
**Safety of machinery — Reduction of risks
to health from hazardous substances
emitted by machinery —**

Part 1:

Principles and specifications for machinery
manufacturers

*Sécurité des machines — Réduction des risques pour la santé résultant de
substances dangereuses émises par des machines —*

*Partie 1: Principes et spécifications à l'intention des constructeurs de
machines*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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.

International Standard ISO 14123-1 was prepared by the European Committee for Standardization (CEN) (as EN 626-1:1994) and was adopted, under a special "fast-track procedure", by Technical Committee ISO/TC 199, *Safety of machinery*, with its approval by the ISO member bodies.

ISO 14123 consists of the following parts, under the general title *Safety of machinery — Reduction of risks to health from hazardous substances emitted by machinery*:

- *Part 1: Principles and specifications for machinery manufacturers*
- *Part 2: Methodology leading to verification procedures.*

Annexes A and B of this part of ISO 14123 are for information only.

Introduction

This part of ISO 14123 has been produced to assist designers, manufacturers and other interested bodies to interpret essential safety requirements in order to achieve conformity with European Legislation on machinery safety.

ISO 14123-1 (EN 626-1) is one of a series of standards produced by CEN/CENELEC under mandates from CEC and EFTA. This series has been divided into several categories to avoid duplication and to develop a logical structure which will enable rapid production of standards and easy cross-reference between them.

The hierarchy of standards is as follows:

- a) **Type A standards** (generic safety standards) giving basic concepts, principles for design, and general aspects that can be applied to all machinery.
- b) **Type B standards** (group safety standards) dealing with one safety aspect or one type of safety-related device that can be used across a wide range of machinery:
 - type B1 standards on particular safety aspects (e.g. safety distances, surface temperature, noise, etc.).
 - type B2 standards are safety related devices (e.g. two-hand controls, interlocking devices, pressure-sensitive devices, etc.).
- c) **Type C standards** (machine safety standards) giving detailed safety requirements for a particular machine or group of machines defined in the scope of the standard.

This is a type B1 standard and its primary purpose is to give guidance to the writers of type C standards when machines are identified as emitting hazardous substances as a significant risk. This part of ISO 14123 may also be used as guidance in controlling the risk where there is no type C standard for a particular machine.

Safety of machinery — Reduction of risks to health from hazardous substances emitted by machinery —

Part 1:

Principles and specifications for machinery manufacturers

1 Scope

This part of ISO 14123 deals with principles for the control of risks to health due to hazardous substances from machinery. This part of ISO 14123 is not applicable to substances which are a hazard to health solely because of their explosive, flammable or radioactive properties or their behaviour at extremes of temperature or pressure.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this part of ISO 14123. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this part of ISO 14123 are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO/TR 12100-1:1992, *Safety of machinery — Basic concepts, general principles for design — Part 1: Basic terminology, methodology*

3 Definitions

For the purposes of this part of ISO 14123, the following definitions apply.

3.1

intended use

[see ISO/TR 12100-1]

3.2

hazardous substance

any chemical or biological agent which is hazardous to health, e.g. substances or preparations classified as¹⁾.

- very toxic;
- toxic;
- harmful;
- corrosive;
- irritant;

¹⁾ For EU countries, see also 67/548/EEC and its amendments.