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Graphical symbols for diagrams —

Part 14:

Devices for transport and handling of material

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Foreword

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

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

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 14617-14 was prepared by Technical Committee ISO/TC 10, *Technical product documentation*, Subcommittee SC 10, *Process plant documentation and tpd-symbols*.

ISO 14617 consists of the following parts, under the general title *Graphical symbols for diagrams*:

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 Part 1: General information and indexes
- Part 2: Symbols having general application 4617-14:2004 https://standards.iteh.avcatalog/standards/sist/b35acefd-748b-4258-9738-
- Part 3: Connections and related devices d269/iso-14617-14-2004
- Part 4: Actuators and related devices
- Part 5: Measurement and control devices
- Part 6: Measurement and control functions
- Part 7: Basic mechanical components
- Part 8: Valves and dampers
- Part 9: Pumps, compressors and fans
- Part 10: Fluid power converters
- Part 11: Devices for heat transfer and heat engines
- Part 12: Devices for separating, purification and mixing
- Part 13: Devices for material processing
- Part 14: Devices for transport and handling of material
- Part 15: Installation diagrams and network maps

Introduction

The purpose of ISO 14617 in its final form is the creation of a library of harmonized graphical symbols for diagrams used in technical applications. This work has been, and will be, performed in close co-operation between ISO and IEC. The ultimate result is intended to be published as a standard common to ISO and IEC, which their technical committees responsible for specific application fields can use in preparing International Standards and manuals.

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Graphical symbols for diagrams —

Part 14:

Devices for transport and handling of material

1 Scope

This part of ISO 14617 specifies graphical symbols in diagrams for components and devices for material transport and handling.

For the fundamental rules of creation and application of graphical symbols for use in diagrams, see ISO 81714-1.

For an overview of ISO 14617, information on the creation and use of registration numbers for identifying graphical symbols used in diagrams, rules for the presentation and application of these symbols, and examples of their use and application, see ISO 14617-1 PREVIEW

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2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies. 9/iso-14617-14-2004

ISO 14617-1:2002, Graphical symbols for diagrams — Part 1: General information and indexes

ISO 81714-1:1999, Design of graphical symbols for use in the technical documentation of products — Part 1: Basic rules

3 Conveyors and associated devices

3.1 Symbols of basic nature

3.1.1 3801 * Conveyor See R3801	2904		Conveyor
	See R3801 (3.2.1) and R3802 (3.2.2).		
3.1.2	3806	\ /	Feeding funnel, hopper
3.1.3	3807	*	Vane feeder rotor
3.1.4	3808	+	Turntable

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3.2 Application rules for the symbols in 3.1

3.2.1	R3801	The symbol may have another shape if the shape of the conveyor is significant for the function. For examples, see X3805 (3.5.5) and X3811 (3.5.11).
3.2.2	R3802	For a unidirectional conveyor, the asterisk shall be replaced with symbol 241 (3.3.2). For a reversible conveyor, the asterisk shall be replaced with symbol 245 (3.3.3). For a conveyor with the possibility to transport objects in both directions
		simultaneously, for example, a ropeway, the asterisk shall be replaced with symbol 247 (3.3.4).

3.3 Symbols giving supplementary information

3.3.1	201	1	Adjustability
3.3.2	241		Direction in general, except for energy and signal flow
3.3.3	245	←→	Alternative directions in general, except for energy and signal flow
3.3.4	247	iTeh_STAND	Bidirectional, simultaneously
		(standa	rds.iteh.ai)
3.3.5	3061	https://standards.iteh.ai/catalog/s	Explanation: The oblique line in the symbol indicates the direction of the slope 258-9738-
3.3.6	3821	0.0	Belt type
3.3.7	3822	#	Belt type with scraper flights
3.3.8	3823	00	Chain- or wire-driven type
3.3.9	3824	000	Roller type
3.3.10	3825	<u> </u>	Ropeway type, overhead type
3.3.11	3828	עטע	Bucket type
3.3.12	3830	-\-	Screw type
3.3.13	3831	4	Vibrating type
3.3.14	3832	g	Gravity type
3.3.15	3833	>	Spiral gravity (sliding) type
3.3.16	3834	۲-	Escalator function

3.4 Application rules for the symbols in 3.3

None.

3.5 Application examples

3.5.1	X3801	3801, 241, 3821, CEI	Unidirectional belt conveyor driven by electric motor
3.5.2	X3802	3801, 245	Reversible conveyor
3.5.3	X3803	3801, 247	Conveyor with the possibility to transport objects in both directions simultaneously
3.5.4	X3804	iTestandards. (standards. 201, 241, 2013, 3061, 3801, 3822	Mobile belt conveyor with scraper flights and adjustable elevation
3.5.5	X3805		sist/b35acefd-748b-4258-9738- 617-14-2004 Conveyor connected to a feeding belt conveyor with scraper flights coming from below
3.5.6	X3806	201, 241, 3801, 3821	Belt conveyor with adjustable length
3.5.7	X3807	241, 3801, 3832	Straight gravity slide

3.5.8	X3808	241, 3801, 3833	Spiral gravity slide
3.5.9	X3809	241, 3801, 3806, 3830	Screw feeder with feeding funnel
3.5.10	X3810	101, 241, 3801, 3806, 3830	Two forms shown.
3.5.11	X3811	101, 3801, 3806, 3830standa	Compressing screw conveyor ARCH CONVEYOR 1 rds.iteh.ai)
3.5.12	X3812	https://standards.iteh.ai/catalog/s	14617-14:2004 tandards/sist/b35acefd-748b-4258-9738- 69/iso-14617-14-2004 Conveyor with rotary vane feeder
3.5.13	X3813	101, 241, 3801, 3807	Two forms shown.
3.5.14	X3814	101, 241, 3801, 3807, 3831	Conveyor with vibrating rotary vane feeder
3.5.15	X3815	241, 3801, 3808, 3824	Two conveyors of roller type interlinked by a turntable

3.5.16	X3816	241, 3801, 3834	Escalator going upwards and to the right
3.5.17	X3817	241, 3801, 3834	Escalator going downwards and to the right
3.5.18	X3818	241, 3801, 3834	Escalator going upwards and to the left
3.5.19	X3819	241, 3801, 3834	Escalator going downwards and to the left

4 Cranes, lifts, hoists, and materials handling robots

4.1 Symbols of basic nature TANDARD PREVIEW

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4.1.1	3841	bs://standards.iteh.ai/catalog/standards/	Crane
4.1.2	3842	1632563cd269/iso-14	617-14-2004 Lift, hoist
4.1.3	3843	ROB	Materials handling robot

4.2 Application rules for the symbols in 4.1

None.

4.3 Symbols giving supplementary information

None.

4.4 Application rules for the symbols in 4.3

None.