

INTERNATIONAL STANDARD

ISO
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Dental rotary instruments — Diamond instruments —

Part 1:

Dimensions, requirements, marking and
packaging

Instruments rotatifs dentaires — Instruments diamantés —

Partie 1: Dimensions, exigences, marquage et emballage



Reference number
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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 7711-1 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 4, *Dental instruments*.

This first edition of ISO 7711-1 cancels and replaces the first edition of ISO 7711:1984, which has been technically revised.

ISO 7711 consists of the following parts, under the general title *Dental rotary instruments — Diamond instruments*:

- *Part 1: Dimensions, requirements, marking and packaging*
- *Part 2: Discs*
- *Part 3: Grit sizes, designation and colour code*

Introduction

This part of ISO 7711 is one of a series of standards relating to dental rotary instruments.

This first edition of ISO 7711-1 contains the updated specifications for diamond instruments given in ISO 7711:1984. It was also aligned in several details with the other International Standards on dental rotary instruments.

The various dimensional and other requirements specified for diamond instruments are those considered important to ensure the interchangeability and safe usage of these instruments in the practice of dentistry.

The nominal diameters of the working part listed in tables 1 to 48 comply with the diameters specified in ISO 2157. The diameters listed in the first column (preferred diameters) should be used in preference.

Attention is drawn to ISO 6360, which specifies a 15-digit number coding system for the identification of dental rotary instruments of all types.

Dental rotary instruments — Diamond instruments —

Part 1:

Dimensions, requirements, marking and packaging

1 Scope

This part of ISO 7711 specifies dimensional and other relevant requirements for the 14 most commonly used shapes of dental diamond instruments, including a quality control for these instruments.

It is envisaged to update this part of ISO 7711 at each periodical revision to cover at that time the commonly used shapes and other specifications.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 7711. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 7711 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1797-1:1992, *Dental rotary instruments — Shanks — Part 1: Shanks made of metals.*

ISO 2157:1992, *Dental rotary instruments — Nominal diameters and designation code number.*

ISO 3696:1987, *Water for analytical laboratory use — Specification and test methods.*

ISO 6360-1:1985, *Dental rotary instruments — Number coding system — Part 1: General characteristics.*

ISO 6360-2:1986, *Dental rotary instruments — Number coding system — Part 2: Shape and specific characteristics.*

ISO 7711-3:1992, *Dental rotary instruments — Diamond instruments — Part 3: Grit sizes, designation and colour code.*

ISO 8325:1985, *Dental rotary instruments — Test methods.*

3 Symbols

For the purposes of this part of ISO 7711, the following symbols apply:

d_1 diameter of working part; head diameter