

Safety of machinery — Laser processing machines — Safety requirements

The European Standard EN 12626:1997 has the status of a
British Standard

ICS 31.260

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National foreword

This British Standard is the English language version of EN 12626:1997. It was derived by CEN from ISO 11553:1996.

The CEN common modifications have been implemented at the appropriate places in the text and are indicated by a side line in the margin.

The UK participation in its preparation was entrusted to Technical Committee EPL/76, Optical radiation safety and laser equipment, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

Attention is drawn to the fact that Annex ZA lists normative references to international publications with their corresponding European publications and Annex ZB lists normative references to European standards. The prENs in Annex ZB are now published as ENs. The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or using the “Find” facility of the BSI Standards Electronic Catalogue.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 14 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Amendments issued since publication

Amd. No.	Date	Comments

This British Standard, having been prepared under the direction of the ELeCtrotechnical Sector Board, was published under the authority of the Standards Board and comes into effect on 15 August 1997

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Descriptors: Machinery, safety of machines, laser applications, laser radiation, light hazards, radiation protection, specifications, safety requirements, safety measures, machine guards, instructions for use.

English version

Safety of machinery — Laser processing machines — Safety requirements

(ISO 11553:1996 modified)

Sécurité des machines — Machines à laser —
Prescriptions de sécurité
(ISO 11553:1996 modifiée)

Sicherheit von Maschinen —
Laserbearbeitungsmaschinen —
Sicherheitsanforderungen
(ISO 11553:1996 modifiziert)

This European Standard was approved by CEN on 1997-01-16. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 123 “Laser and laser related equipment”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 1997, and conflicting national standards shall be withdrawn at the latest by August 1997.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s)

For relationship with EU Directive(s), see informative Annex ZC, which is an integral part of this standard.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

Normative references to International Standards are replaced by reference to European Standards through Annex ZA (normative).

Normative references to European Standards given in this endorsement notice are listed in Annex ZB (normative).

Introduction to the European Standard

The Machinery Safety Directive issued by the Council of the EEC outlines essential and mandatory requirements that must be met in order to ensure that machinery is safe. In response, CEN/CENELEC initiated a programme to produce safety standards for machines and their applications. This International Standard is one in that series.

It has been prepared as a harmonized standard to provide a means of conforming with the Essential safety requirements of the Machinery Directive and associated EFTA Regulations.

The extent to which hazards are covered is indicated in the scope. Machinery should comply as appropriate with EN 292 for hazards which are not covered by this International Standard.

It is applicable to machines using laser radiation to process materials. The purpose of this International Standard is to prevent injuries to persons

- by listing potential hazards generated by machines containing lasers;
- by specifying safety measures and verifications necessary for reducing the risk caused by specific hazardous conditions;
- by providing references to pertinent standards;
- by specifying the information which is to be supplied to the users so that they can establish proper procedures and precautions.

This standard should be considered as a B-type standard as defined in 3.2 of EN 414:1992 and is intended to give guidance to the writers of C-type standards and to designers and others where there is no C-type standard.

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