
**Dentistry — Shanks for rotary
instruments —**

**Part 1:
Shanks made of metals**

Médecine bucco-dentaire — Queues pour instruments rotatifs —

Partie 1: Queues en matériaux métalliques





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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

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.

ISO 1797-1 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 4, *Dental instruments*.

This second edition cancels and replaces the first edition (ISO 1797-1:1992) and ISO 1797-1:1992/Amd.1:1997, which has been technically revised. The following changes were made:

- a) addition of a maximum value for the end of the shank for Type 3;
- b) addition of a definition for shank;
- c) clarification of symbols and figures.

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

— *Part 1: Shanks made of metals*

— *Part 2: Shanks made of plastics*

Introduction

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

Dentistry — Shanks for rotary instruments —

Part 1: Shanks made of metals

1 Scope

This International Standard specifies shanks for rotary instruments used in dentistry and gives measurement methods for the verification of dimensions.

2 Normative references

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

ISO 1942, *Dentistry — Vocabulary*

ISO 3274, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Nominal characteristics of contact (stylus) instruments*

ISO 4288, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Rules and procedures for the assessment of surface texture*

ISO 6507-1, *Metallic materials — Vickers hardness test — Part 1: Test method*

ISO 8325, *Dentistry — Test methods for rotary instruments*

3 Terms, definitions, symbols and abbreviated terms

3.1 Terms and definitions

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

3.1.1 shank

part of a rotary instrument used in dentistry which is designed to fit into the chuck of a straight or geared dental handpiece, a technical handpiece or a dental turbine

3.2 Symbols and abbreviated terms

Symbols and terms are shown in Figures 1 to 8 with the following key:

d_1 shank diameter;

d_2 diameter in the groove;