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**Earth-moving machinery —  
Determination of emission sound  
pressure level at operator's position —  
Stationary test conditions**

*Engins de terrassement — Détermination du niveau de pression  
acoustique d'émission au poste de conduite — Conditions d'essai  
statique*

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## Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 6394 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 2, *Safety requirements and human factors*, in collaboration with Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 1, *Noise*.

This third edition cancels and replaces the second edition (ISO 6394:1998), which has been technically revised.

## Introduction

This International Standard is a specific test code for earth-moving machinery as defined in ISO 6165. It is an extension of ISO 11201, which contains the general requirements of many types of machinery and equipment.

Specific procedures are described in this International Standard to enable the time-averaged A-weighted emission sound pressure level in stationary test conditions to be determined in a manner which is repeatable. Attachments (bucket, dozer, etc.) for the manufacturer's production version are intended to be fitted since this is the configuration most likely to exist when the machine is in actual use.

This International Standard enables compliance with noise limits to be determined, if applicable. It can also be used for evaluation purposes in noise reduction investigations.

A complementary test code is given in ISO 6393. This other specific test code is intended to be used to determine the noise emitted by earth-moving machinery in terms of the A-weighted sound power level with the machine under stationary test conditions.

Corresponding measurements of noise emitted to the environment and noise at the operator's position under dynamic test conditions are described in ISO 6395 and ISO 6396, respectively.

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# Earth-moving machinery — Determination of emission sound pressure level at operator's position — Stationary test conditions

## 1 Scope

This International Standard specifies a method for determining the emission sound pressure level of earth-moving machinery at the operator's position, measured in terms of the time-averaged A-weighted emission sound pressure level while the machine is stationary with the engine operating at the rated speed under no-load conditions.

It is applicable to earth-moving machinery as defined in ISO 6165 and specified in ISO 6393:2008, Annex A.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3411, *Earth-moving machinery — Physical dimensions of operators and minimum operator space envelope*

ISO 6165, *Earth-moving machinery — Basic types — Identification and terms and definitions*

ISO 6393:2008, *Earth-moving machinery — Determination of sound power level — Stationary test conditions*

ISO 9249, *Earth-moving machinery — Engine test code — Net power<sup>1)</sup>*

ISO 11201, *Acoustics — Noise emitted by machinery and equipment — Measurement of emission sound pressure levels at a work station and at other specified positions — Engineering method in an essentially free field over a reflecting plane<sup>2)</sup>*

IEC 61672-1, *Electroacoustics — Sound level meters — Part 1: Specifications*

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1) To be published. (Revision of ISO 9249:1997)

2) To be published. (Revision of ISO 11201:1995)