
**Earth-moving machinery — Symbols
for operator controls and other
displays —**

Part 2:
**Symbols for specific machines,
equipment and accessories**

AMENDMENT 1: Additional symbols

*Engins de terrassement — Symboles pour les commandes de
l'opérateur et autres indicateurs —*

<https://standards.iteh.ai/catalog/standards/iso/6405-2:2017/1113833> *Partie 2: Symboles spécifiques aux engins, équipements et accessoires*

AMENDEMENT 1: Symboles supplémentaires



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This document was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 3, *Machine characteristics, electrical and electronic systems, operation and maintenance*.

A list of all parts in the ISO 6405 series can be found on the ISO website.

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Earth-moving machinery — Symbols for operator controls and other displays —

Part 2: Symbols for specific machines, equipment and accessories

AMENDMENT 1: Additional symbols

Clause 1

Add the following note after NOTE 2:

NOTE 3 Certain graphical symbols specified in this document can be available within the scope of ISO/TC 82 and of ISO/TC 195/SC 3.




Clause 8

Add the following symbols after 8.14:

	Graphical symbol	Symbol title and description	ISO/IEC registration number
8.15		Track-type machine (overhead view of machine) To identify the track-type industrial tractor from an overhead (plan) view of the machine. Use as a symbol element in the development of related symbols.	ISO 7000-3756
8.16		Track-type machine, left track, forward or reverse To identify the control that moves the left track of the machine in either the forward or the reverse direction.	ISO 7000-3757
8.17		Track-type machine, right track, forward or reverse To identify the control that moves the right track of the machine in either the forward or the reverse direction.	ISO 7000-3758

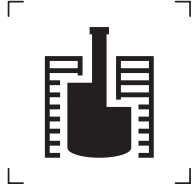


Clause 14

Add the following symbols after 14.26:

	Graphical symbol	Symbol title and description	ISO/IEC registration number
14.27		<p>Grader blade, float</p> <p>To identify the control that allows the grader blade to move up and down with the contour of the ground.</p> <p>To indicate that the blade is in the float condition.</p> <p>This symbol is viewed from the perspective of a person looking forward along the longitudinal axis of the machine.</p>	ISO 7000-3731
14.28		<p>Grader blade, left side, float</p> <p>To identify the control that allows the grader blade left side to move up and down with the contour of the ground.</p> <p>To indicate that the blade left side is in the float condition.</p> <p>This symbol is viewed from the perspective of a person looking forward along the longitudinal axis of the machine.</p>	ISO 7000-3759
14.29		<p>Grader blade, right side, float</p> <p>To identify the control that allows the grader blade right side to move up and down with the contour of the ground.</p> <p>To indicate that the blade right side is in the float condition.</p> <p>This symbol is viewed from the perspective of a person looking forward along the longitudinal axis of the machine.</p>	ISO 7000-3760


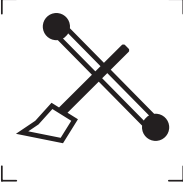
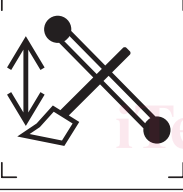

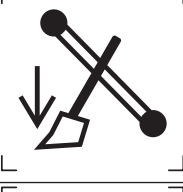
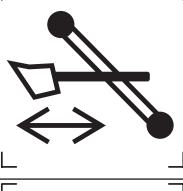
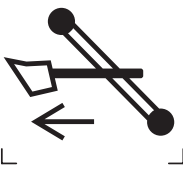
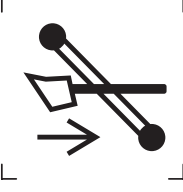
Clause 16

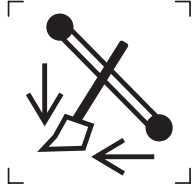
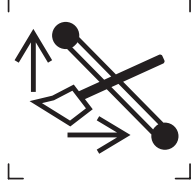
Add the following symbols after 16.35:

	Graphical symbol	Symbol title and description	ISO/IEC registration number
16.36		<p>Excavator (overhead view of machine); excavator, upper structure, swing</p> <p>To identify the excavator from an overhead view.</p> <p>To identify the control that swings the excavator upper structure either left or right.</p> <p>To indicate the operational status of the upper structure swing function.</p> <p>This symbol is viewed from the perspective of a person looking at the excavator from above the machine.</p> <p>Use as a base symbol for developing excavator symbols that use an overhead (plan) view.</p> <p>Curved directional arrows may be added to this symbol to emphasize control of upper structure swing.</p>	ISO 7000-3761
16.37		<p>Excavator, upper structure, swing left</p> <p>To identify the control that swings the upper structure to the left.</p> <p>To indicate that the upper structure is swinging to the left.</p> <p>This symbol is viewed from the perspective of a person looking at the excavator from above the machine.</p>	ISO 7000-3762
16.38		<p>Excavator, upper structure, swing right</p> <p>To identify the control that swings the upper structure to the right.</p> <p>To indicate that the upper structure is swinging to the right.</p> <p>This symbol is viewed from the perspective of a person looking at the excavator from above the machine.</p>	ISO 7000-3763

Clause 17


Add the following symbols after 17.7:

	Graphical symbol	Symbol title and description	ISO/IEC registration number
17.8		Cable excavator (side view of machine) To identify the cable excavator from a side (profile) view.	ISO 7000-3764
17.9		Cable excavator dipper To identify the equipment used on the cable excavator to dig or scoop material. To identify the control for operation of the dipper.	ISO 7000-3765
17.10		Cable excavator dipper, raise or lower To identify the control that raises or lowers the dipper of the cable excavator. To indicate that the dipper is being raised or lowered.	ISO 7000-3766
17.11		Cable excavator dipper, raise To identify the control that raises the dipper of the cable excavator. To indicate that the dipper is being raised or is in the raised (up) position.	ISO 7000-3767
17.12		Cable excavator dipper, lower To identify the control that lowers the dipper of the cable excavator. To indicate that the dipper is being lowered or is in the lowered (down) position.	ISO 7000-3768
17.13		Cable excavator dipper, extend or retract To identify the control that extends or retracts the dipper of the cable excavator. To indicate that the dipper is being extended or retracted.	ISO 7000-3769
17.14		Cable excavator dipper, extend To identify the control that extends the dipper away from the machine and increases the reach of the cable excavator. To indicate that the dipper is being extended or is in the extended (out) position.	ISO 7000-3842
17.15		Cable excavator dipper, retract To identify the control that retracts the dipper toward the machine and reduces the reach of the cable excavator. To indicate that the dipper is being retracted or is in the retracted (in) position.	ISO 7000-3843

	Graphical symbol	Symbol title and description	ISO/IEC registration number
17.16		<p>Cable excavator dipper, lower and extend</p> <p>To identify the control that simultaneously lowers and extends the dipper of the cable excavator.</p> <p>To indicate that the dipper is being simultaneously lowered and extended.</p>	ISO 7000-3770
17.17		<p>Cable excavator dipper, raise and retract</p> <p>To identify the control that simultaneously raises and retracts the dipper of the cable excavator.</p> <p>To indicate that the dipper is being simultaneously raised and retracted.</p>	ISO 7000-3771

Clause 18

Add the following symbol after 18.29:

	Graphical symbol	Symbol title and description	ISO/IEC registration number
18.30		<p>Loader bucket</p> <p>To identify the equipment used to scoop, carry, and dump material.</p> <p>To identify the control for operation of the loader bucket.</p>	ISO 7000-1437B



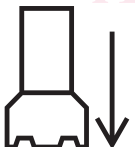
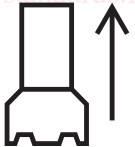



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Clause 26

Add the following clause after Clause 25:

26 Drill symbols

	Graphical symbol	Symbol title and description	ISO/IEC registration number
26.1		Drill bit To identify the drill bit used on earth-moving and mining machines. To identify the control for operations of the drill bit. To indicate the operational status of the drill bit. Use as a symbol element in the development of related symbols.	ISO 7000-3844
26.2		Drill oil To indicate the fill point for drill oil. To identify the container for drill oil.	ISO 7000-3845
26.3		Drill bit, extend To indicate that the drill bit is extending into the material to be drilled. To identify the control that extends the drill bit into the material to be drilled.	ISO 7000-3846
26.4		Drill bit, retract To identify the control that retracts the drill bit. To indicate that the drill bit is retracting away from the material.	ISO 7000-3847
26.5		Drill bit, auto retract To identify the control that automatically retracts the drill bit out of the hole. To indicate that the automatic drill bit retract mode is enabled.	ISO 7000-3848
26.6		Drill system, automatic operation active To identify the control that enables the automatic mode of drill system. To indicate that the automatic mode for the drill system is active.	ISO 7000-3849
26.7		Drill system, automatic operation off or inactive To identify the control that disables the automatic mode for the drill system. To indicate that the automatic mode for the drill system has been turned off or is inactive.	ISO 7000-3850