
International Standard



7787/1

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Dental rotary instruments — Cutters Part 1 : Steel laboratory cutters

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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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7787/1 was prepared by Technical Committee ISO/TC 106, *Dentistry*, in collaboration with the following international organization : FDI (International Dental Federation).

Dental rotary instruments — Cutters — Part 1 : Steel laboratory cutters

0 Introduction

This International Standard is one of a series of standards relating to dental rotary instruments. It consists of two parts :

Part 1 : Steel laboratory cutters.

Part 2 : Carbide laboratory cutters.

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

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

1 Scope and field of application

This part of ISO 7787 specifies the dimensional and other requirements for the nine most commonly used steel cutters¹⁾ which are predominantly used in the dental laboratory.

Other characteristics of cutters, for example spiralled blades, cross-cut, are not covered by this International Standard. These will be dealt with in a future International Standard.

2 References

ISO 1797, *Dental rotary instruments — Shanks.*²⁾

ISO 2157, *Dental rotary instruments — Nominal sizes and designation.*

ISO 2859, *Sampling procedures and tables for inspection by attributes.*

ISO 6360, *Dental rotary instruments — Number coding system.*³⁾

ISO 8325, *Dental rotary instruments — Test methods.*³⁾

3 Symbols

d diameter of the working part, head diameter.

l length of the working part, head length.

4 Material

The shaft and the working part shall be made of steel.

The selection of the type of steel and the treatment given to it shall be left to the discretion of the manufacturer.

1) Sometimes called laboratory burs.

2) At present at the stage of draft. (Revision of ISO 1797-1976.)

3) At present at the stage of draft.