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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 18024.4-2010

Replacing GB/T 18024.4-2000

**Graphical symbols for the technical documentation of coal
mine machinery - Part 4: Graphical symbols for underground
haulage machinery**

煤矿机械技术文件用图形符号 第4部分：井下运输机械图形符号

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Foreword

GB/T 18024 "coal mine machinery Graphical symbols for technical documentation" is divided into seven parts.

- Part 1. General;
- Part 2. Support and pillar coal mining face graphic symbols;
- Part 3. Graphical symbols for mining machinery;
- Part 4. Graphical symbols for underground haulage machinery;
- Part 5. ground production and hoisting machinery graphic symbols;
- Part 6. Graphical symbols for surface mine machinery;
- Part 7. compressor, fan and pump graphic symbols. This section GB/T Part of 418,024. This Part replaces GB/T 18024.4-2000 "technical documentation of coal mine machinery Graphical symbols Graphical symbols for underground haulage machinery." Section compared with the GB/T 18024.4-2000 The main changes are as follows:
 - Expanding the scope of the standard (see Chapter 1);
 - Modify the design of graphical symbols, design standard modulus M dot grid, the grid system of 0.125M (2000 edition 3.2;
 - An increase in the use of graphic symbols, its scale and more flexible content (edition 3.5);
 - The "Shunting plate" was renamed "carousel" (2000 edition of 4-50; this edition 4-54);
 - The "double crossover turnout" was renamed "crossover turnout" (2000 edition of 4-57; this edition 4-61);
 - An increase of nine graphic symbols. flexible scraper conveyor, sinking winch, trackless rubber tire vehicles, rubber tire materials, vehicles, trackless rubber Wheel support truck, rubber tire multifunctional truck, crane service vehicles, dump trucks and underground car

charge (see 4-03,4-25, 4-44,4-47,4-48,4-49,4-50,4-51,4-52);

1 Scope

GB/T 18024.4-2010 is the Chinese national standard on graphical symbols for the technical documentation of coal mine machinery - part 4: graphical symbols for underground haulage machinery, in the field of generalities, terminology and documentation. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 26 September 2010 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 February 2011. Classification: ICS 01.080.20, CCS D04. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

GB/T 18024 provisions of this part of the underground transport machinery graphical symbols and rules. This section applies to machinery mining area with maps, diagrams, and technical documents, but also for other industries technical documentation similar machinery.

2 Normative references

The following documents contain provisions which, through reference

GB/T 18024 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 16901.1 technical documents represent the first part of the rule of graphical symbols. Basic rules (GB/T 16901.1-2008, ISO 81714-1.1999, MOD)

GB/T 17450 Technical drawings Chart (GB/T 17450-1998, idt ISO 128-20.1996)

3 Rules for use symbols

3.1 graphical symbols, applications GB/T 17450 stipulated line drawing.

3.2 represents the direction of the flow or movement of the thin arrows drawn in solid lines, the head of the angle should be between 45 ° ~ 60 °.

3.3 graphic symbols under the general section is drawn from the expression of an object in one direction, there are different views or functions not draw The same symbol may need to

choose when to use.

3.4 Part predetermined direction graphic symbols as needed can be rotated a certain angle or into a mirrored configuration, but the text can not be inverted. Graphical symbols specified in section

3.5 is based on GB/T 16901.1 requirements, design 0.125M lattice grid system for regulation The proportion of fixed symbols, graphic symbols can be different in different directions in the same proportion or ratio of the need to make appropriate adjustments according to use, but it should be fully Original graphical symbols transmitted information. General symbol specified in Section 3.6, indicating no need for the expression of specific types of objects occasion.

4 Graphical symbols for underground haulage machinery

Graphical symbols for underground haulage machinery shown in Table 1. Table

1 Graphical symbols for underground haulage machinery No Graphic Symbol Name
Description 4-

01 Scraper conveyor (single-point discharge) scraperconveyor (OnedischARGE) References
GB/T 16660-2008 [4.5.13a)]