INTERNATIONAL STANDARD

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Dentistry — Laboratory cutters —

Part 1: **Steel laboratory cutters**

Médecine bucco-dentaire — Fraises de laboratoire — Partie 1: Fraises de laboratoire en acier





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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 106, *Dentistry*, Subcommittee SC 4, *Dental instruments*.

This second edition cancels and replaces the first edition (ISO 7787-1:1984), which has been technically revised.

ISO 7787 consists of the following parts, under the general title *Dentistry — Laboratory cutters*:

- Part 1: Steel laboratory cutters
- Part 2: Carbide laboratory cutters
- Part 3: Tungsten carbide cutters for milling machines
- Part 4: Miniature carbide laboratory cutters

Introduction

This part of ISO 7787 is one of a series of International Standards relating to dental rotary instruments.

The various dimensional and other requirements specified for steel cutters are those considered important to ensure the interchangeability of these instruments.

Dentistry — **Laboratory cutters** —

Part 1:

Steel laboratory cutters

1 Scope

This part of ISO 7787 specifies dimensional and other requirements for the nine most commonly used steel cutters which are predominantly used in the dental laboratory.

Other characteristics of laboratory cutters, for example, spiralled blades or cross-cut, are not covered by this part of ISO 7787.

NOTE These cutters are also used in podiatry.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1797¹⁾, Dentistry — Shanks for rotary and oscillating instruments

ISO 1942, Dentistry — Vocabulary

ISO 2157, Dentistry — Nominal diameters and designation code numbers for rotary instruments

ISO 6360-3, Dentistry — Number coding system for rotary instruments — Part 3: Specific characteristics of burs and cutters

ISO 8325, Dentistry — Test methods for rotary instruments

3 Terms, definitions and symbols

For the purposes of this document, the terms and definitions given in ISO 1942, ISO 6360-3, and the following apply.

3.1 Terms and definitions

3.1.1

laboratory cutter

cutter designed for use with dental materials in the dental laboratory

3.1.2

dental laboratory

facility where dental technical procedures complementing dental clinical treatment are carried out

[SOURCE: ISO 1942:2009, 2.77]

¹⁾ To be published.