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

GB/T 35737-2017

Multi-rope mine drum hoists

多绳缠绕式矿井提升机

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard is proposed by the China Machinery Industry Federation. This standard by the National Mining Machinery Standardization Technical Committee (SAC/TC88) centralized. This standard is drafted by CITIC Heavy Industry Machinery Co., Ltd. Participated in the drafting of this standard. Luoyang Mining Machinery Engineering Design and Research Institute Co., Ltd., Shanxi New Fusheng Machinery Manufacturing Co., Ltd. the company. The main drafters of this standard. Zou Shengyong, Zhang Bubin, Liu Jinjun, Du Bo, Zhang Lanjun, Hu Xilei, Xu Yongfu, Li Jinwei, Zhang Ligang, Liu He Wei, Shun. Multi-rope winding mine hoist

1 Scope

China's national standard for multi-rope winding mine hoists. It specifies the types and basic parameters, the technical requirements, the test methods, the inspection rules and the marking, packaging, transport and storage. A mine hoist is the machine on which a deep shaft depends absolutely: it raises the ore, and it raises and lowers every person who works underground. The multi-rope winding design uses several ropes wound onto a drum in parallel rather than one, and the reason is depth. A single rope must carry the load plus its own weight, and past a certain depth the rope is mostly carrying itself, so the required diameter grows beyond what a drum can practically wind. Dividing the load among several ropes keeps each of them within a sensible size, and it adds redundancy in the one component whose failure is unsurvivable. That is also why the standard's requirements concentrate on the rope attachments, the braking and the overwind protection rather than on the drive.

This standard specifies the multi-rope winding mine hoist type and basic parameters, technical requirements, test methods, inspection rules, signs, bags Loading, transportation and storage. This standard applies to coal (non-explosion-proof), metal mines, non-metallic mineral shaft or inclined shaft lift personnel, materials and equipment used in multi-rope winding Mine hoist (hereinafter referred to as hoist).

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 191 Packaging - Pictorial signs

GB/T 4879 rust-proof packaging Visual inspection of surface cleanliness of steel surfaces before application of paints - Part 1. Uncoated Of the steel surface and the full removal of the original coating after the steel surface corrosion level and treatment level

GB/T 10095.1 cylindrical gear precision system - Part 1 gear teeth on the same side of the definition and allowable deviation

GB/T 10095.2 Cylindrical gears - Precision - Part 2. Definitions and allowable values of radial general deviation and radial runout Non - destructive testing of welds - Ultrasonic testing techniques, testing levels and assessment GB/T 11345-2013 GB/T 13306 signs

GB/T 13325 noise emitted by machinery and equipment operator position noise measurement of the basic criteria (Engineering)

GB/T 13384 mechanical and electrical product packaging General technical conditions GB .20181 mine hoist and mine hoist safety requirements

GB/T 25706 mining machinery product model preparation methods

JB/T 1581 Turbine, Turbine rotor and spindle forgings ultrasonic testing methods

JB/T 3277 mine hoist and mine hoist hydraulic station

JB/T 3721 mine hoist and mine hoist disc brake brake shoe Disk springs for

JB/T 3812 mine hoists and mine winches for disc brakes General technical requirements for heavy machinery - Part 1. Product inspection

JB/T 5000.12 Heavy machinery General technical requirements Part 12. Painting

JB/T 8519 mine hoist and mine winch disc brake Nondestructive testing of pressure equipment - Part 4. Magnetic particle testing Nondestructive testing of pressure equipment - Part 5. Penetrant testing

3 Type and basic parameters

3.1 type Lifter models are divided into single-winding, double-winding two. Single-cylinder hoist spindle device shown in Figure 1, the dual-cylinder hoist The spindle unit is as shown in FIG. 2 (the connection of the spindle unit is not limited to the illustrated universal joint connection).