

# INTERNATIONAL STANDARD

**ISO**  
**1797-2**

First edition  
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## **Dental rotary instruments — Shanks —**

### **Part 2:**

Shanks made of plastics

*Instruments rotatifs dentaires — Queues —*

*Partie 2: Queues en matières plastiques*



Reference number  
ISO 1797-2:1992(E)

## 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 1797-2 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Sub-Committee SC 4, *Dental instruments*.

This first edition of ISO 1797-2, together with ISO 1797-1, cancel and replace the first edition of ISO 1797 published in 1985, of which they constitute a technical revision.

ISO 1797 consists of the following parts, under the general title *Dental rotary instruments — Shanks*:

- Part 1: *Shanks made of metals*
- Part 2: *Shanks made of plastics*

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## **Introduction**

This International Standard is one of a series of basic standards on dental rotary instruments and constitutes an important link between the standards on dental rotary instruments and those on dental handpieces.

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# Dental rotary instruments — Shanks —

## Part 2: Shanks made of plastics

### 1 Scope

This part of ISO 1797 specifies shanks of dental rotary instruments made of plastics materials and gives measurement methods for the verification of the dimensions. A quality requirement is added in order to ensure a high quality level.

Subclauses 4.6 and 4.7 do not apply to disposable (single-use) instruments.

Shanks made of plastics materials are designed for use at speeds less than 5 000 r/min.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 1797. 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 1797 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/R 527:1966, *Plastics — Determination of tensile properties*.

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

ISO 3274:1975, *Instruments for the measurement of surface roughness by the profile method — Contact*

*(stylus) instruments of consecutive profile transformation — Contact profile meters, system M.*

ISO 3630-1:—<sup>1)</sup>, *Dental root-canal instruments — Part 1: Files, reamers, barbed broaches, rasps, paste carriers, explorers and cotton broaches*.

ISO 3630-2:1986, *Dental root canal instruments — Part 2: Enlargers*.

ISO 4288:1985, *Rules and procedures for the measurement of surface roughness using stylus instruments*.

### 3 Symbols and terms

Symbols and terms are shown in figures 1 to 3, with the following key:

- $d_1$  diameter of shank
- $d_2$  diameter in the groove
- $s$  D-flat dimension
- $l_1$  fitting length
- $l_2$  shoulder to end length
- $l_3$  shoulder to groove length
- $l_4$  width of groove

NOTE 1 Figures 2 and 3 are given for consistency with ISO 1797-1.

1) To be published.