

Ceramic ferrule probe-based detection of concentricity



Overview

A concentricity detection mechanism for a ceramic ferrule, comprising a testing table and a base, the testing table is provided with a V-shaped groove for placing the ceramic ferrule to be tested, the base is located on one side of the testing table, and is characterized. A concentricity detection mechanism for a ceramic ferrule, comprising a testing table and a base, the testing table is provided with a V-shaped groove for placing the ceramic ferrule to be tested, the base is located on one side of the testing table, and is characterized. This video showcases our self-developed concentricity testing equipment for ceramic ferrules. Watch the precise inspection process in action, ensuring superior alignment accuracy and product quality, reflecting our commitment to precision manufacturing and technological innovation. Ceramic ferrules and sleeves are often used in optical connectors, attenuators, fiber stubs, and other optoelectronics requiring low signal loss. Kyocera's extrusion molding process creates ferrules with excellent coaxiality, and our precision machining ensures excellent concentricity with precise. When machining the zirconia ceramic ferrule, inspection process (concentricity, outer and inner diameters, end curve radius, displacement, scratch) is very important factor. For example SM (. measurement system. Ferrule end-face visual inspection at x 400 magnification The software indicates the max eccentricity angle when Ferrule envelope on bare ferrules & bore shape-error rotating the ferrule. measurement User adjustable quality level for high-speed. A zirconia ferrule has a very high accuracy demand. Since especially the concentricity measurement needs. The Microcut MicroTest HS-P Concentricity Tester is a high-precision, contact-based metrology system engineered for the dimensional inspection of optical fiber ferrules and alignment sleeves. Designed and manufactured under Swiss engineering standards, it operates on the principle of.

Article Content

Jan 14, 2026

CN211027140U

In the concentricity detection device of a ceramic ferrule, a vibrating plate, a feeding mechanism, a grasping mechanism and a

Aug 24, 2025

Ferrule Inspection Machines / LOGOS Co.,Ltd.

When machining the zirconia ceramic ferrule, inspection process (concentricity, outer and inner diameters, end curve radius,

Feb 19, 2026

FERRULE MASTER LC/SC Concentricity Tester

Ferrule Master is designed by Dimension Co. Ltd based on experience in development of precision instruments for many years and

May 25, 2026

Study on High Precision Control Scheme of Ceramic Ferrule Concentricity ...

The paper analyzes the precision coaxial processing requirements and the characteristics of high automatic online

Feb 16, 2026

FERRULE-CORE CONCENTRICITY Publication Classification

A method of measuring a concentricity between an optical fiber core of an optical fiber held by a ferrule and a true center of the

May 20, 2026

US6011616A

Systems and methods for quickly and accurately measuring the concentricity of a core with respect to a ferrule are provided. A beam

Jan 06, 2026

Ferrule Inspection Equipments | LOGOS CO.,LTD.

Semi automatic equipment which measures the concentricity of the inside diameter to the outside diameter of a ferrule at high speed

Jun 18, 2026

Fiber Ferrule: The Key to Precision and Performance in Fiber Optic ...

Fiber Ferrule – The Key to Precision and Performance in Fiber Optic Connectors Fiber optic connectors consist of

Oct 28, 2025

Concentricity Foss Fiber Optics AS

Fiber-core concentricity can have various origins such as fiber cladding to core concentricity, ferrule envelope to bore concentricity

Jun 27, 2026

WO2015095169A1

Systems and methods of measuring ferrule-core concentricity for an optical fiber held by a ferrule are disclosed. The method

Oct 05, 2025

A Detection Method of Breakpoint of Optical Fiber in Ceramic Ferrule

Abstract A method based on white-light interferometer was proposed to detect the optical fiber has breakpoints or not

Jun 04, 2026

What is the Concentricity of a Ceramic Ferrule?

High concentricity in a ceramic ferrule ensures that the fiber's core is positioned exactly at the mechanical center of

Mar 07, 2026

Ferrule Inspection Machines / LOGOS Co.,Ltd.

Ferrule Inspection When machining the zirconia ceramic ferrule, inspection process (concentricity, outer

Jan 05, 2026

Microcut MicroTest HS-P Concentricity Tester

The Microcut MicroTest HS-P Concentricity Tester is a high-precision, contact-based metrology system engineered for the

Jan 07, 2026

Koncentrik-V2 Ferrule

Koncentrik-V2 is a modular measurement system. Fiber or ferrule eccentricity measurements can be performed using different

Jan 15, 2026

US10185096B2

Systems and methods of measuring ferrule-core concentricity for an optical fiber held by a ferrule are disclosed. The method

Jan 28, 2026

KONCENTRIK-V2 Ferrule

The software indicates the max eccentricity angle when Ferrule envelope on bare ferrules & bore shape-error rotating the ferrule.

Jan 20, 2026

Ceramic Ferrule Concentricity Inspection

This video showcases our self-developed concentricity testing equipment for ceramic ferrules. Watch the precise inspection process

Sep 16, 2025

FERRULE MASTER LC/SC Concentricity Tester

FERRULE MASTER LC/SC Concentricity Tester Ferrule Master is designed by Dimension Co. Ltd based on experience in

Aug 21, 2025

Ceramic Ferrules / Sleeves | Ceramics for Optical Connectors

Kyocera's extrusion molding process creates ferrules with excellent coaxiality, and our precision machining ensures excellent

Nov 18, 2025

CN105423877A

The invention discloses a concentricity detection method for a ceramic mold. The ceramic mold comprises three hollow members: an

Jun 19, 2026

KONCENTRIK-V2 Ferrule

CONCENTRICITY KON Ferrule K O N C E N T R I K - V 2 F e r r u l e High precision Concentricity measurements measurement

Aug 13, 2025

Highly accurate measuring equipment for the optical connector ferrule ...

Principle of measurement Based on the method of comparison with the dimension of a gauge ferrule, the outside and

Apr 11, 2026

The Relationship between Insertion Loss and Premium Ferrules

The ferrules with the Premium Loss will have slightly higher concentricity (0.5um vs 0.3um) and thus are expected to have a slightly

May 28, 2026

Ceramic Ferrule Fiber Optic Ferrules: Precision for Superior ...

These advanced production methods enabled ceramic ferrule manufacturers to improve performance and precision

Dec 05, 2025

A precise technique for measurement of optical-fiber hole concentricity ...

A precise optical method was developed for measuring the concentricity of a longitudinal hole in a cylinder relative to

Contact Us

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