

Lasers and laser-related equipment — Laser materials-processing machines — Performance specifications and benchmarks for cutting of metals

ICS 31.260

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National foreword

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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

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the ISO/TR title page, pages ii to iv, pages 1 to 16, an inside back cover 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 April 1998

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TECHNICAL REPORT

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Lasers and laser-related equipment — Laser materials-processing machines — Performance specifications and benchmarks for cutting of metals

*Lasers et équipements associés aux lasers — Machines à laser pour travail
des matériaux — Spécifications de performances et bancs d'essai de
découpage de métaux*



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Descriptors: Optics, optical equipment, lasers, laser radiation, cutting machines, specifications, tests, acceptance testing.

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.

The main task of technical committees is to prepare International Standards, but in exceptional circumstances, a technical committee may propose the publication of a Technical Report of one of the following types:

- Type 1, when the required support cannot be obtained for the publication of an International Standard, despite repeated efforts;
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Technical reports of Types 1 and 2 are subject to review within three years of publication to decide whether they can be transformed into International Standards. Technical reports of Type 3 do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful.

ISO/TR 11552, which is a Technical Report of Type 2, has been prepared by Technical Committee ISO/TC 172, *Optics and optical Instruments*, Subcommittee SC 9 *Electro-optical systems*, in collaboration with the European Committee for Standardization CEN/TC123 *Lasers and laser related equipment*.

This document is being issued in the Technical Report (Type 2) series of publications (according to subclause **G.3.2.2** of part 1 of the ISO/IEC Directives) as a “prospective standard for provisional application” in the field of laser materials processing, because there is an urgent need for guidance on how standards in this field should be used to meet an identified need.

This document is not to be regarded as an “International Standard”. It is proposed for provisional application so that information and experience of its use in practice may be gathered. Comments on the content of this document should be sent to the ISO Central Secretariat.

A review of this Technical Report (Type 2) will be carried out not later than three years after its publication, with the options of extension for another three years; conversion into an International Standard; or withdrawal.

Annex A, Annex B, Annex C and Annex D of this Technical Report are for information only.

