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Calibration Specification for Coordinated Measuring Spheres

坐标测量球校准规范

(English Translation)

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Introduction

JJF 1071 "National Calibration Specifications writing rules", JJF 1001 "common measurement terms and definitions" JJF 1130-2005 "geometric measurement equipment calibration Uncertainty Evaluation Guide" together constitute the support of the calibrator Basic family of specifications developed by Fan.

The specification for the first time to develop.

Coordinate Measuring ball calibration specification

1 Scope

This instruction applies to a coordinate measuring ball (detection ball and calibration ball) calibration.

2. References

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This specification refers to the following documents.

JJF 1064-2010 coordinate measuring machine calibration specification JJF 1094-2002 measuring instrument characteristics evaluation for dated references, only the dated edition applies to this specification; undated reference documents Member, the latest edition (including any amendments) applies to this specification.

3 Overview

Coordinate measuring balls used for calibration or calibration coordinate measuring machines, CNC machine tools and other length measurement instruments, use is divided into inspection Tipsters and calibration ball types. Detection can be used to detect the error calibration ball coordinate measuring machines and other equipment and other projects; calibration the ball can be used for calibration of coordinate measuring machines and other equipment of the coordinate position of the probe and the probe diameter.

Coordinate Measuring ball usually steel, carbide, ceramic or glass, usually with a diameter of its model specifications, it Size diameter (10 ~ 50) mm. Common coordinate measuring ball by structure type is divided into. with coupling rod and base sit Standard measuring ball without coupling rod and the base coordinate measuring ball, as shown in FIG.

Coordinate measuring spherical coordinate measuring ball (a) with the coupling rod and the base (b) without the coupling rod and base

1 Schematic diagram coordinate measuring ball 1- sphere; 2- knob; 3- coupling rod; 4- base

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