INTERNATIONAL STANDARD



561

THERNATIONAL ORGANIZATION FOR STANDARDIZATION ON THE THEORY OF THE THE THEORY OF THE

Coal preparation plant — Graphical symbols

Appareils pour la préparation du charbon - Symboles graphiques

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Descriptors: coal, preparation, industrial plants, apparatus, symbols, graphic symbols, symbolic codes.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

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.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 27 has reviewed ISO Recommendation R 561 and found it technically suitable for transformation. International Standard ISO 561 therefore replaces ISO Recommendation R 561-1967 to which it is technically identical.

https://standards.iteh.ai/catalog/standards/sist/35f04b38-cc4c-4d8a-b9de-

ISO Recommendation R 561 was approved by the Member Bodies of the following countries:

Australia France
Austria Germany
Belgium Greece
Bulgaria India
Canada Italy

ce Poland
nany Portugal
ce Romania
South Africa, Rep. of

Chile Japan
Czechoslovakia Netherlands
Denmark New Zealand

Spain Switzerland Turkey

Denmark New Zealand United Kingdom Egypt, Arab Rep. of Philippines U.S.S.R.

No Member Body expressed disapproval of the Recommendation.

No Member Body disapproved the transformation of ISO/R 561 into an International Standard.

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1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies basic symbols for use 1:1974 in flowsheets (see note) and other diagrams relating to coalards/sist/3504538 event the appearance of any particular type of 61027cf20c04/iso-561-19/4 preparation plant.

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

NOTE - Reference may also be made to ISO/R 924, Principles and conventions for flowsheets for coal preparation plant.

2 PRINCIPLE

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 required to be identified on flowsheets;
- b) the symbols should be easy to draw and readily distinguishable one from another;

- c) the symbols should preferably give some indication of the principle of the operation involved, but should
- d) where a single symbol represents a group of items for which separate symbols are standardized nationally, the ISO symbol should be readily distinguishable from any one of the national symbols.

3 CONVENTIONS FOR DRAWING OF SYMBOLS

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

- a) the plant symbols shall be shown by heavy lines and the product flow by light lines;
- b) in general, the flowlines shall enter the symbol from above or from the left and shall leave the symbol downwards or to the right;
- c) where more than one product may enter or leave an item of plant, the number of entry and exit arrows shall be varied accordingly.

4 SYMBOLS

No.	Îtem	Symbol
1	Conveyor	· · · · · ·
2	Elevator	
3	Wagon (St	ANDARD PREVIEW andards.iteh.ai ISO 561:1974 i/catalog/standards/sist/35f04b38-cc4c-4d8a-b9de-
4	Tub	61027cf20c04/iso-561-1974
5	Wagon tippler	
6	Tub tippler	
7	Aerial ropeway	

No.	Item	Symbol
8	Pump	-
9	Fan	
10	Compressor	-
11	1	DARD PREVIEW lards.iteh.ai)
12	https://standards.iteh.ai/catalo	ISO 56 ^a :19/4 g/standards/sist/35f04b38-cc4c-4d8a-b9de-cf20c04/iso-561-1974
13	Screen (double deck)	
14	Water spray	

No.	Item	Symbol
15	Mechanical classifier	
16	Cyclone classifier	
17		ANDARD PREVIEW andards.iteh.ai)
18	https://standards.iteh.	ISO 561:1974 ai/catalog/standards/sist/35f04b38-cc4c-4d8a-b9de- 61027cf20c04/iso-561-1974
19	Picking table (circular)	
20	Bradford breaker	

No.	Item	Symbol
21	Jig washer	a) 0 0 0 o b) 0 0 0
22	Dry cleaner iTeh STAN	DARD PREVIEW
23	(stand	lards.iteh.ai) ISO 561:1974 g/standards/sis/35108/38-cc4c-4d8a-b9de- or or
24	Cyclone separator	
25	Trough washer	

No.	Item	Symbol
26	Concentrating table	
27	Froth flotation cells	a) or b)
28	Conditioner iTeh ST	ANDARD PREVIEW
29	Magnetic separator	ISO 561:1974 ni/catalog/standards/sist/35f04b38-cc4c/4d8a-b9de-61027cf20c04/iso-561-1974
30	Magnetic separator (tramp iron)	
31	Bunker (drainage)	
32	Centrifuge	

No.	Item	Symbol
33	Filter (vacuum)	
34	Filter (pressure)	
35]	DARD PREVIEW dards.iteh.ai)
36	https://standards.iteh.ai/catal 6102' Spitzkasten	ISO 561:1974 bg/standards/sist/35f04b38-cc4c-4d8a-b9de- 7cf20c04/iso-561-1974
37	Thickener	
38	Conical settling tank	