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

GB/T 30752-2014

**Road construction and road maintenance machinery and
equipment - Asphalt mixing plants - Safety requirements**

道路施工与养护机械设备 沥青混合料搅拌设备 安全要求

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Quarantine;
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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. The standard proposed by China Machinery Industry Federation. This standard by the national construction machinery and construction equipment Standardization Technical Committee (SAC/TC328) centralized. This standard is drafted by: Beijing Institute of Architectural mechanization, Sany Heavy Industry Co., Ltd. Participated in the drafting of this Standard. China Classification Society Quality Assurance Ltd., Shanghai CTI products Detection Technology Co., Ltd., Xi'an cross roads Machinery Co., Ltd., Fujian South Highway Machinery Co., Ltd., Fujian Billiton Iron Machinery Co., Xugong Group Construction Machinery Co., Ltd. Science and Technology Branch, Beijing Construction Machinery Institute of Science and Technology Co., Ltd. The main drafters of this standard. Tianguang Fan, Yi Xiaogang, Wang Jianning, Jiang Hui, Wan Feng, Zheng distant, Terry Chen, Dai Yue high, Wu Lingyun, Zhao Jicheng, Wu Bing, Caoyong Tao, exposing Wenzhong, Zhou Zi Han. Road construction and maintenance machinery and equipment Asphalt Mixing Equipment - Safety Requirements

1 Scope

China's national safety standard for asphalt mixing plants. It specifies the safety requirements for fixed and mobile plants producing asphalt mixture for the construction and maintenance of traffic routes such as roads and airfields, and for water-retaining structures, dam walls and culverts. It covers asphalt mixing plants, cold feed mixing plants, asphalt material recycling plants, natural asphalt processing plants and binder storage installations. The document is built on a hazard-based structure rather than a component-based one: clause 4 lists the significant hazards associated with these plants in the conditions the manufacturer can foresee, clause 5 gives the technical measures that eliminate or reduce the resulting risks, and clause 6 gives the means of verifying that those measures are in place. That order is what makes it a machinery safety standard in the modern sense - the requirements exist because a specific hazard was identified, and each can be traced back

to it. The hazards themselves are serious and characteristic of the plant. Asphalt binder is handled hot, at temperatures where a splash causes a deep burn that cannot be cooled off the skin; the aggregate dryer is a large open flame with a fuel supply; the mixing tower is a structure of elevated platforms and enclosed spaces reached by ladders and walkways; and the whole plant is a dust environment with rotating and reciprocating machinery throughout. Three normative annexes cover the skip hoist and loading hopper, access openings, and the walkways, platforms, stairs, ladders and guard rails, with an informative annex illustrating the plant and its terminology. Issued on 9 June 2014 and in force since 1 January 2015.

This standard specifies the production and construction and maintenance of traffic routes (roads, airports, etc.), water retaining structures, dam walls, culverts and other used Lek Safety requirements for green mix of fixed and mobile mixing equipment. This standard applies to the following devices.

- a) asphalt mixing equipment;
- b) cold feed mixing equipment;
- c) bituminous material recycling equipment;
- d) natural asphalt processing equipment;
- e) asphalt binder storage devices. This standard deals with all significant hazards associated asphalt mixing and use of devices intended to be used in manufacturer foreseeable conditions of (See Chapter 4). This standard specifies the major hazards to eliminate or reduce these risks appropriate technical measures arising. The standard danger caused by combustible gases not covered, nor the risk of mechanical and pneumatic conveying equipment caused involve, for example to the belt Feeder, screw feeder, plate feeder, rotary valve, belt conveyors, screw conveyors, pneumatic conveyors, compressors and pumps. This standard does not apply to mobile asphalt production process machinery, does not apply to the production of concrete machinery. This standard applies to its implementation after the date of manufacture of the machinery.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 4208-2008 shell protection (IP code)

GB 5226.1 mechanical and electrical safety of machinery - Electrical equipment - Part 1. General requirements

GB/T 15706-2012 Safety of machinery - General principles for design risk assessment and

risk reduced

GB 16754-2008 Safety of machinery - Emergency stop design principles

GB/T 18153 Safety of machinery - accessible surface temperature Ergonomics data to establish temperature limit values for hot surfaces Ergonomic design - Part 1

GB/T 18717.1 for the safety of machinery. the body size of the opening into the machine to determine the principles Ergonomic design - Part 2

GB/T 18717.2 for the safety of machinery. Machinery body into the opening size is determined in principle Device design and selection principles interlock

GB/T 18831-2010 mechanical belt guards

GB/T 19670 Safety of machinery - Prevention of unexpected start

GB 23821 Safety of machinery - Safety distances to prevent danger zones being reached on the lower limbs EN746-1.1997 Industrial thermoprocessing equipment - Part 1. General Requirements for Safety of industrial heat treatment equipment

3 Terms and Definitions

GB/T 15706 and defined by the following terms and definitions apply to this document.