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

中华人民共和国机械行业标准

JB/T 5500-2004
Replace JB/T 5500-1991
JB/T 6114-1992

Underground L.H.D

地下铲运机

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Foreword

This Standard will replace JB/T 5500-1991 *Underground Electrical L.H.D* and JB/T 6114-1992 *Underground Combustion L.H.D*.

Comparison with JB/T 5500-1991 and JB/T 6114-1992, main changes of this Standard are as follows:

- Changed the standard name as “*Underground L.H.D*”;
- Added the terms and definitions;
- Changed the basic parameter such as rated load, breakout force and traction, etc, added the requirements for rear axle hunting angle, etc;
- Adjusted the writing of technical requirements, meanwhile, more supplemented for technical contents have been made, stipulating the common and different requirements for electrical L.H.D, combustion L.H.D as follows:
 - Added the inspection requirements and inspection methods into inspection items, cancelled complete set inspection;
 - Cancelled the requirements for warranty period;
 - Cancelled the annex A.

This Standard is proposed by China Machinery Industry Federation.

This Standard is under the jurisdiction of National Technical Committee on Mining Machinery of Standardization Administration of China.

The responsible drafting organizations are Nanchang Mining Machinery Research Center, Nanchang General Machinery Co., Ltd and Hunan Nonferrous Metals Corporation Limited, Lida LHD Co., Ltd.

The chief drafting staff of this standard includes Wu Zhifang, Ye Guoyan, Xu Qingan, Zhao Yiqiao, Yang Xianli, Gan Yulin, Li Yuanfeng, Chen Jianhua and Gao Mengxiong.

This standard replaces the following historical editions issued:

- JB/T 5500-1991;
- JB/T 6114-1992.

Underground L.H.D

1 Scope

The Standard stipulates the underground L.H.D's term definition, product classification, technical requirements, test method inspection rules and marking, packaging, transportation and storage.

This standard applies to underground power-driven L.H.D and underground internal combustion L.H.D (Hereinafter referred to as L.H.D).

2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 191 Packaging - Pictorial marking for handling of goods (GB/T 191-2000, eqv ISO 780: 1997)

GB 2894 Safety signs and guideline for the use (GB 2894-1996, neq ISO 3864: 1984)

GB/T 4064 General guide for designing of electrical equipment to satisfy safety requirements

GB/T 5143 High-lift rider trucks--Overhead guards--Specification and testing (GB/T 5143-2001, idt ISO 6055: 1997)

GB/T 8420 Earth-moving machinery—Human physical dimensions of operators and minimum operator space envelope (GB/T 8420-2000, eqv ISO 3411: 1995)

GB/T 8923 Rust grades and preparation grades of steel surfaces before application of paints and related products (GB/T 8923-1988, eqv ISO 8501-1: 1988)

GB 12972.1 Flexible rubber-sheathed cables for mining purposes-Part 1: General

GB 12972.2 Flexible rubber-sheathed cables for mining purposes-Part 2: Flexible coalcutter cables for rated voltages up to 0.66/1.14kV

GB 12972.3 Flexible rubber-sheathed cables for mining purposes-Part 3: Trailing coalcutter cables with monitor

GB 12972.4 Flexible rubber-sheathed cables for mining purposes-Part 4: Flexible coalcutter cables with individual metallic screens for rated voltage of 0.66/1.14kV

GB 12972.5 Flexible rubber-sheathed cables for mining purposes-Part 5: Flexible cables for rated voltage up to 0.66/1.14kV

GB 12972.8 Flexible rubber-sheathed cables for mining purposes-Part 8: Flexible drill cables for rated voltage of 0.3/0.5kV

GB 12972.9 Flexible rubber-sheathed cables for mining purposes-Part 9: Flexible light-duty cables

GB/T 13306 Plates

GB/T 13384 General specification for packaging of mechanical and electrical products

GB 16424 Safety regulations for metal and nonmetal underground mines

GB/T 16937.1 Earth-moving machinery-Operators field of view-Criteria (GB/T 16937.1-1997, eqv ISO 5006-3: 1993)

JB/T 1604 Coed of designations for mining machinery products

JB/T 5000.3 The heavy mechanical general techniques and standards welding

JB/T 5000.12 The heavy mechanical general techniques and standards coating

JB/T 5501 Underground L.H.D—test method

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions apply.

3.1

Rated capacity

The smaller value between 50% of L.H.D static tipping load and 100% of its lifting capacity

3.2

Haulage state

The dipper is backward to the extreme extent, and the boom is in the state of lowest position.

3.3

Usage availability

The ratio of the total work time and service time when the machinery in a state of having operational capacity within lifetime, expressed as:

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