deviations necessary to reproduce an accurate representation of the driver's or operator's line of sight. All symbols required are listed in Clause 5 and most are defined in ISO 7000.

1) The database *Graphical symbols for use on equipment*, available at <http://www.graphical-symbols.info/>, contains all the symbols in IEC 60417 and ISO 7000.

2) The graphical symbol collections of ISO 7000, ISO 7001 and ISO 7010 are also available on line in the ISO web store or the online browsing platform (OBP). For more information, consult: <https://www.iso.org/obp/ui>

Symbols on controls and tell-tales shall contrast well with their background (preferably light symbols on a dark background).

The symbols and tell-tales shall be recognizable by the driver or operator from his usual position without causing hazard or unavoidable stress.

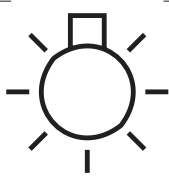






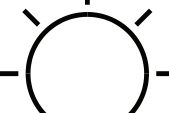
On equipment directly docking onto aircraft, the slow docking speed shall be identified in opposition to travel speed by the “turtle” (20.09.07.52) and “hare” (20.09.07.53) symbols defined in ISO 3287, and the very slow final docking speed shall be identified by the “snail” symbol (20.09.07.54).

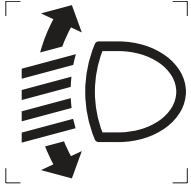


The corresponding speed ranges shall be as specified in ISO 6966-2.

5 Designation and illustration of symbols

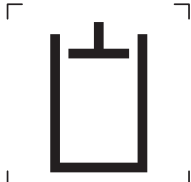
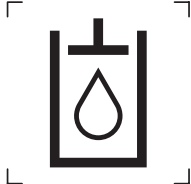
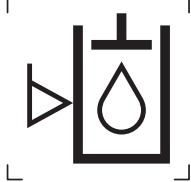
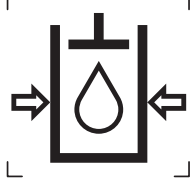
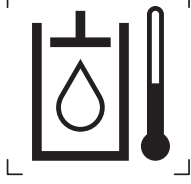
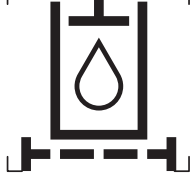
5.1 Equipment lighting

ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.01.01		Beacon	ISO 7000-1141A
20.09.01.02		Working light	ISO 7000-1142
20.09.01.03		Telescoping light mast	ISO 7000-1143
20.09.01.04		Stairs light	ISO 7000-1144
20.09.01.05		Interior light	ISO 7000-1421B
20.09.01.06		Reversing light	ISO 7000-1146

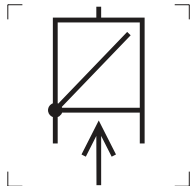
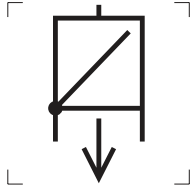
ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.01.07		Master lighting switch	IEC 60417-5012
20.09.01.08		High beam; upper beam	ISO 7000-0082
20.09.01.09		Lower beam; dipped beam	ISO 7000-0083
20.09.01.10		Position lamps	ISO 7000-0456
20.09.01.11		Parking lights	ISO 7000-0240
20.09.01.12		Front fog light	ISO 7000-0633
20.09.01.13		Rear fog light	ISO 7000-0634
20.09.01.14		Light intensity	IEC 60417-5056

ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.01.15		Headlamp setter	ISO 7000-0151
20.09.01.16		Exterior lamp failure	ISO 7000-1555
20.09.01.17		Instrument lighting	ISO 7000-1556

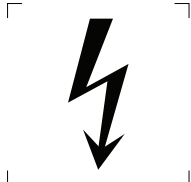

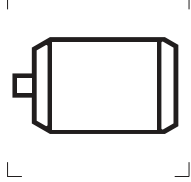
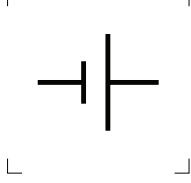
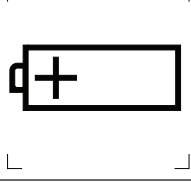
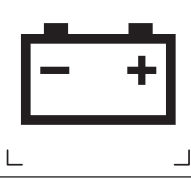
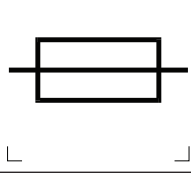
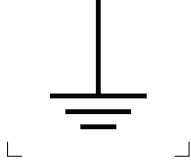
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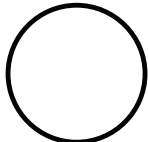
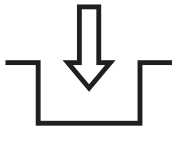
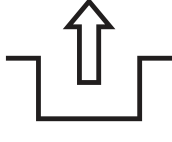



ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.02.01		Hydraulic system	ISO 7000-1409
20.09.02.02		Hydraulic fluid	ISO 7000-1411
20.09.02.03		Hydraulic fluid level	ISO 7000-1412
20.09.02.04		Hydraulic pressure	ISO 7000-1413
20.09.02.05		Hydraulic fluid temperature	ISO 7000-1414
20.09.02.06		Hydraulic filter	ISO 7000-1415

5.3 Pneumatics


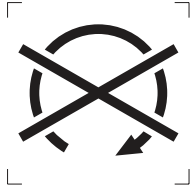
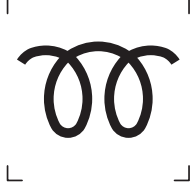
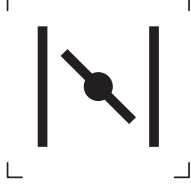

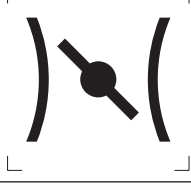
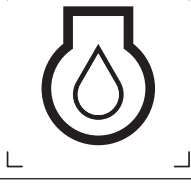
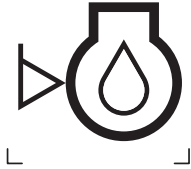
ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.03.01		Connected compressed air coupling	ISO 7000-1149
20.09.03.02		Disconnected compressed air coupling	ISO 7000-1150


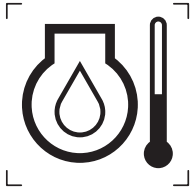
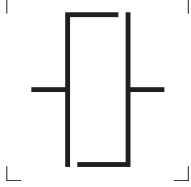

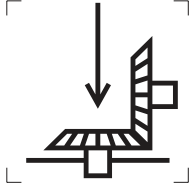
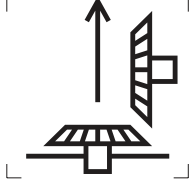
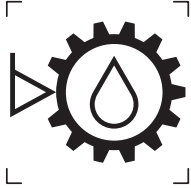
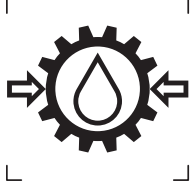
5.4 Electrical equipment

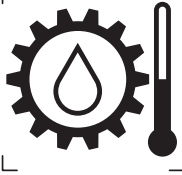


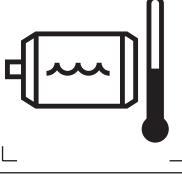
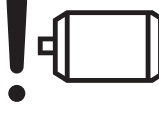
ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.04.01		Dangerous voltage	IEC 60417-5036
20.09.04.02		Generator	ISO 7000-1153
20.09.04.03		Electric motor	ISO 7000-0011
20.09.04.04		Battery check	IEC 60417-5001A
20.09.04.05		Position of cell	IEC 60417-5002
20.09.04.06		Battery charging condition	ISO 7000-0247
20.09.04.07		Fuse	IEC 60417-5016
20.09.04.08		Earth (ground)	IEC 60417-5017

ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.04.09		Protective earth (ground)	IEC 60417-5019
20.09.04.10		On (power)	IEC 60417-5007
20.09.04.11		Off (power)	IEC 60417-5008
20.09.04.12		Engaging	ISO 7000-0022
20.09.04.13		Disengaging	ISO 7000-0023
20.09.04.14		Pull to activate	ISO 7000-1154
20.09.04.15		Push to activate	ISO 7000-1155
20.09.04.16		Calibrate	ISO 7000-0160

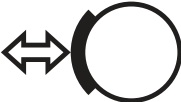

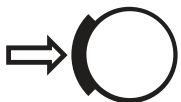





5.5 Engine, transmission, power take-off


ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.05.01		Engine start	ISO 7000-1387
20.09.05.02		Engine stop	ISO 7000-1180
20.09.05.03		Electrical pre-heat	ISO 7000-0457
20.09.05.04		Choke; cold starting aid	ISO 7000-0243
20.09.05.05		Engine water-jacket heater	ISO 7000-2384
20.09.05.06		Throttle hand lever	ISO 7000-1367
20.09.05.07		Engine lubricating oil	ISO 7000-1372
20.09.05.08		Engine lubricating oil level	ISO 7000-1373

ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.05.09		Engine lubricating oil pressure	ISO 7000-1374
20.09.05.10		Engine lubricating oil temperature	ISO 7000-1375
20.09.05.11		Coupling engaged	ISO 7000-0015
20.09.05.12		Power take-off electric drive	ISO 7000-1165
20.09.05.13		Power take-off, on	ISO 7000-1164
20.09.05.14		Power take-off, off	ISO 7000-1163
20.09.05.15		Transmission oil level	ISO 7000-1398A
20.09.05.16		Transmission oil pressure	ISO 7000-1167

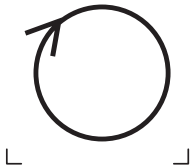
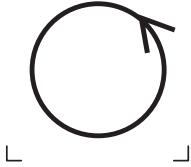

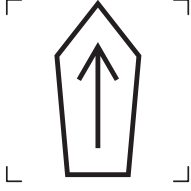
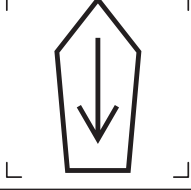



ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.05.17		Transmission oil temperature	ISO 7000-1168A
20.09.05.18		Do not actuate during operation	ISO 7000-0506
20.09.05.19		Actuate only during operation	ISO 7000-0507
20.09.05.20		Electric motor coolant temperature	ISO 7000-3607
20.09.05.21		Electric motor controller failure	ISO 7000-2633B




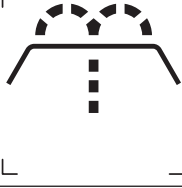
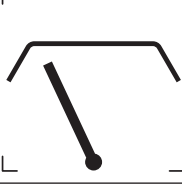
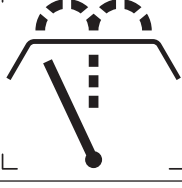
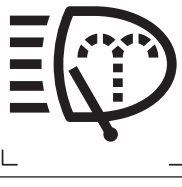
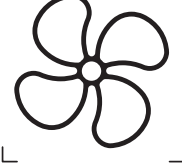
5.6 Brakes


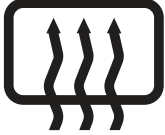






ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.06.01		Brakes	ISO 7000-1173
20.09.06.02		Parking brake	ISO 7000-0238
20.09.06.03		Brake on	ISO 7000-0020
20.09.06.04		Brake off	ISO 7000-0021
20.09.06.05		Brake failure	ISO 7000-0239
20.09.06.06		Brake fluid level	ISO 7000-1401
20.09.06.07		Brake system pressure	ISO 7000-1402
20.09.06.08		Failure of anti-lock braking system	ISO 7000-1407




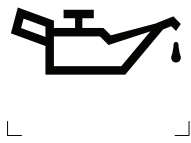
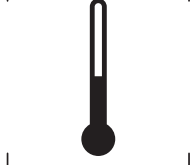
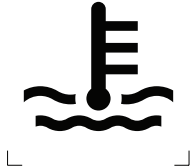
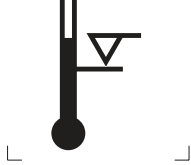

ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.06.09		Worn brake linings	ISO 7000-1408

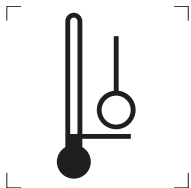

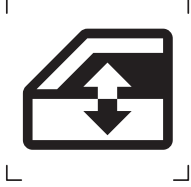
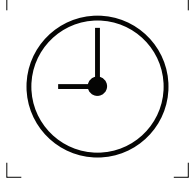
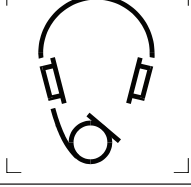
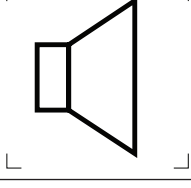
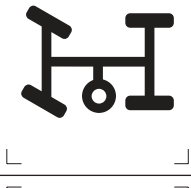

5.7 Drive/driving operation


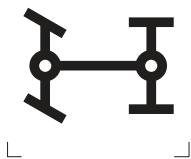


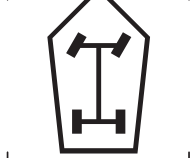
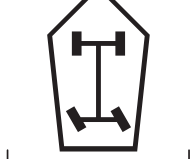
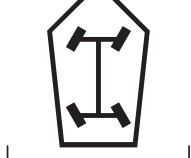
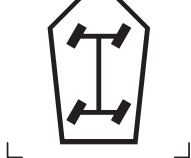
ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.07.01		Clockwise rotation	ISO 7000-0258
20.09.07.02		Counter-clockwise rotation	ISO 7000-0937
20.09.07.03		Number of revolutions per minute	ISO 7000-0010
20.09.07.04		Forward (forward motion)	ISO 7000-0775
20.09.07.05		Backward (backward motion)	ISO 7000-0776
20.09.07.07		Opening of front hood	ISO 7000-0241
20.09.07.08		Opening of boot	ISO 7000-0242
20.09.07.09		Windscreen wiper	ISO 7000-0086






ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.07.10		Windscreen wiper and washer	ISO 7000-0087
20.09.07.11		Windscreen wiper, intermittent	ISO 7000-0647
20.09.07.12		Windscreen washer	ISO 7000-0088
20.09.07.13		Cab roof washer	ISO 7000-2386
20.09.07.14		Cab roof wiper	ISO 7000-2387
20.09.07.15		Cab roof wiper and washer	ISO 7000-2388
20.09.07.16		Headlamp cleaner	ISO 7000-0250
20.09.07.17		Ventilating and air-circulating fan	ISO 7000-0089

ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.07.18		Windscreen demisting and defrosting	ISO 7000-0635B
20.09.07.19		Rear window demisting and defrosting	ISO 7000-0636B
20.09.07.20		Cab roof demisting and defrosting	ISO 7000-2385
20.09.07.21		Interior heating	ISO 7000-0637B
20.09.07.22		Heated seat	ISO 7000-0649A
20.09.07.23		Cooling	ISO 7000-0027
20.09.07.24		Cooling control	ISO 7000-0559
20.09.07.25		Turn signals	ISO 7000-0084




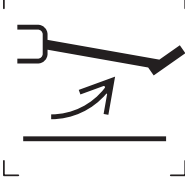
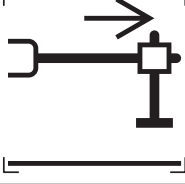
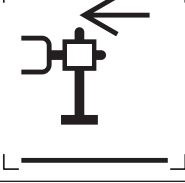
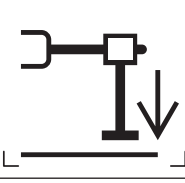
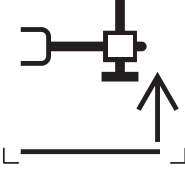
ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.07.26		Hazard warning	ISO 7000-0085
20.09.07.27		Horn	ISO 7000-0244
20.09.07.28		Fuel level	ISO 7000-0245
20.09.07.29		Engine oil	ISO 7000-0248
20.09.07.30		Temperature	ISO 7000-0034
20.09.07.31		Engine coolant temperature	ISO 7000-0246
20.09.07.32		Above working temperature range	ISO 7000-0432
20.09.07.33		Below working temperature range	ISO 7000-0433

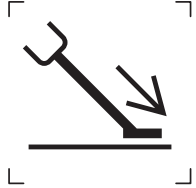



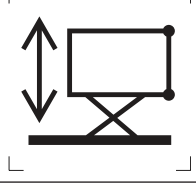
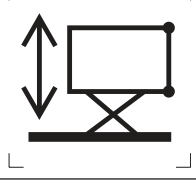
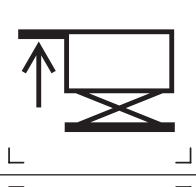
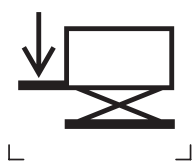
ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.07.34		Thermostat	ISO 7000-0182
20.09.07.35		Engagement of seat belt	ISO 7000-0249
20.09.07.36		Window lift (power-operated)	ISO 7000-0648
20.09.07.37		Clock, time switch	IEC 60417-5184
20.09.07.38		Headset	IEC 60417-5079
20.09.07.39		Loudspeaker	IEC 60417-5080
20.09.07.40		Power take-off	ISO 7000-1200
20.09.07.41		Power take-off No. 1	ISO 7000-1201A

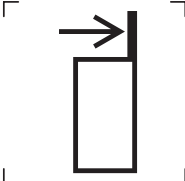
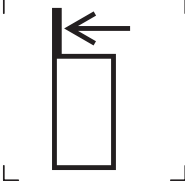
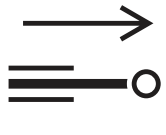
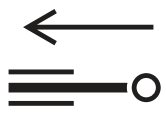

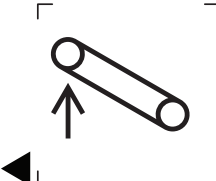
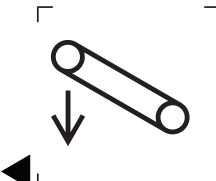
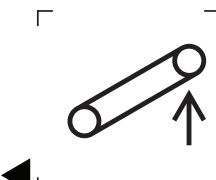
ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.07.42		Power take-off No. 2	ISO 7000-1202A
20.09.07.43		All-wheel drive	ISO 7000-1203
20.09.07.44		Front-axle drive	ISO 7000-1416
20.09.07.45		Rear-axle drive	ISO 7000-1417
20.09.07.46		Industrial truck, two-wheel steering, front	ISO 7000-2391
20.09.07.47		Industrial truck, two-wheel steering, rear	ISO 7000-2392
20.09.07.48		Industrial truck, all-wheel or four-wheel steering	ISO 7000-2393
20.09.07.49		Industrial truck, crab steering	ISO 7000-2394

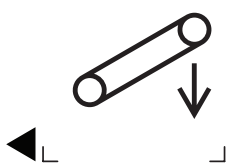
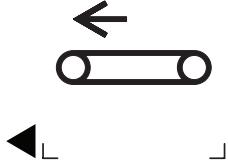
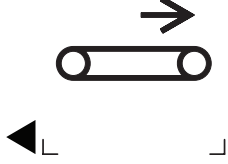
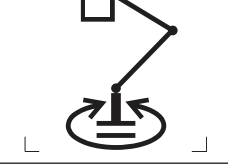

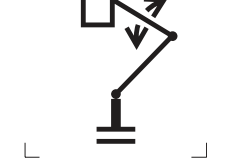
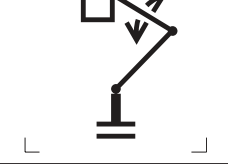
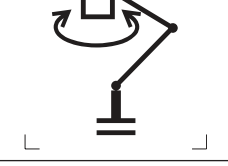
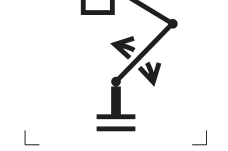
ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.07.50		Cabin up	ISO 7000-1198
20.09.07.51		Cabin down	ISO 7000-1199
20.09.07.52		Slow (turtle)	ISO 7000-2811
20.09.07.53		Fast (hare)	ISO 7000-2810
20.09.07.54		Very slow (snail)	ISO 7000-2812

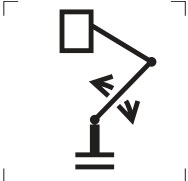
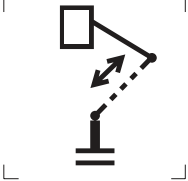
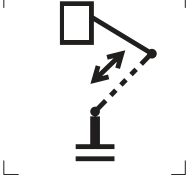
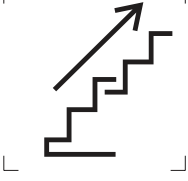
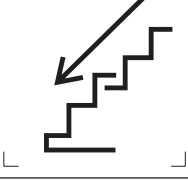
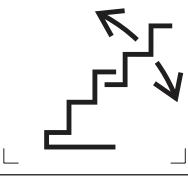
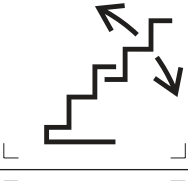
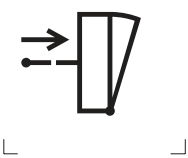
5.8 Lifting/working position

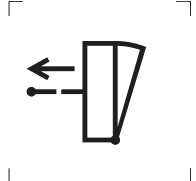
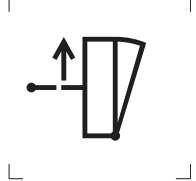
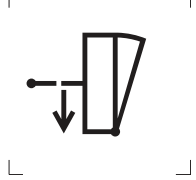
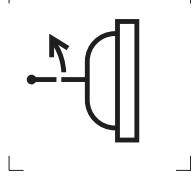
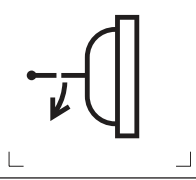
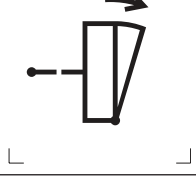
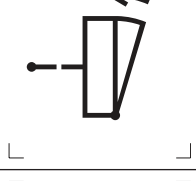

ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.08.01		Axle centrally locked	ISO 7000-1220
20.09.08.02		Axle locking released	ISO 7000-1221
20.09.08.03		Stabilizers down	ISO 7000-1291
20.09.08.04		Stabilizers up	ISO 7000-1292
20.09.08.05		Stabilizer: horizontal extension only	ISO 7000-0746A
20.09.08.06		Stabilizer: horizontal retraction only	ISO 7000-0747A
20.09.08.07		Stabilizer: vertical extension only	ISO 7000-0750A
20.09.08.08		Stabilizer: vertical retraction only	ISO 7000-0751A

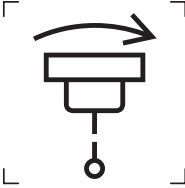
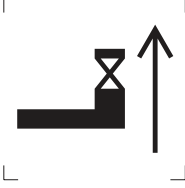
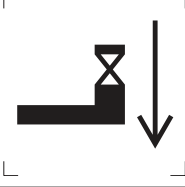
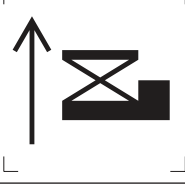
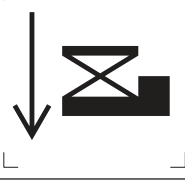
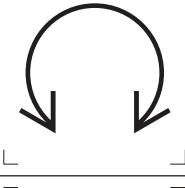
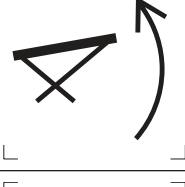
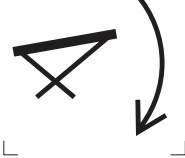
ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.08.09		Extend stabilizers	ISO 7000-1536
20.09.08.10		Retract stabilizers	ISO 7000-1537
20.09.08.11		Elevating operator's position, raise	ISO 7000-2340
20.09.08.12		Elevating operator's position, lower	ISO 7000-2339
20.09.08.13		Van body up	ISO 7000-1205
20.09.08.14		Van body down	ISO 7000-1205
20.09.08.15		Loading device up	ISO 7000-3013
20.09.08.16		Loading device down	ISO 7000-3014




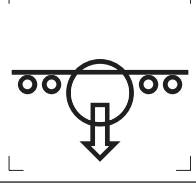
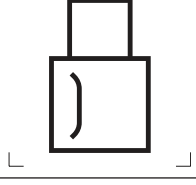
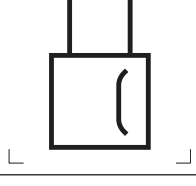
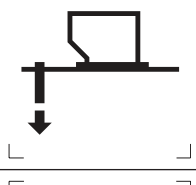
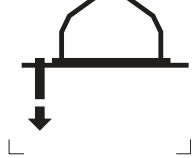
ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.08.17		Loading device to the right	ISO 7000-3015
20.09.08.18		Loading device to the left	ISO 7000-3016
20.09.08.19		Platform telescopic adjustment, extension	ISO 7000-0754
20.09.08.20		Platform telescopic adjustment, retraction	ISO 7000-0755
20.09.08.21		Conveyor belt, on	ISO 7000-0229
20.09.08.22		Conveyor boom up, front	ISO 7000-3017
20.09.08.23		Conveyor boom down, front	ISO 7000-3018
20.09.08.24		Conveyor boom up, rear	ISO 7000-3019



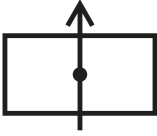
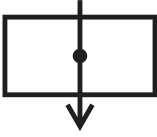
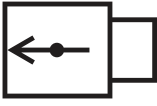
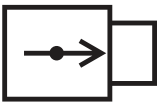
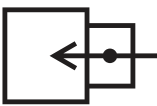
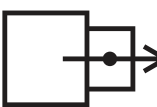
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20.09.08.25		Conveyor boom down, rear	ISO 7000-3020
20.09.08.26		Conveyor belt forward	ISO 7000-3021
20.09.08.27		Conveyor belt reverse	ISO 7000-3022
20.09.08.28		Boom rotation	ISO 7000-1275
	Driving direction forward, front end of equipment.		
20.09.08.29		Platform up	ISO 7000-1273
20.09.08.30		Platform down	ISO 7000-1273
20.09.08.31		Platform swivel movement	ISO 7000-1276
20.09.08.32		Boom height adjustment, up	ISO 7000-1274

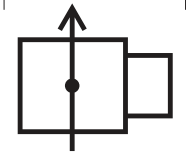
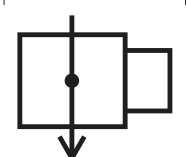
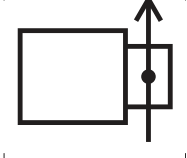
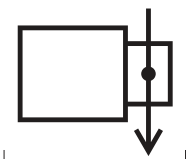


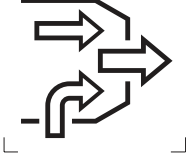
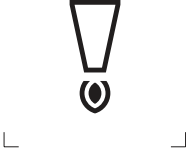
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20.09.08.33		Boom height adjustment, down	ISO 7000-1274
20.09.08.34		Boom telescopic adjustment, extension	ISO 7000-1277
20.09.08.35		Boom telescopic adjustment, retraction	ISO 7000-1277
20.09.08.36		Stairflight extension	ISO 7000-1278
20.09.08.37		Stairflight retraction	ISO 7000-1279
20.09.08.38		Stairflight adjustment, up	ISO 7000-1280
20.09.08.39		Stairflight adjustment, down	ISO 7000-1280
20.09.08.40		Passenger boarding bridge, extension	ISO 7000-1281


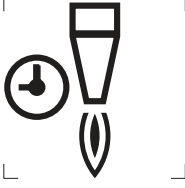
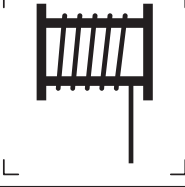
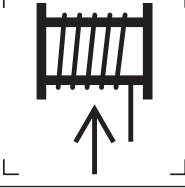
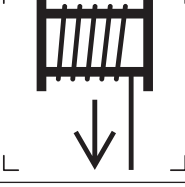
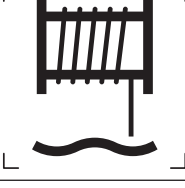
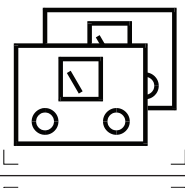
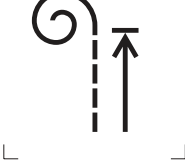
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20.09.08.41		Passenger boarding bridge, retraction	ISO 7000-1282
20.09.08.42		Passenger boarding bridge, up	ISO 7000-1283
20.09.08.43		Passenger boarding bridge, down	ISO 7000-1284
20.09.08.44		Passenger boarding bridge, left	ISO 7000-1285
20.09.08.45		Passenger boarding bridge, right	ISO 7000-1286
20.09.08.46		Canopy out	ISO 7000-1287
20.09.08.47		Canopy in	ISO 7000-1288
20.09.08.48		Bridgehead to left	ISO 7000-3023

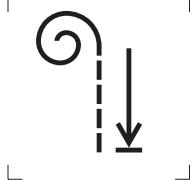
ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.08.49		Bridgehead to right	ISO 7000-3024
20.09.08.50		Vertical movement bridge platform, up	ISO 7000-0740
20.09.08.51		Vertical movement bridge platform, down	ISO 7000-0741
20.09.08.52		Vertical movement main platform, up	ISO 7000-0742
20.09.08.53		Vertical movement main platform, down	ISO 7000-0743
20.09.08.54		Load rotation	ISO 7000-1113 (see ISO 7000, Annex B)
20.09.08.55		Platform pitch adjustment, upwards	ISO 7000-0744
20.09.08.56		Platform pitch adjustment, downwards	ISO 7000-0745

ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.08.57		Platform roll (twist) adjustment, left side	ISO 7000-0773
20.09.08.58		Platform roll (twist) adjustment, right side	ISO 7000-0774
20.09.08.59		Drive unit(s) retraction, up	ISO 7000-0779
20.09.08.60		Drive unit(s) retraction, down	ISO 7000-0780
20.09.08.61		Left-hand guide rail	ISO 7000-1298
20.09.08.62		Right-hand guide rail	ISO 7000-1299
20.09.08.63		Container stop retraction	ISO 7000-0748
20.09.08.64		Pallet stop, retraction	ISO 7000-0749




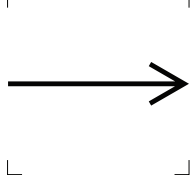

ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.08.65		Single platform, longitudinal transfer, aft	ISO 7000-0762
20.09.08.66		Single platform, longitudinal transfer, forward	ISO 7000-0763
20.09.08.67		Single platform, lateral transfer, left side	ISO 7000-0730
20.09.08.68		Single platform, lateral transfer, right side	ISO 7000-0731
20.09.08.69		Main platform, longitudinal transfer, aft	ISO 7000-0758
20.09.08.70		Main platform, longitudinal transfer, forward	ISO 7000-0759
20.09.08.71		Bridge platform, longitudinal transfer, aft	ISO 7000-0760
20.09.08.72		Bridge platform, longitudinal transfer, forward	ISO 7000-0761

ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.08.73		Main platform, lateral transfer, left side	ISO 7000-0726
20.09.08.74		Main platform, lateral transfer, right side	ISO 7000-0727
20.09.08.75		Bridge platform, lateral transfer, left side	ISO 7000-0728
20.09.08.76		Bridge platform, lateral transfer, right side	ISO 7000-0729
20.09.08.77		Coolant pump	ISO 7000-0355
20.09.08.78		Water pump	ISO 7000-0356
20.09.08.79		Admixture	ISO 7000-0181
20.09.08.80		Burner flame, low	ISO 7000-1337

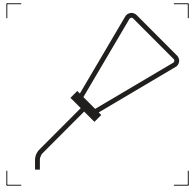
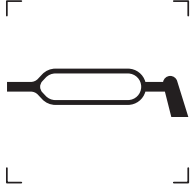

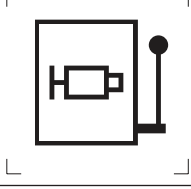
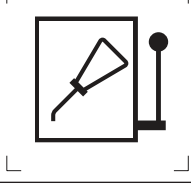

ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.08.81		Burner flame, high	ISO 7000-1338
20.09.08.82		Pre-heating time	ISO 7000-1339
20.09.08.83		Winch	ISO 7000-1176
20.09.08.84		Winch, spool in	ISO 7000-1538
20.09.08.85		Winch, spool out	ISO 7000-1539
20.09.08.86		Winch, free spool	ISO 7000-1540
20.09.08.87		Control panel change	Application of IEC 60417-5263
20.09.08.88		Roller curtain, open	ISO 7000-1289

ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.08.89		Roller curtain, closed	ISO 7000-1290

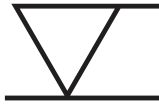




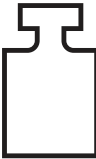
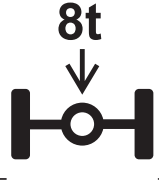
5.9 Emergency operation

ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.09.01		Portable fire extinguisher	ISO 7000-1301
20.09.09.02		Manual control	ISO 7000-0096
20.09.09.04		Caution	ISO 7000-0434
20.09.09.05		Index arrow	IEC 60417-5022
20.09.09.06		Fast stop	IEC 60417-5178

5.10 Maintenance

ISO/TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.10.01		Lubricating oil	ISO 7000-0391
20.09.10.02		Lubricant grease	ISO 7000-0787
20.09.10.03		Special tool only	ISO 7000-1310
20.09.10.04		Centralized lubrication system for grease	ISO 7000-1314
20.09.10.05		Centralized lubrication system for oil	ISO 7000-1315
20.09.10.06		Service engine soon	ISO 7000-2399

5.11 Miscellaneous

TC 20/SC 9 number	Graphical symbol	Symbol description/application	ISO/IEC registration number
20.09.11.01		Level	ISO 7000-0159
20.09.11.02		Jack; support point	ISO 7000-0542
20.09.11.03		Lift point	ISO 7000-1368
20.09.11.04		Centre of gravity	ISO 7000-0627
20.09.11.05		Water balance for horizontal levelling	ISO 7000-1322
20.09.11.06		Mass	ISO 7000-1321
20.09.11.07		Axle load	ISO 7000-3025

Bibliography

- [1] ISO 3287, *Powered industrial trucks — Symbols for operator controls and other displays*
- [2] AIRPORT HANDLING MANUAL IATA (AHM) 915, Section 1, *Pictograms for Identification of Ground Support Equipment Controls*³⁾
- [3] SAE/ARP 1838, *Pictograms for Ground Support Equipment*⁴⁾

3) The IATA Airport Handling Manual can be obtained from: Publications Assistant, International Air Transport Association, 800 Place Victoria, P.O. Box 13, Montréal, Québec, Canada H4Z 1M1.

4) SAE standards are published by the Society of Automotive Engineers, USA. They can be obtained from: SAE Publications Dept., 400 Commonwealth Drive, Warrendale, PA 15096-0001, USA.

