

# INTERNATIONAL STANDARD

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## **Dental rotary instruments — Mandrels**

*Instruments rotatifs dentaires — Mandrins*



Reference number  
ISO 13295:1994(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 13295 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 4, *Dental instruments*.

# Dental rotary instruments — Mandrels

## 1 Scope

This International Standard specifies requirements, packaging and marking for mandrels suitable for holding mounted and unmounted dental discs and polishers.

Mandrels may be used for dental rotary instruments of different working diameters.

For mandrels with mounted discs and polishers, the specification for the thread and screw do not apply.

Attention is drawn to ISO 6360-1 and ISO 6360-2 which specify a 15-digit number for the identification of dental rotary instruments of all types.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard 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 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*.

## 3 Classification

Mandrels are classified into the following two types, according to their application:

- Type 1: mandrels for standard application;
- Type 2: mandrels for heavy-duty application.

## 4 Requirements

### 4.1 Material

Mandrels and screws shall be made of a material with a yield strength of at least 600 N/mm<sup>2</sup>. Type and treatment shall be at the discretion of the manufacturer.

Testing shall be carried out in accordance with 5.1.

### 4.2 Dimensions

The dimensions and tolerances are given in millimetres. They shall be as shown in figures 1 to 3.

This International Standard specifies only mandrels with a diameter of the plate and screw head of 5 mm. Other diameters are possible [see clause 6 f)].

Testing shall be carried out in accordance with 5.2.