

INTERNATIONAL STANDARD

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Dental rotary instruments — Nominal diameters and designation code number

*Instruments rotatifs dentaires — Diamètres nominaux et désignation par
numéro de code*



Reference number
ISO 2157:1992(E)

Foreword

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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 2157 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Sub-Committee SC 4, *Dental instruments*.

This third edition cancels and replaces the second edition (ISO 2157:1984), differences from which are indicated in the Introduction.

Annex A of this International Standard is for information only.

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Introduction

This International Standard is one of several basic standards for dental rotary instruments and sets out in tabular form 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 [2] [3].

The nominal diameters in the range of 0,5 mm to 30 mm given in the previous edition of this International Standard have been retained in this revision. However, in the range 2,5 mm to 10 mm, a few additional diameters corresponding to the R20 series of ISO 3 [1] have been added. It is recommended in the range of 2,5 mm to 10 mm to substitute the diameters of the R20 series for the old diameters, in order to reduce the number of diameters in this area from 21 to 12.

In the range 10 mm to 30 mm, diameters based on the R20 numbers are already in common use.

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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, etc. and the corresponding designation. It does not cover the diameters of root canal instruments.

2 Nominal diameters and designation

The nominal diameters, in millimetres, and the designation by code number of the working parts of dental rotary instruments shall be selected from those listed in table 1.

Table 1

Nominal diameters mm	Designation code number	Nominal diameters mm R 20 series		Designation code number	Nominal diameters mm R 20 series	Designation code number
0,5	005	2,5	2,5	025	10	100
0,6	006	2,7		027	11,2	112
0,7	007		2,8	028	12,5	125
0,8	008	2,9		029	14	140
0,9	009	3,1		031	16	160
1	010		3,15	031	18	180
1,2	012	3,3		033	20	200
1,4	014	3,5		035	22,4	224
1,6	016		3,55	035	25	250
1,8	018	3,7		037	28	280
2,1	021	4	4	040	30	300
2,3	023	4,2		042		
		4,5	4,5	045		
		4,7		047		
		5	5	050		
		5,5		055		
			5,6	056		
		6		060		
			6,3	063		
		6,5		065		
		7		070		
			7,1	071		
		7,5		075		
		8	8	080		
		8,5		085		
		9	9	090		
		9,5		095		