

Dentistry - Nominal diameters and designation code numbers for rotary instruments (ISO 2157:2016)

## EESTI STANDARDI EESSÕNA

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English Version

**Dentistry - Nominal diameters and designation code  
numbers for rotary instruments (ISO 2157:2016)**

Médecine bucco-dentaire - Diamètres nominaux et  
designation par numéro de code pour instruments  
rotatifs dentaires (ISO 2157:2016)

Zahnheilkunde - Nenndurchmesser und  
Bezeichnungscodenummern für rotierende  
Instrumente (ISO 2157:2016)

This European Standard was approved by CEN on 15 April 2016.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## European foreword

This document (EN ISO 2157:2016) has been prepared by Technical Committee ISO/TC 106 “Dentistry” in collaboration with Technical Committee CEN/TC 55 “Dentistry” the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2016, and conflicting national standards shall be withdrawn at the latest by November 2016.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 2157:1995.

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### Endorsement notice

The text of ISO 2157:2016 has been approved by CEN as EN ISO 2157:2016 without any modification.

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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](http://www.iso.org/directives)).

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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 fourth edition cancels and replaces the third edition (ISO 2157:1992), which has been technically revised with the following changes:

- a) [Clause 2](#), Normative references was added;
- b) General reference to ISO 1942 vocabulary was added;
- c) [Clause 3](#), Terms and definitions was added.

## Introduction

This International Standard is one of several basic standards for dental rotary instruments and describes a series of nominal diameters for the working parts of dental rotary instruments. It also lists the designations corresponding to those diameters. These designations give the diameters, in tenths of millimetres, in the form of a three-digit number which is used as part of the number code in ISO 6360 (all parts).

# Dentistry — Nominal diameters and designation code numbers for rotary instruments

## 1 Scope

This International Standard specifies the nominal diameters of the working parts of dental rotary instruments, for example burs, laboratory burs, grinding instruments, diamond instruments, mandrels and the corresponding designation.

Excluded are the diameters of endodontic instruments and scaler tips.

## 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 3, *Preferred numbers — Series of preferred numbers*

ISO 1942, *Dentistry — Vocabulary*

ISO 6360-1, *Dentistry — Number coding system for rotary instruments — Part 1: General characteristics*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1942 and ISO 6360-1 and the following apply.

### 3.1

#### **code number**

series of numbers for specific detail information for dental *rotary instruments* (3.4) or their accessories

[SOURCE: ISO 6360-1:2004, 3.3.]

### 3.2

#### **designation code number**

resulting designation as derived from the *nominal diameter* (3.3)

### 3.3

#### **nominal diameter**

theoretical value of the diameter

### 3.4

#### **rotary instrument**

tool used for rotary or oscillating movements, consisting of a working end, neck (if applicable) and shank, which is constructed to fit into a handpiece

Note 1 to entry: This includes continuous rotation or oscillating instruments.

Note 2 to entry: See [Figure 1](#).