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Coal preparation plant -- Graphical symbols

Appareils utilisés dans la préparation du charbon -- Symboles graphiques

Ta slovenski standard je istoveten z: ISO 561:1989

SIST ISO 561:1998

<https://standards.iteh.ai/catalog/standards/sist/17809599-5b2a-40c4-ab21-151647f4cb5c/sist-iso-561-1998>

ICS:

01.080.30	Ō æã} ã ã à[á á] [æ Á	Graphical symbols for use on mechanical engineering and construction drawings, diagrams, plans, maps and in relevant technical product documentation
73.120	Oprema za predelavo rudnin	Equipment for processing of minerals

SIST ISO 561:1998

en

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INTERNATIONAL STANDARD

**ISO
561**

Second edition
1989-12-01

Corrected and reprinted
1992-05-15

Coal preparation plant — Graphical symbols

Appareils utilisés dans la préparation des charbons — Symboles graphiques

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Reference number
ISO 561 : 1989 (E)

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Foreword

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

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 561 was prepared by Technical Committee ISO/TC 27, *Solid mineral fuels*.

[SIST ISO 561:1998](https://standards.iteh.ai/catalog/standards/sist/17809599-5b2a-40c4-ab21-1516474c659c/sist-iso-561-1998)

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This second edition cancels and replaces the first edition (ISO 561 : 1974), of which it constitutes a minor technical revision.

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International Organization for Standardization

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Introduction

The symbols included in this International Standard have been selected in accordance with the following principles:

- a) the items of plant listed should be widely used for coal preparation purposes and should be identified on flowsheets;
- b) the symbols should be easy to draw and readily distinguishable from one another;
- c) the symbols should preferably give some indication of the principle of the operation involved, but should not represent the appearance of any particular type of machine;
- d) where a single symbol represents a group of items for which separate symbols are standardized nationally, it is preferable that the ISO symbols are readily distinguishable from any one of the national symbols.

It is expected that the general adoption of the basic symbols in this standard will simplify the exchange of information between those concerned with the design, construction and operation of coal preparation plant.

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Coal preparation plant — Graphical symbols

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1 Scope

This International Standard specifies basic symbols for use in flowsheets (see ISO 924) and other diagrams relating to coal preparation plant.

ISO 3511-3: 1984, *Process measurement control functions and instrumentation — Symbolic representation — Part 3: Detailed symbols for instrument interconnection diagrams*.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 924: 1975, *Coal preparation plant — Principles and conventions for flowsheets*.

ISO 3511-1: 1977, *Process measurement control functions and instrumentation — Symbolic representation — Part 1: Basic requirements*.

ISO 3511-2: 1984, *Process measurement control functions and instrumentation — Symbolic representation — Part 2: Extension of basic requirements*.

3 Convention for drawing of symbols

The following conventions shall be adopted for drawing the standard symbols:

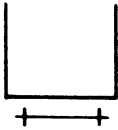



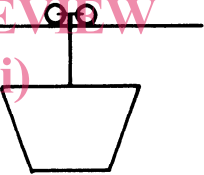
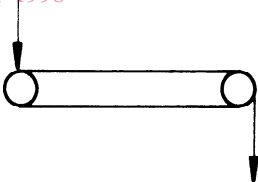
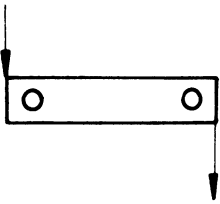
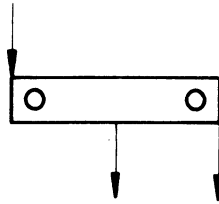
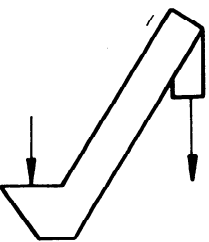
- the plant symbols shall be shown by thick lines and the product flow by fine lines;
- in general, the flowlines shall enter the symbol from above or from the left and shall leave the symbol downwards or to the right;
- where more than one product enters or leaves an item of plant, the number of entry and exit arrows shall be varied accordingly.

NOTE — Symbols relating to process controls can be obtained from relevant International Standards. See for example ISO 3511-1, ISO 3511-2 and ISO 3511-3.

4 Basic symbols

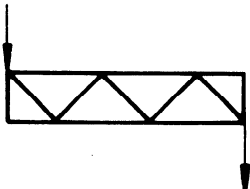


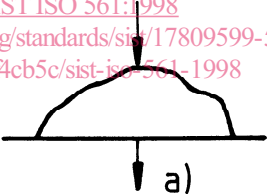
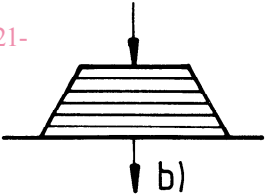

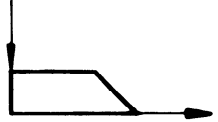
The basic symbols and an alphabetical index are given in the following pages.

ISO 561 : 1989 (E)

No.	Item	Symbol
1	Wagon	
2	Tub	
3	Wagon tippler	
4	Tub tippler	
5	Aerial ropeway	
6	Conveyor	
7	Conveyor, scraper a) One discharge b) Two discharges	  <p>a) b)</p>
8	Elevator	

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No.	Item	Symbol
9	Conveyor, screw	
10	Bunker	
11	Bunker (drainage)	
12	a) Stockpile b) Layered stockpile	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>a)</p> </div> <div style="text-align: center;">  <p>b)</p> </div> </div>
13	Bucket wheel reclaimer	
14	Feeder	
15	Picking belt	