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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION

R 1797

DENTAL BURS AND CUTTERS

FITTING DIMENSIONS

1st EDITION

October 1970

For each individual country the only valid standard is the national standard of that country.

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DENTAL BURS AND CUTTERS

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INTRODUCTION

The purpose of this ISO Recommendation is to lay down fitting dimensions for dental burs and cutters in order to achieve a general interchangeability of these instruments in the different handpiece designs. It is intended in the near future to formulate other recommendations to cover further aspects of rotary instrument design.

1. SCOPE

This ISO Recommendation comprises the fitting dimensions of burs and cutters used in dentistry. It also includes the description of methods of measurement for the verification of the fixed dimensions. A quality control is included in order to ensure a high quality level.

2. CLASSIFICATION

Burs and cutters covered by this ISO Recommendation should be classified into types, as follows, according to their shank design :

Type 1 – with shank designed for use in angle handpieces;

Type 2 – with shank designed for use in straight handpieces;

Type 3 – with shank designed for use in friction grip handpieces.

3. FITTING DIMENSIONS AND TOLERANCES

The fitting dimensions and their tolerances should be as shown on the Figure below.

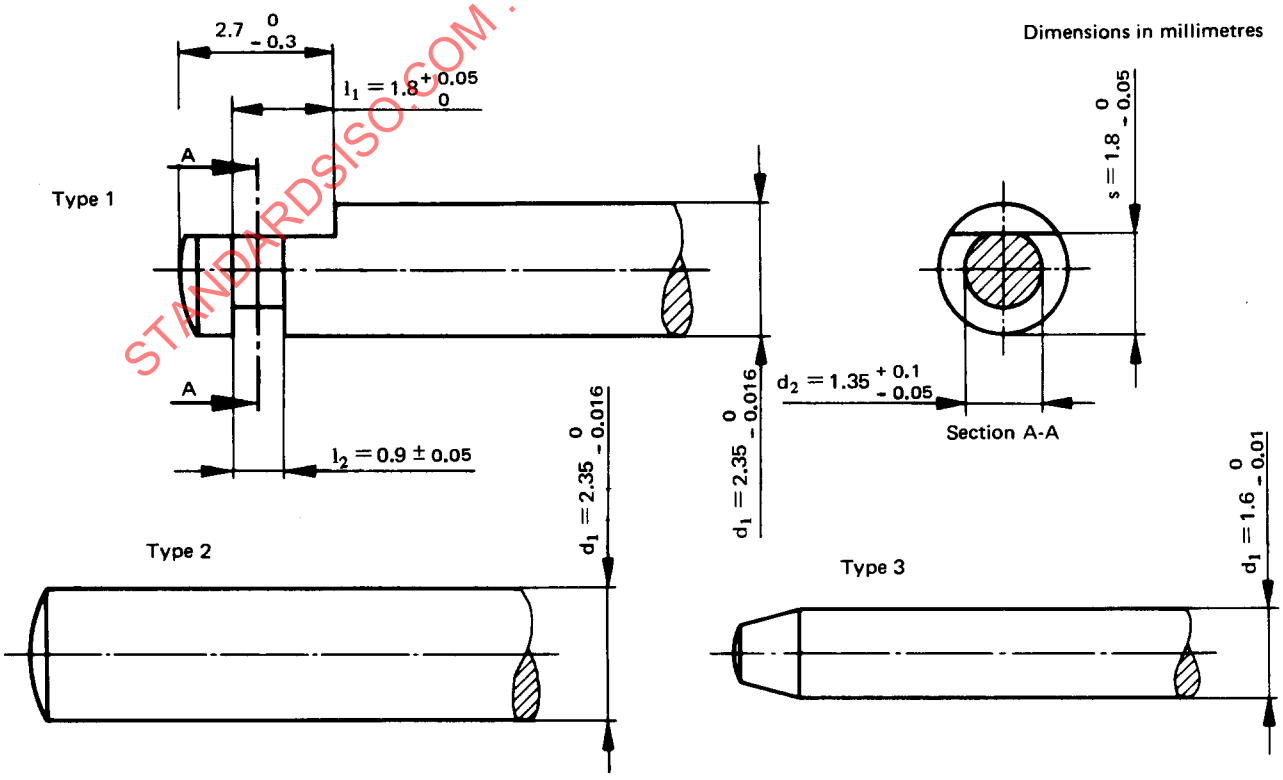

FIGURE – **Fitting dimensions and tolerances**

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Page 2 : On Section A-A of the Figure, dimension s should be

$s = 1.8 \, {}^{0}_{-0.06}$ instead of $s = 1.8 \, {}^{0}_{-0.05}$