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

中华人民共和国国家标准

GB 16710-2010

Replace GB 16710.1-1996

Earth-moving machinery—Noise limits

土方机械 噪声限值

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**Standardization Administration of the People's Republic of
China**

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Foreword

Clause 4 of this Standard is mandatory, the rest are recommendatory.

This Standard will replace GB 16710.1-1996 *Earth-moving machinery-Noise limits*.

Comparison with GB 16710.1-1996, main changes of this Standard are as follows:

— Change the standard name of “*Construction Machinery—Noise Limits*” into “*Earth-Moving Machinery—Noise Limits*”.

— Change the standard numbers into the separate standard numbers, rather than the ones in section.

— Expand the types of earth-moving machinery for the standard:

According to the original standard, the applicable machinery includes 4 types:
Excavators, bulldozers, loaders, backhoe loaders;

According to the current standard, the applicable machinery includes 11 types:
Bulldozers, loaders, backhoe loaders, excavators, dump trucks, scrapers, graders,
pipe layers, trenchers, back-filling tampers and rollers.

— Modify the classification of the machinery and the power classifying of the engines with outside noise emission.

— Modify the noise limits, expand the noise limit phase in decreasing gradually and time for implementation.

This Standard was proposed by China Machinery Industry Federation

This Standard is under the jurisdiction of National Technical Committee 334 on Earth-Moving Machinery of Standardization Administration of China (SAC/TC 334).

The responsible drafting organizations are Tianjin Research Institute of Construction Machinery, Xiamen XGMA Machinery Co., Ltd, Tianjin Yishan Construction Machinery Co., Ltd and Heifei Zhenyu Construction Machinery Co., Ltd.

The participating drafting organizations includes Guangxi Liugong Machinery Co., Ltd,

XCMG Construction Machinery Co., Ltd, Sany Heavy Industry Co., Ltd, Fujian Jingong Machinery Co., Ltd, Shanghai Pengpu Machinery Co., Ltd and Shandong Shangong Machinery Co., Ltd.

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This standard replaces the following historical editions issued:

— GB 16710.1-1996.

Introduction

With the development of technology and more attention to the environment and human health, the world tends to have more stringent requirements on the noise. For the protection of the environment and human health, it is necessary to control the earth-moving machinery and its noise emission. The control level of the noise limits shall also consider the technical conditions of the domestic products in addition to meeting the requirements for the protection of environment and drivers' hearing. The limits specified in this standard are the minimum requirements for the earth-moving machinery noise in China at this stage.

With a view to the technical progress, especially the effectiveness of the measures to reduce the noise at the sound source, the machine shall be designed and manufactured to minimize noise emissions on the environment and human health. The feasibility and technical measures to control the noise at the sound source shall be taken into account in the machine design. Refer to ISO/TR 11688 to see the recommended low-noise machine designing methods.

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