

ICS 11.060.20

CCS C 33



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 44469-2024

Dental rotary instruments - Laboratory abrasive instruments

牙科旋转器械 技工室研磨器械

(English Translation)

Issued on: September 29, 2024

Implemented on: October 1, 2025

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Preface
Introduction
1 Scope
2 Normative references
3 Terms and Definitions
4 Symbols
5 Requirements
5.1 Materials
5.2 Shape
5.3 Size
5.4 Specifications of grinding instruments for dental laboratories
5.5 Radial runout
6 Test Methods
6.1 Shape
6.2 Size
6.3 Radial runout
7 Sampling and Acceptance Quality Limit (AQL)
8 Manufacturer's instructions
9 Marking of grinding equipment
10 Tags
11 Packaging
References

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is modified to adopt ISO 7786:2001 "Dental rotary instruments - Laboratory grinding instruments".

This document has the following structural adjustments compared to ISO 7786:2001.

--- Added "Terms and Definitions" (see Chapter 3);

--- Deleted the overhang section in the size, the statement about "the dimensions in tables and figures are in millimeters and the angles are in degrees".

The technical differences between this document and ISO 7786:2001 and their reasons are as follows.

--- Added the statement "This document applies to the six types of ceramic bonded grinding instruments mainly used in laboratories" (see Chapter 1) to adapt to my country's technical conditions increase operability;

--- ISO 1797 (see 5.1.2, 5.3.2, Chapter 10) has been replaced with the normative reference YY/T 0967 to adapt to the technical requirements of my country parts, increasing operability;

--- Replaced ISO 8325 (see 6.1, 6.2, 6.3) with the normative reference YY/T 0874 to adapt to my country's technical conditions and added Operability;

--- ISO 2859-1 (see Chapter 7) has been replaced by the normative reference GB/T 2828.1 to adapt to my country's technical conditions and add Operability;

--- Replaced ISO 6360-2 (see Chapter 10) with the normative reference YY/T 0873.2 to adapt to my country's technical conditions and added Operability;

--- Change "name and/or trademark of the manufacturer or distributor" in a) of the label to "name and/or trademark of the manufacturer" (see Section 10) Chapter) to adapt to my country's technical conditions and increase operability.

Introduction

This document is one of a series of standards related to dental rotary instruments.

This document contains specifications for laboratory-ground instruments. The various dimensions and other requirements for laboratory-ground instruments are considered to ensure that dental Interchangeability and safe use of these grinding instruments are important requirements in the laboratory.

The nominal diameters of the working parts listed in Tables 1 to 10 conform to the diameters specified in YY/T 1011.

Please note that YY/T 0873 (all parts) specifies a 15-digit coding system for classifying all types of Dental Rotary Instruments.

Dental Rotary Instruments Laboratory Grinding Instruments

1 Scope

This document specifies the dimensions and other relevant requirements of six common shapes of ceramic bonded abrasive instruments used in dental laboratories.

requirements, including quality control and labeling specifications for these devices.

This document applies to the six main types of ceramic bonded abrasive instruments used in laboratories.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

GB/T 2828.1 Sampling procedures for inspection by attributes Part 1: Sampling plans for batch inspection based on the acceptance quality limit (AQL) (GB/T 2828.1-2012, ISO 2859-1:1999, IDT) YY/T 0873.2 Digital Coding System for Dental Rotary Instruments Part 2: Shape (YY/T 0873.2-2014, ISO 6360-2.

2004, IDT)

YY/T 0874 Test methods for rotating instruments in dentistry (YY/T 0874-2013, ISO 8325:2004, IDT) YY/T 0967 Rods for rotary and reciprocating instruments in dentistry (YY/T 0967-2022, ISO 1797:2017, MOD)

3 Terms and definitions

There are no terms or definitions that require definition in this document.

4 Symbols

The following symbols apply to this document.

d---working part diameter, head diameter;

l1---working part length, head length;

l2---total length;

alpha --- Working part angle.

5.1.1 Working part

The working parts shall be made of abrasive material. The type of abrasive material and the choice of treatment shall be left to the discretion of the manufacturer.

5.1.2 Rod

The material of the rod should comply with YY/T 0967.